

NON-SPARKING

ANTICHISPA
NON-SPARKING
ANTI-DEFLAGRANT
FUNKENFREI
ANTISCINTILLA
ANTI-DEFLAGRANTE
ИСКРОБЕЗОПАСНЫЙ

37



NON-SPARKING

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 ²

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 ²

■ **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 / Non-magnetic safety / 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 / Corrosion resistant / 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 / Forged after casting / 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 / Ergonomic designs / 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 / Hardness / Dureté	311- 408 Brinell	241-311 Brinell
Magnetismo / Magnetism / 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 / Durability / 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 / Price / 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 acétylique 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 Explosion group Groupe d'explosion	Clase de temperatura (máxima temperatura superficial admitida) Class of temperature (maximum surface temperature allowed) Classe de température maximum admise					
Temperatura de ignición Temperature of ignition Température d'ignition	T1 (450 °C)	T2 (300 °C)	T3 (200 °C)	T4 (135 °C)	T5 (100 °C)	T6 (85 °C)
	450 °C	300-450 °C	200-300 °C	135-300 °C	100-135 °C	85-100 °C
I	Metano Methane Méthane					
IIA Energía de ignición superior a: Energy of ignition higher than: Energie d'ignition supérieure á: 0.18 mJ	Acetona Acetone Acétone	i-amilacetato i-amyl acetate i-amylacétate	Amilalcohol Amyl alcohol Amyl alcool	Acetaldehído Acetaldehyde Acétaldéhyde		
	Amoníaco Ammonia Ammoniac	n-butano n-butane n-butane	Gasolinas Gasolines Gasolines			
	Benceno Benzene Benzène	n-butanol n-butanol n-butanol	Gasóleo Gas-oil Gas-Oil			
	Etilacetato Ethylacetate Acétate d'éthyle	1-buteno 1-butene 1-butène	Combustible de calefacción Heating oil Huile de chauffage			
		Propilacetato Propylacetate Acétate de propyle	n-hexano n-hexane n-hexane			
	Metanol Methanol Méthanol	i-propanol i-propanol i-propanol				
	Propano Propane Propane	Vinilclorido Vinylchloride Vinylchloride				
	Tolueno Toluene Toluène					
IIB Energía de ignición entre: Energy of ignition between: Energie d'ignition de: 0.06 & 0.18 mJ	Cianuro de hidrógeno Hydrogen cyanide Cyanure d'hydrogène	1.3-butadieno 1.3-butadiene Buta-1.3 diène	Dimetileter Dimethyl ether Diméthyl éther	Dietileter Diethyleter Diéthyl éther		
		1.4-dioxano 1.4-dioxane 1.4-dioxane	Etiloglicol Ethyl glycol Ethyl glycol			
	Gas de carbón Coal gas (lighting gas) Gaz de houille	Etileno Ethylene Éthylène	Sulfuro de hidrógeno Hydrogen sulphide Sulfure d'hydrogène			
		Óxido de etileno Ethylene oxide Oxyde d'éthylène				
IIC Energía de ignición inferior a: Energy of ignition less than: Energie d'ignition inférieur á: 0.06 mJ	Hidrógeno Hydrogen Hydrogène	Acetileno Acetylene Acétylène			Disulfuro de carbono Carbon disulphide Disulfure de carbone	
	Gas de agua Water gas Gaz d'eau (CO+H2)				Nitrato de etilo Ethyl nitrate 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 acetileno 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 acetylene gases.

Le cuivre Beryllium 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'Acetylene, 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 Nitrate d'éthyle, encore que de tous ces gaz seul l'hydrogène est commun), 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.

**Copper or brass
tools are safe in explosive
environments.**

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.

**Les outils en cuivre ou en
laiton sont sûrs pour une
utilisation dans des
environnements explosifs.**

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-bronze ou en cuivre-beryllium, 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 - Beryllium pour des applications en zone de risque, jamais un outil en cuivre ou en laiton.

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 mas, 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 Petrochemicals Petrochimie	Fábrica cervecera Breweries Brasseries
Refinerías Refineries Raffineries	Industrias de procesamiento de alcohol Alcohol processing industries Fabrication d'alcool
Industria del Petróleo Oil Companies Sociétés pétrolières	Destilerías Distilleries Distilleries
Conductos de tubo de Gas y Petróleo Gas & oil pipe lines Conduits de gaz et de pétrole	Bomberos Fire-fighters Pompiers
Estaciones de servicio y energía Power Stations Stations de service et energie	Minas Mines Mines
Fabricación de pintura Paint Manufacturing Fabrication de peinture	Defensa Defence Defense
Fabricación de plástico Plastic manufacturing Fabrication de plastique	Fuerzas aéreas Air Forces Forces aériennes
Industria Farmacéutica Pharmaceutical Industry Industrie pharmaceutique	Marina Navy Marine
Industria Pirotécnica Fireworks Industry Industrie pyrotechnique	Fabricación de munición y armas Weapon & ammunition fabrication Fabrication de poudres et explosifs
Industria química Chemical Industry Industrie chimique	Industria aeroespacial Aerospace industry Industrie aérospatiale
Industria papelera Paper making Industries Industrie du papier	Industria del automóvil Automobile Industry Industrie automobile
Silos de harina y molinos Flour silos and mills 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 selecting 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 acetilina 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 ≥ 99,0 %

Dureza

241-311 Brinell

Resistencia a la tracción

800 N/mm²

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 acetilina 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 ≥ 99,0 %

Dureza

311- 408 Brinell

Resistencia a la tracción

1250 N/mm²

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 ≥ 99,0 % Balance

Hardness

241-311 Brinell

Tensile Strength-Break

800 N/mm²

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 ≥ 99,0 % Balance

Hardness

311- 408 Brinell

Tensile Strength-Break

1250 N/mm²

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

BAM/ZBF/001/25 1st version

Hereby it is confirmed by the BAM Certification Body, that the material

Aluminum-Bronze Alloy	
of the manufacturer EGA Master S.L. Zorrolleta 11, Jundiz Industrial Estate 01015 Vitoria Spain	
for impacts against	☐ steel ☒ concrete
with a maximal impact energy of	31 Nm
in potentially explosive atmospheres with the fuel gases	☒ of explosion groups I, IIA, IIB ☒ acetylene ☐ of explosion group IIC

meets the requirements of **BAM Standard operating procedure STAA-GAS-005 „StAA zur Schlagfunkenprüfung von Werkstoffpaarungen“** approved April 2023 and thus non-sparking tools made of this material are appropriate for use in potentially explosive atmospheres of zone 1 and/or Z1 (in accordance with the European Directive 1999/92/EC) for the fuel gases listed above, if the terms and conditions set out in the annex to this certificate are complied with.

The certification is based on certification contract **BAM-ZBF-0005-2024-EGA** dated 6th May 2024 and comprises according to standard DIN EN ISO/IEC 17065:2013 a design-type test with the manufacturer's declaration of conformity (BAM Certification system I).

The materials certified by BAM may be labelled with the certification mark "BAM Design-type tested" and/or "BAM Baumustergeprüft".

The certificate is valid until December 31st, 2028.

BAM test report 20017926 dated February 19th, 2021, and 25004504 I dated April 15th, 2025, as well as procedures no. BZS-GS/024/20, BZS-GS/014/24 and BZS-GS/023/24 are a constituent part of this certificate.

Bundesanstalt für Materialforschung und -prüfung (BAM)
Unter den Eichen 87, 12205 Berlin, **April 30th, 2025**

By order **30.04.2025**

Dr. J. Sunderkötter
BAM Certification Officer



By order

D. Grasse
BAM Assessor



Please check this certificate's validity in our Certification Register:
<https://netzwerke.bam.de/Netzwerke/Content/DE/Downloads/BzZ/Zertifizierungsregister.html>

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KWDZ05.P01 F01 /2.8_en July 2024

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

BAM/ZBF/002/25 1st version

Hereby it is confirmed by the BAM Certification Body, that the material

Beryllium-Copper Alloy	
of the manufacturer EGA Master S.L. Zorrolleta 11, Jundiz Industrial Estate 01015 Vitoria Spain	
for impacts against	☐ steel ☒ concrete
with a maximal impact energy of	31 Nm
in potentially explosive atmospheres with the fuel gases	☒ of explosion groups I, IIA, IIB ☒ acetylene ☒ of explosion group IIC

Explosion groups according to DIN EN ISO/IEC 80079-20-1:2020-09

meets the requirements of BAM Standard operating procedure STAA-GAS-005 „STAA zur Schlagfunkenprüfung von Werkstoffpaarungen“ approved April 2023 and thus non-sparking tools made of this material are appropriate for use in potentially explosive atmospheres of zone 1 and/or 21 (in accordance with the European Directive 1999/92/EC) for the fuel gases listed above, if the terms and conditions set out in the annex to this certificate are complied with.

The certification is based on certification contract **BAM-ZBF-0005-2024-EGA** dated 6th May 2024 and comprises according to standard DIN EN ISO/IEC 17065:2013 a design-type test with the manufacturer's declaration of conformity (BAM Certification system I).

The materials certified by BAM may be labelled with the certification mark "BAM Design-type tested" and/or "BAM Baumustergeprüft".

The certificate is valid until December 31st, 2028.

BAM test report 20017926 dated February 19th, 2021, and 25004504 II dated April 15th, 2025, as well as procedures no. BZ5-GS/024/20, BZ5-GS/014/24 and BZ5-GS/024/24 are a constituent part of this certificate.

Bundesanstalt für Materialforschung und -prüfung (BAM)
Unter den Eichen 87, 12205 Berlin, **April 30th, 2025**

By order	30.04.2025		By order
Dr. J. Sunderkötter			D. Grasse
BAM Certification Officer			BAM Assessor



Please check this certificate's validity in our Certification Register:
<https://netzwerke.bam.de/Netzwerke/Content/DE/Downloads/Bz5/Zertifizierungsregister.html>

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KWDZ05.P01 F01 /2.8_en July 2024

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.

■ ALICATES / PLIERS / PINCES / ZANGEN / PINZE / ALICATES / ПЛОСКОГУБЦЫ

■ UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALE / UNIVERSAIS / УНИВЕРСАЛЬНЫЕ

COD.	MAT.	COD.	MAT.	L (mm)	g
70100	Cu-Be	70530	Al-Bron	160	250
70101		70531		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)	g
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)	g
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)	g
70105	Cu-Be	70535	Al-Bron	160	250
76130		76131		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 / С ИЗГНУТЫМИ НОСАМИ

COD.	MAT.	COD.	MAT.	L (mm)	g
73148	Cu-Be	73149	Al-Bron	160	250
73146		73151		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)	g
70107	Cu-Be	70537	Al-Bron	160	250
76474		76475		200	370

BMAT | 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.	MAT.	COD.	MAT.	L (mm)	g
72094	Cu-Be	72095	Al-Bron	160	260
70108		70538		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)	
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)	
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)	
73903	Cu-Be	73904	Al-Bron	170	220

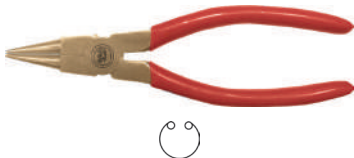
BMAT | Modelo registrado / Registered model / Modèle enregistré



■ **ALICATES CIRCLIPS / CIRCLIPS PLIERS / PINCES POUR CIRCLIPS / ZANGEN FÜR SICHERUNGSRINGE / PINZE PER ANELLI / ALICATES FREIOS / СЪЕМНИК КОЛЕЦ**

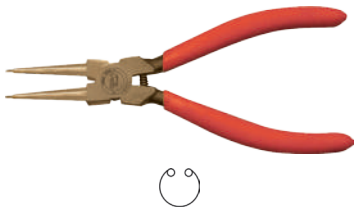
■ **INTERIOR RECTO / INTERNAL STRAIGHT / INTERIEUR DROIT / INNENSICHERUNGSRINGE, GERADE / DIRITTO PER INTERNI / INTERIOR DIREITO / ВНУТРЕННИЕ ПРЯМЫЕ**

COD.	MAT.	COD.	MAT.		L (mm)	
36434	Cu-Be	36435	Al-Bron	3-10	140	110
76741		76740		8-25		
72511		72510		10-25	200	250
72513		72512		19-60		
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.		L (mm)	
79969	Cu-Be	79968	Al-Bron	85-200	330	600



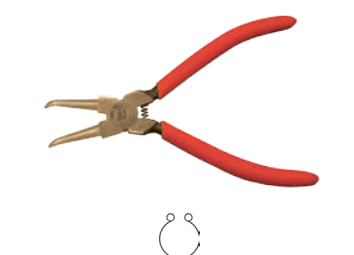
■ **EXTERIOR RECTO / EXTERNAL STRAIGHT / EXTERIEUR DROIT / AUSSENSICHERUNGSRINGE, GERADE / DIRITTA PER ESTERNI / EXTERIOR DIREITO / НАРУЖНЫЕ ПРЯМЫЕ**

COD.	MAT.	COD.	MAT.		L (mm)	
76746	Cu-Be	76745	Al-Bron	3-10	140	120
36436		36437		8-25		
72517		72516		10-25	200	265
72519		72518		19-60		
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.		L (mm)	
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 / УНИВЕРСАЛЬНЫЕ

COD.	MAT.	COD.	MAT.	L (mm)	g
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)	g
79128	Cu-Be	79129	Al-Bron	125	100



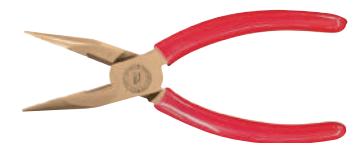
■ BOCA REDONDA / ROUND NOSE / BECS RONDS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУГЛОГУБЦЫ

COD.	MAT.	COD.	MAT.	L (mm)	g
79145	Cu-Be	79146	Al-Bron	130	100



■ TELEFONISTA / LONG NOSE / TÉLÉPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / С УДЛИННЕННЫМИ НОСАМИ

COD.	MAT.	COD.	MAT.	L (mm)	g
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 / С ИЗГНУТЫМИ НОСАМИ

COD.	MAT.	COD.	MAT.	L (mm)	g
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 / УДЛИННЕННЫЕ ТОНКИЕ

COD.	MAT.	COD.	MAT.	L (mm)	g
76128	Cu-Be	76129	Al-Bron	150	100



■ CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / SEITENSCHNEIDER / TAGLIO LATERALE / CORTE DIAGONAL / УДЛИННЕННЫЕ ТОНКИЕ

COD.	MAT.	COD.	MAT.	L (mm)	g
79228	Cu-Be	79229	Al-Bron	115	100



■ CORTE DIAGONAL TRIANGULAR / DIAGONAL CUTTING TRIANGULAR / COUPANTES DIAGONALE TRIANGULAIRE / SEITENSCHNEIDER / TAGLIO LATERALE TRIANGOLARE / CORTE DIAGONAL TRIANGULAR / БОКОРЕЗЫ ТРЕУГОЛЬНЫЕ

COD.	MAT.	COD.	MAT.	L (mm)	g
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



BMAT

■ 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
36804		36805		70	750	30	6800
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

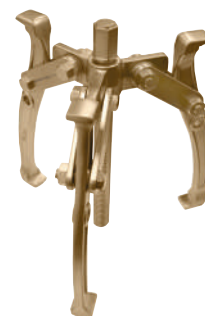
COD.	MAT.	COD.	MAT.	AF mm	L (mm)	L (inch)	g
35746	Cu-Be	35747	Al-Bron	20	150	6	140
35748		35749		25	200	8	270
35750		35751		30	250	10	460
35752		35753		35	300	12	710
35754		35755		48	375	15	1500



EXTRACTORES / GEAR PULLERS / EXTRACTEURS / ABZIEHERS / ESTRATTORI / EXTRACTORES / СЪЕМНИКИ

EXTRACTOR 3 GARRAS ARTICULADAS REVERSIBLES / 3 JAW REVERSIBLE GEAR PULLER / EXTRACTEUR 3 BRAS ARTICULÉS 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		40
70136		70550		6-8	95	
76871		76872		7-8		50
70137		70551		7-9		55
70138		70552		8-9	100	60
70139		70553		8-10		65
70140		70554		9-10	105	70
70141		70555		9-11	110	75
70142		70556		10-11	115	85
70143		70557		10-12		
76873		76874		10-13	120	95
70144		70558		10-14		115
75244		75245		11-13	125	120
70145		70559		11-14		125
70146		70560		12-13		135
70147		70561		12-14	130	145
76875		76876		13-14		
73648		73649		13-15	135	
36550		36551		13-17		165
70148		70562		14-15	145	
76877		76878		14-16	150	170
70149		70563		14-17		180
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		
76879		76880		18-20	180	280
74625		74626		19-20		
70155		70569		19-22	185	330
70156		70570		19-24		360
70157		70571		20-22	195	370
74627		74628		21-22		390
70158		70572		21-23	200	410
75246		75247		22-23		
70159		70573		22-24	210	440
70160		70574		22-27		470
76090		76091		23-25		
76881		76882		23-26	220	500
75248		75249		24-25		
70161		70575		24-26		
70162		70576		24-27	230	
72923		72922		24-30		
70163		70577		25-28		550
76092		76093		26-27	240	
74831		74832		26-29		
76094		76095		27-28	250	650

COD.	MAT.	COD.	MAT.	AF mm	L (mm)	g
70164		70578		27-29		
75250		71821		27-30	250	650
75251		75252		28-30		
72925		72924		27-32		700
75253		75254		30-31		
70165		70579		30-32		750
73007		73006		30-34		
72927		72926		30-36	260	900
75255		75256		32-34		1000
75257		75258		32-35		1100
70166		70580		32-36		1150
75259		75260		33-35		1300
70167		70581		34-36	300	
75261	Cu-Be	75262	Al-Bron	35-36		1500
75263		75264		36-38	320	
73337		73336		36-41	330	
73297		36443		38-40	340	1600
75265		75266		38-42		
70168		70582		41-46	350	1800
72921		72919		46-50	370	2100
73390		73389		50-52	380	
76096		76097		50-55	385	2500
76885		76886		50-60	400	3000
70169		70583		50-62		3300
70588		70584		55-60	410	
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 béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronce / Аллюминий Бронза

INCH



COD.	MAT.	COD.	MAT.		L (mm)	
36218		36219		3/16-1/4		22
70592		70637		7/32-1/4	90	
70593		70638		1/4-9/32		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		165
70606		70651		11/16-25/32	170	180
70607		70652		11/16-7/8		200
76887		76888		3/4-25/32	180	220
70608		70653		3/4-13/16		
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	430
70619		70664		1-1.1/8		450
76889		76890		1-1.5/16		
70620		70665		1.1/16-1.1/8		500
70621		70666		1.1/16-1.1/4	250	
74839		74840		1.1/8-1.3/16		550
70622		70667		1.1/8-1.5/16	260	
75281		75282		1.3/16-1.1/4		600
70623		70668		1.1/16-1.7/16		
70624		70669		1.1/8-1.1/2	270	700
75283		75284		1.1/4-1.5/16		
70625		70670		1.1/4-1.3/8		850
70626		70671		1.1/4-1.7/16	290	
75285		75286		1.5/16-1.3/8		900
70627		70672		1.5/16-1.1/2		1000
75287		75288		1.3/8-1.7/16	320	1050
70628		70673		1.3/8-1.1/2		1250
70629		70674		1.7/16-1.5/8	330	1300
75289		75290		1.1/2-1.9/16		1500
70630		70675		1.1/2-1.11/16	340	

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		3100
75295		75296		2.3/16-2.3/8	410	3300
70636		70681		2.1/4-2.3/8		3700
75297		75298		2.3/8-2.9/16	430	

■ 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		420
70191		70703		27	280	480
70192		70704		28	290	500
70193		70705		29	300	650
70194		70706		30	310	700
70195	Cu-Be	70707	Al-Bron	31	320	750
70196		70708		32	330	
72700		71786		33		800
72701		71787		34		850
70197		70709		35	340	
70198		70710		36		950
79447		79449		37	350	
70199		70711		38		1100
79473		79474		39	360	1000
70200		70712		40	350	1100
70201		70713		41	370	
70202		70714		42		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		1700
75279		75364		49	420	
70204		70716		50		1750
73618		73619		52	430	2100
70205		70717		55		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		70722		80		4550
70211	Cu-Be	70723	Al-Bron	85	500	5350
70212		70724		90		5800

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

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		72936		1.3/16		550
70741	Cu-Be	70767	Al-Bron	1.1/4	320	700
70742		70768		1.5/16		1000
70743		70769		1.3/8	350	
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	480	3300
76463		76464		2.15/16		4000
72707		36442		3	510	4100
36387		36389		3.1/8	520	5000

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

■ MM



COD.	MAT.	COD.	MAT.	AF mm	L (mm)	g
72683	Cu-Be	74102	Al-Bron	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		74188		17		
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

■ INCH



COD.	MAT.	COD.	MAT.	AF inch	L (mm)	g
37317	Cu-Be	37318	Al-Bron	1/8	140	70
37319		37320		3/16		
37321		37322		7/32		
37323		37324		1/4	160	85
37325		37326		5/16		
37327		37328		11/32		
37329		37330		3/8	170	105
37331		37332		7/16		
37333		37334		1/2		
37335		37336		9/16	190	160
37337		37338		19/32		
37339		37340		5/8		
37341		37342		11/16	220	230
37343		37344		3/4		
37345		37346		7/8		
37347		37348		1	290	490

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

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		370
70227		70791		16-17	220	400
70228		70792		16-18		420
70229		70793		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		1100
73339		73338		24-27	340	1150
70238		70802		24-30		1200
70239		70803		25-28		1250
36490		36491		26-28		1300
74833		74834		26-29		1350
75469		75470		26-32	250	1400
70240		70804		27-29	340	1450
70241		70805		27-30		1500
70242		70806		27-32	360	1550

COD.	MAT.	COD.	MAT.	AF mm	L (mm)	g
75342		75343		29-32	360	750
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		2050
75346		75347		35-41		2200
75348		75349		38-40	455	2400
70246		70810		36-41		2450
75350		75351		38-42		2500
70247		70811		41-46	470	2900
72251		72250		46-50	490	3900
73392		73391		50-52	510	4000
75352		75353		50-55		4500
75354		75355		50-60	535	5000
72253		72252		55-60		
75356		75357		60-70	540	
72255		72254		65-70		
76893		76894		70-75	550	
72257		72256		75-80	700	

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

INCH



COD.	MAT.	COD.	MAT.	AP inch	L (mm)	g
70812	Cu-Be	70841	Al-Bron	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	
75365		75366		11/16-3/4		230
70819		70848		11/16-25/32		240
70820		70849		3/4-13/16	280	290
70821		70850		13/16-7/8		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	340	
70829		70858		1-1.1/8		550
70830		70859		1.1/16-1.1/8		
70831		70860		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	380	800
75367		75368		1.3/16-1.1/4		
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	
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

■ **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.		9
69342		300
COD. PCS.		
61727	Aerospacial / <i>Aerospatial</i>	
38092	INOX SS 420	
73062	1000V	
70172	Cu-Be	
70684	Al-Bron	
71669	Titanio / <i>Titanium</i>	



8



■ **SET**

■ **LLAVES FIJAS / OPEN-END WRENCHES / CLÉS À FOURCHE / GABELSCHLÜSSEL / CHIAVI FISSE / CHAVES DUAS BOCAS / РОЖКОВЫЕ КЛЮЧИ**

■ **MM**

COD.	MAT.	PCS.		COD. PCS.	(mm)
76400	Cu-Be	6	90052	70135, 70138, 70142, 70146, 70148, 70150	6-7, 8-9, 10-11, 12-13, 14-15, 16-17
76402		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
76404		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
76406		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
76408				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)
76401	Al-Bron	6	90052	70549, 70552, 70556, 70560, 70562, 70564	6-7, 8-9, 10-11, 12-13, 14-15, 16-17
76403		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
76405		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
76407		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
76409				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)
76410	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
76412		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
76414		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
76416		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				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				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



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 POLYGAONALES CONTRE-COUDÉES / RINGSCHLÜSSEL / CHIAVI POLIGONALI / CHAVES LUNETA / КЛЮЧИ ДВОЙНАЯ ИЗОГНУТАЯ 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, 1-1/8, 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, 1-1/8, 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, 1-1/8, 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, 1-1/8, 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 / LUNETE DIREITA / ДВОЙНАЯ ИЗОГНУТАЯ ПЛОСКАЯ ЗВЕЗДОЧКА

MM



COD.	MAT.	COD.	MAT.		L (mm)	
76817	Cu-Be	76818	Al-Bron	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	140	55
75418		75419		10-12	145	70
73964		73965		12-14	155	85
77130		77131		13-15	165	100
73966		73967		14-17	170	115
73968		73969		16-18	185	130
76084		76085		17-19	185	130
73970		73971		18-19	200	180
73972		73973		17-22	200	180
73974		73975		19-21	200	180
75420		75421		19-22	220	240
73976		73977		20-22	220	240
36554		36555		21-22	255	320
73978		73979		21-23	265	360
73980		73981		22-24	265	360
73982		73983		24-27	280	390
73984		73985		25-28	295	470
77134		77135		26-28	330	600
73986		73987		27-30	330	600
73988		73989		27-32	365	900
73990		73991		30-32	365	900
77136		77137		30-36	365	900
74771		74772		32-36	365	900
74773		74774		36-41	365	900

INCH



COD.	MAT.	COD.	MAT.		L (mm)	
76781	Cu-Be	76782	Al-Bron	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		76800		3/4-7/8	300	550
76801		76802		13/16-15/16	310	650
76803		76804		7/8-15/16	340	750
76805		76806		15/16-1.1/16	340	750
76807		76808		1-1/8	360	1000
76809		76810		1.1/16-1.3/16	360	1000
77142		77143		1.1/8-1.5/16	380	1350
76811		76812		1.3/16-1.1/4	380	1350
77144		77145		1.1/4-1.3/8	380	1350
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

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

■ LLAVE DE CARRACA / RATCHET SPANNER / CLÉ À CLIQUET / KNARRENSCHLÜSSEL / CHIAVE A CRICCO / CHAVE RAPIDA ABERTA COM ROQUETE / ТРЕЩЕТКА

■ MM



COD.	MAT.	COD.	MAT.	AF mm	L (mm)	g
70870	Cu-Be	70887	Al-Bron	9	150	120
70871		70888		11		
70872		70889		13		
70873		70890		14		
70874		70891		17	210	210
70875		70892		19		
70876		70893		22	260	350
70877		70894		24		
70878		70895		27	310	550
70879		70896		30		
70880		70897		32	400	900
70881		70898		36		
70882		70899		41	470	1500
70883		70900		46		
70884		70901		50	550	2700
70885		70902		55		
70886		70903		60	650	3800

■ INCH



COD.	MAT.	COD.	MAT.	AF inch	L (mm)	g
36296	Cu-Be	36297	Al-Bron	5/16	150	100
70904		70920		3/8		160
36298		36299		7/16		100
70905		70921		1/2	155	190
70906		70922		9/16		
70907		70923		11/16	200	200
70908		70924		3/4		
70909		70925		7/8	220	210
70910		70926		1		
70911		70927		1.1/16	240	220
70912		70928		1.3/16		
70913		70929		1.1/4	280	230
70914		70930		1.7/16		
70915		70931		1.5/8	290	260
70916		70932		1.13/16		
70917		70933		2	360	450
70918		70934		2.3/16		
70919		70935		2.3/8	440	650

LLAVE ESTRELLA ACODADA PARA ESTRUCTURA / OFFSET RING STRUCTURAL WRENCH / CLÉ POLYгонаLE CONTRE-COUDÉE POUR STRUCTURE MÉTALLIQUE / RINGSCHLÜSSEL
GEKRÖPFT MIT DORN / CHIAVE POLIGONALE PER PONTEGGI / CHAVE LUNETA INCLINADA PARA ESTRUTURA / КЛЮЧ НАКИДНОЙ ОДНОСТОРОННИЙ ВИЛКООБРАЗНЫЙ
СТРОИТЕЛЬНЫЙ

■ MM



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		
77438		77439		20	270	330
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

■ INCH



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

**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 ВИЛКООБРАЗНЫЙ СТРОИТЕЛЬНЫЙ**

■ MM

COD.	MAT.	COD.	MAT.	AF mm	L (mm)	g
75450	Cu-Be	75451	Al-Bron	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		650
77502		77503		28		
77504		77505		29		750
75460		75461		30	400	800
73940		73941		32		850
77506		77507		33		
77508		77509		34		900
77510		77511		35	430	
73942		73943		36		
77512		77513		37		1200
77514		77515		38		
73944		73945		41	470	1900
77516		77517		42		
73946		73947		46	500	2800
77518		77519		47		
73948		73949		50	550	3700



■ INCH

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	g
77520	Cu-Be	77521	Al-Bron	11/16	320	200
77522		77523		3/4		300
77524		77525		25/32	350	
77526		77527		13/16		410
77528		77529		7/8		450
77530		77531		15/16	370	600
77532		77533		1.1/16		
77534		77535		1.1/8		
77536		77537		1.3/16	400	750
77538		77539		1.1/4		
77540		77541		1.5/16		
77542		77543		1.3/8	430	900
77544		77545		1.7/16		
77546		77547		1.1/2		
77548		77549		1.9/16	470	1200
77550		77551		1.5/8		
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



LLAVE DE CARRACA PARA ESTRUCTURA / RATCHET STRUCTURAL WRENCH / CLÉ À CLIQUET POUR STRUCTURE / STAHLBAUKNARRE / CHIAVE A CRICCO PER COSTRUZIONE / CHAVE DE ROQUETE PARA ESTRUCTURA / 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 ESTRUCTURA METÁLICA / 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		620
36742		36753		22-24		
35792		35793		24-27	350	730
36743		36754		24-30	370	800
36744		36755		27-32		900
35794		35795		30-32		
36745		36756		32-36		1150
36746		36757		36-41	390	1500

BE SAFE...BE EFFICIENT

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	360
77596		77597		25-28	265	
77598		77599		27-30	280	
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

■ 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		
77304		77305		77	375	3,5
71007		71030		80	395	4
77306		77307		82		
71008		71031		85	405	5
77308		77309		88	438	
71009		71032		90		
77310		77311		94		6,5
71010		71033		95	445	
37057		37058		98	480	
71011		71034		100		10
71012		71035		105	500	
74849		74850		110	510	
74880		74881		115	520	
77312		77313		120	530	12

COD.	MAT.	COD.	MAT.	AF mm	L (mm)	Kg
74761		74762		125	545	12
77314		77315		130	560	
77316		77317		135	575	18
77318		77319		140	585	
77320		77321		145	630	
77322	Cu-Be	77323	Al-Bron	150	640	24
77324		77325		155	650	
36470		36471		160		37
36472		36473		165		
36474		36475		170	700	43
36476		36477		175		
36478		36479		180		44

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

INCH



COD.	MAT.	COD.	MAT.	AF ¹ / ₁₆ inch	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		0,4
71040		71059		15/16	150	
72106		72114		1		0,6
71041		71060		1.1/16	170	
72107		72115		1.1/8		
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	1,6
77330		77331		1.11/16		
77332		77333		1.3/4		
71045		71064		1.13/16	245	1,8
72110		72118		1.7/8		
71046		71065		2	270	2,1
77334		77335		2.1/16		
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	340	
77342		77343		2.5/8		4,5
74853		74854		2.3/4	365	
77344		77345		2.13/16		
77346		77347		2.15/16	375	7
71050		71069		3		
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	480	11
71053		71072		4		12
77356		77357		4.1/8	500	
71054		71073		4.5/16	510	13
77358		77359		4.9/16	520	
77360		77361		4.11/16	530	
77362		77363		4.15/16	560	16
77364		77365		5.3/8	575	
77366		77367		6	640	23

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ANTICHISPA
NON-SPARKING
ANTIDÉFLAGRANT
FUNKENFREI
ANTISCINTILLA
ANTI-DEFLAGRANTE
ИСКРОБЕЗОПАСНЫЙ



■ ESTRELLA DE GOLPE / SLOGGING RING / POLYGONALE À FRAPPER / SCHLAG RINGSCHLÜSSEL / POLIGONALE AD IMPULSO / LUNETAS DE IMPACTO / УДАРНЫЙ КЛЮЧ ЗВЕЗДОЧКА

■ 6 PT.

■ MM

■ INCH



COD.	MAT.	COD.	MAT.	AP mm	L (mm)	Kg
37100		37101		17	150	0,2
37102		37103		19		
37104		37105		22	170	
37106		37107		24		0,3
37108		37109		27	180	
37110		37111		30	190	0,4
37112		37113		32		
37114		37115		36	200	0,6
37116		37117		41	230	0,7
37118		37119		46	240	
37120		37121		50	250	1,2
37122		37123		55	270	1,4
37124	Cu-Be	37125	Al-Bron	60	280	1,6
37126		37127		65	290	2,0
37128		37129		70	320	2,7
37130		37131		75	330	2,8
37132		37133		80	350	3,5
37134		37135		85		
37136		37137		90	380	4,3
37138		37139		100	410	6,4
37140		37141		110	440	8,5
37142		37143		120	480	12
37144		37145		130	500	14
37146		37147		140		18
37148		37149		150	550	20
37150		37151		160	600	26

COD.	MAT.	COD.	MAT.	AP inch	L (mm)	Kg
76006		76007		5/8	150	0,2
37160		37161		7/8	170	
76008		76009		1	180	0,3
37162		37163		1.1/16		
76012		76013		1.1/8	190	0,4
76014		76015		1.1/4		
76016		76017		1.3/8		
37164		37165		1.7/16	200	0,6
37166		37167		1.1/2		
76018		76019		1.5/8	230	0,7
37168		37169		1.3/4	240	1,2
76024	Cu-Be	76025	Al-Bron	1.7/8		
37051		37053		2	250	
76026		76027		2.3/16	270	1,4
76028		76029		2.1/4	280	1,6
76030		76031		2.3/8		
76033		76034		2.1/2	290	2,0
76035		76036		2.9/16		
76037		76038		2.3/4		
37170		37171		2.7/8	320	2,7
37052		37054		2.15/16		
72718		37172		3.1/2	380	4,3
72722		37173		3.7/8	410	6,4

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

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ANTICHISPA
NON-SPARKING
ANTIDÉFLAGRANT
FUNKENFREI
ANTISCINTILLA
ANTI-DEFLAGRANTE
ИСКРОБЕЗОПАСНЫЙ



■ 12 PT.

■ MM



COD.	MAT.	COD.	MAT.	AF mm	L (mm)	Kg
35588		35589		16	147	
70297		71080		17		0,1
35652		35653		18	150	
70298		71081		19		
72231		72230		20		
77150		77151		21		
70299		71082		22	170	0,2
77564		77565		23		
70300		71083		24		
72631		72677		25		
71906		72951		26	180	0,3
70301		71084		27		
72633		72679		28		
72634		72680		29		
70302		71085		30		
72635		72681		31	190	0,4
70303		71086		32		
72609		72619		33		
73326		73331		34		
72610		72620		35	200	0,5
70304		71087		36		
72611		72621		37		
71834		71835		38		
72636		72682		39		
73327		73332		40	225	0,8
70305		71088		41		
73328		73333		42		
72638		72684		43		
73329		73334		44		
72640		72686		45	235	0,9
70306		71089		46		
72229		72228		47		
73330		73335		48		
72642		72688		49	245	1,1
70307		71090		50		
72643		72689		51		
70308		71091		52		
72644		72690		53		
72613		72623		54	265	1,4
70309		71092		55		
73470		73394		56		
72647		72693		57		
73471		73395		58		
72648		72694		59		1,7
70310		71093		60	275	
72650		72696		61		
72651		72697		62		
72652		72698		63		
72653		72699		64		2
70311		71094		65	290	
72655		73340		66		
72615		72625		67		2,5

COD.	MAT.	COD.	MAT.	AF mm	L (mm)	Kg
72656		72702		68		
72657		72703		69		2,5
70312		71095		70	320	
72616		72626		71		
72658		72704		72		
72659		72705		73		
72660		72706		74		2,7
70313		71096		75	325	
72662		72708		76		
72617		72627		77		
72663		72709		78		
72664		72710		79		3
70314		71097		80	345	
72665		72711		81		
72666		72712		82		
72667		72713		83		
72668		72714		84		3,3
70315		71098		85	350	
72670		72716		86		
72671		72717		87		
72672		73342		88		3,8
72673		72719		89		
70316		71099		90	375	
72675		72721		92		
72618		72628		94		4,5
70317		71100		95	395	
72661		72669		97	445	
73345		73344		98	405	5,5
70318		71101		100		
71074		71102		105	410	6,5
72645		72646		108		7
71075		71103		110	440	7,5
71076		71104		115		9
71077		71105		120	480	10
71078		71106		125	490	11
71079		71107		130	505	
72084		72089		135		12
39098		39099		137	530	
72085		72090		140	550	13
72086		72091		145		
72087		72092		150	565	14
72088		72093		155		
72212		72210		160	595	16
36482		36483		165		26
36484		36485		170	650	25
36486		36487		175		28
36488		36489		180		27

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

INCH



COD.	MAT.	COD.	MAT.	L (mm)	Kg	AF inch
74763		74764		125		1/2
72121		72127				5/8
71108		71133		145	0,1	11/16
71109		71134				3/4
72674		72676				13/16
71110		71135		170	0,2	7/8
75400		72303				15/16
71111		71136		180	0,3	1
71112		71137				1.1/16
72122		72128				1.1/8
71113		71138		190	0,4	1.3/16
71114		71139				1.1/4
75397		71789				1.5/16
72123		72129				1.3/8
71115		71140		200	0,5	1.13/32
72301		71791				1.7/16
72124		72130				1.1/2
75398		71793		225	0,8	1.9/16
71116		71141				1.5/8
75406		71794				1.11/16
72125		72131		235	0,9	1.3/4
71117		71142				1.13/16
72126		72132				1.7/8
75399		71797		245	1,2	1.15/16
71118		71143				2
75401	Cu-Be	71798	Al-Bron			2.1/16
75402		71799				2.1/8
72954		71800		265	1,4	2.3/16
75403		75404				2.13/64
71119		71144				2.1/4
71120		71145				2.5/16
71121		71146		275	1,7	2.3/8
75405		71801				2.7/16
71122		71147		290	2	2.1/2
71123		71148				2.9/16
71124		71149				2.5/8
71125		71150		320	2,5	2.3/4
77258		77259				2.13/16
36480		36481				2.7/8
71126		71151		325	2,7	2.15/16
71127		71152				3
71128		71153				3.1/16
71129		71154		345	3	3.1/8
77260		77261				3.1/4
71130		71155		350	3,3	3.3/8
76850		76851				3.1/2
71131		71156		375	3,8	3.9/16
76849		76852				3.5/8
71132		71157		395	4	3.3/4
74335		75407				3.7/8
75408		75409		405	5,5	3.15/16
77262		77263				4

COD.	MAT.	COD.	MAT.	L (mm)	Kg	AF inch
75410		75411		410	6,5	4.1/8
74331		74332			8,5	4.1/4
77264		77265				4.5/16
75412		75413		435	9	4.1/2
77266		77267				4.9/16
75414		75415				4.5/8
75416	Cu-Be	75417	Al-Bron	475	10	4.11/16
74333		74334				4.7/8
77268		77269		490	11	4.15/16
77270		77271		505		5.1/8
77272		77273		530	12	5.3/8
77274		77275				5.11/16
77276		77277		565	14	6

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

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	220	500
75467		75468		24		
74122		74123		27	240	650
74124		74125		30	270	900
74126		74127		32		
36395		36411		34	280	1050
74128		74129		36		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		6200
73607		73608		90		
73609		73610		95	440	7000
73611		73612		100		
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	240	650
76823		76824		1.3/16		
73655		73656		1.1/4	270	900
73657		73658		1.7/16		
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	400	3200
73677		73678		2.3/4		
73679		73680		2.7/8	420	4200
73681		73682		3		

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.	MAT.	COD.	MAT.	AF mm	L (mm)	g
74137	Cu-Be	74138	Al-Bron	24	160	300
74139		74140		27	170	420
74141		74142		30	180	500
74143		74144		32	190	520
74145		74146		36	210	800
74147		74148		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 béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий 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 mm	L (mm)	g
73993		73994		8	100	25
73995		73996		10		35
76010		76011		11	110	37
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		74028		38	300	850
74029		74030		41	310	950
77158		77159		42		
74031		74032		45	320	1200
74033		74034		46	330	1250
77160		77161		47		
74035		74036		48	340	1400
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	4400
77178		77179		88	600	4450
77180		77181		90		
77182		77183		94	650	5500
77184		77185		95		



INCH

COD.	MAT.	COD.	MAT.	AF ^{inch}	L (mm)	g
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	Cu-Be	74104	Al-Bron	17	150	130
74105		74106		19	170	170
74107		74108		21	185	210
74109		74110		22	190	220
74111		74112		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 / POLIGONALE UNA BOCCA CURVA / CHAVE LUNETA UMA BOCA CURVA / КЛЮЧ ИЗОГНУТАЯ ОДИНАРНАЯ ЗВЕЗДОЧКА

MM

COD.	MAT.	COD.	MAT.	AF mm	L (mm)	g
74056	Cu-Be	74057	Al-Bron	10	120	65
74058		74059		12	160	90
74060		74061		14	150	95
74062		74063		16	175	150
74064		74065		17		
74066		74067		19		
74068		74069		22	200	220
74070		74071		24		
74072		74073		27		
74074		74075		30	250	550
74076		74077		32		
74078		74079		34	290	600
74080		74081		36		
74082		74083		38	300	800
74084		74085		41		
74086		74087		46	340	1000
74088		74089		50		
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.	AF mm	L (mm)	g
74162	Cu-Be	74163	Al-Bron	6	110	60
74164		74165		8	120	75
74166		74167		9	140	90
74168		74169		10	160	100
74170		74171		11	190	120
74172		74173		12	200	170
74174		74175		13	250	180
74176		74177		14	300	270
74178		74179		16	350	300
74180		74181		17	400	380
74182		74183		19	450	700
74184		74185		22	500	950
74186		74187		24		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.	AF inch	L (mm)	g
74189	Cu-Be	74190	Al-Bron	3/8	155	180



■ CABEZA FIJA / CROW FOOT OPEN END / EMBOUT À FOURCHE / HEBESTANGE / TESTA FISSA / CABEÇA FIXA / РОКОВАЯ НАСАДКА ПОД КВАДРАТ

■ 1/4"

■ INCH

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	AF inch	g
79971	Cu-Be	79972	Al-Bron	1/4	27	1/4	20
79973		79974		5/16	29		25



■ 3/8"

■ MM

COD.	MAT.	COD.	MAT.	AF mm	L (mm)	AF inch	g
74818	Cu-Be	74819	Al-Bron	12	34	3/8	50
37301		37302		13	36		
72524		72525		14	35		



■ INCH

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	AF inch	g
36248	Cu-Be	36249	Al-Bron	1/4	30	3/8	50
35728		35729		3/8			
74814		74815		7/16	35		
74816		74817		1/2			
72541		72542		9/16			
72543		72544		5/8	37		
72545		72546		11/16	38		
36240		36241		3/4	40		55
72547		72548		7/8	43		



Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Алюминий Бронза

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	AF inch	g
36242	Cu-Be	36243	Al-Bron	1	45	3/8	60
35862		77781		1.1/16	50		75
72549		72550		1.1/8			
72551		72552		1.1/4			
78985		78986		1.5/16	55		90
72553		72554		1.3/8			
72555		72556		1.1/2	60		125
36246		36247		1.5/8	65		140
72557		72558		1.11/16			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
37303	Cu-Be	37304	Al-Bron	12	40	1/2	55
72565		72566		14			
72567		72568		16	45		60
72569		72570		17			
72571		72572		19			100
72573		72574		20	50		105
72575		72576		22			
36336		36337		24	55		125
72577		72578		25			
37305		37306		26			130
72579		72580		27	60		135
72581		72582		28			
36338		36339		30	63		215

■ INCH

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	AF inch	g
36727	Cu-Be	36728	Al-Bron	11/16	41	1/2	70



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
36330		36331		22	180	460
73688		73689		24	180	480
73472		73396		27	190	500
70957		70982		30	200	600
70958		70983		32	235	800
77368		77369		33		900
70959		70984		34	240	850
70960		70985		35		900
70961		70986		36		900
70962		70987		37	245	1000
70963		70988		38	255	1000
70964		70989		41	265	1100
70965		70990		42		
70966		70991		46		1500
70967		70992		47	280	1550
70968		70993		50		1700
70969		70994		52	290	1750
70970		70995		54		1800
70971		70996		55	300	1850
70972		70997		56	310	2100
70973		70998		58	340	2450
70974		70999		60		2950
70975		71000		63	350	3200
70976		71001		65		3400
70977		71002		67	360	3550
70978		71003		70		3900
70979		71004		71	370	4100
70980		71005		75		4350
70981		71006		77	380	4600
77370		77371		80	390	5200
77372		77373		82	400	5400
77374		77375		85	420	6000

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		
77404		77405		2.1/8		
77406		77407		2.3/16	300	1700
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	Cu-Be	36368	Al-Bron	22	200	410
36351		36369		24	230	460
36352		36370		27	260	540
36353		36371		30	280	660
36354		36372		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	Cu-Be	36377	Al-Bron	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		36381		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



EXTENSIÓN PARA LLAVE ESTRELLA ACODADA Y LLAVE FIJA / EXTENSION FOR OFFSET RING SPANNER AND OPEN-END WRENCHES / RALLONGE POUR CLÉS POLYGONALE CONTRE-BOUÉE À FOURCHE / VERLÄNGERUNG FÜR RINGSCHLÜSSEL / ESTENSIONE PER CHIAVE POLIGONALE ANGOLATA E CHIAVE FISSA / EXTENSÃO PARA CHAVE LUNETA E CHAVE DE BOCA / УДЛИНИТЕЛЬ ДЛЯ КЛЮЧА ИЗОГНУТАЯ ЗВЕЗДОЧКА

COD.	MAT.	AF mm	AF inch	L (mm)	O.D. mm	g
72612	Latón / Brass / Laiton	22-30	1.3/16	460	19	800
72605		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 / EINMAULSCHLÜSSEL / FISSE SEMPLICE / FIXA DE UMA BOCA / РОЖКОВЫЙ КЛЮЧ

■ MM



COD.	MAT.	COD.	MAT.	AP mm	L (mm)	g
75385		75386		5	75	30
70259		70936		6	85	40
70260		70937		7	90	
70261		70938		8	100	
70262		70939		9	105	
70263		70940		10	110	
70264		70941		11	120	
72939		71807		12	125	50
72940		71808		13	130	
70265		70942		14	135	
72941		71809		15	145	
72942		71810		16	150	
70266		70943		17	155	
72943		71811		18	165	70
70267		70944		19	170	85
72944		71812		20	180	100
72945		71813		21	190	150
70268		70945		22	195	
72946		71814		23	210	200
70269		70946		24	220	
72947		71815		25	230	250
72948		71816		26	240	270
70270		70947		27	250	
72949		71817		28	260	300
72950		71818		29	270	
70271	Cu-Be	70948	Al-Bron	30	290	400
72955		72911		31	300	
70272		70949		32	310	490
75387		75388		34	320	500
70273		70950		36	340	550
74403		74404		37	350	900
75389		75390		38	370	1200
74344		74345		39	400	1400
73300		73305		40	420	1800
70274		70951		41	450	2100
74346		73306		42	470	2500
73302		73307		44	500	3000
75391		75392		45	550	3200
70275		70952		46		
73303		73308		48		
70276		70953		50		
73304		73309		52		
77000		77001		54		
70277		70954		55		
77002		77003		56		
77004		77005		58		
70278		70955		60		
77006		77007		63		
70279		70956		65		
77008		77009		67		
75393		75394		70		

COD.	MAT.	COD.	MAT.	AP mm	L (mm)	g
77010		77011		71	550	3400
75395		75396		75		3500
77012		77013		77		4000
77014		77015		80		5000
77016		77017		82		5500
77018	Cu-Be	77019	Al-Bron	85	600	5500
77020		77021		88		5800
77022		77023		90		5900
77024		77025		94		
77026		77027		95		
77028		77029		100		6000

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronce / Аллюминий Бронза

INCH



COD.	MAT.	COD.	MAT.		L (mm)	
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		
77062		77063		1.1/16	225	310
77064		77065		1.1/8		
77066		77067		1.3/16	255	420
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		1200
77088		77089		1.7/8		
77090		77091		2	375	1450
77092		77093		2.1/16		
77094		77095		2.1/8		
76751		76752		2.3/16	400	1800
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

FUJA 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 ^{mm}	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	210	250
73919		73920		24	230	370
75481		75482		26	250	470
73921		73922		27	270	550
75483	Cu-Be	75484	Al-Bron	28	280	700
75485		75486		29	290	800
73923		73924		30	310	1000
73925		73926		32	330	1300
73927		73928		34	350	1500
73929		73930		36	370	2000
73931		73932		41		
73933		73934		46		
73935		73936		50		
73937		73938		55		



INCH

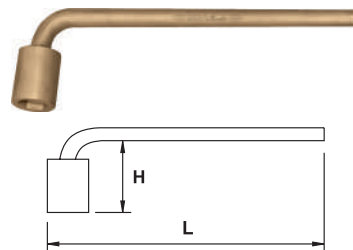
COD.	MAT.	COD.	MAT.	AF ^{inch}	L (mm)	g
36285		36290		1/4	90	50
36286		36291		5/16	100	80
36287		36292		1/2	120	120
36510		36511		9/16	130	170
36288		36293		5/8	150	240
36512		36513		3/4	170	245
36514		36515		7/8	190	365
36516		36517		15/16	210	470
36518		36519		1	230	565
36520		36521		1.1/16	250	690
36289	Cu-Be	36294	Al-Bron	1.1/8	270	815
36522		36523		1.3/16	280	1050
36524		36525		1.1/4	310	1280
36526		36527		1.3/8	330	1550
36528		36529		1.7/16	350	2050
36530		36531		1.1/2		
36532		36533		1.5/8		
36534		36535		1.3/4		
36536		36537		1.13/16		
36538		36539		2		
36540		36541		2.1/8		



■ DE PIPA / ANGLED SOCKET / CLÉS À PIPE / PFEIFENSCHLÜSSEL / CHIAVI A PIPA / DE CACHIMBO / ГОЛОВКА С ИЗОГНУТОЙ РУКОЯТКОЙ

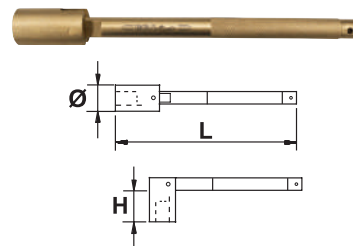
■ MM

COD.	MAT.	COD.	MAT.	AP mm	L (mm)	H (mm)	g
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		190
70419		71363		11	190	39	210
73313		73320		12	210	42	
73314		73321		13	240	45	240
70420		71364		14			290
73315		73322		15	250	48	330
73316		73323		16		50	450
70421		71365		17	260		500
75493		75494		18			
70422		71366		19		55	550
75495		75496		20	270		
75497		75498		21			700
70423		71367		22	280	60	750
75499		75500		23			
70424		71368		24		65	800
75501		75502		25			
75503		75504		26	290		
70425		71369		27		70	850
75505		75506		28			
75507		75508		29	300	75	950
73317		73324		30			
73318		73325		32	310	80	
75509	Cu-Be	75510	Al-Bron	33	320		1100
75511		75512		34			
75513		75514		35		85	
72916		72914		36	330		1200
75515		75516		37			
75517		75518		38			
72917		72915		41	350	90	1300
75519		75520		42			
75521		75522		46			
75523		75524		47	360		1700
75525		75526		50	370		2000
77610		77611		52		95	
77612		77613		54			2300
75527		75528		55			
77614		77615		56	380		
77616		77617		58			2600
75529		75530		60		100	
77618		77619		63			2700
75531		75532		65			
77620		77621		67		105	3000
75533		75534		70			
77622		77623		71	390		4100
77624		77625		75		110	4400
77626		77627		77			4600
77628		77629		80			4800
77630		77631		82	430	120	6800



SCAFFOLD

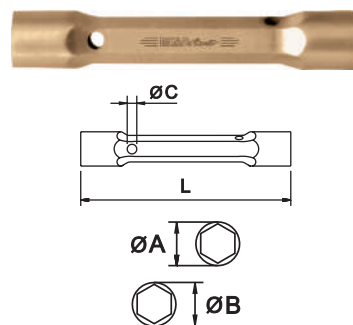
COD.	MAT.	COD.	MAT.	AF mm	O.D. mm	L (mm)	H (mm)	g
79819	Cu-Be	79820	Al-Bron	22	33	300	40	600



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.	AF mm	L (mm)	A (mm)	B (mm)	Ø C (mm)	g
74728	Cu-Be	74729	Al-Bron	6-7	100	11	13	4	85
74730		74731		8-9	110	14	16		100
74732		74733		10-11	115	17	18		125
74734		74735		12-13	125	19	20	6	185
74736		74737		14-15	130	22	23	8	290
74738		74739		16-17	140	24	26	11	510
74740		74741		18-19	150	27	29		570
74742		74743		20-22	155	30	33		710
74744		74745		21-23	165	31	34	12	750
74746		74747		24-26	180	35	37		970
74748		74749		25-28	190	36	40		1050
74750		74751		27-29		39	42		1100
74827		74828		30-36	200	43	50		1400



EGAMaster
ART IN INNOVATION

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 ИСКРОБЕЗОПАСНЫЙ БЕЗ ВОРОТКА

■ MM

COD.	MAT.	COD.	MAT.	AF mm	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		77689		37		1500
77690		77691		38		1650
77692		77693		41	285	1950
77694		77695		42		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



PASADOR PARA LLAVE DE VASO EN "T" / BAR FOR THE T-SOCKET WRENCH / GOUPILLE POUR DOUVILLE 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

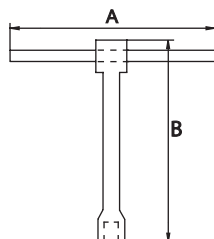
MM

COD.	MAT.	COD.	MAT.	AF mm	L (mm)	O.D. mm	g
77744	Cu-Be	77745	Al-Bron	8	120	7	35
77746		77747		9-10	130	8	50
77748		77749		11-12	140	8	55
77750		77751		13-15	150	9	75
77752		77753		16-18	170	10	100
77754		77755		19-20	180	10	105
77756		77757		21-22	190	12	165
77758		77759		23-28	200	13	210
77760		77761		29-34	200	16	320
77762		77763		35-37	200	18	400
77764		77765		38-42	300	20	750
77766		77767		46-47	350	20	850
77768		77769		50-56	450	25	1700
77770		77771		58-77	500	28	2400
77772		77773		80-85	500	32	3150
77774		77775		88-100	600	36	4800

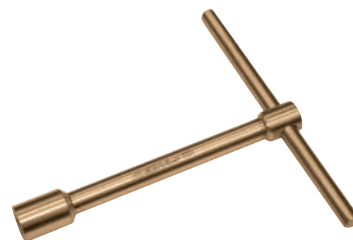


LLAVE DE VASO EN "T" / T-SOCKET WRENCH / DOUVILLE EN "T" / T-STECKSCHLÜSSEL / CHIAVE A T POLIGONALE / CHAVE DE CAIXA EM T / ГОЛОВКА С Т-ОБРАЗНОЙ РУКОЯТКОЙ

MM



COD.	MAT.	COD.	MAT.	AF mm	L (mm)	A (mm)	B (mm)	g
36982	Cu-Be	36986	Al-Bron	6	120	120	120	100
36983		36987		7	120	120	120	100
36984		36988		8	130	130	130	145
71370		71381		9	130	130	130	145
36985		36989		10	140	140	150	190
71371		71382		11	150	140	150	190
37068		37069		13	170	150	170	250
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		71387		24	270	200	270	750
71377		71388		27	270	200	270	750
71378		71389		30	280	200	280	900
71379		71390		32	280	200	280	900
72096		72097		36	280	200	280	950
71380		71391		38	280	200	280	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
37271	Cu-Be	37272	Al-Bron	2	100	45
37072		37073		3		50
37074		37075		4		80
37273		37274		5		120
37275		37276		6	120	150
37277		37278		7		250
37279		37280		8		280
37281		37282		9		380
74192		74193		10	170	450
74194		74195		12		600
74196		74197		14		650
74198		74199		17		900
74200		74201		19	260	950
74202		74203		22		1200
74204		74205		24		1400
74206		74207		27		1700
74208		74209		30	300	1900
74210		74211		32		
74212		74213		36		
74214		74215		41		



EGA Master
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

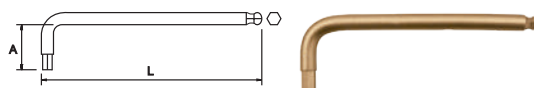
STANDARD

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
37023		37029		3,5	70		13
72178		72185		4		25	14
72179		72186		5	80	28	43
72180		72187		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		36257		7/32	95	32	
36258		36259		1/4	100	34	43
36260		36261		5/16	110	36	
36262		36263		3/8	120	40	75

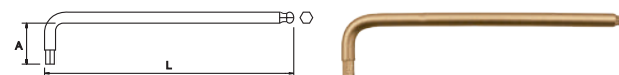
SERIE LARGA / LONG PATTERN / SÉRIE LONGUE / LANGE SCHNKL / SERIE LUNGA / SERIE LONGA / ДЛИННЫЕ

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		77567		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

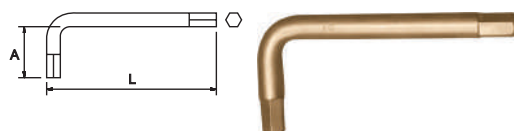


COD.	MAT.	COD.	MAT.	AF inch	L (mm)	A (mm)	g
36264		36265		1/8	130	20	21
36266		36267		5/32	145	25	25
36268		36269		3/16	160	28	43
36270		36271		7/32	180	32	60
36272		36273		1/4	195	34	90
36274		36275		5/16	210	36	150
36276		36277		3/8	240	40	250

■ LLAVES HEXAGONALES / HEXAGONAL KEYS / CLÉS MÂLES / INBUSSCHLÜSSEL / CHIAVI ESAGONALI / CHAVES HEXAGONAIS / ШЕСТИГРАННЫЕ КЛЮЧИ

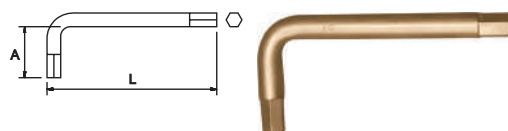
■ STANDARD

■ MM



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	
70396		71292		7	100	34	43
70397		71293		8	110	36	
70398		71294		9	115	38	55
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

■ INCH



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			
71307		71331		9/64	75	25	14
71308		71332		5/32			
71309		71333		3/16	85	28	41
71310		71334		7/32	95	32	
71311		71335		1/4			
75541		75542		9/32	100	34	43
71312		71336		5/16			
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	95	1020
71322		71346		1.1/16	265		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			
71326		71350		1.3/8	400	140	3200
71327		71351		1.7/16			
71328		71352		1.1/2	430	150	4600
71329		71353		1.5/8			

■ SET

■ MM

COD.	MAT.	PCS.	COD. PCS.	mm	g
74352	Cu-Be	10	72239, 70391, 72929, 70392, 70393, 70394, 74357, 70395, 70397, 70399	1,5-2-2,5-3-4-5-5,5-6-8-10	370
74353	Al-Bron		72238, 71287, 72928, 71288, 71289, 71290, 74358, 71291, 71293, 71295		



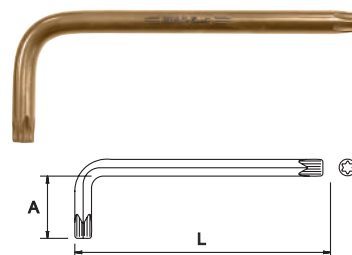
INCH

COD.	MAT.	PCS.	COD. PCS.	inch	g
36799	Cu-Be	10	75537, 72933, 72935, 75539, 71306, 71307, 71308, 71309, 71311, 71312	1/16-5/64-3/32-7/64-1/8-9/64-5/32-3/16-1/4-5/16	370
36800	Al-Bron		75538, 72932, 72934, 75540, 71330, 71331, 71332, 71333, 71335, 71336		



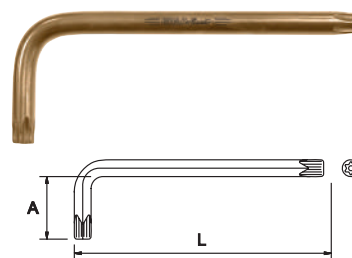
TORX®

COD.	MAT.	COD.	MAT.		L (mm)	A (mm)	g
35830		35831		T6	42		
35832		35833		T7			
35834		35835		T8	48	16	8
35836		35837		T9			
76134		76135		T10	51	17	
76136	Cu-Be	76137	Al-Bron	T15	54	18	10
76138		76139		T20	57		13
76140		76141		T25	60	20	17
76133		76144		T27	64	21	20
76142		76143		T30	70	24	30
36428		36429		T40	76	26	40



TAMPER TORX®

COD.	MAT.	COD.	MAT.		L (mm)	A (mm)	g
36430		36431		TT8	42	16	6,5
36432		36433		TT9			
35774		35775		TT10	51	17	
35776		35777		TT15	54	18	9
35778	Cu-Be	35779	Al-Bron	TT20	57		12
35780		35781		TT25	60	20	15
35782		35783		TT27	64	21	18
35784		35785		TT30	70	24	28
35786		35787		TT40	76	26	38



Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Aluminio bronce / Аллюминий Бронза
 *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)

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	260	1250
72173		72176		3/4	560	450	1700

12M



ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES							
Precisión / Accuracy / Précision							6%

COD.	MAT.		L (mm)	N.m	100% AMAGNÉTICA / 100% NON-MAGNETIC / 100% NON MAGNÉTIQUE	
37229	Cu-Be	1/4	420	2-10	●	1300
74810		3/8	480	5-50		1550
37231		1/2	530	20-100		1650
74821		3/4	650	40-200		1900
37233				80-400	-	1900
75267				150-700		10000
74879				200-1000		11000
37234		1	1300	500-1500		11000
37235			1350	750-2000		13500

12M



ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES							
Precisión / Accuracy / Précision							
							37229 ±4%
							74810 ±4%
							37231 ±4%
							74821 ±4%
							37233 ±4%
							75267 ±6%
							74879 ±6%
							37234 ±6%
							37235 ±6%

COD.	MAT.		L (mm)	N.m	
37230	Al-Bron	1/4	360	2-10	1300
74806		3/8	420	5-50	1550
37232		1/2	480	20-100	1650
74871				40-200	1650

12M

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES							
Precisión / Accuracy / Précision							±4%

■ 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	25	
71919		71940		14			
75564		75565		15			
75566		75567		16		30	
75568		75569		17	27		
75570		75571		18			35
75572		75573		19			

■ 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			15
74412	Cu-Be	74433	Al-Bron	10		12	
74413		74434		11			20
74414		74435		12			
74415		74436		13	26	25	
74416		74437		14			
75580		75581		15			
75582		75583		16		30	
75584		75585		17	27		
75586		75587		18			35
75588		75589		19			

■ 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			25
71929		71950		9/16			

■ 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			25
74426		74447		9/16			

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

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■ 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	

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-HEMBA / MALE-FEMALE RATCHET / CLIQUET MÂLE-FEMELLE / RATSCHKE 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-GLEITGRIFF / ASTA CON QUADRO SCORREVOLE "T" / CABO "T" CORREDIÇO / Т-ОБРАЗНАЯ С ПЛАВУЩЕЙ 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 / KARDANGELN / 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		73693			3		
73694		73695			4		20
73696		73697			5	55	
73698		73699			6		25
73700	Cu-Be	73701	Al-Bron	1/4	7		30
73702		73703			8		40
73704		73705			9	65	55
73706		73707			10		60



1/4"

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)	9
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	65	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 ГОЛОВОК

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	mm	9
73731	Cu-Be	73732	Al-Bron	1/4	195	55	60



BMA T

EGA Master
ART IN INNOVATION

■ 3/8"

■ STANDARD

■ MM

■ 6 PT.



COD.	MAT.	COD.	MAT.	AF mm	L (mm)	Pt	g
75592		75593		5			
75594		75595		5,5			
75596		75597		6	28	20	
75598		75599		7			
75600		75601		8			
75602		75603		9			
75604		75605		10			
75606	Cu-Be	75607	Al-Bron	11		35	
75608		75609		12		6	
75610		75611		13		40	
75612		75613		14	32		
75614		75615		15		45	
75616		75617		16			
75618		75619		17		55	
75620		75621		19		60	
75622		75623		20			

■ 12 PT.



COD.	MAT.	COD.	MAT.	AF mm	L (mm)	Pt	g
75646		75647		5			
75648		75649		5,5			
75650		75651		6	28	20	
75652		75653		7			
75654		75655		8			
75656		75657		9			
75658		75659		10			
75660	Cu-Be	75661	Al-Bron	11		35	
75662		75663		12		12	
75664		75665		13		40	
75666		75667		14	32		
75668		75669		15		45	
75670		75671		16			
75672		75673		17		55	
75674		75675		19		60	
75676		75677		20			

■ INCH

■ 6 PT.



COD.	MAT.	COD.	MAT.	AF inch	L (mm)	Pt	g
75624		75625		5/16		20	
75626		75627		3/8		30	
75628		75629		7/16	32	35	
75630		75631		1/2		40	
75632		75633		9/16		45	
75634	Cu-Be	75635	Al-Bron	5/8		65	
75636		75637		11/16		70	
75638		75639		3/4	35	75	
75640		75641		13/16		80	
75642		75643		7/8		85	
75644		75645		15/16		100	

■ 12 PT.



COD.	MAT.	COD.	MAT.	AF inch	L (mm)	Pt	g
75678		75679		5/16		20	
75680		75681		3/8		30	
75682		75683		7/16	32	35	
75684		75685		1/2		40	
75686		75687		9/16		45	
75688	Cu-Be	75689	Al-Bron	5/8		65	
75690		75691		11/16		70	
75692		75693		3/4	35	75	
75694		75695		13/16		80	
75696		75697		7/8		85	
75698		75699		15/16		100	

■ 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			
78865		78866		8			
78867		78868		9			
78869		78870		10			90
78871		78872		11			95
78873		78874		12			100
75966		75967		13			105
78875		78876		14			110
78877		78878		15			115
78879		78880		16			120
78881		78882		17			130
78883		78884		19			135
78885		78886		20			

COD.	MAT.	COD.	MAT.	AF mm	L (mm)	Pt	g
78909		78910		5			
78911		78912		5,5			
78913		78914		6			
78915		78916		7			
78917		78918		8			
78919		78920		9			
78921		78922		10			90
78923		78924		11			95
78925		78926		12			100
78927		78928		13			105
78929		78930		14			110
78931		78932		15			115
78933		78934		16			120
78935		78936		17			130
78937		78938		19			135
78939		78940		20			

■ 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		78898		5/8			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		78952		5/8			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 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 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 DOPPELT FUNKTION / CRICCO MASCHIO-FEMMINA / ROQUETE MACHO-FÊMEA / ТРЕЩЕТКА ПАПА-МАМА

COD.	MAT.	COD.	MAT.	AF 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 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 inch	L (mm)	g
75710	Cu-Be	75711	Al-Bron	3/8	190	220



MANGO ACODADO / OFFSET HANDLE / MANCHE CONTRE COUDÉ / GEKRÖPFTE HANDGRIF / DOPPIO MANICO / CABO DESALINHADO / ИЗГНУТАЯ РУКОЯТКА

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	g
75712	Cu-Be	75713	Al-Bron	3/8	200	300



ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELN / SNODO CARDANICO / CARDAN UNIVERSAL / КАРДАННОЕ СОЕДИНЕНИЕ

COD.	MAT.	COD.	MAT.	AF 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 inch	AF 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 DOUVILLE / 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	65	95
36564		36572			9		100
36565		36573			10		



PUNTA HEXAGONAL CON VASO SERIE LARGA / HEX BIT SOCKET LONG SERIE / EMBOUT HEXAGONAL À DOUVILLE 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



EGGA Master
ART IN INNOVATION

1/2"

STANDARD

MM

6 PT.

12 PT.



COD.	MAT.	COD.	MAT.	AF mm	L (mm)	Pt	g
37078		37079		5			
70319		71158		6		60	
70320		71159		7			
70321		71160		8			
70322		71161		9			
70323		71162		10		70	
70324		71163		11	40		
70325		71164		12			
70326		71165		13		80	
70327		71166		14			
70328		71167		15			
70329		71168		16		90	
70330		71169		17			
70331		71170		18			
70332	Cu-Be	71171	Al-Bron	19	42	6	100
70333		71172		20			
70334		71173		21		120	
70335		71174		22		130	
70336		71175		23		140	
70337		71176		24	43	170	
70338		71177		25		180	
70339		71178		26		190	
70340		71179		27			
70341		71180		28			
70342		71181		29	46	200	
70343		71182		30			
70344		71183		32			
74693		74692		34	50	350	
74325		74326		36		400	
79211		79212		41	55	590	

COD.	MAT.	COD.	MAT.	AF mm	L (mm)	Pt	g
37283		37284		5			
74448		74475		6		60	
74449		74476		7			
74450		74477		8			
74451		74478		9			
74452		74479		10		70	
74453		74480		11	40		
74454		74481		12			
74455		74482		13		80	
74456		74483		14			
74457		74484		15			
74458		74485		16		90	
74459		74486		17			
74460		74487		18			
74461	Cu-Be	74488	Al-Bron	19	42	12	100
74462		74489		20			
74463		74490		21		120	
74464		74491		22		130	
74465		74492		23		140	
74466		74493		24	43	170	
74467		74494		25		180	
74468		74495		26		190	
74469		74496		27			
74470		74497		28			
74471		74498		29	46	200	
74472		74499		30			
74473		74500		32			
75300		75301		34	50	350	
74474		74501		36		450	
36452		36453		41	55	590	

1/2"

STANDARD

INCH

6 PT.



12 PT.



COD.	MAT.	COD.	MAT.	AF inch	L (mm)	Pt	g
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		71211		3/4			
71194	Cu-Be	71212	Al-Bron	25/32		6	100
71195		71213		13/16			
71196		71214		7/8	43	120	
35844		35845		29/32		140	
71197		71215		15/16		150	
71198		71216		1		200	
71199		71217		1.1/16			
71200		71218		1.1/8	46	250	
77788		77789		1.3/16			
71201		71219		1.1/4			
36969		36970		1.5/16	47	300	
74882		74883		1.7/16			
78983		78984		1.1/2	55		

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	Pt	g
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		74529		3/4			
74512	Cu-Be	74530	Al-Bron	25/32		12	100
74513		74531		13/16			
74514		74532		7/8	43	120	
35854		35855		29/32		140	
74515		74533		15/16		150	
74516		74534		1		200	
74517		74535		1.1/16			
74518		74536		1.1/8	46	250	
77790		77791		1.3/16			
74519		74537		1.1/4			
37289		37290		1.5/16	47	300	
75302		75304		1.7/16			
36446		36447		1.1/2	55		

■ 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
37285		37286		5		80	
35000		35001		6			
35002		35003		7			
35004		35005		8			
35006		35007		9			
35008		35009		10			
35010		35011		11		190	
35012		35013		12			
74284		74285		13			
35014		35015		14			
35016		35017		15			
74294		74295		16			
74286		74287		17			
35018		35019		18		195	
74288		74289		19		200	
35020	Cu-Be	35021	Al-Bron	20	80	6	230
35022		35023		21			240
35024		35025		22			260
35026		35027		23			280
74290		74291		24			300
35028		35029		25			320
35030		35031		26			340
74292		74293		27			360
35032		35033		28			390
35034		35035		29			410
35036		35037		30			430
35038		35039		32			500
35040		35041		34			550
35042		35043		36			650
36450		36451		41			980

COD.	MAT.	COD.	MAT.	AF mm	L (mm)	Pt	g
37287		37288		5		80	
35084		35085		6			
35086		35087		7			
35088		35089		8			
35090		35091		9			
35092		35093		10			
35094		35095		11		190	
35096		35097		12			
35098		35099		13			
35100		35101		14			
35102		35103		15			
35104		35105		16			
35106		35107		17			
35108		35109		18		195	
35110	Cu-Be	35111	Al-Bron	19	80	12	200
35112		35113		20			230
35114		35115		21			240
35116		35117		22			260
35118		35119		23			280
35120		35121		24			300
35122		35123		25			320
35124		35125		26			340
35126		35127		27			360
35128		35129		28			390
35130		35131		29			410
35132		35133		30			430
35134		35135		32			500
35136		35137		34			550
35138		35139		36			650
36454		36455		41			980

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berillio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий 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		35065		25/32		230		35160		35161		25/32		230	
35066		35067		13/16	80	6	240	35162		35163		13/16	80	12	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	
37291		37292		1.5/16		650		37293		37294		1.5/16		650	
35082		35083		1.7/16		800		35178		35179		1.7/16		800	
36444		36445		1.1/2				36448		36449		1.1/2			

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.	MAT.	COD.	MAT.	AF inch	L (mm)	Pt	g
76041	Cu-Be	76040	Al-Bron	13/16	60	12	160



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



1/2"

CARRACA MACHO-HEMBRA / MALE-FEMALE RATCHET / CLIQUET MALE-FEMELLE / RATSCHÉ DOPELT 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	Cu-Be	71274	Al-Bron	1/2	10	400
70379	Cu-Be	71275	Al-Bron	1/2	12	500



MANGO ARTICULADO / SWIVEL HANDLE / MANCHE ARTICULÉ / GELENKGRIFF / MANICO ARTICOLATO / CABO ARTICULADO / ГИБКАЯ РУКОЯТКА

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	g
72400	Cu-Be	72401	Al-Bron	1/2	250	330
72402	Cu-Be	72403	Al-Bron	1/2	320	400
72404	Cu-Be	72405	Al-Bron	1/2	400	550



MANGO ACODADO / OFFSET HANDLE / MANCHE CONTRE COUDÉ / GEKRÖPFTE HANDGRIFF / DOPPIO MANICO / CABO DESALINHADO / ИЗОГНУТАЯ РУКОЯТКА

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	g
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 CAIXA / ГОЛОВКА С ПЛОСКОЙ ОТВЕРТКОЙ

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	mm	g
73709	Cu-Be	73710	Al-Bron	1/2	50	13 x 2	100



BERBIQUÍ / SPEEDER HANDLE / VILEBREQUIN / WINDE / LEVA GIROBECCCHINO / MANIVELA / КОЛЕНЧАТАЯ РУЧКА

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	g
72416	Cu-Be	72417	Al-Bron	1/2	390	750



ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ

COD.	MAT.	COD.	MAT.	AF inch	L (inch)	g
37094	Cu-Be	37095	Al-Bron	1/2	2	250
70383	Cu-Be	71279	Al-Bron	1/2	4	200
76490	Cu-Be	76491	Al-Bron	1/2	5	250
70384	Cu-Be	71280	Al-Bron	1/2	8	400
70385	Cu-Be	71281	Al-Bron	1/2	10	500
75477	Cu-Be	75478	Al-Bron	1/2	16	700



ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELN / SNODO CARDANICO / CARDAN UNIVERSAL / КАРДАННОЕ СОЕДИНЕНИЕ

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	g
70372	Cu-Be	71269	Al-Bron	1/2	80	200



■ 1/2"

■ ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEILE / ADATTATORE / PEÇA DE CONEXÃO / АДАПТЕР

COD.	MAT.	COD.	MAT.		
75720	Cu-Be	75721	Al-Bron	1/2-3/8	70
70369		71266		1/2-3/4	200
79946		79947		1/2-1	280



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.			L (mm)	
36645	Cu-Be	36657	Al-Bron	1/2	4	55	85
36646		36658			5		
36647		36659			6		
36648		36660			7		
36649		36661			8	65	105
36650		36662			10		120
36651		36663			12		135
36652		36664			14		175
36653		36665			16		190
36654		36666			17		195
36655		36667			18		210
36656		36668			19		



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.			L (mm)	
36670	Cu-Be	36682	Al-Bron	1/2	4	100	95
36671		36683			5		
36672		36684			6		100
36673		36685			7		110
36674		36686			8		130
36675		36687			10		155
36676		36688			12		185
36677		36689			14		250
36678		36690			16		270
36679		36691			17		290
36680		36692			18	320	
36681		36693			19		



3/4"

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
74649		74653		17				75734		75735		17			
75724		75725		18	50		200	75736		75737		18	50		200
74650		74654		19				75738		75739		19			
74651		74655		21			250	75740		75741		21			250
74652		74656		22				75742		75743		22			
37080		37081		23				76042		76039		23			
70345		71220		24				74538		74547		24			
71908		72953		26	55		280	74539		74548		26	55		280
70346		71221		27				74540		74549		27			
75726		75727		28			310	75744		75745		28			310
75728		75729		29			320	75746		75747		29			320
70347		71222		30			370	74541		74550		30			370
75730		75731		31			380	75748		75749		31			380
70348		71223		32			410	74542		74551		32			410
77792		77793		33				77810		77811		33			
74863		74864		34				75750		75751		34			
77794		77795		35	60		440	77812		77813		35	60		440
70349	Cu-Be	71224	Al-Bron	36		6	460	74543	Cu-Be	74552	Al-Bron	36		12	460
77796		77797		37			470	77814		77815		37			470
74865		74866		38			500	75752		75753		38			500
79408		79409		39			555	37030		37037		39			550
79410		79411		40			650	37031		37038		40			650
70350		71225		41				74544		74553		41			
77798		77799		42				77816		77817		42			
79412		79413		43				37032		37039		43			
79414		79415		44	65		700	37033		37040		44	65		700
79416		79417		45				37034		37041		45			
70351		71226		46				74545		74554		46			
77800		77801		47			750	77818		77819		47			750
79418		79419		48				37035		37042		48			800
79420		79421		49			850	37036		37043		49			850
70352		71227		50	70			74546		74555		50	70		
77802		77803		52			900	77820		77821		52			900
77804		77805		55			950	77822		77823		55			950
77806		77807		60			1100	77824		77825		60			1100
76063		76064		65	80		1700	37295		37296		65	80		1700

3/4"

STANDARD

INCH

6 PT.



12 PT.



COD.	MAT.	COD.	MAT.	AF inch	L (mm)	Pt	g
74786		74787		3/4	50		220
75732		75733		13/16			240
74788		74789		7/8			
74790		74791		15/16	55		280
74792		74793		1			
74802		74803		1.1/16			310
74804		74805		1.1/8			360
35846		35847		1.5/32			400
74867		74868		1.3/16			
35848		35849		1.7/32			
74869		74870		1.1/4	60		430
71228	Cu-Be	71239	Al-Bron	1.5/16		6	470
71229		71240		1.3/8			480
71230		71241		1.7/16			550
71231		71242		1.1/2			650
71232		71243		1.9/16			
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			800
77808		77809		1.15/16			850
71238		71249		2	70		

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	Pt	g
75754		75755		3/4	50		220
75756		75757		13/16			240
75758		75759		7/8			
75760		75761		15/16	55		280
75762		75763		1			
75764		75765		1.1/16			310
75766		75767		1.1/8			360
35856		35857		1.5/32			400
75768		75769		1.3/16			
35858		35859		1.7/32			
75770		75771		1.1/4	60		430
74556	Cu-Be	74567	Al-Bron	1.5/16		12	470
74557		74568		1.3/8			480
74558		74569		1.7/16			550
74559		74570		1.1/2			650
74560		74571		1.9/16			
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			800
77826		77827		1.15/16			850
74566		74577		2	70		

■ 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			
37082		37083		23		550		37084		37085		23		550	
35190		35191		24				35284		35285		24			
35192		35193		26				35286		35287		26			
35194		35195		27				35288		35289		27			
35196		35197		28		600		35290		35291		28		600	
35198		35199		29				35292		35293		29			
35200		35201		30				35294		35295		30			
35202		35203		31	90			35296		35297		31	90		
35204		70484		32				35298		35299		32			
35206		35207		33		650		35300		35301		33		650	
35208		35209		34				35302		35303		34			
35210		35211		35				35304		35305		35			
76775	Cu-Be	70485	Al-Bron	36		6	700	35306	Cu-Be	35307	Al-Bron	36		12	700
35212		35213		37			750	35308		35309		37			750
35214		35215		38			800	35310		35311		38			800
36995		37009		39			850	37002		37016		39			850
36996		37010		40			900	37003		37017		40			900
35216		35217		41			950	35312		35313		41			950
35218		35219		42			1000	35314		35315		42			1000
36997		37011		43			1100	37004		37018		43			1100
36998		37012		44			1150	37005		37019		44			1150
36999		37013		45			1200	37006		37020		45			1200
35220		35221		46			1250	35316		35317		46			1250
35222		35223		47			1300	35318		35319		47			1300
37000		37014		48			1400	37007		37021		48			1400
37001		37015		49	100		2100	37008		37022		49	100		2100
35224		35225		50				35320		35321		50			
35226		35227		52				35322		35323		52			
35228		35229		55				35324		35325		55			
35230		35231		60				35326		35327		60			
37297		37298		65				37299		37300		65			

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			600	35338		35339		1.1/16			600
35244		35245		1.1/8				35340		35341		1.1/8			
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				35356		35357		1.5/8			
35262		35263		1.11/16			950	35358		35359		1.11/16			950
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				35366		35367		1.15/16			
35272		35273		2			1250	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

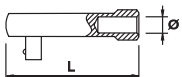


LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET RÉVERSIBLE / UMSCHALTKNARRE / CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА

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 béryllium / Beryllium-Kupfer / Rame berillio / Cobre berílio / Медь Бериллий
 Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

3/4"

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 (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 / Т-ОБРАЗНАЯ С ПЛАВАЮЩЕЙ РУЧКОЙ ДЛИННАЯ

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	H (mm)	g
73717	Cu-Be	73718	Al-Bron	3/4	350	190	1500



MANGO ARTICULADO / SWIVEL HANDLE / MANCHE ARTICULÉ / GELENKGRIF / MANICO ARTICOLATO / CABO ARTICULADO / ГИБКАЯ РУКОЯТКА

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	g
72406	Cu-Be	72407	Al-Bron	3/4	290	600



MANGO ACODADO / OFFSET HANDLE / MANCHE CONTRE COUDÉ / GEKRÖPFTE HANDGRIFF / DOPPIO MANICO / CABO DESALINHADO / ИЗГНУТАЯ РУКОЯТКА

COD.	MAT.	COD.	MAT.	AF 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 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 / KARDANGELN / SNODO CARDANICO / CARDAN UNIVERSAL / КАРДАННОЕ СОЕДИНЕНИЕ

COD.	MAT.	COD.	MAT.	AF 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 inch	L (mm)	I.D. 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 inch	AF 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
ИСКРОБЕЗОПАСНЫЙ



■ 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			400
75784		75785		29			410
75786		75787		30			440
75788		75789		31			450
75790		75791		32	60		460
75792		75793		34			500
75794		75795		36			600
75796		75797		38			700
70353	Cu-Be	71250	Al-Bron	41		6	800
70354		71251		42	65		1000
70355		71252		46			1100
70356		71253		50	70		1400
70357		71254		55			1500
70358		71255		60	75		2000
70359		71256		65			2200
70360		71257		70	80		4600
70361		71258		75			4800
70362		71259		80	85		4900
70363		71260		85			5000
70364		71261		90			5200
70365		71262		95	90		
70366		71263		100			
70367		71264		105	95		

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			400
75840		75841		29			410
75842		75843		30			440
75844		75845		31			450
75846		75847		32	60		460
75848		75849		34			500
75850		75851		36			600
75852		75853		38			700
74578	Cu-Be	74593	Al-Bron	41		12	800
74579		74594		42	65		1000
74580		74595		46			1100
74581		74596		50	70		1400
74582		74597		55			1500
74583		74598		60	75		2000
74584		74599		65			2200
74585		74600		70	80		4600
74586		74601		75			4800
74587		74602		80	85		4900
74588		74603		85			5000
74589		74604		90			5200
74590		74605		95	90		
74591		74606		100			
74592		74607		105	95		

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berílio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

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		400	
75804		75805		1.1/4		430	
75806		75807		1.5/16	60	440	
75808		75809		1.3/8			
75810		75811		1.7/16		460	
75812		75813		1.1/2		500	
75814		75815		1.5/8		550	
77828		77829		1.13/16	65	700	
75816	Cu-Be	75817	Al-Bron	1.7/8		6	
75818		75819		2	70	800	
77830		77831		2.1/8		850	
75820		75821		2.1/4		1000	
77832		77833		2.3/8	75	1250	
75822		75823		2.1/2			
77834		77835		2.9/16		1400	
75824		75825		2.3/4			
77836		77837		2.15/16	80	1500	
75826		75827		3			
77838		77839		3.1/8		2300	

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		400	
75860		75861		1.1/4		430	
75862		75863		1.5/16	60	440	
75864		75865		1.3/8			
75866		75867		1.7/16		460	
75868		75869		1.1/2		500	
75870		75871		1.5/8		550	
77840		77841		1.13/16	65	700	
75872	Cu-Be	75873	Al-Bron	1.7/8		12	
75874		75875		2	70	800	
77842		77843		2.1/8		850	
75876		75877		2.1/4		1000	
77844		77845		2.3/8	75	1250	
75878		75879		2.1/2			
77846		77847		2.9/16		1400	
75880		75881		2.3/4			
77848		77849		2.15/16	80	1500	
75882		75883		3			
77850		77851		3.1/8		2300	

BE SAFE...BE EFFICIENT

■ 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		1750	
35406		35407		60	125	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		1750	
35504		35505		60	125	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	

■ 1"

■ SERIE LARGA / LONG SOCKETS / SÉRIE LONGUE / LANGE SERIE / SERIE LUNGA / SERIE LONGA / ВЫСОКАЯ СЕРИЯ

■ INCH

■ 6 PT.

■ 12 PT.



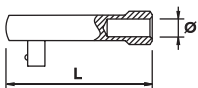
COD.	MAT.	COD.	MAT.	AF inch	L (mm)	Pt	g	COD.	MAT.	COD.	MAT.	AF inch	L (mm)	Pt	g
35426		35427		1.1/16				35524		35525		1.1/16			
35428		35429		1.1/8				35526		35527		1.1/8			
35430		35431		1.3/16			800	35528		35529		1.3/16			
35432		35433		1.1/4				35530		35531		1.1/4			
35434		35435		1.5/16	100		850	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 / RATSCHKE 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 / RATSCHKE 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 béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / 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.	AF inch	L (inch)	g
70382	Cu-Be	71278	Al-Bron	1	12	2300

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	H (mm)	g
73719	Cu-Be	73720	Al-Bron	1	400	190	2400



ALARGADERA / EXTENSION / RALLONGE / VERLÄNGERUNG / PROLUNGA / EXTENÇÃO / УДЛИНИТЕЛЬ

COD.	MAT.	COD.	MAT.	AF inch	L (inch)	g
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.	AF inch	L (inch)	g
70370	Cu-Be	71267	Al-Bron	1-3/4		600



ARTICULACIÓN UNIVERSAL / UNIVERSAL JOINT / CARDAN UNIVERSEL / KARDANGELENK / SNODO CARDANICO / CARDAN UNIVERSAL / КАРДАННОЕ СОЕДИНЕНИЕ

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	g
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.	AF inch	L (mm)	I.D. mm	g
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.	AF inch	L (mm)	g
72408	Cu-Be	72409	Al-Bron	1	300	850



MANGO ACODADO / OFFSET HANDLE / MANCHE CONTRE COUDÉ / GEKRÖPFTE HANDGRIF / DOPPIO MANICO / CABO DESALINHADO / ИЗОГНУТАЯ РУКОЯТКА

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	g
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
74263	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
8	74452, 74453, 74454, 74456, 74459, 74461, 74464, 74466	Llaves de vaso / Socket wrenches 10-11-12-14-17-19-22-24
1	72410	Mango acodado / Offset handle 230 mm, 400 g

COD.	MAT.	AF inch	PCS.	COD. PCS.	AF mm	AF inch	Kg
35810	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" 7/8"-15/16"	1,4

PCS.	Composición / Composition / Composition	Descripción / Description / Description
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" 7/8"-15/16"
1	72410	Mango acodado / Offset handle 230 mm, 400 g

COD.	MAT.	AF inch	PCS.	COD. PCS.	AF mm	AF inch	Kg
74264	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
8	74479, 74480, 74481, 74483, 74486, 74488, 74491, 74493	Llaves de vaso / Socket wrenches 10-11-12-14-17-19-22-24
1	72411	Mango acodado / Offset handle 230 mm, 400 g

COD.	MAT.	AF inch	PCS.	COD. PCS.	AF mm	AF inch	Kg
35819	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" 7/8"-15/16"	1,4

PCS.	Composición / Composition / Composition	Descripción / Description / Description
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" 7/8"-15/16"
1	72411	Mango acodado / Offset handle 230 mm, 400 g

■ 12 PCS.

COD.	MAT.	AF inch	PCS.	COD. PCS.	AF mm	AF inch	Kg
74265	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
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	72400	Mango Articulado / Offset handle 230 mm, 330 g
	70375	Carraca / Ratchet 250 mm, 600 g



Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

COD.	MAT.		PCS.	COD. PCS.			
35811	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.		PCS.	COD. PCS.			
74266	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.		PCS.	COD. PCS.			
35820	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.		PCS.	COD. PCS.			
74267	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 $\frac{inch}{mm}$	PCS.	COD. PCS.	AF $\frac{mm}{mm}$	AF $\frac{inch}{inch}$	Kg
35812	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

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 $\frac{inch}{mm}$	PCS.	COD. PCS.	AF $\frac{mm}{mm}$	AF $\frac{inch}{inch}$	Kg
74268	Al-Bron	1/2	16	74479, 74480, 74481, 74483, 74486, 74488, 74491, 74493, 74496, 74499, 74500, 76491	10-11-12-14-17-19-22-24-27-30-32	-	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 $\frac{inch}{mm}$	PCS.	COD. PCS.	AF $\frac{mm}{mm}$	AF $\frac{inch}{inch}$	Kg
35821	Al-Bron	1/2	16	74522, 74523, 74524, 74527, 74528, 74529, 74532, 74533, 74535, 77791, 74537, 76491	-	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

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.		PCS.	COD. PCS.			
74269	Cu-Be	1/2	24	74452, 74453, 74454, 74455, 74456, 74457, 74458, 74459, 74460, 74461, 74462, 74463, 74464, 74465, 74466, 74469, 74472, 74473, 76490	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	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	
	70372	Articulacion universal / Universal Joint	80 mm	



COD.	MAT.		PCS.	COD. PCS.			
35813	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.		PCS.	COD. PCS.			
74270	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	

PCS.	Composición / Composition / Composition	Descripción / Description / Description		
1	71269	Articulacion Universal / Universal Joint	80 mm	

COD.	MAT.	AF inch	PCS.	COD. PCS.	AF mm	AF inch	Kg
35822	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	Berbiqú / Speeder handle	390 mm	
1	71274	Mango corredizo en T / Sliding T handle	250 mm	
	71269	Articulacion universal / Universal Joint	80 mm	

27 PCS.

COD.	MAT.	AF inch	PCS.	COD. PCS.	AF mm	AF inch	Kg
74271	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	Berbiqú / 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
35814	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
74272	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			

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	inch	PCS.	COD. PCS.	AF	mm	AF	inch	Kg
35823	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"-1.3/16"-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 inch mm	PCS.	COD. PCS.	AF mm inch	AF inch mm	Kg
74273	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	
		Vaso para bujías / Spark plug socket	13/16"	



COD.	MAT.	AF inch mm	PCS.	COD. PCS.	AF mm inch	AF inch mm	Kg
35815	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 mm	PCS.	COD. PCS.	AF mm inch	AF inch mm	Kg
74274	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"	

COD.	MAT.		PCS.	COD. PCS.			
35824	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 bujía / Spark plug socket	13/16"	

■ 3/4"

■ 14 PCS.

COD.	MAT.	AF inch	PCS.	COD. PCS.	AF mm	AF inch	Kg
74275	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
35816	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	

COD.	MAT.	AF inch	PCS.	COD. PCS.	AF mm	AF inch	Kg
74276	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
35825	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

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

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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
74277	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
35817	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"-1-1/16"-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	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"-1-1/16"-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
74278	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 mm	PCS.	COD. PCS.	AF mm inch	AF inch mm	Kg
35826	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 mm	PCS.	COD. PCS.	AF mm inch	AF inch mm	Kg
74279	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	
	72396	Articulación flexible / Flexible joint	120 mm	
1	70387	Alargadera / Extension	200 mm	
	72416	Mango corredizo en T / Sliding T handle	400 mm	



COD.	MAT.	AF inch mm	PCS.	COD. PCS.	AF mm inch	AF inch mm	Kg
35818	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"	
	72396	Articulación flexible / Flexible joint	120 mm	
1	70387	Alargadera / Extension	200 mm	
	72416	Mango corredizo en T / Sliding T handle	400 mm	

COD.	MAT.	AF inch mm	PCS.	COD. PCS.	AF mm inch	AF inch mm	Kg
74280	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

Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Aluminio bronce / Аллюминий Бронза
Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий

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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	
	72397	Articulación flexible / Flexible joint	120 mm	
1	71283	Alargadera / Extension	200 mm	
	72417	Mango corredizo en T / Sliding T handle	400 mm	

COD.	MAT.	AF inch	PCS.	COD. PCS.	AF mm	AF inch	Kg
35827	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"	
	72397	Articulación flexible / Flexible joint	120 mm	
1	71283	Alargadera / Extension	200 mm	
	72417	Mango corredizo en T / Sliding T handle	400 mm	

EGA Master

ART IN INNOVATION

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				77952		77953		41			
74725		74726		46			600	77954		77955		46			600
74716		74727		50	60		800	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.

Impact Wrenches - Pneumatic and Hydraulic, 1/2", 3/4", 1" and 1.1/2" Sq. Drive for ATEX zones - See Intrinsic Safety chapter.

Doilles 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 béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

■ 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.

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.

■ 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		76229		21			290	78405		78406		21			290
76230	Cu-Be	76231	Al-Bron	22	82	6	310	78407	Cu-Be	78408	Al-Bron	22	82	12	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.

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 béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий 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
76352	Cu-Be	76353	Al-Bron	5/16	82	6	170
76354		76355		3/8			
76356		76357		7/16			
76358		76359		1/2			180
76360		76361		9/16			190
76362		76363		19/32			200
76364		76365		5/8			220
76366		76367		11/16			250
76368		76369		3/4			270
76370		76371		25/32			280
76372		76373		13/16			290
76374		76375		7/8			310
76376		76377		15/16			340
76378		76379		1			380
76380		76381		1.1/16			420
76382		76383		1.1/8			460
76384		76385		1.3/16			490
76386		76387		1.1/4			500

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	Pt	g
78431	Cu-Be	78432	Al-Bron	5/16	82	12	170
78433		78434		3/8			
78435		78436		7/16			
78437		78438		1/2			180
78439		78440		9/16			190
78441		78442		19/32			200
78443		78444		5/8			220
78445		78446		11/16			250
78447		78448		3/4			270
78449		78450		25/32			280
78451		78452		13/16			290
78453		78454		7/8			310
78455		78456		15/16			340
78457		78458		1			380
78459		78460		1.1/16			420
78461		78462		1.1/8			460
78463		78464		1.3/16			490
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.

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.

3/4"

STANDARD

MM

6 PT.

12 PT.



COD.	MAT.	COD.	MAT.	AP mm	L (mm)	Pt	g
79839		79840		17			350
77992		77993		19			
79210		79213		20	55		250
79841		79842		21			350
77994		77995		22			
79017		79018		23	50		280
75884		75885		24			350
79879		79880		26			370
75886		75887		27	55		380
79881		79882		28			400
75888		75889		30			500
75890	Cu-Be	75891	Al-Bron	32		6	
79843		79844		33	60		550
77996		77997		34			
75892		75893		36			
77998		77999		38			700
75894		75895		41			
37063		37064		42	65		800
75896		75897		46			900
75898		75899		50			1100
78000		78001		55	70		1250
78002		78003		60			

COD.	MAT.	COD.	MAT.	AP mm	L (mm)	Pt	g
36701		36702		17	50		300
78040		78041		19			
36284		36295		20			
36811		36815		21			350
78042		78043		22			
36729		36730		23	55		
72314		72315		24			
36812		36816		26			370
72316		72317		27			380
36813		36817		28			400
72318		72319		30			500
72320	Cu-Be	72321	Al-Bron	32		12	
36814		36818		33	60		550
76512		76513		34			
72322		72323		36			
76514		76515		38			700
72324		72325		41			
37086		37087		42	65		800
72326		72327		46			900
72328		72329		50			1100
76516		76517		55	70		1250
78044		75968		60			



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 béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

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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.

■ 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
36462		36463		17			650
78467		78468		19			700
36819		36823		21			750
78469		78470		22			
36731		36732		23	90		
78471		78472		24			800
36820		36824		26			
78473		78474		27			
36821		36825		28			
78475		78476		30			
78477	Cu-Be	78478	Al-Bron	32		6	
36822		36826		33	95		900
78479		78480		34			
78481		78482		36			
78483		78484		38			1100
78485		78486		41			1150
37088		37089		42			
78487		78488		46	100		1200
78489		78490		50			1700
78491		78492		55			1750
78493		78494		60			

COD.	MAT.	COD.	MAT.	AF mm	L (mm)	Pt	g
36464		36465		17			650
78531		78532		19			700
36827		36831		21			750
78533		78534		22			
36733		36734		23	90		
78535		78536		24			800
36828		36832		26			
78537		78538		27			
36829		36833		28			
78539		78540		30			
78541	Cu-Be	78542	Al-Bron	32		12	
36830		36834		33	95		900
78543		78544		34			
78545		78546		36			
78547		78548		38			1100
78549		78550		41			1150
37090		37091		42			
78551		78552		46	100		1200
78553		78554		50			1700
78555		78556		55			1750
78557		78558		60			



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 béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronce / Аллюминий 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
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.

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.

■ 1"

■ STANDARD

■ MM

■ 6 PT.

■ 12 PT.



COD.	MAT.	COD.	MAT.	AP mm	L (mm)	Pt	g	COD.	MAT.	COD.	MAT.	AP mm	L (mm)	Pt	g
72330		72331		19			650	75900		75901		19			650
72332		72333		21				75902		75903		21			
72334		72335		22				75904		75905		22			
72336		72337		24				75906		75907		24			
72338		72339		26	60		700	75908		75909		26	60		700
72340		72341		27				75910		75911		27			
72342		72343		29				75912		75913		29			
72344		72345		30			750	75914		75915		30			750
72346		72347		32				75916		75917		32			
72348		72349		34			800	75918		75919		34			800
72350		72351		35			850	75920		75921		35			850
72352		72353		36	70			75922		75923		36	70		
72354		72355		38			900	75924		75925		38			900
72356		72357		41				75926		75927		41			
72358		72359		46			1200	75928		75929		46			1200
72360	Cu-Be	72361	Al-Bron	50	80	6	1500	75930	Cu-Be	75931	Al-Bron	50	80	12	1500
72362		72363		52			1700	75932		75933		52			1700
72364		72365		55			1800	75934		75935		55			1800
72366		72367		58			1900	75936		75937		58			1900
72368		72369		60			2000	75938		75939		60			2000
72370		72371		65	90		2300	75940		75941		65	90		2300
72372		72373		70			2700	75942		75943		70			2700
72374		72375		75			3000	75944		75945		75			3000
72376		72377		80			3300	75946		75947		80			3300
79845		79846		85			3500	36835		36842		85			3500
79847		79848		90			3700	36836		36843		90			3700
79869		79870		95	100		4000	36837		36844		95	100		4000
79871		79872		100			4500	36838		36845		100			4500
79873		79874		105			5500	36839		36846		105			5500
79875		79876		110	110		5750	36840		36847		110	110		5750
79877		79878		115	115		7000	36841		36848		115	115		7000



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 béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

■ 1"

■ STANDARD

■ INCH

■ 6 PT.

■ 12 PT.



COD.	MAT.	COD.	MAT.	AF inch	L (mm)	Pt	g
79837		79838		3/4			
79849		79850		7/8		650	
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	950	6
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
36877		36887		3/4			
36878		36888		7/8		650	
36879		36889		1	55	700	
36880		36890		1.1/16		750	
78107		78108		1.1/8		800	
36881		36891		1.3/16	60		
78109		78110		1.1/4			
78111		78112		1.5/16		900	
36882		36892		1.3/8	65		
36883		36893		1.7/16			
78113		78114		1.1/2			
78115	Cu-Be	78116	Al-Bron	1.5/8	70	1050	12
36884		36894		1.3/4		1350	
78117		78118		1.13/16			
36885		36895		1.7/8	75	1500	
36886		36896		1.15/16			
78119		78120		2	80	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.

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.

■ 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			1150	78679		78680		29			1150
78609		78610		30	100			78681		78682		30	100		
78611		78612		32			1250	78683		78684		32			1250
78613		78614		34			1300	78685		78686		34			1300
78615		78616		35			1350	78687		78688		35			1350
78617		78618		36			1400	78689		78690		36			1400
78619		78620		38			1450	78691		78692		38			1450
78621		78622		41			1500	78693		78694		41			1500
78623		78624		46			2200	78695		78696		46			2200
78625		78626		50	115	6	2300	78697		78698		50	115	12	2300
78627		78628		52			2650	78699		78700		52			2650
78629		78630		55			2700	78701		78702		55			2700
78631		78632		58	125		100	78703		78704		58	125		2950
78633		78634		60			3000	78705		78706		60			3000
78635		78636		65			3950	78707		78708		65			3950
78637		78638		70	135			78709		78710		70	135		
78639		78640		75			4750	78711		78712		75			4750
78649		78650		80	140		4800	78713		78714		80	140		4800
36849		36856		85	110		4020	36863		36870		85	110		4020
36850		36857		90			4510	36864		36871		90			4510
36851		36858		95			4930	36865		36872		95			4930
36852		36859		100	115		5450	36866		36873		100	115		5450
36853		36860		105			5820	36867		36874		105			5820
36854		36861		110	120		6300	36868		36875		110	120		6300
36855		36862		115	125		7060	36869		36876		115	125		7060



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 béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий 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
36897		36907		3/4			880
36898		36908		7/8			900
36899		36909		1			920
36900		36910		1.1/16			1030
78641		78642		1.1/8			1150
36901		36911		1.3/16			
78643		78644		1.1/4	100		1300
78645		78646		1.5/16			
36902		36912		1.3/8			1420
36903		36913		1.7/16			1430
78647		78648		1.1/2			1450
78649	Cu-Be	78650	Al-Bron	1.5/8		6	1500
36904		36914		1.3/4			1900
78651		78652		1.13/16			
36905		36915		1.7/8	115		2200
36906		36916		1.15/16			
78653		78654		2			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			
78663		78664		2.15/16	140		4700
78665		78666		3.1/8			4800

COD.	MAT.	COD.	MAT.	AF inch	L (mm)	Pt	g
36917		36927		3/4			880
36918		36928		7/8			900
36919		36929		1			920
36920		36930		1.1/16			1030
78715		78716		1.1/8			1150
36921		36931		1.3/16			
78717		78718		1.1/4	100		1300
78719		78720		1.5/16			
36922		36932		1.3/8			1420
36923		36933		1.7/16			1430
78721		78722		1.1/2			1450
78723	Cu-Be	78724	Al-Bron	1.5/8		12	1500
36924		36934		1.3/4			1900
78725		78726		1.13/16			
36925		36935		1.7/8	115		2200
36926		36936		1.15/16			
78727		78728		2			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			
78737		78738		2.15/16	140		4700
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.

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.

1.1/2"

STANDARD

MM

6 PT.

12 PT.



COD.	MAT.	COD.	MAT.	AP mm	L (mm)	Pt	g
78133		78134		34			
78135		78136		36	80	2200	
78137		78138		38			
78139		78140		41			
78141		78142		46	85	2400	
78143		78144		48		2450	
78145		78146		50		2600	
78147		78148		54	90	2650	
78149		78150		55			
78151	Cu-Be	78152	Al-Bron	60		6	3050
78153		78154		65	95		3350
78155		78156		70			3800
78157		78158		75	100		4100
78159		78160		80			4800
78161		78162		85	110		5600
78163		78164		90	125		6850
78165		78166		95	130		7650
78167		78168		100	135		8200
78169		78170		105	140		8800

COD.	MAT.	COD.	MAT.	AP mm	L (mm)	Pt	g
78211		78212		34			
78213		78214		36	80	2200	
78215		78216		38			
78217		78218		41			
78219		78220		46	85	2400	
78221		78222		48		2450	
78223		78224		50		2600	
78225		78226		54	90	2650	
78227		78228		55			
78229	Cu-Be	78230	Al-Bron	60	95	12	3050
78231		78232		65	100		3350
78233		78234		70	105		3800
78235		78236		75	110		4100
78237		78238		80	115		4800
78239		78240		85	120		5600
78241		78242		90	125		6850
78243		78244		95			7650
78245		78246		100	130		8200
78247		78248		105			8800



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 béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

■ 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			2600
78179		78180		2.1/8	90		2650
36601		36609		2.3/16			2750
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			2600
78257		78258		2.1/8	90		2650
37092		37093		2.3/16			2750
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			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



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.

2.1/2"

STANDARD

MM

6 PT.



COD.	MAT.	COD.	MAT.	AF mm	L (mm)	Pt	g
78289		78290		75			8400
78291		78292		80	140		8700
78293		78294		85			8900
78295		78296		90			10250
78297		78298		95			10500
78299	Cu-Be	78300	Al-Bron	100		6	11300
78301		78302		105	150		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			8400
78335		78336		80	140		8700
78337		78338		85			8900
78339		78340		90			10250
78341		78342		95			10500
78343	Cu-Be	78344	Al-Bron	100		12	11300
78345		78346		105	150		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			8400
78313		78314		3.1/8	140		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		6	11300
78323		78324		4.1/8	150		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			8400
78357		78358		3.1/8	140		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		12	11300
78367		78368		4.1/8	150		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.

Douilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" pour zones ATEX - Voir chapitre Sécurité Intrinsèque.

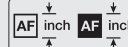
Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза

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	250	550
78383		78384			150	1100
78385		78386		1	300	2200
78387		78388				



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



ANILLA DE SEGURIDAD / SECURITY O-RING / BAGUES DE SECURITE / SICHERUNGSRING / ANELLO SPACCATO / ANEL DE SEGURANÇA / БЕЗОПАСНОЕ КОЛЬЦО

COD.		Dimensiones (mm) / Dimensions (mm) / Dimensions (mm)		
66429	1/2	25 X 5	5	6
66430		37 X 5		
66431	3/4	40 X 6	10	
66432		50 X 6		
66433	1	50 X 8	20	
66434		63 X 8		
66435		75 X 8		
66436	1.1/2	79 X 10	20	
66450		120 X 10		



PASADOR DE SEGURIDAD / SAFETY PIN / GOUPILLE DE SECURITE / SICHERUNGSTIFT / 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		1.1/2	34-105	7 x 75	20
36579		36583			35-108		
36580		36584			7-114	7 x 105	28
36581		36585			75-125		35
73621		73622		3/4	24-30	6 x 30	10
73623		73624			32-50	6 x 40	
73625		73626		1	19-41	6 x 50	15
73627		73628			46-80	6 x 60	20



■ 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)	
79960	Cu-Be	79961	Al-Bron	370	1.3/8"	600
79962		79963		430	1.7/8"	950
79964		79965		550	2.7/16"	2700



■ LLAVE DE VÁLVULA TIPO "Q" CON MANGO / "Q" VALVE SPANNER WITH HANDLE / CLÉ POUR VALVE TYPE "Q" AVEC POIGNEE / "Q" TYP VENTILSCHLÜSSEL MIT GRIFF / CHIAVE A VALVOLA TIPO "Q" CON MANIGLIA / CHAVE DE VÁLVULAS TIPO "Q" COM CABO / КЛАПАННЫЙ КЛЮЧ ТИП "Q" С РУКОЙ

COD.	MAT.	COD.	MAT.	L (mm)	Ø x (inch)	
36950	Cu-Be	36951	Al-Bron	215	3"-7"	350
36952		36953		400	8"-15"	900
36954		36955		550	16"-20"	1900



■ 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 С-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	260

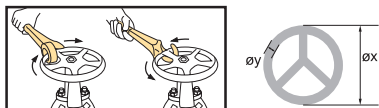


■ GANCHO GIRADOR DE VÁLVULAS / VALVE WHEEL HOOK / FIXATION GIRATOIRE DE VALVE / VENTILHAKEN / GANCIO GIREVOLE PER VALVOLE / GANCHO DE RODA VÁLVULAS / КЛЮЧ ДЛЯ ОТКРЫТИЯ КЛАПАНОВ

COD.	MAT.	COD.	MAT.	L (mm)		
72422	Cu-Be	72423	Al-Bron	200	30	250
72424		72425			32	500
72426		72427		300	35	350
72428		72429			40	450
72430		72431		350	45	550
72432		72433		375	48	600
72434		72435		400	50	650
72436		72437		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



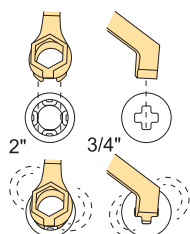
LLAVE DE VÁLVULA LARGA / LONG VALVE WRENCH / CLÉ POUR LONGUES VALVES / LANGER VENTIL-SCHLÜSSEL / CHIAVE LARGA PER VALVOLE / CHAVE DE VALVULA LONGA / КЛЮЧ ДЛЯ ОТКРЫТИЯ КЛАПАНОВ ДЛИННЫЙ



COD.	MAT.	COD.	MAT.	L (mm)	Ø x (inch)	Ø y (mm)	
71432	Cu-Be	71435	Al-Bron	210	3-7	< 36	400
71433		71436		400	8-15	< 48	900
71434		71437		490	16-20	< 60	1400
71441		71445		800			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 SPECIAL / ОТКРЫВАТЕЛЬ ПРОБОК С ГОЛОВКОЙ МУТИ

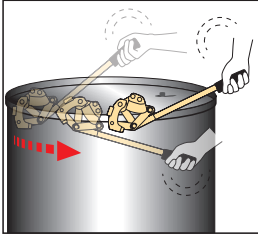
COD.	MAT.	COD.	MAT.	L (mm)	
36393	Cu-Be	76062	Al-Bron	260	850



COD.	MAT.	COD.	MAT.	L (mm)	
79817	Cu-Be	79818	Al-Bron	350	1100



■ **ABREBIDONES / DRUM OPENER / OUVRES BIDONS / FASSÖFFNER / APRITOIO A TAMBURO / ABRE BIDONS / ОТКРЫВАТЕЛЬ БОЧЕК**



COD.	MAT.	COD.	MAT.	L (mm)	Kg	
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)	g
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)	g
71392	Cu-Be	71409	Al-Bron	105	12 - 14	40
71393		71410		110	16 - 20	50
71394		71411		130	25 - 28	80
71395		71412		170	30 - 32	100
71396		71413			34 - 36	
71397		71414			40 - 42	
71398		71415		200	45 - 50	150
71399		71416			52 - 55	
71400		71417			58 - 62	
71401		71418		250	68 - 75	500
71402		71419		280	80 - 90	600
71403		71420		300	90 - 100	700
71405		71422		330	100 - 110	800
71406		71423			110 - 115	
71407		71424		340	120 - 130	900
71408		71425		350	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)	g
71426	Cu-Be	71429	Al-Bron	210	32-75	200
71427		71430		280	50-120	500
71428		71431		310	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)	Kg
70121	Cu-Be	71458	Al-Bron	8	1	0,3
70122		71459		10	1.1/2	0,8
70123		71460		12	2	1,3
70124		71461		14		1,7



Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Алюминий Бронза

COD.	MAT.	COD.	MAT.	L (inch)	CAP. (inch)	Kg
70125	Cu-Be	71462	Al-Bron	18	2.1/2	2,6
70126		71463		24	3	4,5
70127		71464		36	5	9,0
70128		71465		48	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)	Kg
36305	Cu-Be	36310	Al-Bron	8	34	0,5
36306		36311		10	48	0,8
36307		36312		12	50	1,1
36308		36313		15	60	1,9
36309		36314		18	76	2,6



■ **LLAVES SUECAS / SWEDISH PIPE WRENCHES / CLÉS SERRE-TUBES SUEDOISES / ECKROHRZANGE / GIRATUBI MOD. SVEDESE / CHAVES PARA TUBOS SUECAS / ТРУБНЫЕ ШВЕДСКИЕ КЛЮЧИ**

■ **LLAVE SUECA 45° / SWEDISH PIPE WRENCH 45° / SERRE-TUBES SUEDOISE 45° / ECKROHRZANGE 45° / GIRATUBI MOD. SVEDESE 45° / CHAVE SUECA 45° / ШВЕДСКИЙ КЛЮЧ S 45°**

COD.	MAT.	COD.	MAT.	CAP. (inch)	L (mm)	Kg
70129	Cu-Be	71466	Al-Bron	1.1/2	420	1,4
70130		71467		2	550	2,5
79821		79824		3	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 / VERSTELLBARE 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 / GURTROHRZANGE / GIRATUBI A NASTRO / CHAVE DE CORREIA / РЕМЕШКОВЫЙ 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			8	8,5
72982		72983		900	12	9,5
36626		36627		1600	18	17



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

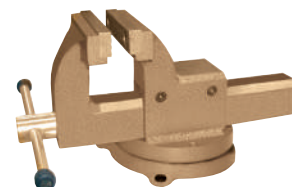


COD.	MAT.	COD.	MAT.	L (mm)	CAP. (inch)	H (mm)	Kg
74327	Cu-Be	74330	Al-Bron	740	4-6	280	12,3
74340		74343		860	8-12	465	21

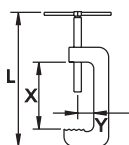


TORNILLO DE BANCO PARALELO / PARALLEL BENCH VICE / ÉTAU À MORS PARALLELES / PARALLELSCHRAUBSTÖCKE / Morsa da Banco Paralela / Torno de Bancada Paralelo / Слесарные Тиски

COD.	MAT.	COD.	MAT.	Inch	mm	Kg
70483	Cu-Be	71637	Al-Bron	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	g
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)	g
74250	Cu-Be	74251	Al-Bron	400	2200



DESTORNILLADORES / SCREWDRIVERS / TOURNEVIS / SCHRAUBENDREHER / CACCIAVITI / CHAVES DE FENDA / ОТВЕРТКИ

MECÁNICO / SLOTTED / MECANICIEN / WERSTATT / PER MECCANICI / MECÂNICO / ПЛОСКАЯ

COD.	MAT.	COD.	MAT.	mm	mm	mm	g
72258	Cu-Be	72279	Al-Bron	50	3	80	35
72259		72280			4,5		43
72260		72281			3		35
72261		72282		75	4	103	45
72262		72283			5		70



COD.	MAT.	COD.	MAT.				
72263	Cu-Be	72284	Al-Bron	100	4	82	45
72264		72285			5		75
72265		72286					85
72266		72287					100
72267		72288		125	6	112	110
72268		72289			7		125
72269		72290			8		140
72270		72291			9		165
72271		72292		200	10		185
72272		72293			11		230
72273		72294					260
72274		72295					240
72275		72296					290
72276		72297					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 / ELETTRICISTA / ЭЛЕКТРИЧЕСКАЯ

COD.	MAT.	COD.	MAT.				
74756	Cu-Be	74757	Al-Bron	50	2,5	84	36
71581		71588			3		50
76480		76481					70
71582		71589					80
71583		71590		100	4	75	100
72306		72308			5		200
72307		72309					100
74758		74759					100
71584		71591		150	5,5	115	200
75268		75269			6		300
71585		71592			7		
71586		71593			8		
71587		71594			10		



PHILLIPS®*

COD.	MAT.	COD.	MAT.				
72909	Cu-Be	72910	Al-Bron	PH-0	60	75	40
71595		71599			80		50
76486		76487		PH-1	100	105	70
71596		71600			125	115	100
76488		76489		PH-2	150	95	160
71597		71601			200	105	200
71598		71602		PH-3			



POZIDRIV®

COD.	MAT.	COD.	MAT.				
74336	Cu-Be	74337	Al-Bron	PZ-0	50	82	35
74347		74348		PZ-1	75		40
72247		72246		PZ-2	100		80
72249		72248		PZ-3	150	112	135
74365		74366		PZ-4	200		210



TORX®

COD.	MAT.	COD.	MAT.				
35714	Cu-Be	35715	Al-Bron	T 10	75	98	67
35716		35717		T 15			71
35718		35719		T 20			98
74367		74368		T 25	125		103
35720		35721		T 27	150	108	108
35722		35723		T 30			
35724		35725		T 40	200	120	160
35726		35727		T 45	250		180



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	100		98
74349		74350		TT 25	125		103
35706		35707		TT 27	150	108	108
35708		35709		TT 30			
35710		35711		TT 40	200	120	160
35712		35713		TT 45	250		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	100		95
73881		73882		8		110	100
73883		73884		10			140
73885		73886		13	110		180
73887		73888		16		120	220
73889		73890		17			230



- *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.)
 Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
- *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)

■ SET

■ 6 PCS.

COD.	MAT.	PCS.		
76465	Cu-Be	6	3 x 50 (72258), 4 x 100 (72263), 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), 5 x 100 (72285), 8 x 150 (72290)	PH-1 (71599), PH-2 (71600)



COD.	MAT.	PCS.		
76467	Cu-Be	6	3 x 50 (71581), 4 x 100 (71582), 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), 5 x 100 (72308), 8 x 150 (71592)	PH-1 (71599), PH-2 (71600)

■ 8 PCS.

COD.	MAT.	PCS.			
76469	Cu-Be	8	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)
76470	Al-Bron		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.			
76471	Cu-Be	8	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)
76472	Al-Bron		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 / CACCIIVITE A SQUADRA / CHAVE DE PARAFUSOS ANGULAR / КОЛЕНЧАТА ОТВЕРТКА**

COD.	MAT.	COD.	MAT.	L (mm)		
74301	Cu-Be	74302	Al-Bron	125	4	50
72462		72463		72	6	25
72464		72465		125	8	50
72466		72467		195	10	125



■ **PUNTAS DE DESTORNILLADOR / BITS / EMBOUTS DE VISSAGE / BITS / INSERTI / PONTAS / БИТЫ**

■ **HEXAGONAL / HEXAGONAL / HEXAGONALE / HEXAGONAL / HEXAGONAL / HEXAGONAL / ШЕСТИГРАННАЯ**

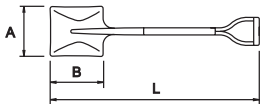
COD.	MAT.	COD.	MAT.		L (mm)		
37210	Cu-Be	37211	Al-Bron	1,5	25	1/4	3,0
37212		37213		2			
37214		37215		2,5			4,0
37216		37217		3			
37218		37219		4			5,0



N!

COD.	MAT.	COD.	MAT.		L (mm)		
37220	Cu-Be	37221	Al-Bron	5	25	1/4	6,0
37222		37223		6			7,0
37224		37225		8			0,9
37226		37227		10			13

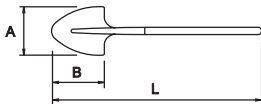
■ **PALAS Y RASTRILLOS / SHOVELS AND RAKES / PELLES ET RÂTEAUX / SCHAUFEL UND RECHEN / PALE E RASTRELLI / PÁS E ANSINHOS / ЛОПАТЫ И ГРАБЛИ**



COD.	MAT.	COD.	MAT.	L (mm)	A (mm)	B (mm)	
71615	Cu-Be	71616	Al-Bron	1350	240	290	1500



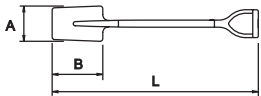
■ **PALA PUNTA / ROUND POINT SHOVEL / PELLE EN POINTE / SCHWANENHALSSCHAUFEL / PALA A PUNTA TONDA / PA DE BICO / САДОВАЯ ЛОПАТА**



COD.	MAT.	COD.	MAT.	L (mm)	A (mm)	B (mm)	
71617	Cu-Be	71618	Al-Bron	1350	240	290	1500



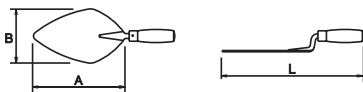
■ **PALA DE CAVAR / EDGING SPADE / PELLE BÊCHE / SCHAUFEL VIERECKING / PALA PER SCAVARE / PA DE VALAR / СОВКОВАЯ ЛОПАТА**



COD.	MAT.	COD.	MAT.	L (mm)	A (mm)	B (mm)	
71619	Cu-Be	71620	Al-Bron	1120	180	280	1500



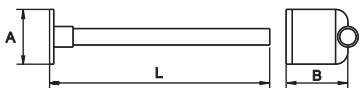
■ **PALETA / BRICKLAYER / SPATULE / MAUERKELLE / PALETTA / COLHER / МАСТЕРОК**



COD.	MAT.	COD.	MAT.	L (mm)	A (mm)	B (mm)	
73772	Cu-Be	73773	Al-Bron	335	210	130	650



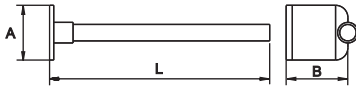
■ **AZADA / HOE / PIOCHE / HAUE / ZAPPA / ENXADA / МОТЫГА**



COD.	MAT.	COD.	MAT.	L (mm)	A (mm)	B (mm)	
74253	Cu-Be	74254	Al-Bron	900	130	130	1200
74255		74256			200	200	1800



Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза



COD.	MAT.	COD.	MAT.	L (mm)	A (mm)	B (mm)	
74252	Cu-Be	74249	Al-Bron	900	130	130	1000
36224		36225			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)	
74231	Cu-Be	74232	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)	
74234	Cu-Be	74235	Al-Bron	1225 x 200	2000
COD.	MAT.	COD.	MAT.	L x W (mm)	
74246	Cu-Be	74244	Al-Bron	900 x 200	2000



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Fibra de vidrio / Fiberglass / Fibre en verre

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



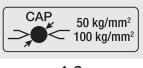
RASTRILLO / RAKE / RATEAU / RECHEN / RASTRELLO / ANSINHO / СКРЕБОК

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 / CISOIA TAGLIO DESTRO / TESOURA DE PASSAGEM LIVRE A DIREITA / НОЖНИЦЫ ПРАВОЙ РЕЗКИ

COD.	MAT.	COD.	MAT.	L (mm)	
70528	Cu-Be	70545	Al-Bron	280	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	Cu-Be	73895	Al-Bron	360	850



TIJERAS DE HOJALATERO / TIN SNIPS / CISEAUX DE TOLIER / BLECHSCHEREN / CISOIA PER LATTONNIERI / TESOURAS DE CHAPA / НОЖНИЦЫ ПО ЖЕСТИ

COD.	MAT.	COD.	MAT.	L (mm)	
72458	Cu-Be	72459	Al-Bron	300	450



ARCO DE SIERRA / HACK SAW / MONTURE DE SCIE À METAUX / METALLSÄGEN GEBOGEN / ARCHETTI / ARCO DE SERRA / НОЖОВКА

COD.	MAT.	COD.	MAT.	L (mm)	
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)		
72223	Cu-Be	300	18	35



SIERRA MANUAL / HANDSAW / SCIE À MAIN / HANDSÄGE / ARCO MANUALE / SERROTE MANUAL / НОЖОВКА

COD.	MAT.	COD.	MAT.	L (mm)	
72468	Cu-Be	72469	Al-Bron	370	125



SERRUCHO / HANDSAW / SCIE ÉGOÏNE / HANDSÄGE / SEGNETTO / SERROTE / НОЖОВКА

COD.	MAT.	COD.	MAT.	L (mm)	
74228	Cu-Be	74229	Al-Bron	700	550



CUCHILLOS / KNIVES / COUTEAUX / MESSER / COLTELLI / FACAS / НОЖИ

COD.	MAT.	COD.	MAT.	L (mm)	
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 / COUPEAU 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 / MÊCHES / BOHRER / PUNTE PER TRAPANO / BROCAS / СВЕРЛА

COD.	MAT.	O.D. mm	L (mm)	g
35567	Cu-Be	4	100	16
73632		6		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		470
73643		17	300	540
73644		18		650
73645		19	320	720
73646		20	330	820



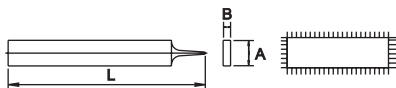
CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

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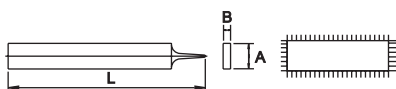
EGGA Master
ART IN INNOVATION

■ LIMAS / FILES / LIMES / FEILEN / LIMA / LIMAS / НАПИЛЬНИКИ

■ LIMA PLANA / HAND FILE / LIME PLATE / HANDFEILE / LIMA PIATTA / LIMA PARALELA / РУЧНОЙ НАПИЛЬНИК



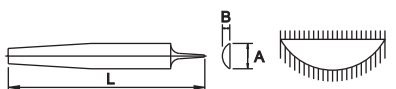
COD.	MAT.		L (mm)	A (mm)	B (mm)	
71607	Cu-Be	ENTREFINA / MEDIUM /	200	20	6	350
71608		DEMI-DOUCE	300	31	8	750



COD.	MAT.		L (mm)	A (mm)	B (mm)	
72237	Cu-Be	ENTREFINA / MEDIUM /	500	41	12	1800
		DEMI-DOUCE				



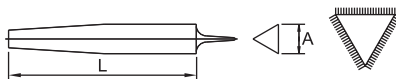
■ LIMAS MEDIA CAÑA / HALF ROUND FILES / LIMES DEMI-RONDES / HALBRUND FEILEN / LIMA MEZZATONDA / LIMAS MEIA CANA / ПОЛУКОУГЛЫЙ НАПИЛЬНИК



COD.	MAT.		L (mm)	A (mm)	B (mm)	
71603	Cu-Be	ENTREFINA / MEDIUM /	200	19	10	450
		DEMI-DOUCE				



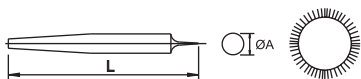
■ LIMA TRIANGULAR / TRIANGULAR FILES / LIMES TRIANGULAIRES / DREIKANTFEILEN / LIMA TRIANGOLARE / LIMA TRIANGULAR / ТРЕУГОЛЬНЫЕ НАПИЛЬНИКИ



COD.	MAT.		L (mm)	A (mm)	
35566	Cu-Be	ENTREFINA / MEDIUM /	200	12	115
		DEMI-DOUCE			



■ LIMA REDONDA / ROUND FILE / LIME RONDE / RUND FEILE / LIME TONDE / LIMATÃO REDONDO / КРУГЛЫЙ НАПИЛЬНИК



COD.	MAT.		L (mm)	Ø A (mm)	
71605	Cu-Be	ENTREFINA / MEDIUM /	200	9	450
		DEMI-DOUCE			



■ MISCELÁNEA / MISCELLANEOUS / DIVERS / VERSCHIEDENE / MISCELLANEA / MISTURA / РАЗНОЕ

■ CINCIL / FLAT CHISEL / CISEAU / MAURERMEISSEL / SCALPELLI / ESCOPRO / ПЛОСКОЕ ЗУБИЛО

COD.	MAT.	COD.	MAT.	L (mm)	g
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



■ CINCIL EN PUNTA / CROSS CUTTING CHISEL / BURIN / DURCHSCHLAGMEISSEL / SCALPELLI A PUNTA / PONTEIRO / ВЫРУБНОЕ ЗУБИЛО

COD.	MAT.	COD.	MAT.	L (mm)	g
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)	O.D. mm	g
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 HEXAGONALE / HEX MEISEL / SCALPELLO ESAGONALE TAGLIO A FREDDO / ESCOPRO HEXAGONAL / ШЕСТИГРАННОЕ ЗУБИЛО

COD.	MAT.	COD.	MAT.	L (mm)	AF mm	g
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



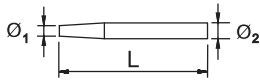
■ GRANETE / CENTRE PUNCH / POINTEAU / KÖRNER / PUNTE DA CENTRO / PUNÇÃO DE BICO / МЕТЧИК

COD.	MAT.	COD.	MAT.	L (mm)	g
71514	Cu-Be	71516	Al-Bron	100	60
71515		71517		150	80

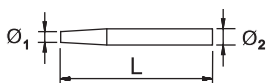


■ **BOTADORES CÓNICOS / TAPER PUNCHES / CHASSE CLOU / KÖRNER / PUNZONE CONICO / PUNÇÕES CÔNICOS / КОНИЧЕСКИЕ ПРОБОЙНИКИ**

■ **MM**



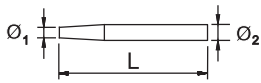
COD.	MAT.	COD.	MAT.	Ø 1 (mm)	Ø 2 (mm)	L (mm)		
70426	Cu-Be	71472	Al-Bron	2	10	60		
70427		71473		3				
70428		71474		4				
70429		71475		5				
70430		71476		6				
70431		71477		7	12			150
70432		71478		8				
70433		71479		9	14	200		
70434		71480		10				
70435		71481		11	16			
70436		71482		12				
70437		71483		13	18	300		
70438		71484		14				
70439		71485		15	20	400		
70440		71486		16				
70441		71487		17	22	500		
70442		71488		18				
70443		71489		19	24	800		
70444		71490		20				
70445		71491		21	26	250	900	
70446		71492		22				
76099		76100		23	28	1200		
76101		76102		24				
35756		76065		24	30	180	1100	
36542		36543		25				
76103		76104		25	26	250	1500	
76105		76106		26				
35757		76069		26	30	1300		
76107		76108		27				
35758		76071		28	32	1550		
35759		76098		30				
36544		36545		30	34	1800		
		35	200	2000				



COD.	MAT.	Ø 1 (mm)	Ø 2 (mm)	L (mm)	
36062	Latón / Brass / Laiton	2	10	150	100
36065		3			
36078		4			
36079		5			
36081		6	12		130
36088		8			170
36089		10			250
36182		12			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 / Latão / Латунь

INCH



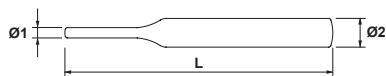
COD.	MAT.	COD.	MAT.	Ø 1 (inch)	Ø 2 (inch)	L (mm)	g
73583	Cu-Be	73572	Al-Bron	1/8			
73584		73573		3/16	3/8		
73585		73574		1/4		150	950
73586		73575		5/16	7/16		
73587		73576		3/8	17/32		
73588		73577		1/2	19/32		
73589		73578		5/8	3/4	200	
73590		73579		3/4	15/16	250	1000
73591		73580		7/8	1		



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	Cu-Be	71527	Al-Bron	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			
71523		71532		4	8	120	38
71524		71533		5	10	130	65
71525		71534		6	12	140	95
71526		71535		8	16		175
36546		36547		10		150	210
36211		36212			14		175
36213		36214		12			260
36548		36549			18	160	270
72637		76109		13		200	370



COD.	MAT.	Ø 1 (mm)	Ø 2 (mm)	L (mm)	g
36186	Latón / Brass / Laiton	2		110	20
36187		3	10		
36188		4		120	60
36189		5		130	
36194		6	12	140	150
36195		8			200
36196		10	14	150	230
36197		12			250

■ PUNTERO / DIAMOND POINT CHISEL / BURIN / KÖRNER / PUNTE / PUNÇÃO / ПРОБОЙНИК С АЛМАЗНЫМ НАКОНЕЧНИКОМ

COD.	MAT.	COD.	MAT.	L (mm)	AF mm	g
71544	Cu-Be	71548	Al-Bron	200	16	300
71545		71549		250	17	500
71546		71550		300	19	600
71547		71551		400	20	1000

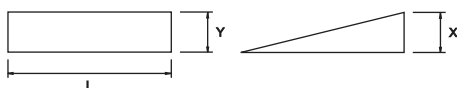


■ PUNTERO ESPECIAL / CAULKING TOOL / BURIN SPECIAL / KÖRNER LANG / PUNTE SPECIALI / PUNÇÃO ESPECIAL / МОТИРОВА

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	50	16
71556		71561		1200		18



■ CUÑA / WEDGE / COIN / KEIL / CUNEO / CUNHA / КЛИН



COD.	MAT.	COD.	MAT.	L (mm)	Y	X	
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		25	8-0
70455		71496			40	13-0	200
70456		71497				8-0	400
70457		71498				50	13-0
70458		71499		180	13	6-0	700
70459		71500			32	13-0	500
70460		71501			50	19-0	600
70461		71502		200	20	30-0	800
70377		36216			30	20-0	1300
70462		71503			40	30-0	500
70463		71504			50	40-0	800
70464		71505		230	40	12-0	1300
70465		71506				20-0	2100
70466		71507		250	50	30-0	2500
79934		79935				40-0	3100
70467		71508		300		50-0	
79936		79937					



■ CUÑA TIPO BANANA / BANANA WEDGES / COIN DE BANANE / BANANENKEIL / CUNEO DI BANANA / CUNHA TIPO BANANA / КЛИНЬЯ ТИПА БАНАН

COD.	MAT.	COD.	MAT.	L (mm)	Ø (mm)	g
37182	Cu-Be	37183	Al-Bron	280	20	550
37180		37181		320		650

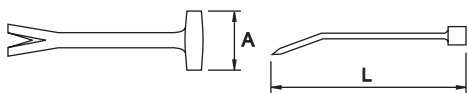


■ PALANCA / PINCHBAR / PINCE À TALON / BRECHSTANGE / LEVA / AVALANCA / МОИТРОВА

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		800	23	2,1
73849		73850			25	3,0
73851		73852		850	30	4,5
73853		73854			25	3,8
73855		73856		1000	28	4,5
73857		73858			30	5,5
73859		73860		1200	25	4,5
73861		73862			30	6,5
73863		73864		1500	30	8,5
73865		73866				

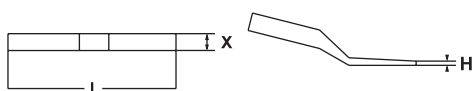


COD.	MAT.	COD.	MAT.	L (mm)	A (mm)	Kg
76545	Cu-Be	76546	Al-Bron	230	70	0,5

■ BARRA DE DESENCOFAR / 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 / МОТИРОВАКА

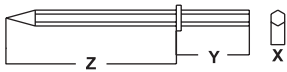


COD.	MAT.	COD.	MAT.	L (mm)	X	H (mm)	g
72601	Cu-Be	72602	Al-Bron	200	20	5	450
72603		72604		250		8	600

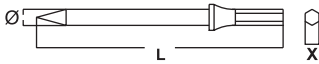
■ CINCELES NEUMÁTICOS / PNEUMATIC CHISELS / BURINS PNEUMATIQUES / PNEUMATISCHE MEISSEL / SCALPELLO PNEUMATICO / ESCOPROS PNEUMÁTICOS / ПНЕВМО ДОЛОТА



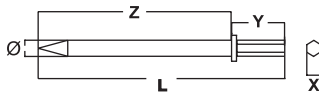
COD.	MAT.	COD.	MAT.	L (mm)	X	Y	g
36346	Cu-Be	36347	Al-Bron	440	22	75	1700



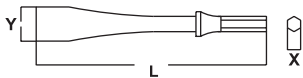
COD.	MAT.	COD.	MAT.	X	Y	Z	
76051	Cu-Be	76052	Al-Bron	19	60	270	850
35801		35796		22	80	150	750
36597		36599		24	150	350	1900
72583		72584		28			3200



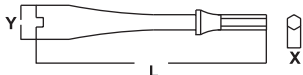
COD.	MAT.	COD.	MAT.	L (mm)	X		
72585	Cu-Be	72586	Al-Bron	125	10	12	120
72587		72588		175			170



COD.	MAT.	COD.	MAT.	L (mm)	X	Y	Z		
35790	Cu-Be	35791	Al-Bron	435	22	85	350	25	1700



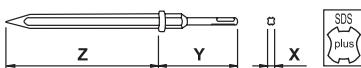
COD.	MAT.	COD.	MAT.	L (mm)	X	Y	
72589	Cu-Be	72590	Al-Bron	125	10	20	150
72591		72592		175			190
36958		36959		330	19	25	900



COD.	MAT.	COD.	MAT.	L (mm)	X	Y	
72593	Cu-Be	72594	Al-Bron	125	10	20	150
72595		72596		175			190

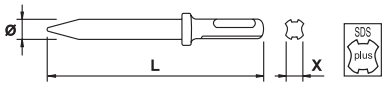


COD.	MAT.	COD.	MAT.	L (mm)	X	Y	
72597	Cu-Be	72598	Al-Bron	125	10	20	150
72599		72600		175			190

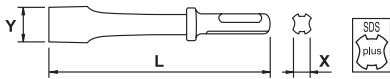


COD.	MAT.	COD.	MAT.	X	Y	Z	
35570	Cu-Be	35571	Al-Bron	10	150	350	3200

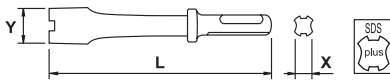




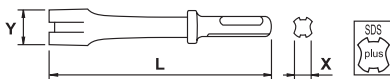
COD.	MAT.	COD.	MAT.	L (mm)	X	O.D. mm	g
35572	Cu-Be	35573	Al-Bron	125	10	12	120
35574		35575		175			170



COD.	MAT.	COD.	MAT.	L (mm)	X	Y	g
35576	Cu-Be	35577	Al-Bron	125	10	20	150
35578		35579		175			190



COD.	MAT.	COD.	MAT.	L (mm)	X	Y	g
35580	Cu-Be	35581	Al-Bron	125	10	20	150
35582		35583		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.		CAP. (kg)	
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)	
71562	Cu-Be	71566	Al-Bron	60 x 185	1,2
71563		71567		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)	
73759	Cu-Be	73760	Al-Bron	95 x 480	650



BMAT

COD.	MAT.	COD.	MAT.	L (mm)	
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



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Fibra de vidrio / Fiberglass / Fibre en verre

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

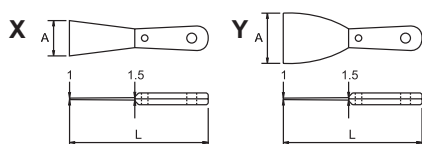


■ RASQUETA PLANA / FLAT SCRAPER / GRATTOIR PLAT / FLACHSCHABER / RASCHIETTO PIATTO / RASPADOR PLANO / ЛОСКИЙ СКРЕБОК

COD.	MAT.	COD.	MAT.	L (mm)	g
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



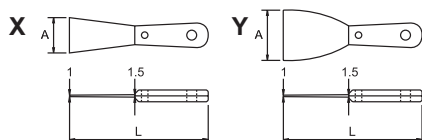
■ ESPÁTULA / SCRAPER / SPATULE / SPACHTEL / SPATOLA / ESPATULA / СКРЕБОК



COD.	MAT.	COD.	MAT.	Mod.	A (mm)	L (mm)	g
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



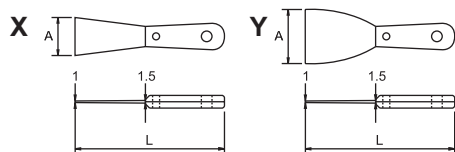
COD.	MAT.	COD.	MAT.	Mod.	A (mm)	L (mm)	g
70476	Cu-Be	71626	Al-Bron	Y	75	200	135
70477		71627			80		150
70478		71628			100		150
36787		36788			200		200



COD.	MAT.	COD.	MAT.	Mod.	A (mm)	L (mm)	g
36030	Cu-Be	36031	Al-Bron	X	25	200	100
36032		36033			30		110
36034		36035			40		120
36036		36037			50		130
36038		36039			60		140



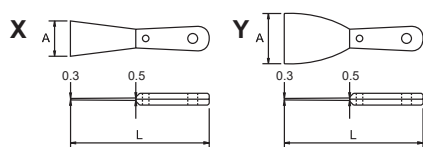
COD.	MAT.	COD.	MAT.	Mod.	A (mm)	L (mm)	g
36040	Cu-Be	36041	Al-Bron	Y	75	200	180
36042		36043			80		190
36044		36045			100		220
36938		36939			200		330



COD.	MAT.	Mod.	A (mm)	L (mm)	
36092	Latón / Brass / Laiton	Y	30	200	100
36093			60		130
36386			80		140



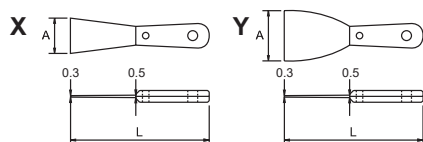
ESPÁTULA DE HOJA FLEXIBLE / FLEXIBLE BLADE SCRAPER / SPATULE À LÂME SOUPLE / SCHABER MIT FLEXIBLES BLATT / SPATOLA FLESSIBILE / ESPÁTULA DE FOLHA FLÉXIVEL / ШПАТЕЛЬ



COD.	MAT.	Mod.	A (mm)	L (mm)	
35730	Cu-Be	X	25	200	85
35732			30		95
35734			40		105
35736			50		115



COD.	MAT.	Mod.	A (mm)	L (mm)	
35740	Cu-Be	Y	75	200	135
35742			80		150
35744			100		

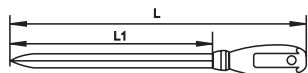


COD.	MAT.	Mod.	A (mm)	L (mm)	
36046	Cu-Be	X	25	200	100
36048			30		110
36050			40		120
36052			50		130
36054			60		140



COD.	MAT.	Mod.	A (mm)	L (mm)	
36056	Cu-Be	Y	75	200	180
36058			80		190
36060			100		220

RASQUETA TRIANGULAR / TRIANGULAR SCRAPER / GRATTOIR TRIANGULAIRE / DREIECKIGER SPACHTEL / 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

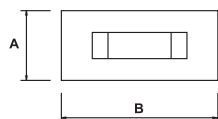


PICO Y RASQUETA / SCRAPER PICK AND SCALER / PIQUE ET RACLETTE / REINIGUNGSWERKZEUG / PICONE E RASCHIETTI / BICO E PÁ / СКАЛЫВАЮЩИЙ СКРЕБОК

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.	CAP. L	O.D. mm	H (mm)	g
72486	Cu	14	270	250	1500

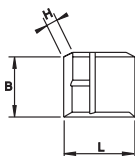


CUCHARA RECOGEDORA DE AZÚCAR / SUGAR SCOOP / CUILLÈRE À SUCRE / SCHÖPFSCHAUFEL / RACCOGLITORE DI ZUCCHERI / COLHER PARA AÇÚCAR / КОВШ

COD.	MAT.	L (mm)	Ø 1 (mm)	Ø 2 (mm)	H (mm)	H1 (mm)	g
74620	Cu-Be	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	50	200	335
74623		270		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**

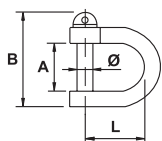
COD.	MAT.	L (mm)		
74245	Cu-Be	350	85	200
76043		600		440



■ **PLOMADA / LINER / PLOMB / SCHLAGSCHNURROLLER / GESSO TRACCIATORE / LINHAS DE TRAÇAR / ОТБЕЖ**

COD.	MAT.	COD.	MAT.	L (mm)		
72454	Cu-Be	72455	Al-Bron	60	50	250



GRILLETE / SHACKLE / MANILLE / SCHÄKEL / GRILLI / MANILHA / РЫМ


COD.	MAT.	COD.	MAT.	CAP. (kg)	L (mm)	A (mm)	B (mm)	Ø (mm)	g
73429	Cu-Be	73424	Al-Bron	1200	40	30	60	10	170

CE


CEPILLOS / BRUSHES / BROSSES / STAHLBÜRSTEN / SPAZZOLE / ESCOVAS / ЩЕТКИ

COD.	MAT.	N.º filas / Rows / Rangées	L (mm)	g
70479	Latón / Brass / Laiton	3	280	170
70480		4		200
70481		5		220



COD.	MAT.	N.º filas / Rows / Rangées	L (mm)	g
71632	Latón / Brass / Laiton	5	180	200



COD.	MAT.	N.º filas / Rows / Rangées	L (mm)	g
72739	Latón / Brass / Laiton	3	350	150



COD.	MAT.	N.º filas / Rows / Rangées	L (mm)	g
73419	Latón / Brass / Laiton	6	215	60
72526		4	290	170



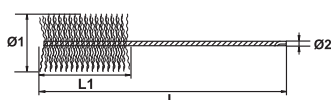
COD.	MAT.	N.º filas / Rows / Rangées	L (mm)	g
61581	Latón / Brass / Laiton	4	280	120



COD.	MAT.	N.º filas / Rows / Rangées	L (mm)	g
72991	Latón / Brass / Laiton	3	200	150



COD.	MAT.	I.D. (mm)	O.D. (mm)	g
71634	Latón / Brass / Laiton	22	150	700
73426		32	200	1000



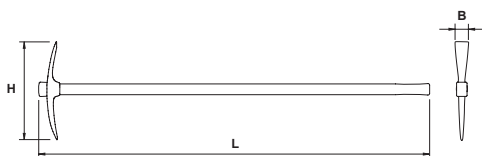
COD.	MAT.	L (mm)	L1 (mm)	Ø 1 (mm)	Ø 2 (mm)	g
79226	Latón / Brass / Laiton	320	100	82	6,6	55


CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Cerdas antiestáticas / Antistatic bristles / Broses antistatiques

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 / Alluminio bronz / Сплав Алюминий Бронза
Lat/Brass Latón / Brass / Laiton / Messing / Ottone / Latão / Латунь

■ PICOS / PICKS / PIOCHES / MAURER HAMMERS / PICCONI / PICADEIRA / КИРКИ



COD.	MAT.	COD.	MAT.	L (mm)	H (mm)	B (mm)	Kg
72143	Cu-Be	72147	Al-Bron	1050	360	53	1,1
72144		72148			385	55	1,7
72145		72149			410	56	2,0
72146		72150			470	56	2,5



COD.	MAT.	COD.	MAT.	L (mm)	H (mm)	B (mm)	Kg
37045	Cu-Be	37048	Al-Bron	910	360	50	1,1
37046		37049			385	54	1,7
37047		37050			410	56	2,0
36220		36221			470	56	2,5



■ HACHA / AXE / HACHE / AXTE / ASCIA / MACHADO / ТОПОР

COD.	MAT.	COD.	MAT.	L (mm)	H (mm)	B (mm)	g
72153	Cu-Be	72154	Al-Bron	340	200	82	950

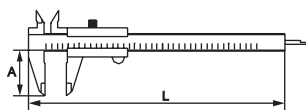


■ HACHA BOMBERO / FIREMAN TYPE AXE / HACHE POUR POMPIERS / FEUERWEHRAXT / ASCIA TIPO PER POMPIERI / MACHADO DE BOMBEIRO / ТОПОР ПОЖАРНОГО ТИПА

COD.	MAT.	COD.	MAT.	L (mm)	A (mm)	B (mm)	Kg
72151	Cu-Be	72152	Al-Bron	340	145	98	1,3



■ CALIBRES / CALIPERS / PIEDS À COULISSE / WERKSTATTMESSSCHIEBERS / CALIBRI / PAQUÍMETROS / ШТАНГЕНЦИРКУЛИ



COD.	MAT.	L (mm)	mm	A (mm)	L (mm)	g
73730	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)	g
70488	Cu-Be	71743	Al-Bron	280	200
70489		71744		310	500
70490		71745		340	700
70491		71746		350	900
36068		36069		350	1100



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Fibra de vidrio / Fiberglass / Fibre en verre

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berílio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий 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 / Brass / Laiton	72788	Cu	280	230
72783		72789		310	340
72784		72790		340	450
72785		72791		350	680
72786		72792		350	910
72787		72793		400	1130



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Fibra de vidrio / Fiberglass / Fibre en verre

COD.	MAT.	COD.	MAT.	L (mm)	g
36001	Latón / Brass / Laiton	36007	Cu	300	230
36002		36008		300	340
36003		36009		300	450
36004		36010		325	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 / SCHLOSSER HAMMER / MECCANICO CON PENNA / MECÂNICO DE PENA / МОЛОТОК С ШАРОВОЙ ГОЛОВКОЙ

COD.	MAT.	COD.	MAT.	L (mm)	g
70492	Cu-Be	71747	Al-Bron	350	500
70493		71748		350	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		380	900



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Madera de nogal / Hickory wood / Bois de noyer

MARTILLO ALEMÁN / GERMAN TYPE MACHINIST'S HAMMER / MARTEAU DE MECANICIEN / SCHLOSSER HAMMER / MARTELO TEDESCO / MARTELO TIPO ALEMÃO / СПЕШАРНЫЙ МОЛОТОК НЕМЕЦКОГО ТИПА

COD.	MAT.	COD.	MAT.	L (mm)	g
70494	Cu-Be	71749	Al-Bron	300	100
70495		71750		300	200
70496		71751		300	300
70497		71752		300	500
70498		71753		300	800



Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза
Lat/Brass Latón / Brass / Laiton / Messing / Ottone / Latão / Латунь
Cu Cobre / Copper / Cuivre / Kupfer / Rame / Cobre / Медь

COD.	MAT.	COD.	MAT.	L (mm)	g
70499	Cu-Be	71754	Al-Bron	340	1000
70500		71755		400	1500
70501		71756			2000

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Fibra de vidrio / Fiberglass / Fibre en verre

COD.	MAT.	COD.	MAT.	L (mm)	g
35945	Cu-Be	35953	Al-Bron	300	100
35946		35954			200
35947		35955			300
35948		35956			500
35949		35957			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	Cu-Be	36028	Al-Bron	370	0,5
70502		71757			1,0
70503		71758			1,5
70504		71759			2,0
70505		71760			2,5
70506		71761		900	3,0
70507		71762			4,5
70508		71763			5,0
70509		71764			6,8
70510		71765			8,0
72213		72211			10
72975		72974			12
36956		36957			15



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Fibra de vidrio / Fiberglass / Fibre en verre

COD.	MAT.	COD.	MAT.	L (mm)	Kg
36184	Cu-Be	36185	Al-Bron	370	0,5
35865		35882			1,0
35866		35883			1,5
35867		35884			2,0
35868		35885		900	2,5
35869		35886			3,0
35870		35887			4,5
35871		35888			5,0
35872		35889			6,8
35873		35890			8,0
35874		35891			10
35875		35892			12
36960		36961			15



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Madera de nogal / Hickory wood / Bois de noyer

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronce / Алюминий Бронза

COD.	MAT.	COD.	MAT.	L (mm)	lb
79930	Cu-Be	79931	Al-Bron	380	2,0
35762		35763			3,0
35764		35765			5,0
35766		35767		840	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			5,0
35878		35895		840	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			4000
35972		800	5000
35973			7000
35974		900	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 Алюминий Бронза
Lat/Brass Latón / Brass / Laiton / Messing / Ottone / Latão / Латунь

COD.	MAT.	L (mm)	
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)	
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)	
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)	
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

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Aluminio bronze / Алюминий Бронза
Cu Cobre / Copper / Cuivre / Kupfer / Rame / Cobre / Медь

MAZA CUADRA 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 / Brass / Laiton	72773	Cu	350	500
72765		72774			1000
72766		72775		400	1500
72767		72776			1800
72768		72777			2000
72769		72778			2700
72770		72779		900	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 / Brass / Laiton	35992	Cu	310	500
35984		35993		320	1000
35985		35994		360	1500
35986		35995			1800
35987		35996		380	2000
35988		35997			2700
35989		35998		700	3600
35990		35999		800	4000
35991		36000		900	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		355	400
70520		71775			600
70521		71776		400	900



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Fibra de vidrio / Fiberglass / Fibre en verre

Cu-Be	Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron	Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Alumínio bronze / Аллюминий Бронза
Lat/Brass	Latón / Brass / Laiton / Messing / Ottone / Latão / Латунь
Cu	Cobre / Copper / Cuivre / Kupfer / Rame / Cobre / Медь

COD.	MAT.	COD.	MAT.	L (mm)	g
35911	Cu-Be	35915	Al-Bron	280	200
35912		35916		355	400
35913		35917			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)	Kg
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)	Kg
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)	g
70523	Cu-Be	71778	Al-Bron	340	700
70524		71779			800



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Fibra de vidrio / Fiberglass / Fibre en verre

COD.	MAT.	COD.	MAT.	L (mm)	g
35921	Cu-Be	35923	Al-Bron	340	700
35922		35924			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)	g
70525	Cu-Be	71780	Al-Bron	325	500
70526		71781			700



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Fibra de vidrio / Fiberglass / Fibre en verre

COD.	MAT.	L (mm)	g
36027	Latón / Brass / Laiton	275	500

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 bronce / Aluminium bronze / Alliage aluminium-bronze / Alliage aluminium-bronze / Aluminium brons / Aluminio bronz / Сплав Алюминий Бронза
Lat/Brass Latón / Brass / Laiton / Messing / Ottone / Latão / Латунь

COD.	MAT.	COD.	MAT.	L (mm)	g
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)	O.D. mm	g
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)	O.D. mm	g
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)	g
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 / LEICHTMETALLHAMMER / MAZZA TIPO A TAMBORO / MAÇO DE COBRE / БОЧКООБРАЗНЫЙ МОЛОТОК

COD.	MAT.	L (mm)	g
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

COD.	MAT.	L (mm)	Lb
72695	Cu	280	1/2



CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Madera de nogal / Hickory wood / Bois de noyer

Cu-Be Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron Aluminio bronce / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Alluminio bronzo / Aluminio bronze / Алюминий Бронза
Cu Cobre / Copper / Cuivre / Kupfer / Rame / Cobre / Медь

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	Latón / Brass / Laiton	330	205
72795		350	370

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Fibra de vidrio / Fiberglass / Fibre en verre

COD.	MAT.	L (mm)	
36013	Latón / Brass / Laiton	330	205
36014		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)	
72796	Latón / Brass / Laiton	900	4500
72797			5400
72798			7650

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Fibra de vidrio / Fiberglass / Fibre en verre

COD.	MAT.	L (mm)	
36015	Latón / Brass / Laiton	800	4500
36016			5400
36017			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)	
72799	Cu	350	1350

CARACTERÍSTICAS / FEATURES / CARACTÉRISTIQUES

Fibra de vidrio / Fiberglass / Fibre en verre

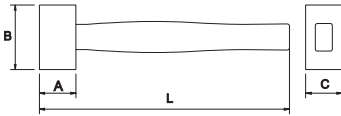
COD.	MAT.	L (mm)	
36018	Cu	350	1350

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.	O.D. mm	L (mm)	A (mm)	B (mm)	C (mm)	g		
69728	Cu	30	240	26	77	29	500	6	
69729		35	260	36	88	39	1000	4	●
69730		40	280	41	99	43	1500		



■ YUNQUE / ANVIL BLOCK / ENCLUME / AMBOSSBLOCK / INCUDINE / BIGORNA / БЛОК НАОВАЛЬНИ

COD.	MAT.	COD.	MAT.	Kg
73734	Cu-Be	73735	Al-Bron	3
73736		73737		5
73738		73739		16



■ REGLAS SEMI-FLEXIBLES / SEMI-FLEXIBLE RULERS / RÈGLES SEMI-FLEXIBLE / RIGA SEMIFLESSIBILE / RÉGUA SEMI-FLÉXIVEL / ПОЛУГИБКИЕ ПРАВИЛА

■ GRADUACIÓN EN MILÍMETROS / MILIMETRIC GRADUATION / GRADUATION EN MILLIMÈTRE / MM-TEILUNGEN / GRADUAZIONE IN MILLIMETRI / GRADUAÇÃO EM MILIMETROS / МЕТРИЧЕСКАЯ ШКАЛА

COD.	MAT.	COD.	MAT.	L x W (mm)	mm	g	
37059	Cu-Be	37060	Al-Bron	150 x 13	1,0	40	6



■ GALGAS / GAUGES / JAUGES / FÜHLERLEHRE / GALGAS / GALGAS / ЩУПЫ

■ GALGAS DE ESPESORES / FEELER GAUGE / JAUGES D'ÉPAISSEUR / FÜHLERLEHREFÄCHER / GALGAS DE ESPESORES / APALPA-FOLGAS / НАБОР ЩУПОВ В КОРПУСЕ

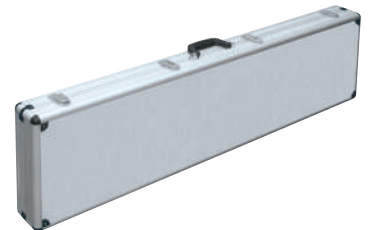
COD.	MAT.	N.º Hojas / No. Blades / Nro. Lames	Rango (mm) / Range (mm) / Rang (mm)	Rango (inch) / Range (inch) / Rang (inch)	L (mm)	g	
37153	Latón / Brass / Laiton	13	0,05-0,1-0,15-0,2-0,25-0,3- 0,4-0,5-0,6-0,7-0,8-0,9-1,00	0,002"-0,004"-0,006"-0,008"-0,010"- 0,012"-0,016"-0,020"-0,024"-0,028"- 0,032"-0,036"-0,04"	100	70	6



■ MALETA DE ALUMINIO PORTAHERRAMIENTAS / ALUMINIUM TOOL CASE / MALLETTE PORTE-OUTILS EN ALUMINIUM / ALUMINIUMKOFFER ZUM ROLLEN / VALIGIA PORTAUTENSILI IN ALLUMINO / MALA DE ALUMINIO PORTAFERRAMENTAS / АЛЮМИНИЕВЫЙ ИНСТРУМЕНТАЛЬНЫЙ КЕЙС

COD.	Kg	Kg-MAX
51055	7,5	18

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES	
Exterior L x W x H (mm) / External L x W x H (mm) / Extérieures L x W x H (mm)	1350 x 360 x 115
Interior L x W x H (mm) / Internal L x W x H (mm) / Intérieures L x W x H (mm)	1330 x 340 x 95
Cerradura con llave / Key lock / Serrure avec clé	●
Con cierres en zamak / Zinc alloy lockers / Casiers en alliage de zinc	●



Cu-Be	Cobre berilio / Beryllium copper / Cuivre béryllium / Beryllium-Kupfer / Rame berillio / Cobre berilio / Медь Бериллий
Al-Bron	Aluminio bronze / Aluminium bronze / Alliage aluminium-bronze / Aluminium-Bronze / Aluminio bronzo / Alumínio bronze / Алюминий Бронза
Lat/Brass	Latón / Brass / Laiton / Messing / Ottone / Latão / Латунь
Cu	Cobre / Copper / Cuivre / Kupfer / Rame / Cobre / Медь

COD.		
51056	3,6	13

ESPECIFICACIONES TÉCNICAS / TECHNICAL SPECIFICATION / DÉTAILS TECHNIQUES

Exterior L x W x H (mm) / External L x W x H (mm) / Extérieures L x W x H (mm)	520 x 330 x 150
Interior L x W x H (mm) / Internal L x W x H (mm) / Intérieures L x W x H (mm)	500 x 310 x 90
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	
74386	8	51054	Cu-Be	mm	7,5
74387			Al-Bron		

PCS.	Cu-Be	Al-Bron	Descripción / Description / Description
1	70474	71624	50 x 200 mm
	70478	71628	Espátula / Scraper 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



15 PCS.

COD.	PCS.		MAT.	Medidas en / Sizes in / Mesures en	
74382	15	50995	Cu-Be	mm	10
74383			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			12"
	72452	72453	Llave taponadora universal / Multi-head bung wrench		-
1	70102	70532	Alicate universal / Combination pliers		200 mm
	70106	70536	Alicate 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®		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 / Mesures en	
74896	16	50995	Cu-Be	mm	10
74897			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			
	72452	72453	Llave taponadora universal / Multi-head bung wrench -		
	70102	70532	Alicate universal / Combination pliers		
	70106	70536	Alicate telefonista / Long nose plier 200 mm		
1	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 -		



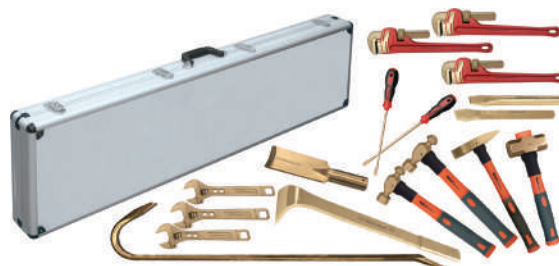
■ 17 PCS.

■ MM

COD.	PCS.		MAT.	Medidas en / Mesures en	
74388	17	50994	Cu-Be	mm	3,6
74389			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		
	70100	70530	Alicate universal / Combination pliers		
	70115	70547	Pinza boca fina / Neat tip tweezer		
	73903	73904	Pelacables / Wirestripper		
	71448	71451	Llaves ajustables / Adjustable wrenches		
	72260	72281	3 x 75 mm		
1	72263	72284	Destornillador mecánico / Slotted screwdriver		
	72267	72288	4 x 100 mm		
	72909	72910	6 x 150 mm		
	71595	71599	Destornillador Phillips® / Phillips® screwdriver		
	70410	71354	PH0		
	70411	71355	PH1		
	70412	71356	3 mm		
	70413	71614	Llave hexagonal de bola / Ballpoint hexagonal keys		
	70529	70546	4 mm		
			5 mm		
			Cuchillos / Knives		
			250 mm		
			Tijeras / Scissors		
			225 mm		

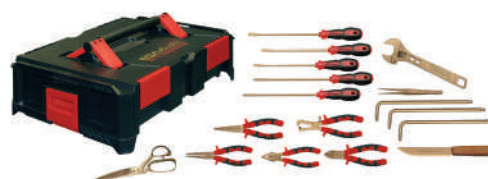


COD.	PCS.		MAT.	Medidas en / Sizes in / Mesures en	
74390	17	51055	Cu-Be	mm	23
74391			Al-Bron		
PCS.	Cu-Be	Al-Bron	Descripción / Description / Description		
	71576	71577	Barra de desencofrar / Wrecking bar		19 x 900 mm
	70118	71453			10"
	70119	71454	Llaves ajustables / Adjustable wrenches		12"
	70120	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	Cortafíos hexagonal / Hexagonal chisel		18 x 160 mm
	73798	73799	Cortafíos cilíndrico / Cylindrical chisel		24 x 250 mm
	70121	71458			8"
	70122	71459	Llave Heavy Duty / Heavy Duty pipe wrench		10"
	70124	71461			14"



INCH

COD.	PCS.		MAT.	Medidas en / Mesures en	
36791	17	50994	Cu-Be	inch	3,6
36792			Al-Bron		
PCS.	Cu-Be	Al-Bron	Descripción / Description / Description		
	70104	70534	Alicate boca redonda / Round nose plier		160 mm
	70103	70533	Alicate boca plana / Flat nose plier		
	70107	70537	Alicate corte diagonal / Diagonal cutting plier		
	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
	36264	36265			1/8 "
	36266	36267	Llave hexagonal de bola / Ballpoint hexagonal keys		5/32 "
	36268	36269			3/16 "
	71613	71614	Cuchillos / Knives		250 mm
	70529	70546	Tijeras / Scissors		225 mm



■ 20 PCS.

■ MM

COD.	PCS.		MAT.	Medidas en / Sizes in / Mesures en	
74380	20	50994	Cu-Be	mm	8
74381			Al-Bron		
PCS.	Cu-Be	Al-Bron	Descripción / Description / Description		
1	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
	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"
	70102	70532	Alicate universal / Combination pliers		200 mm
	70106	70536	Alicate telefonista / Long nose plier		
	70526	71781	Martillo de uña / Claw hammer		338 mm
	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"	



■ INCH

COD.	PCS.		MAT.	Medidas en / Sizes in / Mesures en	
36793	20	50994	Cu-Be	inch	8
36794			Al-Bron		
PCS.	Cu-Be	Al-Bron	Descripción / Description / Description		
1	70124	71461	Llave Heavy Duty / Heavy Duty pipe wrench		14"
	70729	70755			7/16"
	70730	70756			1/2"
	70731	70757			9/16"
	75307	75308			19/32"
	70732	70758	Llaves combinadas / Combination wrenches		5/8"
	70733	70759			11/16"
	70734	70760			3/4"
	70736	70762			7/8"
	71596	71600	Destornillador Phillips® / Phillips® screwdriver		PH2
	71585	71592	Destornillador electricista / Electrician screwdriver		8 x 150
	70118	71453	Llaves ajustables / Adjustable wrenches		10"
	70102	70532	Alicate universal / Combination pliers		200 mm
	70106	70536	Alicate telefonista / Long nose plier		
	70526	71781	Martillo de uña / Claw hammer		338 mm
	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.

■ MM

COD.	PCS.		MAT.	Medidas en / Sizes in / Mesures en	
74384	37	50995	Cu-Be	mm	13
74385			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	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			5 x 100 mm
71585	71592		Destornillador electricista / Electrician screwdriver	8 x 150 mm
71595	71599			PH1
71597	71601		Destornillador Phillips® / Phillips® screwdriver	PH3
73796	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



■ INCH

COD.	PCS.		MAT.	Medidas en / Sizes in / Mesures en	 Kg
36795	37	50995	Cu-Be	inch	13
36796			Al-Bron		

PCS.	Cu-Be	Al-Bron	Descripción / Description / Description		
	70729	70755			
	70730	70756			
	70731	70757			
	75307	75308			
	70732	70758	Llaves combinadas / Combination wrenches	5/8"	
	70733	70759		11/16"	
	70734	70760		3/4"	
	70735	70761		3/16"	
	70736	70762		7/8"	
	70738	70764		1"	
	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	
	72933	72932	Llave hexagonal / Hex pipe wrench	5/64"	
	71306	71330		1/8"	
	71308	71332		5/32"	
	71309	71333		3/16"	
1	71310	71334		7/32"	
	75543	71335		11/32"	
	71314	71338		7/16"	
	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	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	
	73584	73573	Botador 5,	1", 250 x 26 mm	
	73587	73576	Botador / Pin punch	3/8", 150 x 17/32"	
	70529	70546	Tijeras / Scissors	225 mm	



■ 38 PCS.

■ MM

COD.	PCS.		MAT.	Medidas en / Sizes in / 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		Llaves combinadas / Combination wrenches	14 mm	
70179	70691			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			10"	
70119	71454		Llaves ajustables / Adjustable wrenches	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			5 x 100 mm	
71585	71592		Destornillador electricista / Electrician screwdriver	8 x 150 mm	
71595	71599			PH1	
71597	71601		Destornillador Phillips® / Phillips® screwdriver	PH3	
71596	73797		Cortafrio cilíndrico / Cylindrical chisel	20 x 200 mm	
73780	73781		Cíncel 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	
76533	76533		Linterna LED MasterEx / MasterEx LED torch	-	



INCH

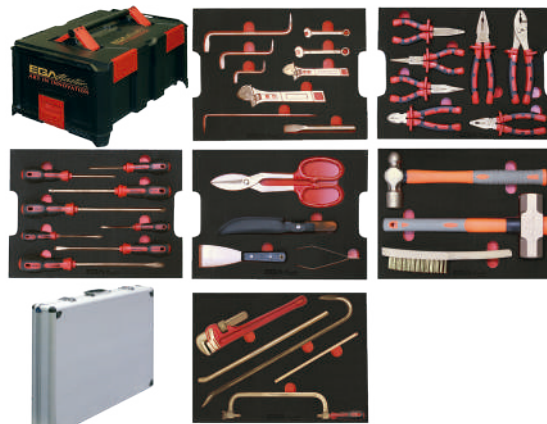
COD.	PCS.		MAT.	Medidas en / Sizes in / Mesures en		
36797	38	50995	Cu-Be	inch	13	
36798			Al-Bron			
PCS.	Cu-Be	Al-Bron	Descripción / Description / Description			
1	70729	70755	7/16"			
	70730	70756	1/2"			
	70731	70757	9/16"			
	75307	75308	19/32"			
	70732	70758	Llaves combinadas / Combination wrenches	5/8"		
	70733	70759		11/16"		
	70734	70760		3/4"		
	70735	70761		3/16"		
	70736	70762		7/8"		
	70738	70764	1"			
	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		
	72933	72932	Llave hexagonal / Hex pipe wrench	5/64"		
	71306	71330		1/8"		
	71308	71332		5/32"		
	71309	71333		3/16"		
	71310	71334		7/32"		
	75543	71335	Alicate universal / Combination pliers	11/32"		
	71314	71338		7/16"		
	70102	70532		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	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		
	73584	73573	Botador 5,	1", 250 x 26 mm		
	73587	73576	Botador / Pin punch	3/8", 150 x 17/32"		
	70529	70546	Tijeras / Scissors	225 mm		
	76533	76533	Linterna LED MasterEx			



KIT DE EXTRACCION 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	Kg 
59160	36	50996, 51054	Cu-Be	mm	23
PCS.	Composición / Composition / Composition		Descripción / Description / Description		
	74222		Agujas de trazar / Scribers		
	70100		Alicate universal / Combination plier		
	70102		Alicate boca plana / Flat nose plier		
	70103		Alicate boca redonda / Round nose plier		
	70104		Alicate telefonista / Long nose plier		
	70105		Alicate corte diagonal / Diagonal cutting plier		
	70107		Alicates tipo Ford / Slip joint pliers		
	70114		Arcos de sierra / Hack saws		
	72220		Barras de desencofrar / Wrecking bars		
	71574		Cepillos / Brushes		
	70481		Cortafíos / Chisels		
	73790		Cuchillos / Knives		
	71613		Destornilladores acodados / Offset screwdrivers		
	72462		Destornilladores mecánicos / Slotted screwdrivers		
	72464		Destornilladores Phillips® / Phillips screwdriver®		
	72466		Espátulas / Scrapers		
	72260		Hojas de sierra / Saw blades		
	72263		Llaves ajustables / Adjustable wrenches		
	72267		Llaves combinadas / Combination wrenches		
	72270		Llaves heavy duty / Heavy duty wrenches		
	71595		Martillos de bola / Ball pein hammers		
	71596		Macetas octogonales / Sledge hammers		
	71597		Palancas / Pinchbars		
	71598		Pinzas / Tweezers		
	70474		Tijeras / Tin snips		
	72223				
	70117				
	71448				
	70172				
	70174				
	70125				
	70491				
	70504				
	73839				
	70115				
	72458				



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 / VERSTELLBARE WASSERPUMPZANGE / POLIGRIP / ALICATE BICO DE PAPAGAIO / КЛЕЩИ ПЕРСТАВНЫЕ ЖЕЛОБКОВЫЕ

COD.	L (inch)	g
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)	g
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)	O.D. inch	g
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 LUNETAS / КОМБИНИРОВАННЫЕ КЛЮЧИ

MM

COD.	AP mm	L (mm)	g
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		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 / POLYGONALE À FRAPPER / SCHLAG RINGSCHLÜSSEL / POLIGONALE AD IMPULSO / LUNETAS 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

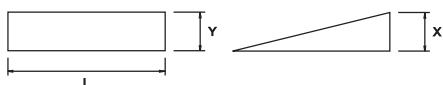
■ MM

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	45	65
72864	10	110	45	90
72865	11	119	48	125
72866	12	130	52	160

ACETILEX



■ 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 / CACCIATIVITI / CHAVES DE FENDA / ОТВЕРТКИ

■ ELECTRICISTA / ELECTRICIAN / ELECTRICIEN / ELEKTRIKER / PER ELETTRICISTI / ELETTRICISTA / ЭЛЕКТРИЧЕСКАЯ

COD.	mm	mm	mm	g
72825	50	3	85	41
72826		4		50
72827	100	5	105	105
72828		6		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)	g
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)	g
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)	g
72850	280	400

ACETILEX



The ExxonMobil logo is displayed in red. The word "Exxon" is in a bold, sans-serif font, and "Mobil" is in a slightly lighter, sans-serif font. The background of the entire page is a photograph of an offshore oil rig at sunset, with a large white diagonal shape on the left side where the text is placed.

ExxonMobil

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."