

NON-MAGNETIC TITANIUM TOOLS



EGA Master Titanium Tools have been developed with the help of the most advanced technology. They are manufactured with Titanium alloy, 6Al-4V, which has been used in the most innovative and advanced fields, such as aviation, military and aerospace applications. Its properties make this alloy the best one among the current existing ones for special and critical applications that require high mechanical properties, combined together with features that no other steel alloy tool can reach, like Non-Magnetism.

Many applications require the use of totally non-magnetic tools in order to avoid any magnetic disturbance, such as very sensitive electronic devices used in laboratories, hospitals, power plants, etc.



TECHNICAL SPECIFICATIONS

| MAT: Ti 6Al-4V | | |
|---------------------|----------|-----------|
| Composition | V | 3,5%-4,5% |
| | Al | 5,5%-6,8% |
| | Others | <1% |
| Hardness | 30-40HRC | |
| Melting Temperature | 1650°C | |
| Tensile Strength | 993N/mm2 | |

PROPERTIES & APPLICATIONS

- 100% non-magnetic safety:** Essential for equipments that require complete non-magnetic safety, avoiding magnetic disturbance.
- Rustproof (more than stainless steel):** Specially well suited for applications in corrosive environments like the ones encountered in marine works or fire-fighting applications.
- Extremely Acid Resistant:** Perfect for Chemical Industry, long lasting tools.
- Hypoallergenic:** Also appropriate for the daily increasing allergies to materials such as Ni, the most frequent allergy, present on most of the steel alloys.
- 45% lighter than steel:** Avoids modern and frequent injuries caused by repetitive load movements, such as tendinitis or bursitis.

MAIN APPLIATION FIELDS

| NON-MAGNETIC PROPERTY | RUSTPROOF AND ACID RESISTANT PROPERTIES |
|---|---|
| Navy | Outdoor works |
| Electronic and Electric device repairing services | Dock constructions |
| Electronic and Electric device manufacturers | Scuba Diving applications |
| Power stations | Chemical Industry |
| Defence | Fire-fighters |
| Air Forces | Water De-sallination Installations |
| Weapon fabrication | Defence |
| Railway works | Air Force |
| Telecommunication | Navy |
| Aerospace applications | Pharmaceutical Industries |
| Aviation | Ship building |
| High Tech Laboratories | Offshore oil and gas platforms |
| Hospitals (scanners, X-ray, MRI, ECG, Defibrillation devices, CRT...) | Salt Industry |
| Pharmaceutical Industries | |
| Nuclear Industries | |
| NMR Magnets, Spectrometers, High Tesla Magnets | |

INSTRUCTIONS FOR USE & WARRANTY

1. Titanium Tools cannot reach the hardness of conventional tools, due to the fact that the material composition makes it impossible to be induction hardened. For this reason the use of Titanium Tools has to be carried out with special care, avoiding overstraining, heating, etc.

2. The use of Titanium Tools must not be the only preventive measure in areas which the items are designed for. Other items, clothes or present material must also be adequate.

3. EGA Master Titanium Tools are provided with lifetime warranty. In case an EGA Master tool breaks or fails to perform under normal and correct use, it will be repaired or replaced free of cost. Any misuse, abuse or normal service wear is considered as an exception to the warranty.