



Si no encuentra la medida o herramienta que necesita consúltenos
If you can not find the size or tool you require please consult with us
Si vous ne trouvez pas la dimension ou l'outils dont vous avez besoin, consultez-nous

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

ANTICHISPA / NON-SPARKING / ANTI-DÉFLAGRANT

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%
	Ni+Co	0.2%-1.2%
	otros / other / autres	<0.5%
	resto / rest / reste	Cu
Dureza / Hardness / Dureté	283-365 Brinell	
Resistencia a la tracción / Tensile Strength Resistance à la traction	1250 N/mm2	

Aleación Aluminio-Bronce / Aluminium-Bronze Alloy / Alliage aluminium-bronze		
Composición Composition Composition	Al	10%-12%
	Ni	4%-6%
	Fe+Mn	<5.8%
	otros / other / autres	<0.5%
	resto / rest / reste	Cu
Dureza / Hardness / Dureté	229-291 Brinell	
Resistencia a la tracción / Tensile Strength Resistance à la traction	800 N/mm2	

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: 283-365 Brinell en el caso de las fabricadas en Cobre-Berilio y 229-291 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: 283-365 Brinell for those made in Copper-Beryllium and 229-291 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: 283-365 Brinell pour le Cuivre - Béryllium et 229-291 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 / Approprié pour un environnement explosif</i>
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 / Essentiel pour des équipements qui nécessitent une complète sécurité, sauf magnétique</i>
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 / Spécialement conçu pour des environnements corrosifs, comme des travaux en air salin ou pratiqués par les pompiers</i>
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 / Cet outillage forgé a une grande résistance mécanique et une meilleure finition</i>
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 / L'utilisation de deux matériaux anti-dérapants pour le manche, le design totalement ergonomique pour un travail plus aisé, plus rapide et confortable</i>

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	283-365 Brinell	229-291 Brinell
Magnetismo Magnetism Magnetisme	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 / L'absence de substance ferrique dans sa composition, fait de lui un alliage plus sûr pour des utilisations non magnétiques</i>	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 / 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</i>
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 / Grande longévité due à sa composition et à la dureté. Supporte des forces importantes</i>	No tanto como el Cu-Be <i>Not as much as Cu-Be / Pas autant que le Cu-Be</i>
Precio Price Prix	Gran precio debido al material especial usado <i>Higher price due to the special raw material used / Onérosité due aux matériaux spéciaux utilisés</i>	Sobre un 30% más bajo <i>Around 30% lower price / Approx. 30% moins cher</i>



PRECAUCIÓN: Estas herramientas no están clasificadas como antiestáticas debido a que son conductoras de electricidad. 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.

CAUTION: These tools are not classified as anti-static because they do conduct electricity. 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.

PRÉCAUTION: ces outils ne sont pas classifiés comme anti-statiques, car ils sont conducteurs d'électricité. 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 temperature maximum admise					
	T1 (450 °C)	T2 (300°C)	T3 (200 °C)	T4 (135 °C)	T5 (100 °C)	T6 (85 °C)
Temperatura de ignición Temperature of ignition Température d'ignition	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 à: 0,18 mJ)	Acetona Acetone Acétone	i-amilacetato i-amyl acetate i-amylacétate	Amilalcohol Amyl alcohol Amyl alcool	Acetaldehído Acetaldehyde Acétaldéhyde		
	Amoniaco 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	Diétiler Diethyleter Diéthyl éther		
		1.4-dioxano 1.4-dioxane 1.4-dioxane	Etilglicol 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 acetilita altamente explosivos.

Tools made of Cu-Be alloy can be used in all groups (I, IIA, IIB, IIC) in a safe way, always respecting the maximum surface temperature allowed, with the only exception of acetylene, with which copper might react and create highly explosive acetylide gases.

Le cuivre Béryllium peut être utilisé dans tous les cas d'une manière sûre, à condition que la température superficielle de l'outil ne dépasse pas le niveau de température pour chaque gaz. Ne pas utiliser en présence d'Acétylène, car le contact peut créer des étincelles explosives.

Las herramientas fabricadas en aleación Aluminio-Bronce se pueden utilizar en todos los grupos excepto en IIC (hidrogeno, gas de agua, acetileno, bisulfuro de carbono y nitrato de etilo), respetando siempre la temperatura máxima de superficie.

Tools made of Al-Bronze alloy can be used in a safe way, always respecting the maximum surface temperature allowed, except for the IIC group (Hydrogen, gas of water, acetylene, bisulphide of carbon, Ethyl nitrate).

L'aluminium-Bronze est sûr pour tous ces produits sauf pour le groupe IIC (gaz d'eau, Hydrogène, Acétylène, Bisulfure de carbone et Nitrate d'éthyle, encore que de tous ces gaz seul l'hydrogène est común), à condition que la température superficielle de l'outil ne dépasse pas le niveau de température pour chaque gaz.

HERRAMIENTAS DE COBRE O LATÓN / COPPER OR BRASS TOOLS / OUTILS EN CUIVRE OU EN LAITON

Las herramientas de cobre o latón son seguras en ambientes explosivos.

EGA Master tiene disponible una gama completa de martillos y mazas de cobre y latón a disposición de los clientes.

Es conveniente saber que las herramientas de cobre o latón no pueden ser nunca considerados como sustitutivos 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.

EgaMaster 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 substitutifs des outils en aluminium-bronze ou en cuivre-béryllium, ceci du à une dureté bien inférieure à celle nécessaire pour la plus part des applications. La tentation de substituer l'alu-Br et le Cu-Bé par le cuivre ou le laiton existe, dû au coût plus bas. Cette option, non seulement est dangereuse, mais aussi peu rentable, car l'outillage en cuivre ou en laiton sera à remplacer à très court terme, car beaucoup moins résistant.

Mais les outils en cuivre ou en laiton devraient être uniquement utilisés pour des applications en zones de risques d'explosions, si le même usage était requis en atmosphère sans risque d'explosion.

Pour un emploi d'outils en acier en atmosphère sans risque d'explosion, alors pour votre sécurité et une meilleure rentabilité, vous devez prendre des outils fabriqués en Aluminium - Bronze ou en Cuivre- Béryllium pour des applications en zone de risque, jamais un outil en cuivre ou en laiton.



ANTICHISPA / NON-SPARKING / ANTI-DÉFLAGRANT

ALEACIÓN ACETILEX, TRABAJO SEGURO INCLUSO EN AMBIENTES DE ACETILENO ACETILEX ALLOY, SAFE WORK EVEN IN ACETYLENE ENVIRONMENTS ALLIAGE ACETILEX, TRAVAIL SÛR MÊME EN PRÉSENCE D'ACÉTHYLÈNE

Los ambientes de acetileno hacen que no se puedan emplear elementos con composiciones de cobre superiores al 65%. Ambas aleaciones aluminio-bronce y cobre-berilio tienen porcentajes de cobre superiores al 65%. La razón no estriba en que una chispa de cobre berilio tenga la suficiente energía como para provocar la ignición del acetileno, sino que el cobre puede reaccionar con el acetileno creando acetiluros altamente explosivos de por sí. Por este motivo, se desaconseja el uso de cualquiera de las aleaciones de cobre berilio o aluminio bronce en ambientes de acetileno. En EGA Master, siempre buscando soluciones innovadoras que aporten mayor seguridad, hemos desarrollado la aleación ACETILEX, 100% segura en ambientes de acetileno. Una vez más, pioneros en seguridad.

Items with copper composition higher than 65% should not be used in acetylene environments. Both aluminum bronze and copper-beryllium alloys do have copper compositions higher than 65%. The reason is not that copper beryllium can create a spark with enough energy to create the ignition of acetylene, but that copper reacts with acetylene creating highly explosive acetylides. For this reason, copper-beryllium or aluminum-bronze alloys should not be used in acetylene environments. EGA Master, always committed to find new innovative solutions that will increase safety, has developed the ACETILEX alloy, 100% safe to be used in acetylene environments. Once again, pioneers in safety.

Les atmosphères en présence d'acétylène font qu'on ne peut utiliser de compositions en cuivre supérieures à 65%. Les deux alliages aluminium - bronze et cuivre - béryllium ont un pourcentage de cuivre supérieur à 65%. La raison ne repose pas sur le fait que l'étincelle du cuivre-béryllium ait l'énergie suffisante pour provoquer l'ignition de l'acétylène, mais que le cuivre peut avoir une réaction avec l'acétylène, ce qui peut provoquer des particules acétylure hautement explosives. Pour cette raison, il est déconseillé l'utilisation d'alliages de cuivre béryllium ou d'aluminium bronze en présence d'acétylène. En permanence à la recherche de solutions novatrices ayant la meilleure sécurité, EGA Master a développé l'alliage ACETILEX, 100% sûre en présence d'acétylène. Une fois de plus, pionniers en sécurité.

PRINCIPALES CAMPOS DE APLICACIÓN / MAIN APPLICATION FIELDS / PRINCIPAUX CHAMPS D'APPLICATION

Petroquímicas / Petrochemicals / Petrochimie	Industria Pirotécnica / Fireworks Industry Industrie pyrotechnique	Minas / Mines / Mines
Refinerías / Refineries / Raffineries	Industria química / Chemical Industry Industrie chimique	Defensa / Defence / Defense
Industria del Petróleo / Oil Companies Sociétés pétrolières	Industria papelera / Paper making Industries Industrie du papier	Fuerzas aéreas / Air Forces Forces aériennes
Conductos de tubo de Gas y Petróleo Gas & oil pipe lines Conduits de gaz et de pétrole	Silos de harina y molinos Flour silos and mills Silos et moulins	Marina / Navy / Marine
Estaciones de servicio y energía Power Stations Stations de service et energie	Fábrica cervecera / Breweries / Brasseries	Fabricación de munición y armas Weapon & ammunition fabrication Fabrication de poudres et explosifs
Fabricación de pintura Paint Manufacturing Fabrication de peinture	Industrias de procesamiento de Alcohol Alcohol processing industries Fabrication d'alcool	Industria aeroespacial / Aerospace industry Industrie aérospaciale
Fabricación de plástico Plastic manufacturing Fabrication de plastique	Destilerías / Distilleries / Distilleries	Industria del automóvil / Automobile Industry Industrie automobile
Industria Farmacéutica / Pharmaceutical Industry / Industrie pharmaceutique	Bomberos / Fire-fighters / Pompiers	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.
- El uso de herramientas antichispa no debe ser la única medida preventiva en áreas en las que se ha diseñado para ello. Otros objetos, como ropa o material presencial deben también ser adecuadas para aplicaciones Antichispa. / The use of Non-Sparking Tools must not be the only preventive measure in areas which the items are designed for. Other items, clothes or present material must also be adequate for non-sparking purposes. / L'utilisation d'outillage anti-déflagrant ne doit pas être le seul moyen de prévention dans les environnements pour lequel il est conçu. D'autres objets, comme les vêtements et matériaux présents doivent aussi être adaptés aux applications anti-déflagrantes.

CERTIFICADO DE CONFORMIDAD

Certificamos que las herramientas fabricadas en Cobre Berilio poseen propiedades anti-chispa, anti-magnéticas y anti-corrosión.

Dureza
283-365 Brinell
Resistencia a la Tracción
1250 N/mm²
Temperatura de Fusión
857°C -982°C
Porcentaje Composición Química
Be: 1,8%-2%
Ni+Co: 0,2%-1,2%
Otros: <0,5%
Cu Resto

Certificamos que las herramientas fabricadas en aleación Aluminio - Bronce poseen propiedades antichispa.

Dureza
229-291 Brinell
Resistencia a la Tracción
800 N/mm²
Porcentaje Composición Química
Al: 10%-12%
Ni: 4%-6%
Fe+Mn: <5,8%
Otros max: <0,5%
Cu Resto

CERTIFICATE OF COMPLIANCE

We hereby certify that, the tools made from Beryllium Copper alloy provide non sparking, non magnetic and non corrosive properties.

Hardness
283-365 Brinell
Tensile Strength-Break
1250 N/mm²
Melting Range Temperature
857°C -982°C
Chemical Composition Percentage
Be: 1,8%-2%
Ni+Co: 0,2%-1,2%
Other max: <0,5%
Cu Balance

We hereby certify that, the tools made from Aluminium Bronze alloy provide non sparking properties.

Hardness
229-291 Brinell
Tensile Strength-Break
800 N/mm²
Chemical Composition Percentage
Al: 10%-12%
Ni: 4%-6%
Fe+Mn: <5,8%
Other max: <0,5%
Cu Balance

Ega Master S.A.
Anur Garmendia
Managing Director



**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 certification des matériaux d'EGA Master est réalisée par le prestigieux Institut Fédéral Allemand d'investigation et d'examen des matériaux BAM, membre notifié par l'Union Européenne pour la certification selon la directive 94/9/EG (ATEX).

Certificate
 N°: BAM/ZBF/008/10
 1st issue

Hereby it is confirmed by the BAM Certification Body, that the
Material aluminium-bronze
 of the manufacturer
EGA Master S.A.
Zorrolleta 11, Jundiz Industrial Estate
01015 Vitoria
SPAIN

meets the requirements of **BAM Standard operating procedure „StAA-NEG-005“: „StAA zur Schlagfunkenprüfung von Werkstoffpaarungen“** dated 2007-06-09 and thus the non-sparking tools made of this material are appropriate for use in potentially explosive atmospheres of zone 0 and/or 20 according to Directive 1999/92/EC of all explosion groups according to IEC 60079:2004 Part 0, if the terms and conditions set out in the annex to this certificate are met.

The certification is based on certification contract N° **BAM-ZBF-0013-2010-EGA** and comprises according to standard DIN EN 45 011 (1998) a design-type test with the manufacturer's declaration of conformity (BAM Certification system I).
 The products certified by BAM may be labelled with the certification mark "BAM design-type tested" / "BAM Baumustergeprüft".

The certificate is valid until 01 August 2015.

BAM test report **II-1397/2010** dated 2010-07-30 is a constituent part of this certificate.

for BAM Bundesanstalt für Materialforschung und -prüfung
 Unter den Eichen 87, 12205 Berlin, 2010-08-02

Dr. R. Schmidt
 BAM Certification Body



Dr. R. Grätz
 BAM Assessor

Distribution list: 1st Certificate holder 2nd BAM Certification Body

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H Safety in technology and chemistry

CERTIFICATE

*Este certificado será renovado con posterioridad a la impresión del catálogo

This certificate will be renewed after the edition of this catalogue

Ce certificat sera renouvelé après l'impression du catalogue

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 certification 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
Nº: BAM/ZBF/007/10
1st Issue



**Federal Institute for
Materials Research
and Testing**
12200 Berlin, Germany
Phone: +49 30 8104-0
Fax: +49 30 8112029
Internet: www.bam.de

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

VALID FOR

Material beryllium-copper

of the manufacturer

EGA Master S.A.
Zorrolleta 11, Jundiz Industrial Estate
01015 Vitoria
SPAIN

EGA MASTER BRAND

meets the requirements of BAM Standard operating procedure „StAA-NEG-005“: „StAA zur Schlagfunkenprüfung von Werkstoffpaarungen“ dated 2007-06-09 and thus the non-sparking tools made of this material are appropriate for use in potentially explosive atmospheres of zone 0 and/or 20 according to Directive 1999/92/EC of all explosion groups according to IEC 60079:2004 Part 0, if the terms and conditions set out in the annex to this certificate are met.

The certification is based on certification contract Nº **BAM-ZBF-0013-2010-EGA** and comprises according to standard DIN EN 45 011 (1998) a design-type test with the manufacturer's declaration of conformity (BAM Certification system I).
The products certified by BAM may be labelled with the certification mark "BAM design-type tested" / "BAM Baumustergeprüft".

The certificate is valid until 01 August 2015.

BAM test report **II-1397/2010** dated **2010-07-30** is a constituent part of this certificate.

for BAM Bundesanstalt für Materialforschung und -prüfung
Unter den Eichen 87, 12205 Berlin, 2010-08-02

R. Schmidt

Dr. R. Schmidt
BAM Certification Body



R. Grätz

Dr. R. Grätz
BAM Assessor

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Safety in technology and chemistry

CERTIFICATE



*Este certificado será renovado con posterioridad a la impresión del catálogo
This certificate will be renewed after the edition of this catalogue
Ce certificat sera renouvelé après l'impression du catalogue

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

ALIGATES / PLIERS / PINCES / ZANGEN / PINZE / ALIGATES / ПЛОСКОГУБЦЫ

UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALE / UNIVERSAIS / КОМБИНИРОВАННЫЕ

COD		L mm	gr.
Cu-Be	Al-Bron		
70100	70530	160	250
70101	70531	180	320
70102	70532	200	370



BOCA PLANA / FLAT NOSE / BECS PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ

COD		L mm	gr.
Cu-Be	Al-Bron		
70103	70533	160	170



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

COD		L mm	gr.
Cu-Be	Al-Bron		
70104	70534	160	160



TELEFONISTA / LONG NOSE / TELEPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / С УДЛИННЕННЫМИ НОСАМИ

COD		L mm	gr.
Cu-Be	Al-Bron		
70105	70535	160	250
76130	76131	180	270
70106	70536	200	370



CORTE DIAGONAL / DIAGONAL CUTTING PLIERS / COUPANTES DIAGONALES / KRAFTSEITENSCHNEIDER
TAGLIO LATERALE / CORTE DIAGONAL / БОКОРЕЗЫ

COD		L mm	gr.
Cu-Be	Al-Bron		
70107	70537	160	250



CORTE DIAGONAL REFORZADO / HEAVY DUTY CUTTING NIPPERS / COUPANTES RENFORCEES / KRAFTSEITENSCHNEIDER
TAGLIO LATERALE RINFORZATO / CORTE DIAGONAL REFORÇADO / УСИЛЕННЫЕ БОКОРЕЗЫ

COD		L mm	gr.
Cu-Be	Al-Bron		
72094	72095	160	260
70108	70538	180	320



ALICATE GASISTA / GAS PIPE PLIERS / PINCE GAZIER / ROHRZANGE / PINZA PER GASISTA / ALICATE PARA TUBO DE GAZ / КЛЕЩИ ГАЗОВЫЕ

COD		L mm	gr.
Cu-Be	Al-Bron		
70109	70539	210	370



ALICATE TIPO FORD / SLIP JOINT PLIER / PINCE MOTORISTE / MECHANIKERZANGE / PINZE PER GASISTI / ALICATE MOTORISTA
СКОЛЬЗЯЩИЕ КЛЕЩИ

Cu-Be	COD	Al-Bron	L	gr.
70114		70544	8"	250



PELACABLES / WIRESTRIPPER / PINCES À DÉNUDER / ABISOLIERZANGEN / PINZE SPELAFILI / DECAPADORES
КЛЕЩИ ДЛЯ ЗАЧИСТКИ КОНТАКТОВ

Cu-Be	COD	Al-Bron	L	gr.
73903		73904	170	220



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

Cu-Be	COD	Al-Bron	L	mm	gr.
72511		72510	140mm	10+25	100
72513		72512	200mm	19+60	250
72515		72514	250mm	40+100	425



EXTERIOR RECTO / EXTERNAL STRAIGHT / EXTERIEUR DROIT / AUSSENSICHERUNGSRINGE, GERADE / DIRITTO PER ANELLI
EXTERIOR DIREITO / НАРУЖНЫЕ ПРЯМЫЕ

Cu-Be	COD	Al-Bron	L	mm	gr.
72517		72516	140mm	10+25	120
72519		72518	200mm	19+60	265
72521		72520	250mm	40+100	465



ALICATES MINIS / MINI PLIERS / PINCES MINI / MINI ZANGEN / PINZE MINI / ALICATES MINI / ПЛОСКОГУБЦЫ МИНИ

UNIVERSALES / COMBINATION / UNIVERSELLES / KOMBIZANGEN / UNIVERSALI / UNIVERSAIS / КОМБИНИРОВАННЫЕ

Cu-Be	COD	Al-Bron	L	mm	gr.
79100		79101	125		100



BOCA PLANA / FLAT NOSE / BECS PLATS / FLACHZANGEN / BECCHI PIATTI / PONTAS CHATAS / УТКОНОСЫ

Cu-Be	COD	Al-Bron	L	mm	gr.
79128		79129	125		100



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

ALIGATES MINIS / MINI PLIERS / PINCES MINI / MINI ZANGEN / PINZE MINI / ALIGATES MINI / ПЛОСКОГУБЦЫ МИНИ

BOCA REDONDA / ROUND NOSE / BECS ROUNDS / RUNDZANGEN / BECCHI TONDI / PONTAS REDONDAS / КРУЛОГУБЦЫ

COD		L mm	gr.
Cu-Be	Al-Bron		
79145	79146	130mm	100



TELEFONISTA / LONG NOSE / TELEPHONE / TELEFONZANGEN / TELEFONISTI / TELEFONISTA / С УДЛИННЕННЫМИ НОСАМИ

COD		L mm	gr.
Cu-Be	Al-Bron		
79220	79221	125mm	100



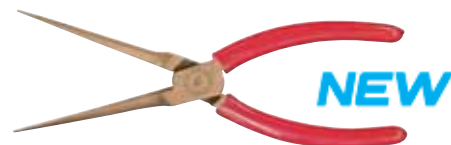
TELEFONISTA BOCA CURVA / BENT NOSE PLIERS / TELEPHONE BECS COUDES / TELEFONZANGEN GEBOGEN / TELEFONISTI BECCHI PIEGATI / TELEFONISTA PONTAS CURVAS / С ИЗОГНУТЫМИ НОСАМИ

COD		L mm	gr.
Cu-Be	Al-Bron		
79222	79223	125mm	100



BOCA AGUJA / LONG NEEDLE NOSE / LONG BECS DEMI-RONDS / FLACHZANGE MIT LANGEM MAUL / BECCHI TONDI AFFUSOLATI / PONTAS AGULHA / УДЛИННЕННЫЕ ТОНКИЕ

COD		L mm	gr.
Cu-Be	Al-Bron		
76128	76129	150mm	100



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

COD		L mm	gr.
Cu-Be	Al-Bron		
79228	79229	115mm	100



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

COD		L mm	gr.
Cu-Be	Al-Bron		
79230	79231	115mm	100



CORTE FRONTAL / END CUTTING NIPPER / COUPANTES DEVANT / VORSCHNEIDER / TAGLIO FRONTALE / CORTE FRONTAL / КЛЕЩИ

COD		L mm	gr.
Cu-Be	Al-Bron		
79232	79233	110mm	100



TENAZAS / PINCERS / PINCES / ZANGE / TENAGLIE / ALICATES / КЛЕЩИ
**PICO DE LORD / GROOVE JOINT / MULTIPRISE À CREMAILLÈRE / WASSERPUMPENZANGE / PINZE REGOLABILI /
 BICO DE PARAGAIO / С ЖЕЛОБКОВЫМ МЕХАНИЗМОМ**

Cu-Be	COD		L	gr.
	Al-Bron			
70110	70540		10"	340
70111	70541		12"	700


**TENAZA DE CANAL / BOX JOINT / MULTIPRISE ENTREPASSEE / WASSERPUMPENZANGE / PINZE REGOLABILI
 BICO DE PARAGAIO / ШАРНИРНЫЕ**

Cu-Be	COD		L	gr.
	Al-Bron			
73897	73898		10"	380



Cu-Be	COD		L	gr.
	Al-Bron			
72300	72302		10"	340


**TENAZA DE CARPINTERO / CARPENTER Pincer / PINCE DE MENUISIER / KANTENZANGE / TENAGLIE PER CARPENTIERI
 TURQUES DE CARPINTERO / КЛЕЩИ ДЛЯ ПЛИТКИ**

Cu-Be	COD		L	gr.
	Al-Bron			
70112	70542		7"	310
70113	70543		8"	380


**ALICATE PARA TERMINALES / CRIMPING PLIER / PINCE À SERTIR / CRIMPZANGE / PINZE PER TERMINALI / ALICATE PARA
 TERMINAIS / ОБЖИМНЫЕ КЛЕЩИ**

Cu-Be	COD		L	gr.
	Al-Bron			
73900	73901		8"	220



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

LLAVE AJUSTABLE / ADJUSTABLE WRENCH / CLÉ À MOLETTE / ROLLGABELSCHLÜSSEL /
CHIAVI REGOLABILI A RULLINO / CHAVE AJUSTAVEL / РАЗВОДНЫЕ КЛЮЧИ

COD		L	mm	gr.
Cu-Be	Al-Bron			
71448	71451	6"	150mm	160
70117	71452	8"	200mm	330
70118	71453	10"	250mm	550
70119	71454	12"	300mm	850
70120	71455	15"	375mm	1250
71449	71456	18"	450mm	2000
71450	71457	24"	600mm	3100
75315	75316	36"	900mm	7800



COMFORT

COD		L	mm	gr.
Cu-Be	Al-Bron			
75099	75098	6"	150mm	180
75112	75111	8"	200mm	350
75114	75113	10"	250mm	570



LLAVE AJUSTABLE LIGERA / LIGHT ADJUSTABLE WRENCH / CLÉ À MOLETTE LÉGÈRE / VERSTELLBARE ROLLGABEL LEICHT /
CHIAVE A RULLINO LEGGERA / CHAVE AJUSTAVEL LIGEIRA / КЛЮЧ РАЗВОДНОЙ ОБЛЕГЧЕННЫЙ

COD		L	mm	gr.
Cu-Be	Al-Bron			
35746	35747	6"	150mm	20
35748	35749	8"	200mm	25
35750	35751	10"	250mm	30
35752	35753	12"	300mm	35
35754	35755	15"	375mm	48



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

EXTRACTOR 3 GARRAS ARTICULADAS REVERSIBLES / 3 JAW REVERSIBLE GEAR PULLER / EXTRACTEUR 3 BRAS ARTICULES
REVERSIBLES / AUSSENABZIEHER 3 KLAUEN / ESTRATTORE A 3 BRACCI REVERSIBILI / ТРЕХЛАПНЫЕ РЕВЕРСИВНЫЕ СЪЕМНИКИ

COD		L	gr.
Cu-Be	Al-Bron		
72470	72471	50-100	4500
72472	72473	60-150	5000
72474	72475	70-200	7000
72476	72477	80-350	13000



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		L	gr.
Cu-Be	Al-Bron		
70115	70547	150	40



BOCA PLANA / FLAT NOSE / PLATES / FLACH ZANGE / PUNTA PIATTA / PONTAS PLANAS / УТРОНОСЫ

COD		L	gr.
Cu-Be	Al-Bron		
70116	70548	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.					INCH.						
Cu-Be	COD	Al-Bron	AF	L mm	gr.	Cu-Be	COD	Al-Bron	AF	L mm	gr.
75240		75241	4-5mm			70592		70637	7/32"-1/4"		
75242		75243	5-5,5mm	90	30	70593		70638	1/4"-9/32"	90	35
70135		70549	6-7mm			70594		70639	1/4"-5/16"		
70136		70550	6-8mm		40	70595		70640	5/16"-3/8"	100	45
76871		76872	7-8mm	95	50	70596		70641	3/8"-7/16"	110	60
70137		70551	7-9mm		55	75275		75276	3/8"-1/2"	115	65
70138		70552	8-9mm		60	70597		70642	7/16"-1/2"	120	85
70139		70553	8-10mm	100	65	70598		70643	1/2"-9/16"	130	90
70140		70554	9-10mm	105	70	70599		70644	1/2"-5/8"		100
70141		70555	9-11mm	110	75	70600		70645	1/2"-11/16"		110
70142		70556	10-11mm	115	85	70601		70646	9/16"-5/8"	150	120
70143		70557	10-12mm			70602		70647	9/16"-3/4"		130
76873		76874	10-13mm	120	95	70603		70648	19/32"-11/16"		140
70144		70558	10-14mm		115	70604		70649	19/32"-25/32"		150
75244		75245	11-13mm	125	120	74835		74836	5/8"-11/16"	165	160
70145		70559	11-14mm		125	70605		70650	5/8"-3/4"		165
70146		70560	12-13mm		135	75277		75278	11/16"-3/4"	170	165
70147		70561	12-14mm	130	145	70606		70651	11/16"-25/32"		180
76875		76876	13-14mm			70607		70652	11/16"-7/8"		200
73648		73649	13-15mm	135	165	76887		76888	3/4"-25/32"	180	220
70148		70562	14-15mm	145		70608		70653	3/4"-13/16"		
76877		76878	14-16mm	150	170	70609		70654	3/4"-7/8"	185	230
70149		70563	14-17mm		180	70610		70655	25/32"-13/16"		
70150		70564	16-17mm	155	200	70611		70656	25/32"-7/8"	190	240
70151		70565	16-18mm	165	210	70612		70657	13/16"-7/8"		300
70152		70566	17-19mm	170	230	70613		70658	7/8"-15/16"	210	320
70153		70567	17-22mm	175	270	70614		70659	7/8"-31/32"		340
70154		70568	18-19mm			70615		70660	7/8"-1"	220	360
76879		76880	18-20mm	180	280	70616		70661	15/16"-1"		380
74625		74626	19-20mm			70617		70662	7/8"-1.1/16"		410
70155		70569	19-22mm	185	330	70618		70663	15/16"-1.1/16"	230	430
70156		70570	19-24mm		360	74837		74838	1"-1.1/16"		450
70157		70571	20-22mm	195	370	70619		70664	1"-1.1/8"		
74627		74628	21-22mm		390	76889		76890	1"-1.5/16"		
70158		70572	21-23mm		410	70620		70665	1.1/16"-1.1/8"		500
75246		75247	22-23mm	200		70621		70666	1.1/16"-1.1/4"	250	550
70159		70573	22-24mm	210	440	74839		74840	1.1/8"-1.3/16"		
70160		70574	22-27mm		470	70622		70667	1.1/8"-1.5/16"	260	600
76881		76882	23-26mm			75281		75282	1.3/16"-1.1/4"		
75248		75249	24-25mm	220	500	70623		70668	1.1/16"-1.7/16"		700
70161		70575	24-26mm			70624		70669	1.1/8"-1.1/2"	270	850
70162		70576	24-27mm	230		75283		75284	1.1/4"-1.5/16"		900
72923		72922	24-30mm		550	70625		70670	1.1/4"-1.3/8"	290	1000
70163		70577	25-28mm	240		70626		70671	1.1/4"-1.7/16"		1050
74831		74832	26-29mm			75285		75286	1.5/16"-1.3/8"		1250
70164		70578	27-29mm			70627		70672	1.5/16"-1.1/2"	320	1300
75250		71821	27-30mm	250	650	75287		75288	1.3/8"-1.7/16"		1500
75251		75252	28-30mm			70628		70673	1.3/8"-1.1/2"	340	1800
72925		72924	27-32mm		700	70629		70674	1.7/16"-1.5/8"		2100
75253		75254	30-31mm		750	75289		75290	1-1/2"-1.9/16"	350	2500
70165		70579	30-32mm			70630		70675	1.1/2"-1.11/16"		2800
73007		73006	30-34mm		900	70631		70676	1.5/8"-1.13/16"	370	3100
72927		72926	30-36mm	260		70632		70677	1.3/4"-1.5/8"		
75255		75256	32-34mm		1000	70633		70678	1.11/16"-1.7/8"	380	3300
75257		75258	32-35mm		1100	70634		70679	1.13/16"-2"		
70166		70580	32-36mm		1150	75291		75292	2"-2.3/16"	400	3700
75259		75260	33-35mm		1300	75293		75294	2"-2.3/8"		
70167		70581	34-36mm	300		70635		70680	2.1/16"-2.5/16"	410	
75261		75262	35-36mm		1500	75295		75296	2.3/16"-2.3/8"		
75263		75264	36-38mm	320		70636		70681	2.1/4"-2.3/8"		3300
73337		73336	36-41mm	330	1600	75297		75298	2.3/8"-2.9/16"	430	3700
75265		75266	38-42mm	340	1800						
70168		70582	41-46mm	350	2100						
72921		72919	46-50mm	370							
73390		73389	50-52mm	380	2500						
76096		76097	50-55mm	385							
76885		76886	50-60mm	400	3000						
70169		70583	50-62mm								
70588		70584	55-60mm	410	3300						
70589		70585	60-65mm	430	4550						
70590		70586	65-70mm	460	7600						
70591		70587	70-80mm	500	9200						



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

LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

LLAVES COMBINADAS / COMBINATION WRENCHES / CLÉS MIXTES / GABEL RINGSCHLÜSSEL / CHIAVI COMBinate
CHAVES BOCA E LUNETA / КОМБИНИРОВАННЫЕ КЛЮЧИ



MM

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
70170	70682	6mm	115	35
70171	70683	7mm	120	40
70172	70684	8mm	125	45
70173	70685	9mm	130	60
70174	70686	10mm	135	65
70175	70687	11mm	140	70
70176	70688	12mm	145	85
70177	70689	13mm	155	95
70178	70690	14mm	165	100
70179	70691	15mm	175	110
70180	70692	16mm	185	150
70181	70693	17mm	195	160
70182	70694	18mm	200	190
70183	70695	19mm	210	210
70184	70696	20mm	220	240
70185	70697	21mm	230	260
70186	70698	22mm	240	280
70187	70699	23mm	250	350
70188	70700	24mm	260	380
70189	70701	25mm	270	400
70190	70702	26mm	280	420
70191	70703	27mm	290	480
70192	70704	28mm	300	500
70193	70705	29mm	310	650
70194	70706	30mm	320	700
70195	70707	31mm	330	750
70196	70708	32mm	340	800
72700	71786	33mm	350	850
72701	71787	34mm	360	950
70197	70709	35mm	370	950
70198	70710	36mm	380	1100
70199	70711	38mm	390	1100
70200	70712	40mm	400	1200
70201	70713	41mm	420	1550
70202	70714	42mm	440	1750
70203	70715	46mm	430	2100
70204	70716	50mm	460	2200
73618	73619	52mm	470	2600
70205	70717	55mm	480	3000
70206	70718	60mm	490	3550
70207	70719	65mm	500	4100
70208	70720	70mm	510	4550
70209	70721	75mm	520	5350
70210	70722	80mm	530	5800
70211	70723	85mm	540	5800
70212	70724	90mm	550	5800

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
70725	70751	1/4"	115	25
75305	75306	9/32"	120	30
70726	70752	5/16"	125	35
70727	70753	11/32"	130	40
70728	70754	3/8"	135	55
76855	76856	13/32"	140	70
70729	70755	7/16"	165	80
70730	70756	1/2"	175	95
70731	70757	9/16"	195	130
75307	75308	19/32"	210	140
70732	70758	5/8"	230	200
70733	70759	11/16"	260	280
70734	70760	3/4"	280	330
76857	76858	25/32"	360	360
70735	70761	13/16"	460	460
70736	70762	7/8"	500	500
70737	70763	15/16"	550	550
76859	76860	31/32"	700	700
70738	70764	1"	750	750
70739	70765	1.1/16"	800	800
70740	70766	1.1/8"	850	850
72937	72936	1.3/16"	950	950
70741	70767	1.1/4"	1000	1000
70742	70768	1.5/16"	1150	1150
70743	70769	1.3/8"	1200	1200
70744	70770	1.7/16"	1350	1350
70745	70771	1.1/2"	1500	1500
75309	75310	1.9/16"	1600	1600
70746	70772	1.5/8"	1700	1700
70747	70773	1.11/16"	1800	1800
75311	75312	1.3/4"	2100	2100
70748	70774	1.13/16"	2400	2400
70749	70775	1.7/8"	2800	2800
70750	70776	2"	3300	3300
76861	76862	2.3/16"	445	2100
76863	76864	2.3/8"	460	2400
76865	76866	2.9/16"	470	2800
76867	76868	2.5/8"	480	3300
76869	76870	2.3/4"	480	3300

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LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

LLAVES ACODADAS / DOUBLE OFFSET RING WRENCHES / CLÉS POLYAGONALES CONTRE-COUDÉE / RINGSCHLÜSSEL / CHIAVI POLIGONALI CHAVES LUNETA / ДВОЙНАЯ ИЗОГНУТАЯ ЗВЕЗДОЧКА



MM

Cu-Be	COD		AF	L mm	gr.	Cu-Be	COD		AF	L mm	gr.
	Al-Bron						Al-Bron				
75320	75321	5,5-7mm	115	20	70237	70801	22-27mm	470			
70213	70777	6-7mm	120	25	75338	75339	23-26mm	480			
75322	75323	6-8mm	130	35	75340	75341	24-25mm	500			
70214	70778	7-9mm	135	50	72822	72823	24-26mm	550			
70215	70779	8-9mm	140	55	73339	73338	24-27mm	600			
70216	70780	8-10mm	140	60	70238	70802	24-30mm	650			
70217	70781	9-10mm	140	70	70239	70803	25-28mm	700			
70218	70782	9-11mm	140	80	74833	74834	26-29mm	750			
70219	70783	10-11mm	140	85	70240	70804	27-29mm	800			
75324	75325	10-12mm	140	100	70241	70805	27-30mm	850			
75326	75327	10-13mm	140	110	70242	70806	27-32mm	1050			
70220	70784	10-14mm	140	120	75342	75343	29-32mm	1100			
75318	75319	11-12mm	160	150	70243	70807	30-32mm	1150			
75328	75329	11-13mm	160	200	76891	76892	30-34mm	1550			
70221	70785	11-14mm	180	210	72956	72912	31-33mm	1600			
70222	70786	12-13mm	200	220	70244	70808	30-36mm	1700			
70223	70787	12-14mm	200	260	75344	75345	32-34mm	2050			
70224	70788	13-14mm	220	290	72957	72913	32-35mm	2200			
70225	70789	13-15mm	220	300	72135	72139	32-36mm	2400			
70226	70790	14-15mm	220	310	72136	72140	34-36mm	2450			
72133	72137	14-16mm	220	350	70245	70809	36-38mm	2500			
72134	72138	14-17mm	220	370	75346	75347	35-41mm	3900			
70227	70791	16-17mm	250	400	75348	75349	38-40mm	4000			
70228	70792	16-18mm	250	420	70246	70810	36-41mm	4500			
70229	70793	17-19mm	250	440	75350	75351	38-42mm	4500			
75330	75331	17-21mm	250	470	70247	70811	41-46mm	4500			
70230	70794	17-22mm	250	490	72251	72250	46-50mm	5000			
70231	70795	18-19mm	280	500	73392	73391	50-52mm	5000			
75332	75333	19-21mm	280	550	75352	75353	50-55mm	5000			
70232	70796	19-22mm	280	550	75354	75355	50-60mm	5000			
70233	70797	19-24mm	280	550	72253	72252	55-60mm	5000			
70234	70798	20-22mm	310	550	75356	75357	60-70mm	5000			
70235	70799	21-23mm	310	550	72255	72254	65-70mm	5000			
75334	75335	21-26mm	310	550	76893	76894	70-75mm	5000			
75336	75337	22-23mm	310	550	72257	72256	75-80mm	5000			
70236	70800	22-24mm	310	550							



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

LLAVES ACODADAS / DOUBLE OFFSET RING WRENCHES / CLÉS POLYGAONALES CONTRE-COUDÉE / RINGSCHLÜSSEL / CHIAVI POLIGONALI CHAVES LUNETA / ДВОЙНАЯ ИЗОГНУТАЯ ЗВЕЗДОЧКА



INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
70812	70841	7/32"-1/4"	120	30
74841	74842	1/4"-5/16"		
70813	70842	5/16"-3/8"	125	45
70814	70843	3/8"-7/16"	140	60
70815	70844	7/16"-1/2"	155	90
70816	70845	1/2"-9/16"	175	115
70817	70846	9/16"-5/8"	210	190
74843	74844	5/8"-11/16"	220	200
70818	70847	5/8"-3/4"	240	230
75365	75366	11/16"-3/4"		
70819	70848	11/16"-25/32"	250	240
70820	70849	3/4"-13/16"		290
70821	70850	13/16"-7/8"	270	350
70822	70851	7/8"-15/16"	300	400
70823	70852	7/8"-31/32"	310	420
70824	70853	7/8"-1"		440
70825	70854	7/8"-1.1/16"	320	480
70826	70855	15/16"-1"		490
70827	70856	15/16"-1.1/16"	340	500
70828	70857	1"-1.1/16"		
70829	70858	1"-1.1/8"	350	550
70830	70859	1.1/16"-1.1/8"		

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
70831	70860	1.1/16"-1.1/4"		600
74845	74846	1.1/8"-1.3/16"		
70832	70861	1.1/8"-1.5/16"	370	700
76895	76896	1.1/8"-1.1/2"		800
75367	75368	1.3/16"-1.1/4"		
70833	70862	1.1/4"-1.5/16"	380	1000
70834	70863	1.1/4"-1.7/16"		
75369	75370	1.5/16"-1.3/8"	410	1100
75371	75372	1.3/8"-1.7/16"		1350
70835	70864	1.7/16"-1.5/8"	450	1600
75373	75374	1.1/2"-1.9/16"	460	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"	500	2800
70839	70868	2"-2.3/8"		3000
75377	75378	2.3/16"-2.3/8"		3100
70840	70869	2.1/4"-2.3/8"	550	3500
75379	75380	2.3/8"-2.3/4"		3900
76755	76756	2.3/8"-2.7/16"	560	4000
75381	75382	2.9/16"-2.3/4"	570	4200
75383	75384	2.3/4"-2.15/16"	580	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	Composición/Composition		AF	gr.
69342	61727	Cr-V Aeroespacial	8mm	300
	61627	Cr-V Espejo - Mirror		
	73062	Cr-V 1000V		
	70172	Cu-Be		
	70684	Al-Bron		
	71669	Titanium		



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SETS

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

COD	UN.	Cu-Be
76400	6	6-7, 8-9, 10-11, 12-13, 14-15, 16-17
76402	8	6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22
76404	10	6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26
76406	12	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	12	6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-27, 25-28, 30-32



COD	UN.	Al-Bron
76401	6	6-7, 8-9, 10-11, 12-13, 14-15, 16-17
76403	8	6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22
76405	10	6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26
76407	12	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	12	6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-27, 25-28, 30-32

LLAVES COMBINADAS / COMBINATION WRENCHES / CLÉS MIXTES / RINGGABELSCHLÜSSEL / CHIAVI COMBinate
CHAVES BOCA E LUNETA / КОМБИНИРОВАННЫЕ КЛЮЧИ

COD	UN.	Cu-Be
76418	6	8, 10, 12, 14, 17, 19
76420	8	8, 10, 12, 13, 14, 17, 19, 22
76422	10	8, 9, 10, 11, 12, 13, 14, 17, 19, 22
76424	12	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17
76426	14	10, 11, 12, 14, 16, 17, 19, 20, 22, 24, 25, 27, 28, 32
76428	17	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22
76430	17	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24
76432	26	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



COD	UN.	Al-Bron
76419	6	8, 10, 12, 14, 17, 19
76421	8	8, 10, 12, 13, 14, 17, 19, 22
76423	10	8, 9, 10, 11, 12, 13, 14, 17, 19, 22
76425	12	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17
76427	14	10, 11, 12, 14, 16, 17, 19, 20, 22, 24, 25, 27, 28, 32
76429	17	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22
76431	17	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24
76433	26	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



LLAVES ACODADAS / DOUBLE OFFSET RING WRENCHES / CLÉS POLYGONALES / RINGSCHLÜSSEL / CHIAVI POLIGONALI /
CHAVES LUNETA / КЛЮЧИ ДВОЙНАЯ ИЗОГНУТАЯ ЗВЕЗДОЧКА

COD	UN.	Cu-Be
76444	6	6-7, 8-9, 10-11, 12-13, 14-15, 16-17
76446	8	6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22
76448	10	6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26
76450	12	6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32



COD	UN.	Al-Bron
76445	6	6-7, 8-9, 10-11, 12-13, 14-15, 16-17
76447	8	6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22
76449	10	6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26
76451	12	6-7, 8-9, 10-11, 12-13, 14-15, 16-17, 18-19, 20-22, 21-23, 24-26, 25-28, 30-32

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 / Aluminium Bronze / aluminium brons / aluminio bronzo / СПЛАВ АЛЛЮМИНИЙ БРОНЗА

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

SETS

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

COD	UN.	Cu-Be
76410	6	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	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	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	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

COD	UN.	Al-Bron
76411	6	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	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	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	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

COD	UN.	Cu-Be
76434	6	3/8, 7/16, 1/2, 9/16, 5/8, 3/4
76436	8	5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4
76438	10	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 1
76440	12	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	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

COD	UN.	Al-Bron
76435	6	3/8, 7/16, 1/2, 9/16, 5/8, 3/4
76437	8	5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4
76439	10	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 1
76441	12	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	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 POLYGOALES / RINGSCHLÜSSEL / CHIAVI POLIGONALI /
CHAVES LUNETA / КЛЮЧИ ДВОЙНАЯ ИЗОГНУТАЯ ЗВЕЗДОЧКА

COD	UN.	Cu-Be
76452	6	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	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	1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/4
76458	12	1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 3/4-13/16, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/8, 1.1/16-1.1/4

COD	UN.	Al-Bron
76453	6	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	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	1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/4
76459	12	1/4-5/16, 5/16-3/8, 3/8-7/16, 1/2-9/16, 9/16-5/8, 5/8-11/16, 3/4-13/16, 13/16-7/8, 15/16-1, 1-1.1/8, 1.1/16-1.1/8, 1.1/16-1.1/4



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Cu-Be cobre berilio / beryllium copper / cuivre beryllium / Kupfer Beryllium / koper beryllium / rame-berillio / СПЛАВ МЕДЬ БЕРИЛЛИЙ
Al-Bron aluminio bronce / aluminium bronze / alliage aluminium-bronze / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЛЮМИНИЙ БРОНЗА

LLAVE ESTRELLA PLANA / DOUBLE ENDED FLAT RING SPANNER / POLYGONALE PLATE / DOPPELRINGSCHLÜSSEL
POLIGONALE DIRITTA / LUNETA DIREITA / ДВОЙНАЯ ИЗОГНУТАЯ ПЛОСКАЯ ЗВЕЗДОЧКА



MM					INCH.				
Cu-Be	Al-Bron	AF	L mm	gr.	Cu-Be	Al-Bron	AF	L mm	gr.
COD					COD				
76817	76818	6-7mm	100	20	76781	76782	7/32"-1/4"	100	20
73960	73961	7-9mm	115	40	76783	76784	1/4"-5/16"	115	40
76819	76820	8-10mm	140	55	76785	76786	5/16"-3/8"	140	55
76821	76822	9-11mm	160	100	76787	76788	3/8"-7/16"	160	95
73962	73963	10-11mm	180	110	76789	76790	7/16"-9/16"	180	110
75418	75419	10-12mm	200	180	77138	77139	1/2"-19/32"	200	180
73964	73965	12-14mm	220	260	76791	76792	1/2"-5/8"	225	250
77130	77131	13-15mm	230	280	76793	76794	9/16"-11/16"	250	350
73966	73967	14-17mm	240	300	76795	76796	5/8"-25/32"	280	430
73968	73969	16-18mm	250	350	76797	76798	11/16"-3/4"	300	550
76084	76085	17-19mm	280	430	77140	77141	11/16"-13/16"	310	650
73970	73971	18-19mm	280	430	76799	76800	3/4"-7/8"	340	750
73972	73973	17-22mm	300	600	76801	76802	13/16"-15/16"	360	1000
73974	73975	19-21mm	310	700	76803	76804	7/8"-15/16"	380	1350
75420	75421	19-22mm	320	750	76805	76806	15/16"-1.1/16"		
73976	73977	20-22mm	340	750	76807	76808	1"-1.1/8"		
73978	73979	21-23mm	350	800	76809	76810	1.1/16"-1.3/16"		
73980	73981	22-24mm	360	1000	77142	77143	1.1/8"-1.5/16"		
73982	73983	24-27mm	360	1000	76811	76812	1.3/16"-1.1/4"		
73984	73985	25-28mm	460	1400	77144	77145	1.1/4"-1.3/8"		
77134	77135	26-28mm			76813	76814	1.1/4"-1.7/16"		
73986	73987	27-30mm			77146	77147	1.5/16"-1.7/16"		
73988	73989	27-32mm			76815	76816	1.7/16"-1.5/8"		
73990	73991	30-32mm			77148	77149	1.1/2"-1.5/8"		
77136	77137	30-36mm							
74771	74772	32-36mm							
74773	74774	36-41mm							

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



MM					INCH.				
Cu-Be	Al-Bron	AF	L mm	gr.	Cu-Be	Al-Bron	AF	L mm	gr.
COD					COD				
70870	70887	9mm	150	160	70904	70920	3/8"	150	160
70871	70888	11mm	155	190	70905	70921	1/2"	155	190
70872	70889	13mm	200	200	70906	70922	9/16"	200	200
70873	70890	14mm	200	200	70907	70923	11/16"	200	200
70874	70891	17mm	220	220	70908	70924	3/4"	220	220
70875	70892	19mm	220	210	70909	70925	7/8"	220	210
70876	70893	22mm	240	230	70910	70926	1"	240	230
70877	70894	24mm	280	260	70911	70927	1.1/16"	280	260
70878	70895	27mm	290	260	70912	70928	1.3/16"	290	260
70879	70896	30mm	295	450	70913	70929	1.1/4"	295	450
70880	70897	32mm	360	550	70914	70930	1.7/16"	360	550
70881	70898	36mm	440	650	70915	70931	1.5/8"	440	650
70882	70899	41mm			70916	70932	1.13/16"		
70883	70900	46mm			70917	70933	2"		
70884	70901	50mm			70918	70934	2.3/16"		
70885	70902	55mm			70919	70935	2.3/8"		
70886	70903	60mm							

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 / Aluminium Bronze / aluminium brons / aluminio bronzo / СПЛАВ АЛЛЮМИНИЙ БРОНЗА



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

LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

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



MM

Cu-Be	COD	Al-Bron	AF	L mm	gr.	
75424		75425		10mm	200	90
75426		75427		11mm	210	100
75428		75429		12mm	220	110
75430		75431		13mm	230	120
75432		75433		14mm	240	140
75434		75435		15mm	250	170
75436		75437		16mm	260	190
75438		75439		17mm		200
77436		77437		18mm		230
75440		75441		19mm		
77438		77439		20mm	270	330
75442		75443		21mm		360
70248		71732		22mm		
76523		76524		23mm		
70249		71733		24mm	290	500
77440		77441		25mm		
77442		77443		26mm	320	
70250		71734		27mm		
77444		77445		28mm		700
77446		77447		29mm	350	
70251		71735		30mm		
70252		71736		32mm	370	800
77448		77449		33mm		
77450		77451		34mm		900
77452		77453		35mm	390	
70253		71737		36mm		
77454		77455		37mm	400	1000
70254		71738		38mm		
70255		71739		41mm	410	
77456		77457		42mm		
70256		71740		44mm	420	1100
70257		71741		46mm		
77458		77459		47mm	430	1300
70258		71742		50mm		
75444		75445		55mm	550	2100
75446		75447		60mm	600	2500

INCH.

Cu-Be	COD	Al-Bron	AF	L mm	gr.	
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		74609		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 BEKRÖPFT MIT DORN / CHIAVE FISSA PER PONTEGGI / CHAVE BOCA INCLINADA PARA ESTRUTURA / КЛЮЧ ГАЕЧНЫЙ ОДНОСТОРОННИЙ ВИЛКОБРАЗНЫЙ СТРОИТЕЛЬНЫЙ



MM

Cu-Be	COD	Al-Bron	AF	L mm	gr.	
75450		75451		17mm	320	210
77490		77491		18mm		300
75452		75453		19mm		
77492		77493		20mm	350	320
77494		77495		21mm		410
75454		75455		22mm		430
77496		77497		23mm		450
75456		75457		24mm		480
77498		77499		25mm		
77500		77501		26mm	370	600
75458		75459		27mm		650
77502		77503		28mm		
77504		77505		29mm	400	750

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

LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

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 VOCA INCLINADA PARA ESTRUTURA / КЛЮЧ ГАЕЧНЫЙ ОДНОСТОРОННИЙ ВИЛКОБРАЗНЫЙ СТРОИТЕЛЬНЫЙ



INCH.

Cu-Be	COD	Al-Bron	AF	L mm	gr.
77520		77521	11/16"	320	200
77522		77523	3/4"	350	300
77524		77525	25/32"		410
77526		77527	13/16"	370	450
77528		77529	7/8"		600
77530		77531	15/16"	400	750
77532		77533	1.1/16"		
77534		77535	1.1/8"		
77536		77537	1.3/16"		
77538		77539	1.1/4"		
77540		77541	1.5/16"		

Cu-Be	COD	Al-Bron	AF	L mm	gr.
77542		77543	1.3/8"	430	900
77544		77545	1.7/16"		
77546		77547	1.1/2"	470	1200
77548		77549	1.9/16"		
77550		77551	1.5/8"		
77552		77553	1.11/16"		
77554		77555	1.3/4"	500	1500
77556		77557	1.13/16"		
77558		77559	1.7/8"		
77560		77561	2"		
				530	1700

LLAVE PARA RACORES / FLARE NUT / CLÉ POLYAGONALE À TUYAUTER / OFFENER DOPPELRINGSCHÜSSEL / CHIAVE PER RACCORDI / LUNETAS ABERTAS COM BATERTE / КЛЮЧ С ОТКРЫТОЙ ЗВЕЗДОЧКОЙ



MM

Cu-Be	COD	Al-Bron	AF	L mm	gr.
77570		77571	6x7mm	95	15
77572		77573	8x10mm	115	30
77574		77575	9x11mm	125	35
77576		77577	10x12mm	140	50
77578		77579	12x14mm	145	65
77580		77581	14x15mm	155	85
77582		77583	14x17mm	165	95
77584		77585	16x18mm	170	120
77586		77587	17x19mm	185	125
77588		77589	19x22mm	200	170
77590		77591	22x24mm	220	220
77592		77593	24x27mm	255	300
77594		77595	24x30mm	270	360
77596		77597	25x28mm	265	
77598		77599	27x30mm	280	410
77600		77601	30x32mm	295	480
77602		77603	30x34mm	310	550
77604		77605	30x36mm	330	650
77606		77607	34x36mm	345	700
77608		77609	36x41mm	365	900

INCH.

Cu-Be	COD	Al-Bron	AF	L mm	gr.
72723		72724	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



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

LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

FIJA DE GOLPE / SLOGGING OPEN WRENCH / À FOURCHE À FRAPPER / SCHLAG MAULSCHLÜSSEL / FISSE AD IMPULSO
BOCA DE IMPACTO / УДАРНЫЙ РОЖКОВЫЙ КЛЮЧ



MM

INCH.

Cu-Be	COD	Al-Bron	AF	L mm	Kg.
70280	71013	14mm	120		
70281	71014	17mm	125		0,1
70282	71015	19mm			
70283	71016	22mm	135		0,2
70284	71017	24mm			
74875	74876	25mm	150		
70285	71018	27mm	165		0,3
74877	74878	28mm			
77278	77279	29mm	180		0,4
70286	71019	30mm			
70287	71020	32mm	190		0,5
77280	77281	33mm			
74847	74848	34mm	200		0,6
77282	77283	35mm			
70288	71021	36mm	210		0,7
77284	77285	37mm			
74341	74342	38mm	220		0,8
70289	71022	41mm			
77286	77287	42mm	230		0,9
77777	77778	45mm			
70290	71023	46mm	240		1,1
77288	77289	47mm			
70291	71024	50mm	250		1,2
77290	77291	52mm			
77292	77293	54mm	270		1,5
70292	71025	55mm			
77294	77295	56mm			
77296	77297	58mm	290		2
70293	71026	60mm			
77298	77299	63mm	310		2,4
70294	71027	65mm			
77300	77301	67mm			
70295	71028	70mm	320		3
77302	77303	71mm			
70296	71029	75mm	340		3,5
77304	77305	77mm			
71007	71030	80mm	360		4
77306	77307	82mm	370		
71008	71031	85mm	380		5
77308	77309	88mm	390		
71009	71032	90mm			
77310	77311	94mm	400		6,5
71010	71033	95mm			
71011	71034	100mm	430		8,5
71012	71035	105mm	440		10
74849	74850	110mm			
74880	74881	115mm	460		
77312	77313	120mm	530		12
74761	74762	125mm	550		
77314	77315	130mm			
77316	77317	135mm	560		18
77318	77319	140mm			
77320	77321	145mm			
77322	77323	150mm	630		24
77324	77325	155mm			

Cu-Be	COD	Al-Bron	AF	L mm	Kg.
71036	71055	9/16"	110		0,2
72105	72113	5/8"			
71037	71056	11/16"	125		0,3
71038	71057	3/4"			
71039	71058	7/8"	135		0,4
71040	71059	15/16"	150		
72106	72114	1"	165		0,6
71041	71060	1.1/16"			
72107	72115	1.1/8"	180		
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"	230		1,6
77330	77331	1.11/16"			
77332	77333	1.3/4"			
71045	71064	1.13/16"	240		
72110	72118	1.7/8"			
71046	71065	2"	250		1,8
77334	77335	2.1/16"			
77336	77337	2.1/8"	270		2,1
71047	71066	2.3/16"			
72111	72119	2.1/4"			
77338	77339	2.5/16"	290		3
71048	71067	2.3/8"			
77340	77341	2.7/16"			
72112	72120	2.1/2"	310		4
71049	71068	2.9/16"			
77342	77343	2.5/8"	320		4,5
74853	74854	2.3/4"			
77344	77345	2.13/16"			
77346	77347	2.15/16"	340		7
71050	71069	3"			
71051	71070	3.1/8"			
74855	74856	3.3/16"	360		8,5
77348	77349	3.1/4"			
74857	74858	3.3/8"			
77350	77351	3.1/2"			
71052	71071	3.9/16"	400		10
77352	77353	3.5/8"			
74859	74860	3.3/4"			
77354	77355	3.7/8"	430		11
71053	71072	4"			
77356	77357	4.1/8"	460		12
71054	71073	4.5/16"			
77358	77359	4.9/16"	500		13
77360	77361	4.11/16"			
77362	77363	4.15/16"	530		16
77364	77365	5.3/8"			
77366	77367	6"	630		23

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LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

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



MM

Cu-Be	COD	Al-Bron	AF	L mm	Kg	Cu-Be	COD	Al-Bron	AF	L mm	Kg
70297		71080	17mm	165	0,2	72653		72699	64mm	300	1,5
70298		71081	19mm			70311		71094	65mm		1,8
72231		72230	20mm			72655		73340	66mm		2,2
70299		71082	22mm			72615		72625	67mm		
70300		71083	24mm			72656		72702	68mm		
72631		72677	25mm	72657		72703	69mm				
71906		72951	26mm	70312		71095	70mm	320	2,7		
70301		71084	27mm	72616		72626	71mm				
72633		72679	28mm	72658		72704	72mm				
72634		72680	29mm	72659		72705	73mm	330	2,9		
70302		71085	30mm	72660		72706	74mm				
72635		72681	31mm	70313		71096	75mm			350	3,2
70303		71086	32mm	72662		72708	76mm				
72609		72619	33mm	72617		72627	77mm				
73326		73331	34mm	72663		72709	78mm	360	3,5		
72610		72620	35mm	72664		72710	79mm				
70304		71087	36mm	70314		71097	80mm			390	5,0
72611		72621	37mm	72665		72711	81mm				
71834		71835	38mm	72666		72712	82mm				
72636		72682	39mm	72667		72713	83mm	420	6,5		
73327		73332	40mm	72668		72714	84mm				
70305		71088	41mm	70315		71098	85mm			450	8,5
73328		73333	42mm	72670		72716	86mm				
72638		72684	43mm	72671		72717	87mm	480	10		
73329		73334	44mm	72672		73342	88mm				
72640		72686	45mm	72673		72719	89mm			500	12
70306		71089	46mm	70316		71099	90mm				
72229		72228	47mm	72675		72721	92mm	550	13		
73330		73335	48mm	72618		72628	94mm				
72642		72688	49mm	70317		71100	95mm			500	14
70307		71090	50mm	73345		73344	98mm				
72643		72689	51mm	70318		71101	100mm	420	7,0		
70308		71091	52mm	71074		71102	105mm				
72644		72690	53mm	71075		71103	110mm			460	8,5
72613		72623	54mm	71076		71104	115mm				
70309		71092	55mm	71077		71105	120mm	480	10		
73470		73394	56mm	71078		71106	125mm				
72647		72693	57mm	71079		71107	130mm			500	12
73471		73395	58mm	72084		72089	135mm				
72648		72694	59mm	72085		72090	140mm	550	13		
70310		71093	60mm	72086		72091	145mm				
72650		72696	61mm	72087		72092	150mm			500	14
72651		72697	62mm	72088		72093	155mm				
72652		72698	63mm	72212		72210	160mm				



LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

ESTRELLA DE GOLPE / SLOGGING RING / POLYAGONALE À FRAPPER / SCHLAG RINGSCHLÜSSEL / POLIGONALE AD IMPULSO
LUNETTA DE IMPACTO / УДАРНЫЙ КЛЮЧ ЗВЕЗДОЧКА



INCH.

COD		AF	L mm	Kg.	COD		AF	L mm	Kg.
Cu-Be	Al-Bron				Cu-Be	Al-Bron			
72121	72127	5/8"	130			71122	71147	2.1/2	
71108	71133	11/16"		0,3		71123	71148	2.9/16"	300
71109	71134	3/4"	165			71124	71149	2.5/8"	1,5
71110	71135	7/8"				71125	71150	2.3/4"	320
75400	72303	15/16"		0,4		77258	77259	2.13/16"	2,3
71111	71136	1"	175			71126	71151	2.15/16"	330
71112	71137	1.1/16"				71127	71152	3"	
72122	72128	1.1/8"				71128	71153	3.1/16"	2,4
71113	71138	1.3/16"	185	0,5		71129	71154	3.1/8"	350
71114	71139	1.1/4"				77260	77261	3.1/4"	3,5
75397	71789	1.5/16"				71130	71155	3.3/8"	3,9
72123	72129	1.3/8"				76850	76851	3.1/2"	4,5
71115	71140	1.13/32"	200	0,6		71131	71156	3.9/16"	390
72301	71791	1.7/16"				76849	76852	3.5/8"	5
72124	72130	1.1/2"				71132	71157	3.3/4"	
75398	71793	1.9/16"				74335	75407	3.7/8"	420
71116	71141	1.5/8"	220	0,7		75408	75409	3.15/16"	6,5
75406	71794	1.11/16"				77262	77263	4"	
72125	72131	1.3/4"				75410	75411	4.1/8"	
71117	71142	1.13/16"	230			74331	74332	4.1/4"	8
72126	72132	1.7/8"		0,8		77264	77265	4.5/16"	
75399	71797	1.15/16"				75412	75413	4.1/2"	450
71118	71143	2"	250			77266	77267	4.9/16"	8,5
75401	71798	2.1/16"				75414	75415	4.5/8"	
75402	71799	2.1/8"	260			75416	75417	4.11/16"	
72954	71800	2.3/16"		1,3		74333	74334	4.7/8"	480
75403	75404	2.13/64"				77268	77269	4.15/16"	
71119	71144	2.1/4"				77270	77271	5.1/8"	510
71120	71145	2.5/16"	270			77272	77273	5.3/8"	12
71121	71146	2.3/8"		1,4		77274	77275	5.11/16"	550
75405	71801	2.7/16"	280			77276	77277	6"	14

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LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

ESTRELLA DE GOLPE ACODADA / OFFSET SLOGGING RING WRENCH / CLÉ POLYGONALE À FRAPPER CONTRE COUDÉE
SCHLAG-RINGSCHLÜSSEL, BEKRÖPFT / POLIGONALE AD IMPULSO A GOMITO / CHAVE LUNETA INCLINADA DE PANCADA
УДАРНЫЙ ИЗОГНУТЫЙ РОЖКОВЫЙ КЛЮЧ



MM

Cu-Be	COD	Al-Bron	AF	L mm	gr.
75465		75466	22mm	220	500
75467		75468	24mm		
74122		74123	27mm	240	650
74124		74125	30mm	270	900
74126		74127	32mm		
74128		74129	36mm	280	1000
74130		74131	41mm	300	1300
74132		74133	46mm	310	1700
74134		74135	50mm	320	2000
73593		73594	55mm		
73595		73596	60mm	350	2700
73597		73598	65mm	380	3200
73599		73600	70mm	400	3800
73601		73602	75mm	420	4200
73603		73604	80mm	430	5200
73605		73606	85mm	440	6200
73607		73608	90mm		
73609		73610	95mm		
73611		73612	100mm		
73613		73614	110mm		7500
73615		73616	120mm		8000

INCH.

Cu-Be	COD	Al-Bron	AF	L mm	gr.
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"	310	1700
76825		76826	1.13/16"		
73665		73666	1.7/8"		
73667		73668	2"		
76827		76828	2.3/16"	320	2000
73669		73670	2.1/4"	380	2700
73671		73672	2.3/8"		
73673		73674	2.1/2"		
76829		76830	2.9/16"		
73675		73676	2.5/8"	400	3200
73677		73678	2.3/4"	420	4200
73679		73680	2.7/8"		
73681		73682	3"		

ESTRELLA DE GOLPE CURVA / CURVED SLOGGING RING WRENCH / CLÉ POLYGONALE À FRAPPER COURBÉE
ZUGSCHLAGRINGSCHLÜSSEL, BEBOGEN / POLIGONALE AD IMPULSO A CURVA / CHAVE LUNETA CURVA DE PANCADA
УДАРНЫЙ ИЗОГНУТЫЙ РОЖКОВЫЙ КЛЮЧ

MM

Cu-Be	COD	Al-Bron	AF	L mm	gr.
74137		74138	24mm	160	300
74139		74140	27mm	170	420
74141		74142	30mm	180	500
74143		74144	32mm	190	520
74145		74146	36mm	210	800
74147		74148	41mm	220	1000
74149		74150	46mm	240	1200
74151		74152	50mm	250	1500
74153		74154	55mm	270	1800
74155		74156	60mm	280	2200
74157		74158	65mm	300	2400
74159		74160	70mm	310	2800



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

LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

ESTRELLA DE UNA BOCA / SINGLE END RING WRENCH / CLÉ POLYGONALE / EINRINGSCHLÜSSEL / POLIGONALE UNA BOCCA / CHAVE LUNETA DE UMA BOCA / КЛЮЧ ОДИНАРНАЯ ЗВЕЗДОЧКА



MM

Cu-Be	COD	Al-Bron	AF	L mm	gr.
73993		73994	8mm	100	25
73995		73996	10mm	110	35
73997		73998	12mm	120	50
76021		76022	13mm	130	75
73999		74000	14mm		
77152		77153	15mm	140	85
74001		74002	16mm	145	120
74003		74004	17mm	150	130
74005		74006	18mm	160	135
74007		74008	19mm	170	170
74009		74010	20mm	175	180
74011		74012	21mm	185	185
74013		74014	22mm	190	195
76718		76719	23mm	210	210
74015		74016	24mm		
76720		76721	25mm	215	250
76722		76723	26mm	230	340
74017		74018	27mm		
76724		76725	28mm	250	450
76726		76727	29mm		
74019		74020	30mm	270	500
74021		74022	32mm	280	650
76728		76729	33mm		
74023		74024	34mm	290	750
77154		77155	35mm	300	850
74025		74026	36mm		
76088		76089	37mm	310	950
74027		74028	38mm	320	1200
74029		74030	41mm	330	1250
77158		77159	42mm		
74031		74032	45mm	340	1400
74033		74034	46mm	350	1500
77160		77161	47mm		
74035		74036	48mm	370	1700
74037		74038	50mm		
77162		77163	52mm	390	1900
77164		77165	54mm		
74039		74040	55mm	410	2200
74041		74042	56mm		
77166		77167	58mm	430	2600
74043		74044	60mm		
77168		77169	63mm	450	3200
74045		74046	65mm		
77170		77171	67mm	470	4000
74047		74048	70mm		
77172		77173	71mm	490	4400
74049		74050	75mm		
77174		77175	77mm	600	4450
74051		74052	80mm		
77176		77177	82mm	650	5500
74053		74054	85mm		
77178		77179	88mm	650	5500
77180		77181	90mm		
77182		77183	94mm		
77184		77185	95mm		

INCH.

Cu-Be	COD	Al-Bron	AF	L mm	gr.
77186		77187	1/2"	130	75
77188		77189	9/16"		
77190		77191	19/32"	140	85
77192		77193	5/8"	145	115
77194		77195	11/16"		
77196		77197	3/4"	170	125
77198		77199	25/32"		
77200		77201	13/16"	190	170
77202		77203	7/8"		
77204		77205	15/16"	215	210
77206		77207	31/32"		
77208		77209	1"	230	260
77210		77211	1.1/16"		
77212		77213	1.1/8"	255	350
77214		77215	1.3/16"		
74641		75471	1.1/4"	260	450
77216		77217	1.5/16"		
77218		77219	1.3/8"	295	500
74643		75472	1.7/16"		
74642		75473	1.1/2"	300	600
77220		77221	1.9/16"		
74644		75474	1.5/8"	330	850
77222		77223	1.11/16"		
77224		77225	1.3/4"	360	1050
74645		75475	1.13/16"		
77226		77227	1.7/8"	400	1400
74646		75476	2"		
74647		74648	2.1/16"	450	1500
77228		77229	2.1/8"		
77230		77231	2.3/16"	475	1750
77232		77233	2.1/4"		
77234		77235	2.5/16"	510	1950
77236		77237	2.3/8"		
77238		77239	2.7/16"	550	2400
77240		77241	2.1/2"		
77242		77243	2.9/16"	590	2800
77244		77245	2.3/4"		
77246		77247	2.15/16"	620	3900
77248		77249	3"		
77250		77251	3.1/8"	650	5500
77252		77253	3.3/8"		
77254		77255	3.1/2"		
77256		77257	3.3/4"		

LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

ESTRELLA DE UNA BOCA ACODADA / OFFSET SINGLE END RING WRENCH / CLÉ POLYGONALE CONTRE COUDÉE
 EINRINGSCHLÜSSEL, BEKRÖPFT / CHIAVE A GOMITO A STELLA UNA BOCCA / CHAVE LUNETA BOCA INCLINADA
 КЛЮЧ ИЗОГНУТАЯ ОДИННАЯ ЗВЕЗДОЧКА

MM

Cu-Be	COD Al-Bron	AF	L mm	gr.
74103	74104	17mm	150	130
74105	74106	19mm	170	170
74107	74108	21mm	185	210
74109	74110	22mm	190	220
74111	74112	24mm	210	280
74113	74114	27mm	230	350
74115	74116	30mm	250	480
74117	74118	32mm	270	600
74119	74120	36mm	290	750



ESTRELLA DE UNA BOCA CURVA / CURVED SINGLE END RING WRENCH / CLÉ POLYGONALE COURBEE / EINRINGSCHLÜSSEL,
 GEBOGEN / POLIGONALE UNA BOCCA CURVA / CHAVE LUNETA UMA BOCCA CURVA / КЛЮЧ ИЗОГНУТАЯ ОДИННАЯ ЗВЕЗДОЧКА

MM

Cu-Be	COD Al-Bron	AF	L mm	gr.
74056	74057	10mm	120	65
74058	74059	12mm	160	90
74060	74061	14mm	150	95
74062	74063	16mm	175	150
74064	74065	17mm		
74066	74067	19mm	200	220
74068	74069	22mm		
74070	74071	24mm		
74072	74073	27mm	250	320
74074	74075	30mm		
74076	74077	32mm	290	550
74078	74079	34mm		
74080	74081	36mm	300	600
74082	74083	38mm		
74084	74085	41mm	340	800
74086	74087	46mm		
74088	74089	50mm	370	1000
74378	74379	51mm		
74090	74091	55mm	400	1250
74092	74093	60mm		
74094	74095	65mm	430	2000
74096	74097	70mm		
74098	74099	75mm	450	2400
74100	74101	80mm		
			470	2500
			490	3500
				3900
				4200



DE VÁLVULA CUADRADA / VALVE SQUARE / CLÉ À VANNE CARREE / VENTILSCHLÜSSEL / VALVOLA QUADRATA / CHAVE DE
 VÁLVULA QUADRADA / КЛЮЧ С КВАДРАТОМ

MM

Cu-Be	COD Al-Bron	AF	L mm	gr.
74162	74163	6mm	110	60
74164	74165	8mm	120	75
74166	74167	9mm	140	90
74168	74169	10mm		
74170	74171	11mm	160	100
74172	74173	12mm		
74174	74175	13mm	190	120
74176	74177	14mm		
74178	74179	16mm	250	170
74180	74181	17mm		
74182	74183	19mm	300	180
74184	74185	22mm		
74186	74187	24mm	350	270
			380	300
			700	380
			950	700
			1200	950



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 / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЮМИНИЙ БРОНЗА

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

LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

DE VASO CUADRADA / SQUARE SOCKET / CLÉ À DOUILLE CARRÉE / QUADRATISCHE EINSATZ / BUSSOLA QUADRATA / CHAVE DE CAIXA QUADRADA / ГОЛОВКА С ВНУТРЕННИМ КВАДРАТОМ

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
74189	74190	3/8"	155	180



CABEZA FIJA / CROW FOOT OPEN END / FOURCHE / NEBESTANGE / TESTA FISSA / CABEÇA FIXA / РОКОВАЯ НАСАДКА ПОД КВАДРАТ

MM

COD		AF	L mm	gr.	
Cu-Be	Al-Bron				
72565	72566	1/2"	14mm	40	
72567	72568		16mm	45	
72569	72570		17mm	60	
72571	72572		19mm	100	
72573	72574		20mm		50
72575	72576		22mm	105	
72577	72578		25mm	55	125
72579	72580		27mm	60	130
72581	72582		28mm		135



INCH.

COD		AF	L mm	gr.	
Cu-Be	Al-Bron				
74814	74815	3/8"	7/16"	50	
74816	74817		1/2"		35
72541	72542		9/16"		55
72543	72544		5/8"		
72545	72546		11/16"	38	90
72547	72548		7/8"	43	
72549	72550		1.1/8"	50	75
72551	72552		1.1/4"	55	125
72553	72554		1.3/8"		
72555	72556		1.1/2"	60	125
72557	72558		1.11/16"	65	160
72559	72560		1.7/8"	70	170
72561	72562		2"	75	175
72563	72564		2.1/4"	80	190

LLAVE DINAMOMÉTRICA / TORQUE WRENCH / CLÉ DYNAMOMETRIQUE / DREHMOMENTSCHLÜSSEL / CHIAVE DINAMOMETRICA / CHAVE DINAMOMETRICA / ДИНАМОМЕТРИЧЕСКИЙ КЛЮЧ

COD		AF	Nm	L mm	gr.
Cu-Be	Al-Bron				
72171	72174	3/8"	100	310	600
72172	72175	1/2"	300	490	1250
72173	72176	3/4"	500	560	1700



COD		AF	Nm	L mm	gr.
Cu-Be	Al-Bron				
74810	74806	3/8"	5-45	360	950
74821	74871	1/2"	40-200	500	1300
74823	74874		250-300	600	1450
75267	75274	3/4"	150-750	1050	5700
74879	74884	1"	200-1000	1250	10000



LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

LLAVE ESTRELLA DE EXTENSIÓN / RING SPANNER FOR EXTENSION / CLÉ POLYAGONALE À RALLONGE / RINGSCHLÜSSEL MIT VERLÄNGERUNG / CHIAVE POLIGONALE PER ESTENSORI / CHAVE DE LUNETAS DE EXTENSÃO / ИЗОГНУТАЯ ЗВЕЗДОЧКА ПОД УДЛИНИТЕЛЬ



MM				INCH					
Cu-Be	Al-Bron	AF	L mm	gr.	Cu-Be	Al-Bron	AF	L mm	gr.
73688	73689	24mm	200	900	77376	77377	1.3/16"	200	900
73472	73396	27mm			77378	77379	1.1/4"	230	
70957	70982	30mm	220	900	77380	77381	1.5/16"	240	1000
70958	70983	32mm			77382	77383	1.3/8"		
77368	77369	33mm	230	900	77384	77385	1.7/16"	260	1000
70959	70984	34mm			77386	77387	1.1/2"		
70960	70985	35mm	250	1200	77388	77389	1.9/16"	280	1500
70961	70986	36mm			77390	77391	1.5/8"		
70962	70987	37mm	270	1600	77392	77393	1.11/16"	290	1600
70963	70988	38mm			77394	77395	1.3/4"		
70964	70989	41mm	280	1700	77396	77397	1.13/16"	300	1700
70965	70990	42mm			77398	77399	1.7/8"		
70966	70991	46mm	290	1800	77400	77401	2"	345	2800
70967	70992	47mm			77402	77403	2.1/16"		
70968	70993	50mm	310	2000	77404	77405	2.1/8"	355	3200
70969	70994	52mm			77406	77407	2.3/16"		
70970	70995	54mm	320	2200	77408	77409	2.1/4"	365	3700
70971	70996	55mm			77410	77411	2.5/16"		
70972	70997	56mm	330	2700	77412	77413	2.3/8"	375	4100
70973	70998	58mm			77414	77415	2.7/16"		
70974	70999	60mm	340	3300	77416	77417	2.1/2"	385	4900
70975	71000	63mm			77418	77419	2.9/16"		
70976	71001	65mm	380	4900	77420	77421	2.5/8"	385	4900
70977	71002	67mm			77422	77423	2.3/4"		
70978	71003	70mm	380	4900	77424	77425	2.13/16"	385	4900
70979	71004	71mm			77426	77427	2.15/16"		
70980	71005	75mm	380	4900	77428	77429	3"	385	4900
70981	71006	77mm			77430	77431	3.1/8"		
77370	77371	80mm	380	4900	77432	77433	3.1/4"	385	4900
77372	77373	82mm			77434	77435	3.3/8"		
77374	77375	85mm							

COD	L	Ø	mm	inch.	gr.
72612	460	19	24-30	1.3/16"	800
72605	610	22	32-42	1.1/4"-1.11/16"	900
72606	760	25	46-58	1.3/4"-2.5/16"	1600
72607	860	30	60-85	2.3/8"-3.3/8"	2500

latón / brass / laiton

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Cu-Be cobre berilio / beryllium copper / cuivre beryllium / Kupfer Beryllium / koper beryllium / rame-berillio / СПЛАВ МЕДЬ БЕРИЛЛИЙ
Al-Bron aluminio bronce / aluminium bronze / alliage aluminium-bronze / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЛЮМИНИЙ БРОНЗА

LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

FIJA DE UNA BOCA / SINGLE ENDED OPEN JAW SPANNER / À FOURCHE / EINMAULSCHLÜSSEL / FISSE SEMPLICE
FIXA DE UMA BOCA / РОЖКОВЫЙ КЛЮЧ



MM

COD		AF	L mm	gr.	COD		AF	L mm	gr.
Cu-Be	Al-Bron				Cu-Be	Al-Bron			
75385	75386	5mm	75	30	75389	75390	38mm	310	490
70259	70936	6mm	85	40	74344	74345	39mm	320	500
70260	70937	7mm			73300	73305	40mm		
70261	70938	8mm	90	50	70274	70951	41mm	340	550
70262	70939	9mm			74346	73306	42mm		
70263	70940	10mm	100	70	73302	73307	44mm	350	850
70264	70941	11mm			75391	75392	45mm		
72939	71807	12mm	110	50	70275	70952	46mm	370	1000
72940	71808	13mm	120		73303	73308	48mm		
70265	70942	14mm	125	70	70276	70953	50mm	400	1200
72941	71809	15mm	130		73304	73309	52mm		
72942	71810	16mm	135	85	77000	77001	54mm	420	1400
70266	70943	17mm	145		70277	70954	55mm		
72943	71811	18mm	150	100	77002	77003	56mm	450	1800
70267	70944	19mm	155		77004	77005	58mm		
72944	71812	20mm	165	150	70278	70955	60mm	550	2100
72945	71813	21mm	170		77006	77007	63mm		
70268	70945	22mm	180	200	70279	70956	65mm	600	3000
72946	71814	23mm	190		77008	77009	67mm		
70269	70946	24mm	195	250	75393	75394	70mm	500	3200
72947	71815	25mm	210		77010	77011	71mm		
72948	71816	26mm	220	270	75395	75396	75mm	550	3400
70270	70947	27mm			230	77012	77013		
72949	71817	28mm	230	300	77014	77015	80mm	600	3500
72950	71818	29mm	240		77016	77017	82mm		
70271	70948	30mm	250	400	77018	77019	85mm	600	3500
72955	72911	31mm	260		77020	77021	88mm		
70272	70949	32mm	270	490	77022	77023	90mm	600	3500
75387	75388	34mm	290		77024	77025	94mm		
70273	70950	36mm	300	490	77026	77027	95mm	600	3500
74403	74404	37mm	310		77028	77029	100mm		

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LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

FIJA DE UNA BOCA / SINGLE ENDED OPEN JAW SPANNER / À FOURCHE / EINMAULSCHLÜSSEL / FISSE SEMPLICE
FIXA DE UMA BOCA / РОЖКОВЫЙ КЛЮЧ



INCH

Cu-Be	COD		AF	L mm	Gr.	Cu-Be	COD		AF	L mm	Gr.
	Al-Bron						Al-Bron				
77030	77031		5/16"	90	20	77082	77083		1.11/16"		
77032	77033		3/8"			77084	77085		1.3/4"	350	1100
77034	77035		13/32"	100	35	77086	77087		1.13/16"		1200
77036	77037		7/16"	105		77088	77089		1.7/8"	375	1450
77038	77039		1/2"	125	55	77090	77091		2"		
77040	77041		9/16"			77092	77093		2.1/16"		
77042	77043		19/32"			77094	77095		2.1/8"	400	1800
77044	77045		5/8"	140	95	76751	76752		2.3/16"		
77046	77047		11/16"			77096	77097		2.1/4"		
77048	77049		3/4"	155	110	77098	77099		2.5/16"		
77050	77051		25/32"	170	185	77100	77101		2.3/8"	425	2300
77052	77053		13/16"	180	200	77102	77103		2.7/16"		
77054	77055		7/8"	195	220	77104	77105		2.1/2"		
77056	77057		15/16"	225	310	77106	77107		2.9/16"	450	3050
77058	77059		31/32"	255	420	77108	77109		2.5/8"		
77060	77061		1"	275	560	76753	76754		2.3/4"	475	3400
77062	77063		1.1/16"	300	850	77110	77111		2.13/16"		
77064	77065		1.1/8"	325	1000	77112	77113		2.15/16"	500	4150
77066	77067		1.3/16"			77114	77115		3"		
77068	77069		1.1/4"			77116	77117		3.1/8"	525	5100
77070	77071		1.5/16"			77118	77119		3.1/4"	545	5600
77072	77073		1.3/8"			77120	77121		3.3/8"	555	5850
77074	77075		1.7/16"			77122	77123		3.1/2"		
77076	77077		1.1/2"			77124	77125		3.5/8"	560	6000
77078	77079		1.9/16"			77126	77127		3.3/4"	565	6100
77080	77081		1.5/8"			77128	77129		3.7/8"		

FIJA DE UNA BOCA CURVA / BEND SINGLE OPEN END / À UNE FOURCHE COURBÉE / GEBOGEN MAUL / FISSA AD UNA BOCCA CURVA / FIXA DE UMA BOCA CURVA / ИЗГНУТЫЙ РОЖКОВЫЙ

MM

Cu-Be	COD		AF	L mm	Gr.
	Al-Bron				
73909	73910		12mm	120	50
73911	73912		14mm	130	80
73913	73914		17mm	150	120
73915	73916		19mm		
75479	75480		21mm	170	170
73917	73918		22mm	190	240
73919	73920		24mm	210	250
75481	75482		26mm		350
73921	73922		27mm	230	
75483	75484		28mm		370
75485	75486		29mm		
73923	73924		30mm	250	470
73925	73926		32mm	270	550
73927	73928		34mm	280	700
73929	73930		36mm	290	800
73931	73932		41mm	310	1000
73933	73934		46mm	330	1300
73935	73936		50mm	350	1500
73937	73938		55mm	370	2000



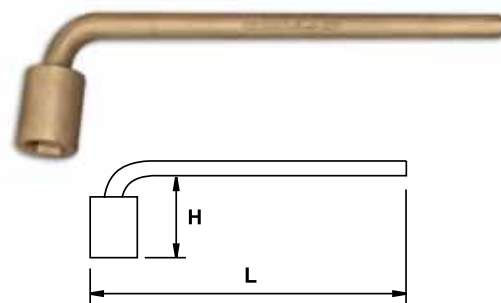
35 ANTICHISPA / NON-SPARKING / ANTI-DEFLAGRANT / FUNKENFREI ANTISCINTILLA / ANTI-DEFLAGRANTE / ИСКРОБЕЗОПАСНЫЙ

LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

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

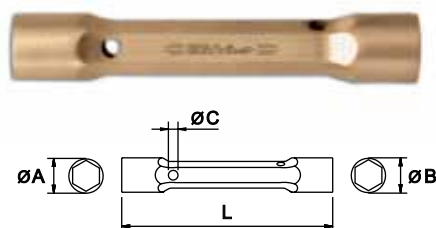
MM

COD		AF	L	H	gr.
Cu-Be	Al-Bron		mm	mm	
75489	75490	6mm	120	29	100
75491	75492	7mm	130	30	120
70417	71361	8mm	145	33	140
70418	71362	9mm	155	37	180
73312	73319	10mm	170		190
70419	71363	11mm	190	39	210
73313	73320	12mm	210	42	
73314	73321	13mm		45	240
70420	71364	14mm	240		290
73315	73322	15mm		48	330
73316	73323	16mm	250		450
70421	71365	17mm		50	500
75493	75494	18mm	260		
70422	71366	19mm		55	550
75495	75496	20mm	270		
75497	75498	21mm			700
70423	71367	22mm	280	60	
75499	75500	23mm			750
70424	71368	24mm		65	800
75501	75502	25mm			
75503	75504	26mm	290		
70425	71369	27mm		70	850
75505	75506	28mm			
75507	75508	29mm	300	75	950
73317	73324	30mm			
73318	73325	32mm	310	80	
75509	75510	33mm	320		1100
75511	75512	34mm			
75513	75514	35mm		85	
72916	72914	36mm	330		1200
75515	75516	37mm			
75517	75518	38mm			
72917	72915	41mm	350	90	1300
75519	75520	42mm			
75521	75522	46mm			1700
75523	75524	47mm	360		
75525	75526	50mm	370	95	2000
77610	77611	52mm			
77612	77613	54mm			2300
75527	75528	55mm			
77614	77615	56mm	380		
77616	77617	58mm			2600
75529	75530	60mm		100	
77618	77619	63mm			2700
75531	75532	65mm			
77620	77621	67mm	390	105	3000
75533	75534	70mm			
77622	77623	71mm			4100
77624	77625	75mm	420	110	4400
77626	77627	77mm			4600
77628	77629	80mm			4800
77630	77631	82mm	430	120	6800



DE TUBO DOBLE BOCA / SOCKET DOUBLE ENDED / CLÉ À TUBE FORGÉE DROITE / DOPPEL-STECKSCHLÜSSEL / CHIAVI A TUBO / DIRITTE TUBOLARES BOCA DUPLA / ДВОЙНАЯ ГОЛОВКА

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



NEW

LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

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



MM

COD		AF	L	gr.	COD		AF	L	gr.
Cu-Be	Al-Bron		mm		Cu-Be	Al-Bron		mm	
77632	77633	8mm	130	90	77688	77689	37mm	280	1500
77634	77635	9mm		95	77690	77691	38mm		1650
77636	77637	10mm		105	77692	77693	41mm		1950
77638	77639	11mm	150	120	77694	77695	42mm	285	2150
77640	77641	12mm		140	77696	77697	46mm		2300
77642	77643	13mm		150	77698	77699	47mm		2450
77644	77645	14mm			77700	77701	50mm		3350
77646	77647	15mm	170	170	77702	77703	52mm	320	3400
77648	77649	16mm			77704	77705	54mm		3500
77650	77651	17mm	190	190	77706	77707	55mm		3550
77652	77653	18mm		320	77708	77709	56mm		3550
77654	77655	19mm		370	77710	77711	58mm		4100
77656	77657	20mm		400	77712	77713	60mm	360	4400
77658	77659	21mm		470	77714	77715	63mm		4850
77660	77661	22mm	240	500	77716	77717	65mm		5150
77662	77663	23mm		600	77718	77719	67mm	380	5450
77664	77665	24mm		700	77720	77721	70mm		5900
77666	77667	25mm		750	77722	77723	71mm		5900
77668	77669	26mm	270	800	77724	77725	75mm		6450
77670	77671	27mm		850	77726	77727	77mm		6700
77672	77673	28mm		900	77728	77729	80mm	400	6850
77674	77675	29mm			77730	77731	82mm		7100
77676	77677	30mm		950	77732	77733	85mm		7500
77678	77679	32mm		1050	77734	77735	88mm		7750
77680	77681	33mm	280	1100	77736	77737	90mm	420	9000
77682	77683	34mm		1200	77738	77739	94mm		9200
77684	77685	35mm		1350	77740	77741	95mm	450	9200
77686	77687	36mm		1450	77742	77743	100mm		9250

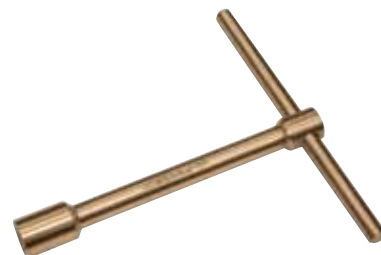
PASADOR PARA LLAVE DE VASO EN "T" / BAR FOR THE T-SOCKET WRENCH / GOUPILLE POUR DOUILLE EN "T" / QUERSTAB FÜR "T" STECK-SCHLÜSSEL / PIN PER CHIAVE A BUSSOLA A T / EXTENSOR PARA CHAVE DE CAIXA EM T / ВОРОТОК ДЛЯ "Т"-ОБРАЗНОГО КЛЮЧА



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

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

COD		AF	L	gr.
Cu-Be	Al-Bron		mm	
71370	71381	9mm		
71371	71382	11mm	170	250
71372	71383	14mm		
71373	71384	17mm		
71374	71385	19mm	230	400
71375	71386	22mm		
71376	71387	24mm	260	750
71377	71388	27mm		
71378	71389	30mm		
71379	71390	32mm	300	900
72096	72097	36mm	350	950
71380	71391	38mm	400	1000



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 / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЮМИНИЙ БРОНЗА

LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

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

Cu-Be	COD	Al-Bron	AF	L mm	gr.
73951		73952	8mm	210	130
73953		73954	10mm		140
73955		73956	12mm		145
73957		73958	14mm		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

Cu-Be	COD	Al-Bron	AF	L mm	gr.
74192		74193	10mm	150	250
74194		74195	12mm	170	280
74196		74197	14mm		380
74198		74199	17mm	190	450
74200		74201	19mm	220	600
74202		74203	22mm	240	650
74204		74205	24mm	260	900
74206		74207	27mm		950
74208		74209	30mm	280	1200
74210		74211	32mm		1400
74212		74213	36mm	300	1700
74214		74215	41mm		1900

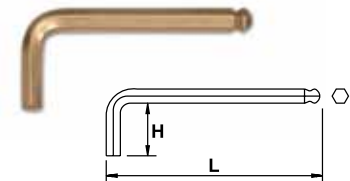


LLAVES HEXAGONALES DE BOLA / BALLPOINT HEXAGONAL KEYS / CLÉS MÂLES À TÊTE SPHÉRIQUE / KUGELKOPF INBUSSCHLÜSSEL / CHIAVI ESAGONALI CON TESTA SFERICA / CHAVES HEXAGONAIS ESFERICAS / ШЕСТИГРАННЫЕ КЛЮЧИ С ШАРОВОЙ ГОЛОВКОЙ

STANDARD

MM

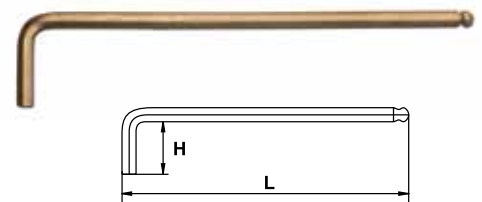
Cu-Be	COD	Al-Bron	AF	L mm	H mm	gr.
75553		75554	2mm	50	16	5
72177		72184	3mm	63	20	
72178		72185	4mm	70	25	10
72179		72186	5mm	80	28	20
72180		72187	6mm	90	32	30
75555		75556	7mm	95	34	50
72181		72188	8mm	100	36	55
75557		75558	9mm	106	38	85
72182		72189	10mm	112	40	100
75559		75560	11mm	118	42	140
72183		72190	12mm	125	45	160



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

MM

COD	Cu-Be	AF	L mm	H mm	gr.
77562	2mm	100	26	7	
70410	3mm	128		8	
70411	4mm	144	30	17	
70412	5mm	163	34	31	
70413	6mm	184	41	50	
77566	7mm	190		65	
70414	8mm	190	47	100	
77568	9mm	210		125	
70415	10mm	220	54	150	
70416	12mm	270	60	350	



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



MM						INCH.							
Cu-Be	Al-Bron	COD	AF	L	H	gr.	Cu-Be	Al-Bron	COD	AF	L	H	gr.
72239	72238		1,5mm				75537	75538		1/16"			
70391	71287		2mm	38	13	5	72933	72932		5/64"	38	13	5
72929	72928		2,5mm				72935	72934		3/32"			
70392	71288		3mm	59		10	75539	75540		7/64"	58	24	
70393	71289		4mm	65	25		71306	71330		1/8"			
70394	71290		5mm	79	30	15	71307	71331		9/64"	64	29	10
74357	74358		5,5mm				71308	71332		5/32"	65	30	
70395	71291		6mm	85	32	20	71309	71333		3/16"	79	31	15
70396	71292		7mm	88	43	30	71310	71334		7/32"	85	37	20
70397	71293		8mm	92	44	45	71311	71335		1/4"			30
70398	71294		9mm	97		55	75541	75542		9/32"	88	43	40
70399	71295		10mm	110	45	70	71312	71336		5/16"	92	44	45
72241	72240		11mm	119	48	90	75543	75544		11/32"	97		50
70400	71296		12mm	130	52	130	71313	71337		3/8"	110	45	80
72243	72242		13mm	140	54	160	71314	71338		7/16"	119	48	100
70401	71297		14mm	150	58	190	71315	71339		1/2"	140	55	170
74629	74634		15mm	156	60	240	71316	71340		9/16"	150	58	190
72931	72930		16mm	162	63	280	71317	71341		5/8"	162	63	260
70402	71298		17mm	168	65	350	71318	71342		11/16"	168	65	350
72245	72244		18mm	173	69	420	71319	71343		3/4"	178	73	450
70403	71299		19mm	177	72	450	75545	75546		13/16"	184	77	550
74630	74631		20mm				71320	71344		7/8"	187	79	650
74632	74633		21mm	184	74	600	75547	75548		15/16"	192	82	800
70404	71300		22mm	186	77	650	71321	71345		1"	200	85	900
75228	75229		23mm			700	71322	71346		1.1/16"	213	93	
70405	71301		24mm		82	800	71323	71347		1.1/8"	222	95	1200
75230	75231		25mm	200		850	75549	75550		1.3/16"	240	105	1400
75232	75233		26mm	206	90	1000	71324	71348		1.1/4"	266	116	1900
70406	71302		27mm	213	93	1200	71325	71349		1.5/16"	280	122	2300
75234	75235		28mm	222	95	1300	71326	71350		1.3/8"			2700
75236	75237		29mm	230	100	1400	71327	71351		1.7/16"	294	128	
75238	75239		30mm	240	105	1500	71328	71352		1.1/2"	304	133	3500
70407	71303		32mm	266	116	2000	71329	71353		1.5/8"	320	140	4000
70408	71304		36mm	294	128	2700							
70409	71305		41mm	320	140	4000							

SET MM

Cu-Be	Al-Bron	COD	gr.
74352	74353	1,5-2-2,5-3-4-5-5,5-6-8-10	370



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

LLAVES DE VASO / SOCKET WRENCHES / DOUILLES / STECKSCHLÜSSEL / BUSSOLE /
CHAVES DE CAIXA / ГОЛОВКИ
1/4"



MM

Cu-Be	COD	Al-Bron	AF	L mm	gr.	
71909		71930	4mm	25	10	
75562		75563	4,5mm			
71910		71931	5mm			
75551		75552	5,5mm			
71911		71932	6mm			
71912		71933	7mm			
71913		71934	8mm			12
71914		71935	9mm			
71915		71936	10mm			15
71916		71937	11mm			
71917		71938	12mm	20		
71918		71939	13mm			
71919		71940	14mm	26	25	
75564		75565	15mm			
75566		75567	16mm	27	30	
75568		75569	17mm			
75570		75571	18mm			
75572		75573	19mm			35

INCH.

Cu-Be	COD	Al-Bron	AF	L mm	gr.		
75574		75575	5/32"	25	10		
71920		71941	3/16"				
71921		71942	7/32"				
71922		71943	1/4"				
71923		71944	9/32"				
71924		71945	5/16"			15	
71925		71946	11/32"				
71926		71947	3/8"			28	20
71927		71948	7/16"				
71928		71949	1/2"				
71929		71950	9/16"	25			



MM

Cu-Be	COD	Al-Bron	AF	L mm	gr.	
74406		74427	4mm	25	10	
75576		75577	4,5mm			
74407		74428	5mm			
75578		75579	5,5mm			
74408		74429	6mm			
74409		74430	7mm			
74410		74431	8mm			12
74411		74432	9mm			
74412		74433	10mm			15
74413		74434	11mm			
74414		74435	12mm	20		
74415		74436	13mm			
74416		74437	14mm	26	25	
75580		75581	15mm			
75582		75583	16mm	27	30	
75584		75585	17mm			
75586		75587	18mm			
75588		75589	19mm			35

INCH.

Cu-Be	COD	Al-Bron	AF	L mm	gr.		
75590		75591	5/32"	25	10		
74417		74438	3/16"				
74418		74439	7/32"				
74419		74440	1/4"				
74420		74441	9/32"				
74421		74442	5/16"			15	
74422		74443	11/32"				
74423		74444	3/8"			28	20
74424		74445	7/16"				
74425		74446	1/2"				
74426		74447	9/16"	25			

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

1/4"



NEW

MM

Cu-Be	Al-Bron	AF	L mm	gr.
78741	78742	4mm	50	38
78743	78744	4,5mm		
78745	78746	5mm		
78747	78748	5,5mm		
78749	78750	6mm		
78751	78752	7mm		
78753	78754	8mm		
78755	78756	9mm		
78757	78758	10mm		
78759	78760	11mm		
78761	78762	12mm		
78763	78764	13mm		
78765	78766	14mm		
78767	78768	15mm		
78769	78770	16mm		
78771	78772	17mm		
78773	78774	18mm		
78775	78776	19mm		
				44
				47
				50
				55
				60
				70
				80
				85
				95

INCH.

Cu-Be	Al-Bron	AF	L mm	gr.	
78777	78778	5/32"	50	38	
78779	78780	3/16"			
78781	78782	7/32"			
78783	78784	1/4"			
78785	78786	9/32"			
78787	78788	5/16"			
78789	78790	11/32"			
78791	78792	3/8"			
78793	78794	7/16"			
78795	78796	1/2"			
78797	78798	9/16"			
					40
					44
					47
					50
					55



NEW

MM

Cu-Be	Al-Bron	AF	L mm	gr.
78799	78800	4mm	50	38
78801	78802	4,5mm		
78803	78804	5mm		
78805	78806	5,5mm		
78807	78808	6mm		
78809	78810	7mm		
78811	78812	8mm		
78813	78814	9mm		
78815	78816	10mm		
78817	78818	11mm		
78819	78820	12mm		
78821	78822	13mm		
78823	78824	14mm		
78825	78826	15mm		
78827	78828	16mm		
78829	78830	17mm		
78831	78832	18mm		
78833	78834	19mm		
				44
				47
				50
				55
				60
				70
				80
				85
				95

INCH.

Cu-Be	Al-Bron	AF	L mm	gr.	
78835	78836	5/32"	50	38	
78837	78838	3/16"			
78839	78840	7/32"			
78841	78842	1/4"			
78843	78844	9/32"			
78845	78846	5/16"			
78847	78848	11/32"			
78849	78850	3/8"			
78851	78852	7/16"			
78853	78854	1/2"			
78855	78856	9/16"			
					40
					44
					47
					50
					55




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 / Aluminium Bronze / aluminium brons / aluminio bronzo / СПЛАВ АЛЮМИНИЙ БРОНЗА



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

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

COD				
Cu-Be	Al-Bron			
71955	71956	1/4"	130	400



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

COD				
Cu-Be	Al-Bron			
71959	71961	1/4"	4"	200
71960	71962		8"	400



CARRACA MACHO-HEMBA / MALE-FEMALE RATCHET / CLIQUET MALE-FEMELLE / RATSCHKE DOPPELT FUNKTION /
CRICCO MASCHIO-FEMMINA / ROQUETE MACHO-FÊMEA / ТРЕЩЕТКА ПАПА-МАМА

COD				
Cu-Be	Al-Bron			
73722	73723	1/4"	200	350



MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNEE COULISSANTE / T-GLEITGRIFF / ASTA CON QUADRO
SCORREVOLE "T" / CABO "T" CORREDIÇO / Т-ОБРАЗНАЯ С ПЛАВУЮЩЕЙ РУЧКОЙ

COD				
Cu-Be	Al-Bron			
71957	71958	1/4"	10"	250





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

COD				
Cu-Be	Al-Bron			
71953	71954	1/4"	55	150







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

COD			
Cu-Be	Al-Bron		
75718	75719	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					
Cu-Be	Al-Bron				
73692	73693	3mm	1/4"	55	20
73694	73695	4mm			
73696	73697	5mm			
73698	73699	6mm		65	55
73700	73701	7mm			
73702	73703	8mm			
73704	73705	9mm			
73706	73707	10mm	65		



DESTORNILLADOR PORTAVASOS / SOCKET HOLDER / TOURNEVIS PORTE DOUILLE / SCHRAUBENDREHERHALTER / CACCIAVITI
PORTABUSSOLA / CHAVE PORTA CHAVES DE CAIXA / ДЕРЖАТЕЛЬ ГОЛОВОК

COD					
Cu-Be	Al-Bron				
73731	73732	1/4"	55	195	60



LLAVES DE VASO / SOCKET WRENCHES / DOUILLES / STECKSCHLÜSSEL / BUSSOLE /
CHAVES DE CAIXA / ГОЛОВКИ
3/8"



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

INCH.	COD		AF	L mm	gr.	
	Cu-Be	Al-Bron				
75624	75625	5/16"	32	20		
75626	75627	3/8"				
75628	75629	7/16"				
75630	75631	1/2"				
75632	75633	9/16"				
75634	75635	5/8"			35	65
75636	75637	11/16"				
75638	75639	3/4"				
75640	75641	13/16"				
75642	75643	7/8"				
75644	75645	15/16"				



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

INCH.	COD		AF	L mm	gr.	
	Cu-Be	Al-Bron				
75678	75679	5/16"	32	20		
75680	75681	3/8"				
75682	75683	7/16"				
75684	75685	1/2"				
75686	75687	9/16"				
75688	75689	5/8"			35	65
75690	75691	11/16"				
75692	75693	3/4"				
75694	75695	13/16"				
75696	75697	7/8"				
75698	75699	15/16"				

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Cu-Be cobre berilio / beryllium copper / cuivre beryllium / Kupfer Beryllium / koper beryllium / rame-berillio / СПЛАВ МЕДЬ БЕРИЛЛИЙ
Al-Bron aluminio bronce / aluminium bronze / alliage aluminium-bronze / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЛЮМИНИЙ БРОНЗА



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

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

3/8"



NEW

MM					INCH.				
Cu-Be	Al-Bron	AF	L mm	gr.	Cu-Be	Al-Bron	AF	L mm	gr.
78857	78858	5mm	60	85	78887	78888	5/16"	60	85
78859	78860	5,5mm			78889	78890	3/8"		100
78861	78862	6mm			78891	78892	7/16"		105
78863	78864	7mm			78893	78894	1/2"		105
78865	78866	8mm			78895	78896	9/16"		105
78867	78868	9mm			78897	78898	5/8"		115
78869	78870	10mm			78899	78900	11/16"		125
78871	78872	11mm			78901	78902	3/4"		130
78873	78874	12mm		78903	78904	13/16"	145		
75966	75967	13mm		78905	78906	7/8"	155		
78875	78876	14mm		78907	78908	15/16"	190		
78877	78878	15mm							
78879	78880	16mm							
78881	78882	17mm							
78883	78884	19mm							
78885	78886	20mm							



NEW

MM					INCH.				
Cu-Be	Al-Bron	AF	L mm	gr.	Cu-Be	Al-Bron	AF	L mm	gr.
78909	78910	5mm	60	85	78941	78942	5/16"	60	85
78911	78912	5,5mm			78943	78944	3/8"		100
78913	78914	6mm			78945	78946	7/16"		105
78915	78916	7mm			78947	78948	1/2"		105
78917	78918	8mm			78949	78950	9/16"		105
78919	78920	9mm			78951	78952	5/8"		115
78921	78922	10mm			78953	78954	11/16"		125
78923	78924	11mm			78955	78956	3/4"		130
78925	78926	12mm		78957	78958	13/16"	145		
78927	78928	13mm		78959	78960	7/8"	155		
78929	78930	14mm		78961	78962	15/16"	190		
78931	78932	15mm							
78933	78934	16mm							
78935	78936	17mm							
78937	78938	19mm							
78939	78940	20mm							

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

COD				
Cu-Be	Al-Bron			
75700	75701	3/8"	200	400



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

COD				
Cu-Be	Al-Bron			
75702	75703	3/8"	8"	400
75704	75705		10"	500



CARRACA MACHO-HEMBRA / MALE-FEMALE RATCHET / CLIQUET MALE-FEMELLE / RATSCHKE DOPPELT FUNKTION /
CRICCO MASCHIO-FEMMINA / ROQUETE MACHO-FÊMEA / ТРЕЩЕТКА ПАПА-МАМА

COD				
Cu-Be	Al-Bron			
75706	75707	3/8"	200	350



MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNEE COULISSANTE / T-GLEITGRIFF / ASTA CON QUADRO
SCORREVOLE "T" / CABO "T" CORREDIÇO / Т-ОБРАЗНАЯ С ПЛАВАЮЩЕЙ РУЧКОЙ

COD				
Cu-Be	Al-Bron			
75708	75709	3/8"	10"	250



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

COD				
Cu-Be	Al-Bron			
75710	75711	3/8"	175	220



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

COD				
Cu-Be	Al-Bron			
75712	75713	3/8"	200	300



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

COD				
Cu-Be	Al-Bron			
75714	75715	3/8"	70	150



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

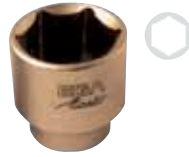
COD			
Cu-Be	Al-Bron		
75716	75717	3/8"-1/4"	20
75722	75723	3/8"-1/2"	50



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

LLAVES DE VASO / SOCKET WRENCHES / DOUILLES / STECKSCHLÜSSEL / BUSSOLE /
CHAVES DE CAIXA / ГОЛОВКИ

1/2"



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

INCH.		COD	AF	L mm	gr.
Cu-Be	Al-Bron				
71184	71202		1/4"	40	60
71185	71203		5/16"		
71186	71204		3/8"		
71187	71205		7/16"		
71188	71206		1/2"		
71189	71207		9/16"		
71190	71208		19/32"	80	
71191	71209		5/8"		
71192	71210		11/16"		
71193	71211		3/4"	90	
71194	71212		25/32"		
71195	71213		13/16"		
71196	71214		7/8"	100	
71197	71215		15/16"		
71198	71216		1"		
71199	71217		1.1/16"	120	
71200	71218		1.1/8"		
77788	77789		1.3/16"		
71201	71219		1.1/4"	140	
				150	
				200	
				250	
				300	



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

INCH.		COD	AF	L mm	gr.
Cu-Be	Al-Bron				
74502	74520		1/4"	40	60
74503	74521		5/16"		
74504	74522		3/8"		
74505	74523		7/16"		
74506	74524		1/2"		
74507	74525		9/16"		
74508	74526		19/32"	80	
74509	74527		5/8"		
74510	74528		11/16"		
74511	74529		3/4"	90	
74512	74530		25/32"		
74513	74531		13/16"		
74514	74532		7/8"	100	
74515	74533		15/16"		
74516	74534		1"		
74517	74535		1.1/16"	120	
74518	74536		1.1/8"		
77790	77791		1.3/16"		
74519	74537		1.1/4"	140	
				150	
				200	
				250	
				300	

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

1/2"



MM	COD	AF	L mm	gr.
Cu-Be	Al-Bron			
35000	35001	6mm	190	
35002	35003	7mm		
35004	35005	8mm		
35006	35007	9mm		
35008	35009	10mm		
35010	35011	11mm		
35012	35013	12mm		
74284	74285	13mm		
35014	35015	14mm		
35016	35017	15mm		
74294	74295	16mm		
74286	74287	17mm		
35018	35019	18mm		
74288	74289	19mm		
35020	35021	20mm		
35022	35023	21mm		
35024	35025	22mm		
35026	35027	23mm		
74290	74291	24mm		
35028	35029	25mm		
35030	35031	26mm		
74292	74293	27mm		
35032	35033	28mm		
35034	35035	29mm		
35036	35037	30mm		
35038	35039	32mm		
35040	35041	34mm		
35042	35043	36mm		

INCH.	COD	AF	L mm	gr.
Cu-Be	Al-Bron			
35044	35045	1/4"	82	
35046	35047	5/16"		
35048	35049	3/8"		
35050	35051	7/16"		
35052	35053	1/2"		
35054	35055	9/16"		
35056	35057	19/32"		
35058	35059	5/8"		
35060	35061	11/16"		
35062	35063	3/4"		
35064	35065	25/32"		
35066	35067	13/16"		
35068	35069	7/8"		
35070	35071	15/16"		
35072	35073	1"		
35074	35075	1.1/16"		
35076	35077	1.1/8"		
35078	35079	1.3/16"		
35080	35081	1.1/4"		
35082	35083	1.7/16"		



MM	COD	AF	L mm	gr.
Cu-Be	Al-Bron			
35084	35085	6mm	190	
35086	35087	7mm		
35088	35089	8mm		
35090	35091	9mm		
35092	35093	10mm		
35094	35095	11mm		
35096	35097	12mm		
35098	35099	13mm		
35100	35101	14mm		
35102	35103	15mm		
35104	35105	16mm		
35106	35107	17mm		
35108	35109	18mm		
35110	35111	19mm		
35112	35113	20mm		
35114	35115	21mm		
35116	35117	22mm		
35118	35119	23mm		
35120	35121	24mm		
35122	35123	25mm		
35124	35125	26mm		
35126	35127	27mm		
35128	35129	28mm		
35130	35131	29mm		
35132	35133	30mm		
35134	35135	32mm		
35136	35137	34mm		
35138	35139	36mm		

INCH.	COD	AF	L mm	gr.
Cu-Be	Al-Bron			
35140	35141	1/4"	82	
35142	35143	5/16"		
35144	35145	3/8"		
35146	35147	7/16"		
35148	35149	1/2"		
35150	35151	9/16"		
35152	35153	19/32"		
35154	35155	5/8"		
35156	35157	11/16"		
35158	35159	3/4"		
35160	35161	25/32"		
35162	35163	13/16"		
35164	35165	7/8"		
35166	35167	15/16"		
35168	35169	1"		
35170	35171	1.1/16"		
35172	35173	1.1/8"		
35174	35175	1.3/16"		
35176	35177	1.1/4"		
35178	35179	1.7/16"		



Cu-Be cobre berilium / beryllium copper / cuivre beryllium / Kupfer Beryllium / koper beryllium / rame-berilium / СПЛАВ МЕДЬ БЕРИЛЛИЙ

Al-Bron aluminio bronce / aluminium bronze / alliage aluminium-bronze / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЛЮМИНИЙ БРОНЗА

35 ANTICHISPA / NON-SPARKING / ANTI-DEFLAGRANT / FUNKENFREI ANTISCINTILLA / ANTI-DEFLAGRANTE / ИСКРБЕЗОПАСНЫЙ

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

COD				
Cu-Be	Al-Bron			
70375	71272	1/2"	250	600



CARRACA MACHO-HEMERA / MALE-FEMALE RATCHET / CLIQUET MALE-FEMELLE / RATSCHÉ DOPPPELT FUNKTION /
CRICCO MASCHIO-FEMMINA / ROQUETE MACHO-FÊMEA / ТРЕЩЕТКА ПАПА-МАМА

COD				
Cu-Be	Al-Bron			
73724	73725	1/2"	250	450



MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNEE COULISSANTE / T-GLEITGRIF / ASTA CON QUADRO
SCORREVOLE "T" / CABO "T" CORREDIÇO / Т-ОБРАЗНАЯ С ПЛАВАЮЩЕЙ РУЧКОЙ

COD				
Cu-Be	Al-Bron			
70378	71274	1/2"	10"	400
70379	71275		12"	500






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

COD				
Cu-Be	Al-Bron			
72400	72401	1/2"	230	330
72402	72403		330	400
72404	72405		410	550



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

COD				
Cu-Be	Al-Bron			
72410	72411	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				
Cu-Be	Al-Bron			
73709	73710	13x2mm	1/2"	50
				100






BERBIQUÍ / SPEEDER HANDLE / VILLEBREQUIN / WINDE / LEVA GIROBECCHINO / MANIVELA / КОЛЕНЧАТАЯ РУЧКА

COD				
Cu-Be	Al-Bron			
72416	72417	1/2"	390	750






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

COD				
Cu-Be	Al-Bron			
70383	71279	1/2"	4"	200
70384	71280		8"	400
70385	71281		10"	500





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

COD				
Cu-Be	Al-Bron			
70372	71269	1/2"	80	200



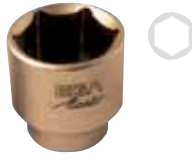
ADAPTADOR / ADAPTER / ADAPTATEUR / VERBINDUNGSTEILE / ADATTATORE / PEÇA DE CONEXÃO / АДАПТЕР

COD			
Cu-Be	Al-Bron		
75720	75721	1/2"-3/8"	70
70369	71266	1/2"-3/4"	200



LLAVES DE VASO / SOCKET WRENCHES / DOUILLES / STECKSCHLÜSSEL / BUSSOLE /
CHAVES DE CAIXA / ГОЛОВКИ

3/4"



MM		COD	AF	L mm	gr.
Cu-Be	Al-Bron				
74649	74653		17mm	50	200
75724	75725		18mm		
74650	74654		19mm		
74651	74655		21mm		
74652	74656		22mm	55	250
70345	71220		24mm		
71908	72953		26mm		
70346	71221		27mm		
75726	75727		28mm	60	280
75728	75729		29mm		
70347	71222		30mm		
75730	75731		31mm		
70348	71223		32mm	65	310
77792	77793		33mm		
74863	74864		34mm		
77794	77795		35mm		
70349	71224		36mm	70	320
77796	77797		37mm		
74865	74866		38mm		
70350	71225		41mm		
77798	77799		42mm	75	370
70351	71226		46mm		
77800	77801		47mm		
70352	71227		50mm		
77802	77803		52mm	80	380
77804	77805		55mm		
77806	77807		60mm		

INCH.		COD	AF	L mm	gr.
Cu-Be	Al-Bron				
74786	74787		3/4"	50	220
75732	75733		13/16"		
74788	74789		7/8"		
74790	74791		15/16"		
74792	74793		1"	55	240
74802	74803		1.1/16"		
74804	74805		1.1/8"		
74867	74868		1.3/16"		
74869	74870		1.1/4"	60	280
71228	71239		1.5/16"		
71229	71240		1.3/8"		
71230	71241		1.7/16"		
71231	71242		1.1/2"	65	310
71232	71243		1.9/16"		
71233	71244		1.5/8"		
71234	71245		1.11/16"		
71235	71246		1.3/4"	70	360
71236	71247		1.13/16"		
71237	71248		1.7/8"		
77808	77809		1.15/16"		
71238	71249		2"	70	400
					430
					470
					480
					550
					650
					700
					800
					850



MM		COD	AF	L mm	gr.
Cu-Be	Al-Bron				
75734	75735		17mm	50	200
75736	75737		18mm		
75738	75739		19mm		
75740	75741		21mm		
75742	75743		22mm	55	250
74538	74547		24mm		
74539	74548		26mm		
74540	74549		27mm		
75744	75745		28mm	60	280
75746	75747		29mm		
74541	74550		30mm		
75748	75749		31mm		
74542	74551		32mm	65	310
77810	77811		33mm		
75750	75751		34mm		
77812	77813		35mm		
74543	74552		36mm	70	320
77814	77815		37mm		
75752	75753		38mm		
74544	74553		41mm		
77816	77817		42mm	75	370
74545	74554		46mm		
77818	77819		47mm		
74546	74555		50mm		
77820	77821		52mm	80	380
77822	77823		55mm		
77824	77825		60mm		

INCH.		COD	AF	L mm	gr.
Cu-Be	Al-Bron				
75754	75755		3/4"	50	220
75756	75757		13/16"		
75758	75759		7/8"		
75760	75761		15/16"		
75762	75763		1"	55	240
75764	75765		1.1/16"		
75766	75767		1.1/8"		
75768	75769		1.3/16"		
75770	75771		1.1/4"	60	280
74556	74567		1.5/16"		
74557	74568		1.3/8"		
74558	74569		1.7/16"		
74559	74570		1.1/2"	65	310
74560	74571		1.9/16"		
74561	74572		1.5/8"		
74562	74573		1.11/16"		
74563	74574		1.3/4"	70	360
74564	74575		1.13/16"		
74565	74576		1.7/8"		
77826	77827		1.15/16"		
74566	74577		2"	70	400
					430
					470
					480
					550
					650
					700
					800
					850



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

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

3/4"



MM					INCH.				
COD		AF	L	gr.	COD		AF	L	gr.
Cu-Be	Al-Bron		mm		Cu-Be	Al-Bron		mm	
35180	35181		17mm		35232	35233	3/4"		
35182	35183		18mm		35234	35235	13/16"		500
35184	35185		19mm	500	35236	35237	7/8"		
35186	35187		21mm		35238	35239	15/16"		550
35188	35189		22mm		35240	35241	1"		
35190	35191		24mm	550	35242	35243	1.1/16"		600
35192	35193		26mm		35244	35245	1.1/8"		
35194	35195		27mm		35246	35247	1.3/16"		
35196	35197		28mm	600	35248	35249	1.1/4"	90	
35198	35199		29mm		35250	35251	1.5/16"		650
35200	35201		30mm		35252	35253	1.3/8"		
35202	35203		31mm		35254	35255	1.7/16"		700
35204	70484		32mm		35256	35257	1.1/2"		800
35206	35207		33mm	650	35258	35259	1.9/16"		900
35208	35209		34mm		35260	35261	1.5/8"		
35210	35211		35mm		35262	35263	1.11/16"		950
76775	70485		36mm	700	35264	35265	1.3/4"		1000
35212	35213		37mm	750	35266	35267	1.13/16"		1150
35214	35215		38mm	800	35268	35269	1.7/8"	100	1200
35216	35217		41mm	900	35270	35271	1.15/16"		
35218	35219		42mm	950	35272	35273	2"		1250
35220	35221		46mm	1150					
35222	35223		47mm	1200					
35224	35225		50mm	1250					
35226	35227		52mm						
35228	35229		55mm	1300					
35230	35231		60mm	1400					



MM					INCH.				
COD		AF	L	gr.	COD		AF	L	gr.
Cu-Be	Al-Bron		mm		Cu-Be	Al-Bron		mm	
35274	35275		17mm		35328	35329	3/4"		
35276	35277		18mm		35330	35331	13/16"		500
35278	35279		19mm	500	35332	35333	7/8"		
35280	35281		21mm		35334	35335	15/16"		550
35282	35283		22mm		35336	35337	1"		
35284	35285		24mm	550	35338	35339	1.1/16"		600
35286	35287		26mm		35340	35341	1.1/8"		
35288	35289		27mm		35342	35343	1.3/16"		600
35290	35291		28mm	600	35344	35345	1.1/4"	90	
35292	35293		29mm		35346	35347	1.5/16"		650
35294	35295		30mm		35348	35349	1.3/8"		
35296	35297		31mm		35350	35351	1.7/16"		700
35298	35299		32mm		35352	35353	1.1/2"		800
35300	35301		33mm	650	35354	35355	1.9/16"		900
35302	35303		34mm		35356	35357	1.5/8"		
35304	35305		35mm		35358	35359	1.11/16"		950
35306	35307		36mm	700	35360	35361	1.3/4"		1000
35308	35309		37mm	750	35362	35363	1.13/16"		1150
35310	35311		38mm	800	35364	35365	1.7/8"	100	1200
35312	35313		41mm	900	35366	35367	1.15/16"		
35314	35315		42mm	950	35368	35369	2"		1250
35316	35317		46mm	1150					
35318	35319		47mm	1200					
35320	35321		50mm						
35322	35323		52mm	1250					
35324	35325		55mm	1300					
35326	35327		60mm	1400					

CARRACA MACHO-HEMBRA / MALE-FEMALE RATCHET / CLIQUET MALE-FEMELLE / RATSCHKE DOPPELT FUNKTION /
CRICCO MASCHIO-FEMMINA / ROQUETE MACHO-FÊMEA / ТРЕЩЕТКА ПАПА-МАМА

COD				
Cu-Be	Al-Bron			
73726	73727	3/4"	300	1000



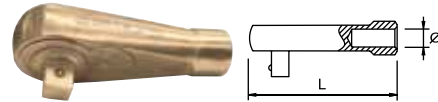
LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET / UMSCHALTKNARRE /
CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА

COD				
Cu-Be	Al-Bron			
70376	71273	3/4"	390	1400



CABEZA DE CARRACA / RATCHET HEAD / TÊTE DE CLIQUET / RATSCHKE KOPF / TESTA A CRICCO / CABEÇA DE ROQUETE /
ГОЛОВКА ТРЕЩЕТКИ

COD			Ø (mm)		
Cu-Be	Al-Bron				
73712	73713	3/4"	21	160	1500



MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNEE COULISSANTE / T-GLEITGRIFF / ASTA CON QUADRO SCORREVOLE
"T" / CABO "T" CORREDIÇO / Т-ОБРАЗНАЯ С ПЛАВАЮЩЕЙ РУЧКОЙ

COD				
Cu-Be	Al-Bron			
70380	71276	3/4"	250	900
70381	71277	10"	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					
Cu-Be	Al-Bron				
73717	73718	3/4"	350	190	1500



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

COD				
Cu-Be	Al-Bron			
72406	72407	3/4"	300	600



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

COD				
Cu-Be	Al-Bron			
72412	72413	3/4"	280	700



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

COD				
Cu-Be	Al-Bron			
70386	71282	3/4"	4"	200
70387	71283		8"	400
70388	71284		10"	500



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

COD				
Cu-Be	Al-Bron			
70373	71270	3/4"	135	600



ARTICULACIÓN FLEXIBLE / FLEXIBLE JOINT / ARTICULATION FLEXIBLE / FLEXIBLE VERBINDUNG / ARTICOLAZIONE
FLESSIBILE / ARTICULAÇÃO FLEXÍVEL / ГИБКОЕ СОЕДИНЕНИЕ

COD					
Cu-Be	Al-Bron				
72396	72397	3/4"	120	21	800



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

COD			
Cu-Be	Al-Bron		
70368	71265	3/4"-1/2"	200
70371	71268	3/4"-1"	410

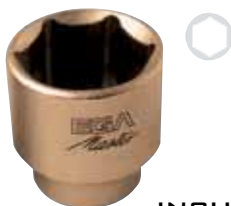


Cu-Be cobre berilio / beryllium copper / cuivre beryllium / Kupfer Beryllium / koper beryllium / rame-berillio / СПЛАВ МЕДЬ БЕРИЛЛИЙ
Al-Bron aluminio bronce / aluminium bronze / alliage aluminium-bronze / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЛЮМИНИЙ БРОНЗА

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

LLAVES DE VASO / SOCKET WRENCHES / DOUILLES / STECKSCHLÜSSEL / BUSSOLE /
CHAVES DE CAIXA / ГОЛОВКИ

1"



MM

COD		AF	L mm	gr.	
Cu-Be	Al-Bron				
75772	75773	22mm	55	330	
75774	75775	24mm			
75776	75777	25mm			
75778	75779	26mm			
75780	75781	27mm			
75782	75783	28mm	60	370	
75784	75785	29mm			
75786	75787	30mm			
75788	75789	31mm			
75790	75791	32mm			
75792	75793	34mm	75	450	
75794	75795	36mm			
75796	75797	38mm			
70353	71250	41mm			
70354	71251	42mm			
70355	71252	46mm	80	800	
70356	71253	50mm			
70357	71254	55mm			
70358	71255	60mm			
70359	71256	65mm			
70360	71257	70mm	85	1500	
70361	71258	75mm			
70362	71259	80mm			
70363	71260	85mm			
70364	71261	90mm			
70365	71262	95mm	90	4900	
70366	71263	100mm			
70367	71264	105mm			
				95	5200

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
75798	75799	1.1/16"	55	360
75800	75801	1.1/8"		
75802	75803	1.3/16"		
75804	75805	1.1/4"		
75806	75807	1.5/16"		
75808	75809	1.3/8"	60	440
75810	75811	1.7/16"		
75812	75813	1.1/2"		
75814	75815	1.5/8"		
77828	77829	1.13/16"		
75816	75817	1.7/8"	65	700
75818	75819	2"		
77830	77831	2.1/8"		
75820	75821	2.1/4"		
77832	77833	2.3/8"		
75822	75823	2.1/2"	75	1250
77834	77835	2.9/16"		
75824	75825	2.3/4"		
77836	77837	2.15/16"		
75826	75827	3"		
77838	77839	3.1/8"	80	2300



MM

COD		AF	L mm	gr.	
Cu-Be	Al-Bron				
75828	75829	22mm	55	330	
75830	75831	24mm			
75832	75833	25mm			
75834	75835	26mm			
75836	75837	27mm			
75838	75839	28mm	60	370	
75840	75841	29mm			
75842	75843	30mm			
75844	75845	31mm			
75846	75847	32mm			
75848	75849	34mm	75	450	
75850	75851	36mm			
75852	75853	38mm			
74578	74593	41mm			
74579	74594	42mm			
74580	74595	46mm	80	800	
74581	74596	50mm			
74582	74597	55mm			
74583	74598	60mm			
74584	74599	65mm			
74585	74600	70mm	85	1500	
74586	74601	75mm			
74587	74602	80mm			
74588	74603	85mm			
74589	74604	90mm			
74590	74605	95mm	90	4900	
74591	74606	100mm			
74592	74607	105mm			
				95	5200

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
75854	75855	1.1/16"	55	360
75856	75857	1.1/8"		
75858	75859	1.3/16"		
75860	75861	1.1/4"		
75862	75863	1.5/16"		
75864	75865	1.3/8"	60	440
75866	75867	1.7/16"		
75868	75869	1.1/2"		
75870	75871	1.5/8"		
77840	77841	1.13/16"		
75872	75873	1.7/8"	65	700
75874	75875	2"		
77842	77843	2.1/8"		
75876	75877	2.1/4"		
77844	77845	2.3/8"		
75878	75879	2.1/2"	75	1250
77846	77847	2.9/16"		
75880	75881	2.3/4"		
77848	77849	2.15/16"		
75882	75883	3"		
77850	77851	3.1/8"	80	2300

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

1''



NEW

MM

Cu-Be	COD	Al-Bron	AF	L	gr.
				mm	
35370		35371		22mm	800
35372		35373		24mm	
35374		35375		25mm	
35376		35377		26mm	
35378		35379		27mm	
35380		35381		28mm	
35382		35383		29mm	
35384		35385		30mm	
35386		35387		31mm	
35388		35389		32mm	
35390		35391		34mm	850
35392		35393		36mm	900
35394		35395		38mm	950
35396		35397		41mm	1000
35398		35399		42mm	1050
35400		35401		46mm	1250
35402		35403		50mm	1450
35404		35405		55mm	1750
35406		35407		60mm	2100
35408		35409		65mm	2600
35410		35411		70mm	3050
35412		35413		75mm	3850
35414		35415		80mm	4300
35416		35417		85mm	4600
35418		35419		90mm	4900
35420		35421		95mm	5300
35422		35423		100mm	5750
35424		35425		105mm	6200

INCH.

Cu-Be	COD	Al-Bron	AF	L	gr.	
				mm		
35426		35427		1.1/16"	800	
35428		35429		1.1/8"		
35430		35431		1.3/16"		
35432		35433		1.1/4"		
35434		35435		1.5/16"		100
35436		35437		1.3/8"		850
35438		35439		1.7/16"		900
35440		35441		1.1/2"		950
35442		35443		1.5/8"		1000
35444		35445		1.13/16"		1250
35446		35447		1.7/8"	1300	
35448		35449		2"	1450	
35450		35451		2.1/8"	1650	
35452		35453		2.1/4"	1800	
35454		35455		2.3/8"	2100	
35456		35457		2.1/2"	2300	
35458		35459		2.9/16"	2600	
35460		35461		2.3/4"	3050	
35462		35463		2.15/16"	3850	
35464		35465		3"	4000	
35466		35467		3.1/8"	4300	



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

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

1"



 **NEW**

MM

Cu-Be	COD	Al-Bron	AF	L mm	gr.
35468		35469		22mm	800
35470		35471		24mm	
35472		35473		25mm	
35474		35475		26mm	
35476		35477		27mm	
35478		35479		28mm	
35480		35481		29mm	
35482		35483		30mm	
35484		35485		31mm	
35486		35487		32mm	
35488		35489		34mm	850
35490		35491		36mm	900
35492		35493		38mm	950
35494		35495		41mm	1000
35496		35497		42mm	1050
35498		35499		46mm	1250
35500		35501		50mm	1450
35502		35503		55mm	1750
35504		35505		60mm	2100
35506		35507		65mm	2600
35508		35509		70mm	3050
35510		35511		75mm	3850
35512		35513		80mm	4300
35514		35515		85mm	4600
35516		35517		90mm	4900
35518		35519		95mm	5300
35520		35521		100mm	5750
35522		35523		105mm	6200

INCH.

Cu-Be	COD	Al-Bron	AF	L mm	gr.
35524		35525		1.1/16"	800
35526		35527		1.1/8"	
35528		35529		1.3/16"	
35530		35531		1.1/4"	
35532		35533		1.5/16"	100
35534		35535		1.3/8"	850
35536		35537		1.7/16"	900
35538		35539		1.1/2"	950
35540		35541		1.5/8"	1000
35542		35543		1.13/16"	1250
35544		35545		1.7/8"	1300
35546		35547		2"	1450
35548		35549		2.1/8"	1650
35550		35551		2.1/4"	1800
35552		35553		2.3/8"	2100
35554		35555		2.1/2"	2300
35556		35557		2.9/16"	2600
35558		35559		2.3/4"	3050
35560		35561		2.15/16"	3850
35562		35563		3"	4000
35564		35565		3.1/8"	4300

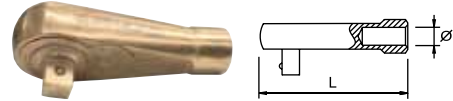
LLAVE DE CARRACA REVERSIBLE / REVERSIBLE RATCHET HANDLE / CLÉ À CLIQUET / UMSCHALTKNARRE /
CHIAVE A CRICCO REVERSIBILE / ROQUETE REVERSIVEL / РЕВЕРСИВНАЯ ТРЕЩЕТКА

COD				
Cu-Be	Al-Bron			
72630	72629	1"	550	1600



CABEZA DE CARRACA / RATCHET HEAD / TÊTE DE CLIQUET / RATSCHEN KOPF / TESTA A CRICCO / CABEÇA DE ROQUETE /
ГОЛОВКА ТРЕЩЕТКИ

COD			Ø (mm)		
Cu-Be	Al-Bron				
73714	73715	1"	23	180	3000



CARRACA MACHO-HEMBRA / MALE-FEMALE RATCHET / CLIQUET MALE-FEMELLE / RATSCHEN DOPPELT FUNKTION /
CRICCO MASCHIO-FEMMINA / ROQUETE MACHO-FÊMEA / ТРЕЩЕТКА ПАПА-МАМА

COD				
Cu-Be	Al-Bron			
73728	73729	1"	300	1000



MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNEE COULISSANTE / T-GLEITGRIFF / ASTA CON QUADRO
SCORREVOLE "T" / CABO "T" CORREDIÇO / Т-ОБРАЗНАЯ С ПЛАВАЮЩЕЙ РУЧКОЙ

COD				
Cu-Be	Al-Bron			
70382	71278	1"	12"	2300



MANGO CORREDIZO EN "T" / SLIDING "T" HANDLE / POIGNEE COULISSANTE / T-GLEITGRIFF / ASTA CON QUADRO
SCORREVOLE "T" / CABO "T" CORREDIÇO / Т-ОБРАЗНАЯ С ПЛАВАЮЩЕЙ РУЧКОЙ

COD					
Cu-Be	Al-Bron				
73719	73720	1"	400	190	2400



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

COD				
Cu-Be	Al-Bron			
70389	71285	1"	4"	400
70390	71286		10"	800



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

COD				
Cu-Be	Al-Bron			
70370	71267	1"-3/4"		600



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

COD				
Cu-Be	Al-Bron			
70374	71271	1"	145	1300



ARTICULACIÓN FLEXIBLE / FLEXIBLE JOINT / ARTICULATION FLEXIBLE / FLEXIBLE VERBINDUNG / ARTICOLAZIONE
FLESSIBILE / ARTICULAÇÃO FLEXÍVEL / ГИБКОЕ СОЕДИНЕНИЕ

COD					
Cu-Be	Al-Bron				
72398	72399	1"	120	21	1100



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

COD				
Cu-Be	Al-Bron			
72408	72409	1"	315	850



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

COD				
Cu-Be	Al-Bron			
72414	72415	1"	300	1100





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 / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЛЮМИНИЙ БРОНЗА





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



SETS

COD		PCS.			Kg.
Cu-Be	Al-Bron				
74263	74264	9	1/2"	10-11-12-14-17-19-22-24mm	1,4
Especificaciones técnicas / Technical specification / Détails techniques					
Mango acodado / Offset handle / Manche contre coudé					230mm





COD		PCS.			Kg.
Cu-Be	Al-Bron				
74265	74266	12	1/2"	8-10-11-12-14-17-19-22-24-27mm	2,3
Especificaciones técnicas / Technical specification / Détails techniques					
Carraca / Ratchet / Cliquet					250mm
Mango articulado / Hinged handle / Manche articulé					230mm





COD		PCS.			Kg.
Cu-Be	Al-Bron				
74267	74268	16	1/2"	10-11-12-14-17-19-22-24-27-30-32mm	4,5
Especificaciones técnicas / Technical specification / Détails techniques					
Carraca / Ratchet / Cliquet					250mm
Mango corredizo en T / Sliding T handle / Poignée coulissante					
Berbiquí / Speeder handle / Vilebrequin					390mm
Alargadera / Extension / Rallonge					125-250mm



COD		PCS.			Kg.
Cu-Be	Al-Bron				
74269	74270	24	1/2"	10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-27-30-32mm	5,5
Especificaciones técnicas / Technical specification / Détails techniques					
Carraca / Ratchet / Cliquet					250mm
Mango corredizo en T / Sliding T handle / Poignée coulissante					
Berbiquí / Speeder handle / Vilebrequin					390mm
Alargadera / Extension / Rallonge					125-250mm
Articulación universal / Universal Joint / Cardan Universel					75mm



COD		PCS.			Kg.
Cu-Be	Al-Bron				
74271	74272	27	1/2"	10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-27-28-30-32mm	6,0
Especificaciones técnicas / Technical specification / Détails techniques					
Carraca / Ratchet / Cliquet					250mm
Mango corredizo en T / Sliding T handle / Poignée coulissante					
Berbiquí / Speeder handle / Vilebrequin					390mm
Alargadera / Extension / Rallonge					125-250mm
Articulación universal / Universal Joint / Cardan Universel					75mm
Punta plana con vaso / Flat bit socket / Embout fente à douille					13x2mm



SETS

COD		PCS.			Kg.
Cu-Be	Al-Bron				
74273	74274	31	1/2"	8-9-10-11-12-13-14-15-16-17 18-19-20-21-22-23-24-26 27-28-30-32mm	6,5

Especificaciones técnicas / Technical specification / Détails techniques

Carraca / Ratchet / Cliquet	250mm
Mango corredizo en T / Sliding T handle / Poignée coulissante	
Berbiquí / Speeder handle / Vilebrequin	390mm
Alargadera / Extension / Rallonge	125-250mm
Articulación universal / Universal Joint / Cardan Universel	75mm
Mango acodado / Offset handle / Manche contre coudé	230mm
Punta plana con vaso / Flat bit socket / Embout fente á douille	13x2mm
Vaso para bujías / Spark plug socket / Douille á bougie	13/16"



COD		PCS.			Kg.
Cu-Be	Al-Bron				
74275	74276	14	3/4"	21-24-27-30-32-34-36-38 41-46-50mm	8,5

Especificaciones técnicas / Technical specification / Détails techniques

Carraca / Ratchet / Cliquet	320mm
Mango corredizo en T / Sliding T handle / Poignée coulissante	400mm
Alargadera / Extension / Rallonge	200mm



COD		PCS.			Kg.
Cu-Be	Al-Bron				
74277	74278	20	3/4"	21-22-23-24-26-27-28-29-30-31- 32-34-36-38-41-46-50mm	8,5

Especificaciones técnicas / Technical specification / Détails techniques

Carraca / Ratchet / Cliquet	320mm
Mango corredizo en T / Sliding T handle / Poignée coulissante	400mm
Alargadera / Extension / Rallonge	200mm



COD		PCS.			Kg.
Cu-Be	Al-Bron				
74279	74280	18	1"	30-31-32-34-36-38-41-46-50-55- 60-65-70-75-80mm	18

Especificaciones técnicas / Technical specification / Détails techniques

Mango corredizo en T / Sliding T handle / Poignée coulissante	400mm
Alargadera / Extension / Rallonge	200mm
Articulación flexible / Flexible joint / Articulation universelle	120mm




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

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"

MM



COD		AF	L mm	gr.
Cu-Be	Al-Bron			
77852	77853	8mm	42	105
77854	77855	9mm		
77856	77857	10mm		
77858	77859	11mm	44	115
77860	77861	12mm		
77862	77863	13mm		
77864	77865	14mm	46	145
77866	77867	15mm		
77868	77869	16mm		
77870	77871	17mm	48	160
77872	77873	18mm		
77874	77875	19mm		
77876	77877	20mm	50	180
74717	74718	21mm		
77878	77879	22mm		
77880	77881	23mm	46	200
74719	74720	24mm		
77882	77883	25mm		
77884	77885	26mm	48	210
77886	77887	27mm		
77888	77889	28mm		
77890	77891	29mm	50	230
74721	74722	30mm		
77892	77893	32mm		
74723	74724	41mm	42	250
77894	77895	46mm		
74725	74726	600		

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
77894	77895	5/16"	42	105
77896	77897	3/8"		
77898	77899	7/16"		
77900	77901	1/2"	44	115
77902	77903	9/16"		
77904	77905	19/32"		
77906	77907	5/8"	46	145
77908	77909	11/16"		
77910	77911	3/4"		
77912	77913	25/32"	48	160
77914	77915	13/16"		
77916	77917	7/8"		
77918	77919	15/16"	50	180
77920	77921	1"		
77922	77923	1.1/16"		
77924	77925	1.1/8"	42	200
77926	77927	1.3/16"		
77928	77929	1.1/4"		

MM



COD		AF	L mm	gr.
Cu-Be	Al-Bron			
77930	77931	8mm	42	105
77932	77933	9mm		
76496	76497	10mm		
76498	76499	11mm	44	115
76500	76501	12mm		
76502	76503	13mm		
76504	76505	14mm	46	145
76506	76507	15mm		
76508	76509	16mm		
74775	74776	17mm	48	160
77934	77935	18mm		
74777	74778	19mm		
77936	77937	20mm	50	180
77938	77939	21mm		
74779	74780	22mm		
76510	76511	23mm	46	200
77940	77941	24mm		
77942	77943	25mm		
77944	77945	26mm	48	210
74781	74782	27mm		
77946	77947	28mm		
77948	77949	29mm	50	230
77950	77951	30mm		
74783	74784	32mm		
77952	77953	41mm	42	250
77954	77955	46mm		
		600		

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
77956	77957	5/16"	42	105
77958	77959	3/8"		
77960	77961	7/16"		
77962	77963	1/2"	44	115
77964	77965	9/16"		
77966	77967	19/32"		
77968	77969	5/8"	46	145
77970	77971	11/16"		
77972	77973	3/4"		
77974	77975	25/32"	48	160
77976	77977	13/16"		
77978	77979	7/8"		
77980	77981	15/16"	50	180
77982	77983	1"		
77984	77985	1.1/16"		
77986	77987	1.1/8"	42	200
77988	77989	1.3/16"		
77990	77991	1.1/4"		

Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" - Certificados ATEX para uso en zonas Ex: Ex II 2 GcT6 y Ex II 2 GcT5 - Ver capítulo de Seguridad Intrínseca.

Impact Wrenches - Pneumatic and Hydraulic, 1/2", 3/4", 1" and 1.1/2" Sq. Drive - ATEX Certified for use in Ex Zones: Ex II 2 GcT6 y Ex II 2 GcT5 - See Intrinsic Safety chapter.

Doilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" - Certifiés ATEX pour usage dans les zones Ex: Ex II 2 GcT6 et Ex II 2 GcT5 - Voir chapitre Sécurité Intrinsèque.

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

1/2"



MM

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
76202	76203	8mm	82	170
76204	76205	9mm		
76206	76207	10mm		
76208	76209	11mm		
76210	76211	12mm		
76212	76213	13mm		
76214	76215	14mm		
76216	76217	15mm		
76218	76219	16mm		
76220	76221	17mm		
76222	76223	18mm	82	180
76224	76225	19mm		
76226	76227	20mm		
76228	76229	21mm		
76230	76231	22mm		
76232	76233	23mm		
76766	76767	24mm		
76234	76235	25mm		
76236	76237	26mm		
76768	76769	27mm		
76280	76281	28mm	82	190
76282	76283	29mm		
76770	76771	30mm		
76772	76773	32mm		
76284	76285	41mm		
76286	76287	46mm		
76288	76289	50mm		
76290	76291	55mm		
76292	76293	60mm		
76294	76295	65mm		
76296	76297	70mm		
76298	76299	75mm		
76300	76301	80mm		
76302	76303	85mm		
76304	76305	90mm		
76306	76307	95mm		
76308	76309	100mm		

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
76352	76353	5/16"	82	170
76354	76355	3/8"		
76356	76357	7/16"		
76358	76359	1/2"		
76360	76361	9/16"		
76362	76363	19/32"		
76364	76365	5/8"		
76366	76367	11/16"		
76368	76369	3/4"		
76370	76371	25/32"		
76372	76373	13/16"	82	180
76374	76375	7/8"		
76376	76377	15/16"		
76378	76379	1"		
76380	76381	1.1/16"		
76382	76383	1.1/8"		
76384	76385	1.3/16"		
76386	76387	1.1/4"		
76388	76389	1.5/16"		
76390	76391	1.3/8"		
76392	76393	1.1/2"		
76394	76395	1.3/4"		
76396	76397	1.5/8"		
76398	76399	1.3/4"		
76400	76401	1.7/8"		
76402	76403	1.5/4"		

MM

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
76990	76991	8mm	82	170
76992	76993	9mm		
76994	76995	10mm		
76996	76997	11mm		
76998	76999	12mm		
78389	78390	13mm		
78391	78392	14mm		
78393	78394	15mm		
78395	78396	16mm		
78397	78398	17mm		
78399	78400	18mm	82	180
78401	78402	19mm		
78403	78404	20mm		
78405	78406	21mm		
78407	78408	22mm		
78409	78410	23mm		
78411	78412	24mm		
78413	78414	25mm		
78415	78416	26mm		
78417	78418	27mm		
78419	78420	28mm	82	190
78421	78422	29mm		
78423	78424	30mm		
78425	78426	32mm		
78427	78428	41mm		
78429	78430	46mm		
78431	78432	50mm		
78433	78434	55mm		
78435	78436	60mm		
78437	78438	65mm		
78439	78440	70mm		
78441	78442	75mm		
78443	78444	80mm		
78445	78446	85mm		
78447	78448	90mm		
78449	78450	95mm		
78451	78452	100mm		
78453	78454	105mm		
78455	78456	110mm		
78457	78458	115mm		
78459	78460	120mm		
78461	78462	125mm		
78463	78464	130mm		
78465	78466	135mm		

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78431	78432	5/16"	82	170
78433	78434	3/8"		
78435	78436	7/16"		
78437	78438	1/2"		
78439	78440	9/16"		
78441	78442	19/32"		
78443	78444	5/8"		
78445	78446	11/16"		
78447	78448	3/4"		
78449	78450	25/32"		
78451	78452	13/16"	82	180
78453	78454	7/8"		
78455	78456	15/16"		
78457	78458	1"		
78459	78460	1.1/16"		
78461	78462	1.1/8"		
78463	78464	1.3/16"		
78465	78466	1.1/4"		
78467	78468	1.5/16"		
78469	78470	1.3/8"		
78471	78472	1.1/2"		
78473	78474	1.3/4"		
78475	78476	1.5/8"		
78477	78478	1.3/4"		
78479	78480	1.7/8"		
78481	78482	1.5/4"		



Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" - Certificados ATEX para uso en zonas Ex: Ex II 2 GcT6 y Ex II 2 GcT5 - Ver capítulo de Seguridad Intrínseca.

Impact Wrenches - Pneumatic and Hydraulic, 1/2", 3/4", 1" and 1.1/2" Sq. Drive - ATEX Certified for use in Ex Zones: Ex II 2 GcT6 y Ex II 2 GcT5 - See Intrinsic Safety chapter.

Douilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" - Certifiés ATEX pour usage dans les zones Ex: Ex II 2 GcT6 et Ex II 2 GcT5 - Voir chapitre Sécurité Intrinsèque.

Cu-Be cobre berilio / beryllium copper / cuivre beryllium / Kupfer Beryllium / koper beryllium / rame-berillio / СПЛАВ МЕДЬ БЕРИЛЛИЙ

Al-Bron aluminio bronce / aluminium bronze / alliage aluminium-bronze / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЛЮМИНИЙ БРОНЗА



35 ANTICHISPA / NON-SPARKING / ANTI-DEFLAGRANT / FUNKENFREI ANTISCINTILLA / ANTI-DEFLAGRANTE / ИСКРБЕЗОПАСНЫЙ

LLAVES DE VASO DE IMPACTO / IMPACT SOCKET WRENCHES / DOUILLES À CHOC /
IMPACT STECKSCHLÜSSEL EINSÄTZE / BUSSOLA AD IMPULSI / CHAVES DE CAIXA DE
IMPACTO / УДАРНАЯ ГОЛОВКА

3/4"



MM

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
77992	77993	19mm	55	350
77994	77995	22mm		
75884	75885	24mm		
75886	75887	27mm	60	380
75888	75889	30mm		
75890	75891	32mm		
77996	77997	34mm	65	550
75892	75893	36mm		
77998	77999	38mm		
75894	75895	41mm	70	700
75896	75897	46mm		
75898	75899	50mm		
78000	78001	55mm	70	1100
78002	78003	60mm		

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78004	78005	3/4"	55	430
78006	78007	13/16"		
78008	78009	7/8"		
78010	78011	15/16"	60	450
78012	78013	1"		
78014	78015	1.1/16"		
78016	78017	1.1/8"	65	460
78018	78019	1.3/16"		
78020	78021	1.1/4"		
78022	78023	1.5/16"	70	600
78024	78025	1.3/8"		
78026	78027	1.7/16"		
78028	78029	1.1/2"	65	650
78030	78031	1.5/8"		
78032	78033	1.3/4"		
78034	78035	1.7/8"	70	700
78036	78037	1.13/16"		
78038	78039	2"		
				1200
				1250



MM

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78040	78041	19mm	55	350
78042	78043	22mm		
72314	72315	24mm		
72316	72317	27mm	60	380
72318	72319	30mm		
72320	72321	32mm		
76512	76513	34mm	65	550
72322	72323	36mm		
76514	76515	38mm		
72324	72325	41mm	70	700
72326	72327	46mm		
72328	72329	50mm		
76516	76517	55mm	70	900
78044	75968	60mm		
				1250

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78045	78046	3/4"	55	430
78047	78048	13/16"		
78049	78050	7/8"		
78051	78052	15/16"	60	450
78053	78054	1"		
78055	78056	1.1/16"		
78057	78058	1.1/8"	65	460
78059	78060	1.3/16"		
78061	78062	1.1/4"		
78063	78064	1.5/16"	70	600
78065	78066	1.3/8"		
78067	78068	1.7/16"		
78069	78070	1.1/2"	65	650
78071	78072	1.5/8"		
78073	78074	1.3/4"		
78075	78076	1.7/8"	70	700
78077	78078	1.13/16"		
78079	78080	2"		
				1200
				1250



LLaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" - Certificados ATEX para uso en zonas Ex: Ex II 2 GcT6 y Ex II 2 GcT5 - Ver capítulo de Seguridad Intrínseca.

Impact Wrenches - Pneumatic and Hydraulic, 1/2", 3/4", 1" and 1.1/2" Sq. Drive - ATEX Certified for use in Ex Zones: Ex II 2 GcT6 y Ex II 2 GcT5 - See Intrinsic Safety chapter.

Doilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" - Certifiés ATEX pour usage dans les zones Ex: Ex II 2 GcT6 et Ex II 2 GcT5 - Voir chapitre Sécurité Intrinsèque.

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

3/4"



MM

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78467	78468	19mm	90	800
78469	78470	22mm		
78471	78472	24mm		
78473	78474	27mm		
78475	78476	30mm	95	900
78477	78478	32mm		
78479	78480	34mm		
78481	78482	36mm		
78483	78484	38mm	100	1100
78485	78486	41mm		1150
78487	78488	46mm		1200
78489	78490	50mm		1700
78491	78492	55mm	1750	
78493	78494	60mm		

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78495	78496	3/4"	90	800
78497	78498	13/16"		
78499	78500	7/8"		
78501	78502	15/16"		
78503	78504	1"	95	900
78505	78506	1.1/16"		
78507	78508	1.1/8"		
78509	78510	1.3/16"		
78511	78512	1.1/4"	100	1100
78513	78514	1.5/16"		
78515	78516	1.3/8"		
78517	78518	1.7/16"		
78519	78520	1.1/2"	1700	
78521	78522	1.5/8"		
78523	78524	1.3/4"		
78525	78526	1.13/16"		
78527	78528	1.7/8"	1200	
78529	78530	2"		



MM

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78531	78532	19mm	90	800
78533	78534	22mm		
78535	78536	24mm		
78537	78538	27mm		
78539	78540	30mm	95	900
78541	78542	32mm		
78543	78544	34mm		
78545	78546	36mm		
78547	78548	38mm	100	1100
78549	78550	41mm		1150
78551	78552	46mm		1200
78553	78554	50mm		1700
78555	78556	55mm	1750	
78557	78558	60mm		

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78559	78560	3/4"	90	800
78561	78562	13/16"		
78563	78564	7/8"		
78565	78566	15/16"		
78567	78568	1"	95	900
78569	78570	1.1/16"		
78571	78572	1.1/8"		
78573	78574	1.3/16"		
78575	78576	1.1/4"	100	1100
78577	78578	1.5/16"		
78579	78580	1.3/8"		
78581	78582	1.7/16"		
78583	78584	1.1/2"	1700	
78585	78586	1.5/8"		
78587	78588	1.3/4"		
78589	78590	1.13/16"		
78591	78592	1.7/8"	1200	
78593	78594	2"		



Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" - Certificados ATEX para uso en zonas Ex: Ex II 2 GcT6 y Ex II 2 GcT5 - Ver capítulo de Seguridad Intrínseca.

Impact Wrenches - Pneumatic and Hydraulic, 1/2", 3/4", 1" and 1.1/2" Sq. Drive - ATEX Certified for use in Ex Zones: Ex II 2 GcT6 y Ex II 2 GcT5 - See Intrinsic Safety chapter.

Douilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" - Certifiés ATEX pour usage dans les zones Ex: Ex II 2 GcT6 et Ex II 2 GcT5 - Voir chapitre Sécurité Intrinsèque.

Cu-Be cobre berilio / beryllium copper / cuivre beryllium / Kupfer Beryllium / koper beryllium / rame-berillio / СПЛАВ МЕДЬ БЕРИЛЛИЙ

Al-Bron aluminio bronce / aluminium bronze / alliage aluminium-bronze / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЛЮМИНИЙ БРОНЗА



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

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"

MM



INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
72330	72331	19mm	60	650
72332	72333	21mm		
72334	72335	22mm		
72336	72337	24mm		
72338	72339	26mm		
72340	72341	27mm		
72342	72343	29mm	70	700
72344	72345	30mm		
72346	72347	32mm		
72348	72349	34mm		
72350	72351	35mm		
72352	72353	36mm		
72354	72355	38mm	80	750
72356	72357	41mm		
72358	72359	46mm		
72360	72361	50mm		
72362	72363	52mm		
72364	72365	55mm		
72366	72367	58mm	90	800
72368	72369	60mm		
72370	72371	65mm		
72372	72373	70mm		
72374	72375	75mm		
72376	72377	80mm		
				850
				900
				1200
				1500
				1700
				1800
				1900
				2000
				2300
				2700
				3000
				3300

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78081	78082	1.1/8"	60	800
78083	78084	1.1/4"		
78085	78086	1.5/16"	65	900
78087	78088	1.1/2"		
78089	78090	1.5/8"	70	1050
78091	78092	1.13/16"		
78093	78094	2"	75	1500
78095	78096	2.1/8"		
78097	78098	2.3/8"	80	2050
78099	78100	2.9/16"		
78101	78102	2.3/4"	85	2300
78103	78104	2.15/16"		
78105	78106	3.1/8"	90	2700
			95	2950
			95	3150
			95	3350
			95	3550

MM



INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
75900	75901	19mm	60	650
75902	75903	21mm		
75904	75905	22mm		
75906	75907	24mm		
75908	75909	26mm		
75910	75911	27mm		
75912	75913	29mm	70	700
75914	75915	30mm		
75916	75917	32mm		
75918	75919	34mm		
75920	75921	35mm		
75922	75923	36mm		
75924	75925	38mm	80	750
75926	75927	41mm		
75928	75929	46mm		
75930	75931	50mm		
75932	75933	52mm		
75934	75935	55mm		
75936	75937	58mm	90	800
75938	75939	60mm		
75940	75941	65mm		
75942	75943	70mm		
75944	75945	75mm		
75946	75947	80mm		
				850
				900
				1200
				1500
				1700
				1800
				1900
				2000
				2300
				2700
				3000
				3300

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78107	78108	1.1/8"	60	800
78109	78110	1.1/4"		
78111	78112	1.5/16"	65	900
78113	78114	1.1/2"		
78115	78116	1.5/8"	70	1050
78117	78118	1.13/16"		
78119	78120	2"	75	1500
78121	78122	2.1/8"		
78123	78124	2.3/8"	80	2050
78125	78126	2.9/16"		
78127	78128	2.3/4"	85	2300
78129	78130	2.15/16"		
78131	78132	3.1/8"	90	2700
			95	2950
			95	3150
			95	3350
			95	3550



Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" - Certificados ATEX para uso en zonas Ex: Ex II 2 GcT6 y Ex II 2 GcT5 - Ver capítulo de Seguridad Intrínseca.

Impact Wrenches - Pneumatic and Hydraulic, 1/2", 3/4", 1" and 1.1/2" Sq. Drive - ATEX Certified for use in Ex Zones: Ex II 2 GcT6 y Ex II 2 GcT5 - See Intrinsic Safety chapter.

Doilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" - Certifiés ATEX pour usage dans les zones Ex: Ex II 2 GcT6 et Ex II 2 GcT5 - Voir chapitre Sécurité Intrinsèque.

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

1"



MM

INCH.

COD		AF	L mm	gr.	
Cu-Be	Al-Bron				
78595	78596	19mm	100	900	
78597	78598	21mm		950	
78599	78600	22mm		1000	
78601	78602	24mm		1050	
78603	78604	26mm		1150	
78605	78606	27mm		1250	
78607	78608	29mm		1300	
78609	78610	30mm		1350	
78611	78612	32mm		1400	
78613	78614	34mm		1450	
78615	78616	35mm	1500		
78617	78618	36mm	115	1500	
78619	78620	38mm		2200	
78621	78622	41mm		2300	
78623	78624	46mm		2650	
78625	78626	50mm		2700	
78627	78628	52mm		2950	
78629	78630	55mm		3000	
78629	78630	58mm		125	3950
78631	78632	60mm			4750
78633	78634	65mm			4800
78635	78636	70mm	135		1150
78637	78638	75mm			1300
78639	78640	80mm			1350
					1400
					1450
					1500
					2200
				2300	
				2650	
				2700	
			2950		
			3000		
			140	3950	
				4750	
				4800	

COD		AF	L mm	gr.	
Cu-Be	Al-Bron				
78641	78642	1.1/8"	100	1150	
78643	78644	1.1/4"		1300	
78645	78646	1.5/16"		1450	
78647	78648	1.1/2"		1500	
78649	78650	1.5/8"		2200	
78651	78652	1.13/16"		2300	
78653	78654	2"		2700	
78655	78656	2.1/8"		3000	
78657	78658	2.3/8"		135	3950
78659	78660	2.9/16"			4700
78661	78662	2.3/4"	4800		
78663	78664	2.15/16"	140		1150
78665	78666	3.1/8"			1300
					1350
					1450
					1500
					2200
					2300
				2700	
				3000	
				3950	
			4700		
			4800		

MM

INCH.

COD		AF	L mm	gr.	
Cu-Be	Al-Bron				
78667	78668	19mm	100	900	
78669	78670	21mm		950	
78671	78672	22mm		1000	
78673	78674	24mm		1050	
78675	78676	26mm		1150	
78677	78678	27mm		1250	
78679	78680	29mm		1300	
78681	78682	30mm		1350	
78683	78684	32mm		1400	
78685	78686	34mm		1450	
78687	78688	35mm	1500		
78689	78690	36mm	115	1500	
78691	78692	38mm		2200	
78693	78694	41mm		2300	
78695	78696	46mm		2650	
78697	78698	50mm		2700	
78699	78700	52mm		2950	
78701	78702	55mm		3000	
78703	78704	58mm		125	3950
78705	78706	60mm			4750
78707	78708	65mm			4800
78709	78710	70mm	135		1150
78711	78712	75mm			1300
78713	78714	80mm			1350
					1400
					1450
					1500
					2200
				2300	
				2650	
				2700	
			2950		
			3000		
			140	3950	
				4750	
				4800	

COD		AF	L mm	gr.	
Cu-Be	Al-Bron				
78715	78716	1.1/8"	100	1150	
78717	78718	1.1/4"		1300	
78719	78720	1.5/16"		1450	
78721	78722	1.1/2"		1500	
78723	78724	1.5/8"		2200	
78725	78726	1.13/16"		2300	
78727	78728	2"		2700	
78729	78730	2.1/8"		3000	
78731	78732	2.3/8"		135	3950
78733	78734	2.9/16"			4700
78735	78736	2.3/4"	4800		
78737	78738	2.15/16"	140		1150
78739	78740	3.1/8"			1300
					1350
					1450
					1500
					2200
					2300
				2700	
				3000	
				3950	
			4700		
			4800		



Llaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" - Certificados ATEX para uso en zonas Ex: Ex II 2 GcT6 y Ex II 2 GcT5 - Ver capítulo de Seguridad Intrínseca.

Impact Wrenches - Pneumatic and Hydraulic, 1/2", 3/4", 1" and 1.1/2" Sq. Drive - ATEX Certified for use in Ex Zones: Ex II 2 GcT6 y Ex II 2 GcT5 - See Intrinsic Safety chapter.

Douilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" - Certifiés ATEX pour usage dans les zones Ex: Ex II 2 GcT6 et Ex II 2 GcT5 - Voir chapitre Sécurité Intrinsèque.

Cu-Be cobre berilio / beryllium copper / cuivre beryllium / Kupfer Beryllium / koper beryllium / rame-berillio / СПЛАВ МЕДЬ БЕРИЛЛИЙ

Al-Bron aluminio bronce / aluminium bronze / alliage aluminium-bronze / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЛЮМИНИЙ БРОНЗА



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

LLAVES DE VASO DE IMPACTO / IMPACT SOCKET WRENCHES / DOUILLES À CHOC /
IMPACT STECKSCHLÜSSEL EINSÄTZE / BUSSOLA AD IMPULSI / CHAVES DE CAIXA DE
IMPACTO / УДАРНАЯ ГОЛОВКА

1.1/2"



MM

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78133	78134	34mm	80	2200
78135	78136	36mm		
78137	78138	38mm		
78139	78140	41mm		
78141	78142	46mm	85	2400
78143	78144	48mm		2450
78145	78146	50mm		2600
78147	78148	54mm	90	2650
78149	78150	55mm		
78151	78152	60mm	95	3050
78153	78154	65mm	100	3350
78155	78156	70mm	105	3800
78157	78158	75mm	110	4100
78159	78160	80mm	115	4800
78161	78162	85mm	120	5600
78163	78164	90mm	125	6850
78165	78166	95mm	130	7650
78167	78168	100mm		8200
78169	78170	105mm		8800

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78171	78172	1.3/8"	80	2200
78173	78174	1.5/8"		
78175	78176	1.13/16"	85	2400
78177	78178	2"		
78179	78180	2.1/8"	90	2600
78181	78182	2.3/8"		2650
78183	78184	2.1/2"		3050
78185	78186	2.9/16"	95	3300
78187	78188	2.5/8"		3350
78189	78190	2.3/4"	100	3400
78191	78192	2.15/16"		3800
78193	78194	3"	105	4100
78195	78196	3.1/8"		4200
78197	78198	3.3/8"	110	4800
78199	78200	3.1/2"		5600
78201	78202	3.3/4"	125	6700
78203	78204	3.15/16"		7650
78205	78206	4"		8200
78207	78208	4.1/8"		8800
78209	78210	4.1/2"	130	10000



MM

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

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78249	78250	1.3/8"	80	2200
78251	78252	1.5/8"		
78253	78254	1.13/16"	85	2400
78255	78256	2"		
78257	78258	2.1/8"	90	2600
78259	78260	2.3/8"		2650
78261	78262	2.1/2"		3050
78263	78264	2.9/16"	95	3300
78265	78266	2.5/8"		3350
78267	78268	2.3/4"	100	3400
78269	78270	2.15/16"		3800
78271	78272	3"	105	4100
78273	78274	3.1/8"		4200
78275	78276	3.3/8"	110	4800
78277	78278	3.1/2"		5600
78279	78280	3.3/4"	125	6700
78281	78282	3.15/16"		7650
78283	78284	4"		8200
78285	78286	4.1/8"		8800
78287	78288	4.1/2"	130	10000



LLaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" - Certificados ATEX para uso en zonas Ex: Ex II 2 GcT6 y Ex II 2 GcT5 - Ver capítulo de Seguridad Intrínseca.

Impact Wrenches - Pneumatic and Hydraulic, 1/2", 3/4", 1" and 1.1/2" Sq. Drive - ATEX Certified for use in Ex Zones: Ex II 2 GcT6 y Ex II 2 GcT5 - See Intrinsic Safety chapter.

Doilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" - Certifiés ATEX pour usage dans les zones Ex: Ex II 2 GcT6 et Ex II 2 GcT5 - Voir chapitre Sécurité Intrinsèque.

LLAVES DE VASO DE IMPACTO / IMPACT SOCKET WRENCHES / DOUILLES À CHOC / IMPACT STECKSCHLÜSSEL EINSÄTZE / BUSSOLA AD IMPULSI / CHAVES DE CAIXA DE IMPACTO / УДАРНАЯ ГОЛОВКА

2. 1/2"



MM

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78289	78290	75mm	140	8400
78291	78292			80mm
78293	78294	85mm	150	8900
78295	78296	90mm		10250
78297	78298	95mm	10500	
78299	78300	100mm	11300	
78301	78302	105mm	12200	
78303	78304	110mm	13250	
78305	78306	115mm	14150	
78307	78308	120mm	15050	
78309	78310	125mm	15950	

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78311	78312	2.15/16"	140	8400
78313	78314			3.1/8"
78315	78316	3.3/8"	150	8900
78317	78318	3.1/2"		10100
78319	78320	3.3/4"	10500	
78321	78322	3.15/16"	11300	
78323	78324	4.1/8"	12250	
78325	78326	4.5/16"	12700	
78327	78328	4.1/2"	14200	
78329	78330	4.3/4"	15100	
78331	78332	4.15/16"	16000	



MM

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78333	78334	75mm	140	8400
78335	78336			80mm
78337	78338	85mm	150	8900
78339	78340	90mm		10250
78341	78342	95mm	10500	
78343	78344	100mm	11300	
78345	78346	105mm	12200	
78347	78348	110mm	13250	
78349	78350	115mm	14150	
78351	78352	120mm	15050	
78353	78354	125mm	15950	

INCH.

COD		AF	L mm	gr.
Cu-Be	Al-Bron			
78355	78356	2.15/16"	140	8400
78357	78358			3.1/8"
78359	78360	3.3/8"	150	8900
78361	78362	3.1/2"		10100
78363	78364	3.3/4"	10500	
78365	78366	3.15/16"	11300	
78367	78368	4.1/8"	12250	
78369	78370	4.5/16"	12700	
78371	78372	4.1/2"	14200	
78373	78374	4.3/4"	15100	
78375	78376	4.15/16"	16000	



LLaves de Impacto - Neumáticas e Hidráulicas, Cuadrado 1/2", 3/4", 1" y 1.1/2" - Certificados ATEX para uso en zonas Ex: Ex II 2 GcT6 y Ex II 2 GcT5 - Ver capítulo de Seguridad Intrínseca.
Impact Wrenches - Pneumatic and Hydraulic, 1/2", 3/4", 1" and 1.1/2" Sq. Drive - ATEX Certified for use in Ex Zones: Ex II 2 GcT6 y Ex II 2 GcT5 - See Intrinsic Safety chapter.
Douilles à choc - Pneumatiques et Hydrauliques, Carrée de 1/2", 3/4", 1" et 1.1/2" - Certifiés ATEX pour usage dans les zones Ex: Ex II 2 GcT6 et Ex II 2 GcT5 - Voir chapitre Sécurité Intrinsèque.




ALARGADERA DE IMPACTO / IMPACT EXTENSION / RALLONGE À CHOC / KRAFTSCHRAUBER-VERLÄNGERUNG / PROLUNGA IMPACT / EXTENSÃO DE IMPACTO / УДАРНЫЙ УДЛИНИТЕЛЬ

COD		L mm	gr.
Cu-Be	Al-Bron		
78377	78378	75mm	155
78379	78380		125mm
78381	78382	250mm	550
78383	78384		1100
78385	78386	150mm	1100
78387	78388		300mm






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

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				
Cu-Be	Al-Bron			
76518	76519	1/2"	60mm	180
76520	76521	3/4"	100mm	320
76522	76525	1"	115mm	950






PASADOR DE SEGURIDAD / SAFETY PIN / GOUPILLE DE SECURITE / SICHERUNGSSSTIFT / COPPIGLIA / PINO DE SEGURANÇA
ФИКСИРУЮЩИЙ ПАЛЕЦ

COD				Ø x L (mm)	
Cu-Be	Al-Bron				
73621	73622	3-4"	24-30mm	6x30	10
73623	73624			32-50mm	
73625	73626	1"	19-41mm	6x50	15
73627	73628			46-80mm	






LLAVES ESPECIALES / SPECIAL WRENCHES / CLÉS SPÉCIALES / SPEZIELL ZANGEN
CHIAVE SPECIALE / CHAVES ESPECIAIS / СПЕЦИАЛЬНЫЕ КЛЮЧИ

LLAVE EN "C" / C WRENCH / CLÉ EN C / C SCHLÜSSEL / CHIAVE A C / CHAVE EM C / С-ОБРАЗНЫЙ КЛЮЧ

COD				
Cu-Be	Al-Bron			
72418	72419	450	40	1100






LLAVE EN "C" DOBLE / DOUBLE C WRENCH / CLÉ EN DOUBLE C / DOPPEL C SCHLÜSSEL / CHAIVE DOPPIA A C /
CHAVE EM C DUPLA / ДВОЙНОЙ С-ОБРАЗНЫЙ КЛЮЧ

COD				
Cu-Be	Al-Bron			
72420	72421	200	14,5 18,5	380





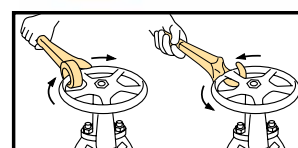
GANCHO GIRADOR DE VÁLVULAS / VALVE WHEEL HOOK / FIXATION GIRATOIRE DE VALVE / VENTILHAKEN
GANCIO GIREVOLE PER VALVOLE / GANCHO DE RODA VÁLVULAS / КЛЮЧ ДЛЯ ОТКРЫТИЯ КЛАПАНОВ

COD				
Cu-Be	Al-Bron			
72422	72423	200	30	250
72424	72425	300	32	500
72426	72427	250	35	350
72428	72429	300	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



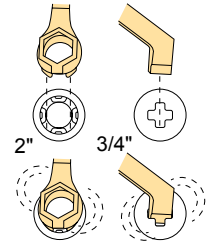
LLAVE DE VÁLVULA LARGA / LONG VALVE SPANNER / CLÉ POUR LONGUES VALVES / LANGER VENTIL-SCHLÜSSEL / CHIAVE
LARGA PER VALVOLE / CHAVE DE VALVULA LONGA / КЛЮЧ ДЛЯ ОТКРЫТИЯ КЛАПАНОВ ДЛИННЫЙ

COD		Øx	Øy		
Cu-Be	Al-Bron				
71432	71435	3-7"	< 36mm	210	400
71433	71436	8-15"	< 48mm	400	900
71434	71437	16-20"	< 60mm	490	1400
71441	71445			800	4600



LLAVE TAPONADORA / BUNG WRENCH / CLÉ OUVRE-BIDONS / PFROPFEN-SCHLÜSSEL / CHIAVE APRIFUSTI
CHAVE ABRE BIDÕES / ОТКРЫВАТЕЛЬ ПРОБОК

COD		L mm	gr.
Cu-Be	Al-Bron		
71446	71447	300	800



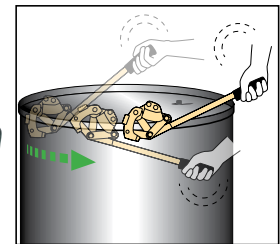
LLAVE TAPONADORA UNIVERSAL / MUTI-HEAD BUNG WRENCH / CLÉ UNIVERSELLE À BOUCHON / MULTI-HEAD
FASSSCHLÜSSEL / CHIAVE A TAPPO UNIVERSALE / CHAVE DE BUJÕES UNIVERSAL / ОТКРЫВАТЕЛЬ ПРОБОК С ГОЛОВКОЙ МУТН

COD		L mm	gr.
Cu-Be	Al-Bron		
72452	72453	385	1200



ABREBIDONES / DRUM OPENER / OUVRES BIDONS / FASSÖFFNER / APRITOID A TAMBURO / ABRE BIDONS / ОТКРЫВАТЕЛЬ БОЧЕК

COD		L mm	Kg.	1
Cu-Be	Al-Bron			
74282	74283	485	3	1



ABRIDOR DE TONELES DE CARBURO / CARBIDE DRUM OPENER / OUVRE BARIL DE CARBURANT / KARBID FASSÖFFNER
APRITOID A TAMBURO DEL CARBURO / CHAVE DE CARBURO PARA ABRIR TAMBORES / ОТКРЫВАТЕЛЬ БОЧЕК С КАРБИДОМ

COD		L mm	gr.
Cu-Be	Al-Bron		
72169	72170	280	650



LLAVE DE GANCHO / HOOK SPANNER / CLÉ À ERGOT / ECKZANGE / CHIAVE A SETTORE / CHAVE DE GANCHO
КЛЮЧ КРЮК

COD		CAP	L mm	gr.
Cu-Be	Al-Bron			
71392	71409	12 - 14	105	40
71393	71410	16 - 20	110	50
71394	71411	25 - 28	130	80
71395	71412	30 - 32	170	100
71396	71413	34 - 36		
71397	71414	40 - 42	200	150
71398	71415	45 - 50		
71399	71416	52 - 55	230	200
71400	71417	58 - 62		
71401	71418	68 - 75	250	500
71402	71419	80 - 90		
71403	71420	90 - 100	300	700
71404	71421	95 - 100		
71405	71422	100 - 110	330	800
71406	71423	110 - 115		
71407	71424	120 - 130	340	900
71408	71425	135 - 145		



LLAVE DE GANCHO ARTICULADA / ADJUSTABLE HOOK SPANNER / CLÉ À ERGOT ARTICULEE / ZANGE MIT VERSTELLBARE
BACKE / CHIAVE A SETTORE REGOLABILE / CHAVE DE GANCHO ARTICULADA / РУГУЛИРУЕМЫЙ КЛЮЧ КРЮК

COD		CAP	L mm	gr.
Cu-Be	Al-Bron			
71426	71429	32-75	210	200
71427	71430	50-120	280	500
71428	71431	115-170	310	




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

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		← L →		Kg.
Cu-Be	Al-Bron			
70121	71458	8"	1"	0,3
70122	71459	10"	1.1/2"	0,8
70123	71460	12"	2"	1,3
70124	71461	14"		1,7
70125	71462	18"	2.1/2"	2,6
70126	71463	24"	3"	4,5
70127	71464	36"	5"	9,0
70128	71465	48"	6"	16




LLAVE SUECA 45° / SWEDISH PIPE WRENCH 45° / SERRE-TUBES SUEDOISE 45° / EKROHRZANGE 45° /
GIRATUBI MOD. SUEDESE 45° / CHAVE SUECA 45° / ШВЕДСКИЙ КЛЮЧ S 45°

COD			← L →	Kg.
Cu-Be	Al-Bron			
70129	71466	1.1/2"	420	1,4
70130	71467	2"	550	2,5




LLAVE SPUD / SPUD PIPE WRENCH / CLÉ SPUD / VERSTELLBARE ROHRZANGE / GIRATUBI MODELLO SPUD /
CHAVE PARA TUBO SPUD / ТРУБНЫЙ КЛЮЧ С ПАРАЛЛЕЛЬНЫМИ ГУБКАМИ

COD		← L →		Kg.
Cu-Be	Al-Bron			
71822	71823	12"	58mm	1,2




LLAVE DE CORREA / STRAP WRENCH / CLÉ À SANGLE / GURTROHRZANGE / GIRATUBI A NASTRO / CHAVE DE CORREIA /
РЕМШКОВЫЙ КЛЮЧ


COD		← L → mm		gr.
Cu-Be	Al-Bron			
73906	73907	300	3"	800



LLAVE DE CADENA / CHAIN PIPE WRENCH / CLÉ À CHAÎNE / KETTEN-ROHRZANGE / GIRATUBI A CATENA / CHAVE CORRENTE /
ЦЕПНОЙ КЛЮЧ

COD			← L →	Kg.
Cu-Be	Al-Bron			
72976	72977	4"	600	3,8
72978	72979	6"		4,2
72980	72981	8"	900	8,5
72982	72983	12"		9,5



COD			← L →	Kg.
Cu-Be	Al-Bron			
70131	71468	2"	600	2,2
70132	71469	4"		2,8
70133	71470	6"		3,5



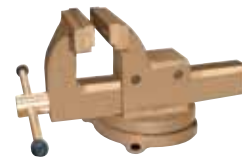
CORTATUBOS / PIPE CUTTER / COUPE-TUBES / ROHRABSCHNEIDER / TAGLIATUBI / CORTA TUBOS / ТРУБОРЕЗ ДЛЯ СТАЛИ

COD					
Cu-Be	Al-Bron		L mm	H mm	
70134	71471	2"	380	60	2,4



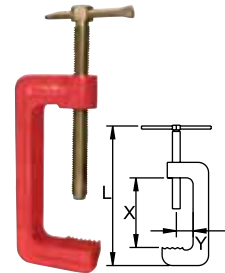
TORNILLO DE BANCO PARALELO / PARALLEL BENCH VICE / ETAU À MORS PARALLELES / PARALLELSCHRAUBSTÖCKE / Morsa da Banco Paralela / TORNO DE BANCADA PARALELO / СЛЕСАРНЫЕ ТИСКИ

COD			
Cu-Be	Al-Bron		
70482	71636	4"	15
70483	71637	5"	18
70486	72191	6"	27
70487	72192	7"	28



PRENSA / CLAMP / PRESSE / KNEBEL / MORSETTO / PRENSA / СТРУБЦИНА

COD			X	Y	
Cu-Be	Al-Bron	L mm			
72478	72479	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		CAP (mm)	
Cu-Be	Al-Bron		
74250	74251	400	2200



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

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

COD					
Cu-Be	Al-Bron				
72258	72279	50	3	80	35
72259	72280		4,5		43
72260	72281		3		35
72261	72282	75	4	103	45
72262	72283		5		70
72263	72284		4		45
72264	72285	100	5	103	75
72265	72286				85
72266	72287		125		100
72267	72288	150	6	112	110
72268	72289		7		125
72269	72290		8		140
72270	72291	200	8	112	165
72271	72292	250	9		185
72272	72293	200	10		260
72273	72294	300	10	112	230
72274	72295	250			240
72275	72296	300	11		290
72276	72297	350			320
72277	72298	400	12	150	400
72278	72299	450	13		480



35 ANTICHISPA / NON-SPARKING / ANTI-DEFLAGRANT / FUNKENFREI ANTISCINTILLA / ANTI-DEFLAGRANTE / ИСКРБЕЗОПАСНЫЙ

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

COD					gr.
Cu-Be	Al-Bron				
71581	71588	50	3		50
71582	71589	100	4		70
71583	71590	150		75	80
72306	72308	100			100
72307	72309	200	5		200
71584	71591	100	6	95	100
71585	71592	150	8		
71586	71593	200		105	200
71587	71594	300	10		300



PHILIPS

COD					gr.
Cu-Be	Al-Bron				
72909	72910	PH-0	60	75	40
71595	71599	PH-1	80		50
71596	71600	PH-2	100	95	70
71597	71601	PH-3	150		80
71598	71602	PH-4	200	105	100



POZIDRIV

COD					gr.
Cu-Be	Al-Bron				
74336	74337	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					gr.
Cu-Be	Al-Bron				
35714	35715	T 10			67
35716	35717	T 15	75	98	71
35718	35719	T 20	100		98
74367	74368	T 25	125		103
35720	35721	T 27		108	
35722	35723	T 30	150		108
35724	35725	T 40	200	120	160
35726	35727	T 45	250		180



TAMPER TORX

COD					gr.
Cu-Be	Al-Bron				
35700	35701	TT 10			67
35702	35703	TT 15	75	98	71
35704	35705	TT 20	100		98
74349	74350	TT 25	125		103
35706	35707	TT 27		108	
35708	35709	TT 30	150		108
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		HEX			gr.
Cu-Be	Al-Bron				
73879	73880	6	90	100	85
73881	73882	8	100	110	100
73883	73884	10			140
73885	73886	13			180
73887	73888	16		120	220
73889	73890	17	120		230



SETS



COD Cu.Be: 76465
COD Al.Bron: 76466

6 PCS.

PCS.	Cu-Be	Al-Bron		
1	72258	72279	3x50	⓪
	72263	72284	4x100	
	72264	72285	5x100	
	72269	72290	8x150	⊕
	71595	71599	PH-1	
	71596	71600	PH-2	

COD Cu.Be: 76467
COD Al.Bron: 76468

6 PCS.

PCS.	Cu-Be	Al-Bron		
1	71581	71588	3x50	⓪
	71582	71589	4x100	
	72306	72308	5x100	
	71585	71592	8x150	⊕
	71595	71599	PH-1	
	71596	71600	PH-2	

COD Cu.Be: 76469
COD Al.Bron: 76470

8 PCS.

PCS.	Cu-Be	Al-Bron		
1	72258	72279	3x50	⓪
	72263	72284	4x100	
	72264	72285	5x100	
	72265	72286	6x100	⊕
	71595	71599	PH-1	
	71596	71600	PH-2	
	74347	74348	PZ-1	⊗
	72247	72246	PZ-2	

COD Cu.Be: 76471
COD Al.Bron: 76472

8 PCS.

PCS.	Cu-Be	Al-Bron		
1	71581	71588	3x50	⓪
	71582	71589	4x100	
	72306	72308	5x100	
	71584	71591	6x100	⊕
	71595	71599	PH-1	
	71596	71600	PH-2	
	74347	74348	PZ-1	⊗
	72247	72246	PZ-2	



DESTORNILLADOR ACODADO / OFFSET SCREWDRIVER / TOURNEVIS CONTRE COUDÉ / BEKRÖPFTE SCHRAUBENDREHER /
CACCIAVITE DOPPIO / CHAVE DE FENDAS EM ÂNGULO / ИЗОГНУТАЯ ОТВЕРТКА

COD		L mm		gr.
Cu-Be	Al-Bron			
72462	72463	72	6	25
72464	72465	125	8	50
72466	72467	195	10	125

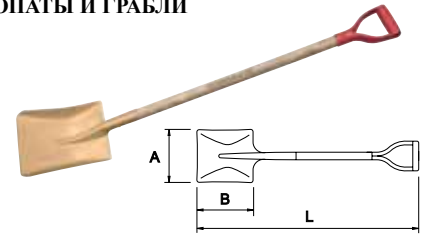


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Cu-Be cobre berilio / beryllium copper / cuivre beryllium / Kupfer Beryllium / koper beryllium / rame-berillio / СПЛАВ МЕДЬ БЕРИЛЛИЙ
Al-Bron aluminio bronce / aluminium bronze / alliage aluminium-bronze / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЛЮМИНИЙ БРОНЗА

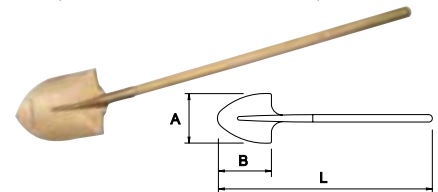
PALAS Y RASTRILLOS / SHOVELS AND RAKES / PELLES ET RACLETTES / SCHAUFEL UND RECHEN / PALE E RASTRELLI / PÁS E ANSINHOS / ЛОПАТЫ И ГРАБЛИ

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



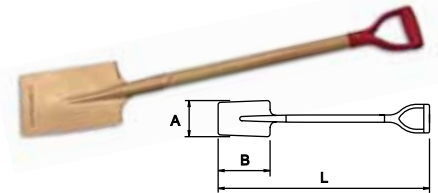
PALA PUNTA / ROUND POINT SHOVEL / PELLE EN POINTE / SCHWANENHALSSCHAUFEL / PALA A PUNTA TONDA / PA DE VICO / САДОВАЯ ЛОПАТА

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



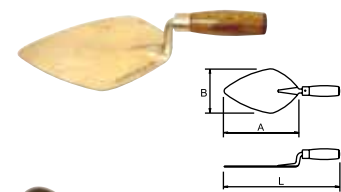
PALA DE CAVAR / EDING SPADE / PELLE BÈCHE / SCHAUFEL VIERECKING / PALA PER SCAVARE / PA DE VALAR / СОВКОВАЯ ЛОПАТА

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



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

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



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

COD		L mm	gr.
Cu-Be	Al-Bron		
74253	74254	130x130	1000
74255	74256	200x200	1600



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		LxWxH	gr.
Cu-Be	Al-Bron		
74231	74232	1025x200x185	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		LxW	gr.
Cu-Be	Al-Bron		
74234	74235	1225x200	2000



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		LxWxH	gr.
Cu-Be	Al-Bron		
74237	74238	350x100x100	900



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

COD		LxWxH	gr.
Cu-Be	Al-Bron		
74258	74259	1270x350x100	1300
74260	74261	1270x450x120	1500



CORTE / CUTTING / OUTILS COUPANTS / SCHNEIDWERKZEUG / ARCHETTI / CORTE / РЕЗКА
CORTAVARILLAS / BOLT CUTTERS / COUPE-BOULONS / BOLZENSCHNEIDER / TAGLIABULLONI / CORTA VARAO / АРМАТУРНЫЕ
НОЖНИЦЫ

COD		L mm	CAP mm	gr.
Cu-Be	Al-Bron			
73415	73423	24"	5-8mm	3000



COD		L mm	NEW
Cu-Be	Al-Bron		
35760	35761	24"	



NEW

DIZALLA DE PASO LIBRE A LA DERECHA / RIGHT CUT NIPPER SHEAR / CISAILLE COUPO DROITE / SCHNEIDSCHERE RECHTS /
CESOIA TAGLIO DESTRO / TESOURA DE PASSAGEM LIVRE A DIREITA / НОЖНИЦЫ ПРАВОЙ РЕЗКИ

COD		L mm	gr.
Cu-Be	Al-Bron		
70528	70545	275	600



TIJERAS / SCISSORS / CISEAUX / SCHERE / CESOIE / TESOIRA / НОЖНИЦЫ

COD		L mm	gr.
Cu-Be	Al-Bron		
70529	70546	225	300



COD		L mm	gr.
Cu-Be	Al-Bron		
72460	72461	150	90



COD		L mm	gr.
Cu-Be	Al-Bron		
73892	73893	290	220
73894	73895	360	850



TIJERAS DE HOJALATERO / TIN SNIPS / CISEAUX DE TOLIER / BLECHSCHEREN / CESOIA PER LATTONIERI /
TESOURAS DE CHAPA / НОЖНИЦЫ ПО ЖЕСТИ

COD		L mm	gr.
Cu-Be	Al-Bron		
72458	72459	300	450



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

COD		L mm	gr.
Cu-Be	Al-Bron		
72220	72221	500	600



HOJAS PARA ARCO DE SIERRA / HACKSAW BLADES / LAMES DE SCIES / METALLSÄGEBLÄTTER / LAME PER ARCHETTI /
FOLHA DE SERRA / ПОЛОТНА ДЛЯ НОЖОВКИ

COD		L mm	gr.
Cu-Be	Al-Bron		
72223		300	35



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

COD		L mm	gr.
Cu-Be	Al-Bron		
72468	72469	370	125





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

COD		L mm	gr.
Cu-Be	Al-Bron		
74228	74229	700	550





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

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



COD			
Cu-Be	Al-Bron		
71611	71612	30x200	70



COD			
Cu-Be	Al-Bron		
71613	71614	250	90






NAVAJA DE ELECTRICISTA / ELECTRICIAN KNIFE / COUTEAU ELECTRICIEN / ELEKTRIKER MESSER / COLTELLO PER ELETTRICISTI / NAVALHA DE ELECTRICISTA / НОЖИ ДЛЯ ЭЛЕКТРИКА

COD			
Cu-Be	Al-Bron		
73741	73742	61x113	180



BROCAS / TWIST DRILL / FORET / BOHRER / PUNTE PER TRAPAND / BROCAS / СВЕРЛО





COD			
Cu-Be			
73632	6	100	25
73633	7	120	35
73634	8	140	55
73635	9	160	80
73636	10	180	110
73637	11	200	150
73638	12	220	200
73639	13	240	250
73640	14	260	320
73641	15	280	400
73642	16	300	470
73643	17	320	540
73644	18	320	650
73645	19	320	720
73646	20	330	820

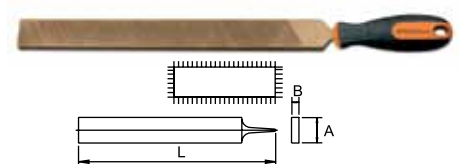


Para materiales con dureza < 20HRC / For materials with hardness < 20HRC / Pour les matériaux de dureté < 20HRC





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

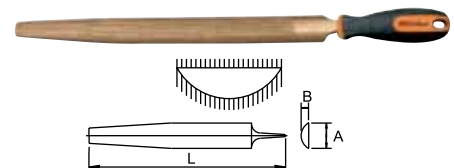
LIMA PLANA / HAND FILE / LIME PLATE / HANDFEILE / LIMA PIATTA / LIMA PARALELA / РУЧНОЙ НАПИЛЬНИК

COD				
Cu-Be				
71607	200	20	6	350
71608	300	31	8	750
72237	500	41	12	1800






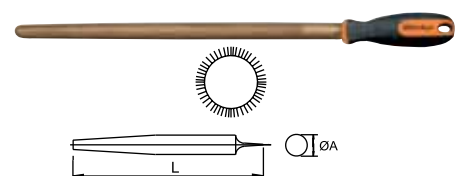
LIMAS MEDIA CAÑA / HALF ROUND FILES / LIMES DEMI-RONDES / HALBRUND FEILEN / LIMA MEZZATONDA / LIMAS MEIA CANA / ПОЛУКОУЛЫЙ НАПИЛЬНИК

COD				
Cu-Be				
71603	200	19	10	450



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

COD			
Cu-Be			
71605	200	9	450



MISCELÁNEA / MISCELLANEOUS / MELANGÉE / VERSCHIEDENE / MISCELLANEA /
MISTURA / РАЗНОЕ

CINGEL / FLAT CHISEL / CISEAU / MAURERMEISSEL / SCALPELLI / ESCOPRO / ПЛОСКОЕ ЗУБИЛО

COD		L mm	gr.
Cu-Be	Al-Bron		
70447	71509	150x22	300
70448	71510	200x22	400
70449	71511	250x24	600
70450	71512	300x25	800
70451	71513	400x27	1000



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

COD		L mm	gr.
Cu-Be	Al-Bron		
73778	73779	140	270
73780	73781	200	450
73782	73783	300	800



CORTAFRÍOS CILÍNDRICO / CYLINDRICAL CHISEL / BÉDANE CYLINDRIQUE / ZYLINDRISCHE MEISSEL / SCALPELLO
CILINDRICO TAGLIO A FREDDO / ESCOPRO CILINDRICO / ЦИЛИНДРИЧЕСКОЕ ЗУБИЛО

COD		L mm	Ø (mm)	gr.
Cu-Be	Al-Bron			
73788	73789	14x160	14	175
73790	73791	16x160	16	230
73792	73793	18x160	18	280
73794	73795	18x200	18	370
73796	73797	20x200	20	470
73798	73799	24x250	24	800
73800	73801	24x300	24	1000
73802	73803	25x300	25	1250
73804	73805	25x400	25	1400
73806	73807	25x500	25	1800
73808	73809	30x500	30	2650



CORTAFRÍOS HEXAGONAL / HEXAGONAL CHISEL / BÉDANE HÉXAGONALE / HEX MEISSEL / SCALPELLO ESAGONALE
TAGLIO A FREDDO / ESCOPRO HEXAGONAL / ШЕСТИГРАННОЕ ЗУБИЛО

COD		L mm	Ø (mm)	gr.
Cu-Be	Al-Bron			
73811	73812	12x150	10	100
73813	73814	16x200	14	250
73815	73816	18x160	16	260
73817	73818	16x250	14	320
73819	73820	19x300	17	700
73821	73822	19x350	17	900
73823	73824	24x600	22	1800
73825	73826	28x300	25	1100
73827	73828	35x500	30	2700



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

COD		L mm	gr.
Cu-Be	Al-Bron		
71514	71516	100	60
71515	71517	150	80



BOTADOR / DRIFT PIN BARREL & STRAIGHT / CHASSE RIVETS / DURCHSCHLÄGER / PUNZONE / PUNÇÃO / ВЫКОЛОТКИ ПРЯМЫЕ И
БОЧКООБРАЗНЫЕ

COD		mm	L mm	gr.
Cu-Be	Al-Bron			
70426	71472	2mm	150x10	60
70427	71473	3mm		
70428	71474	4mm		
70429	71475	5mm		
70430	71476	6mm	150x12	70
70431	71477	7mm		
70432	71478	8mm		
70433	71479	9mm	150x14	200
70434	71480	10mm		
70435	71481	11mm	150x16	300
70436	71482	12mm		
70437	71483	13mm	150x18	400
70438	71484	14mm		
70439	71485	15mm	200x20	500
70440	71486	16mm		
70441	71487	17mm	250x24	800
70442	71488	18mm		
70443	71489	19mm	250x26	900
70444	71490	20mm		
70445	71491	21mm		
70446	71492	22mm		



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 / Aluminium Bronze / aluminium brons / aluminio bronzo / СПЛАВ АЛЮМИНИЙ БРОНЗА

BOTADOR / DRIFT PIN BARREL & STRAIGHT / CHASSE RIVETS / DURCHSCHLÄGER / PUNZONE / PUNÇAO / ВЫКОЛТКИ ПРЯМЫЕ И БОЧКООБРАЗНЫЕ

COD		inch.	L mm	gr.
Cu-Be	Al-Bron			
73583	73572	7/8"	250x26	950
73584	73573	1"		
73585	73574	1.1/8"		
73586	73575	1.1/4"		
73587	73576	1.3/8"		
73588	73577	1.1/2"		
73589	73578	1.5/8"		1000
73590	73579	1.3/4"		
73591	73580	1.7/8"		



BOTADOR / PIN PUNCH / CHASSE-GOUPILLES / DURCHSCHLÄGER / PUNTE / PUNÇAO / ЦИЛИНДРИЧЕСКИЙ ПРОБОЙНИК

COD		mm	L mm	gr.	
Cu-Be	Al-Bron				
71518	71527	1,4mm	110	50	
71519	71528	1,8mm			
71520	71529	2,4mm			
71521	71530	2,8mm			
71522	71531	3mm		60	
71523	71532	4mm			
71524	71533	5mm		120	80
71525	71534	6mm		130	
71526	71535	8mm		140	
				150	



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

COD		mm	L mm	gr.
Cu-Be	Al-Bron			
71544	71548	200mm	16	300
71545	71549	250mm	17	
71546	71550	300mm	19	
71547	71551	400mm	20	



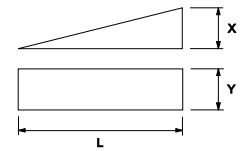
PUNTERO ESPECIAL / CAULKING TOOL / BURIN SPECIAL / KÖRNER LANG / PUNTE SPECIALI / PUNÇAO ESPECIAL / МОНТИРОВКА

COD		mm	Kg.
Cu-Be	Al-Bron		
71552	71557	1000-32mm	6,5
71553	71558	1200-36mm	9,5
71554	71559	1500-36mm	13
71555	71560	1000-50mm	16
71556	71561	1200-50mm	18



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

COD		L mm	y (mm)	x (mm)	gr.
Cu-Be	Al-Bron				
78967	78968	80	13	6-0	50
70452	71493	100	50	10-0	200
70453	71494	135		18-0	500
70454	71495	150	25	8-0	100
70455	71496		40	13-0	200
70456	71497		50	8-0	400
70457	71498		13	6-0	300
70458	71499	180	32	13-0	700
70459	71500		50	19-0	500
70460	71501	200	20	30-0	800
70461	71502		30	40-0	1300
70462	71503		40	12-0	500
70463	71504		50	20-0	800
70464	71505	230	40	30-0	1300
70465	71506		250	40-0	2500
70466	71507	300	50		
70467	71508				



PALANCA / PINCHBAR / PINCE À TALON / BRECHSTANGE / LEVA / AVALANCA / МОНТИРОВКА

COD		L mm	Kg.
Cu-Be	Al-Bron		
70468	71570	19x500	1,3
70469	71571	23x800	2,9
70470	71572	28x1000	4,5



BARRA DE DESENCOFRAR / WRECKING BAR / PINCE MONSIEUR / BRECHEISEN / APRIGASSE CON LEVA CHIODI / PE DE CABRA / КРИК

COD		L mm	Kg.
Cu-Be	Al-Bron		
71573	71577	16x460	1,3
71574	71578	19x600	2,4
71575	71579	19x750	3,0
71576	71580	19x900	3,3



PALANCA / PINCHBAR / PINCE À TALON / BRECHSTANGE / LEVA / AVALANCA / МОНИТРОВКА

COD		L mm	Ø (mm)	Kg.
Cu-Be	Al-Bron			
73833	73834	500	15	0,7
73835	73836		19	1,0
73837	73838		20	1,2
73839	73840		25	1,8
73841	73842		30	2,7
73843	73844	600	25	2,2
73845	73846		30	3,3
73847	73848		23	2,1
73849	73850	800	25	3,0
73851	73852		30	4,5
73853	73854	1000	25	3,8
73855	73856		28	4,5
73857	73858		30	5,5
73859	73860		25	4,5
73861	73862		1200	25
73863	73864	30		6,5
73865	73866	30		8,5

COD		L mm	A(mm)	Kg.
Cu-Be	Al-Bron			
76545	76546	230	70	0,45

HERRAMIENTA DE REMATAR / CAULKING TOOL / CLÉ DE FINITION / ABDICHTEN-WERKZEUG / UTENSILI DA SVENDERE / FERRAMENTA DE CALAFETAR / МОНИТРОВКА

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

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

COD		X	Y	Z	gr.
Cu-Be	Al-Bron				
72583	72584	28	150	350	3200

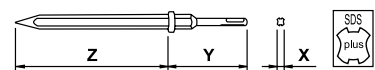
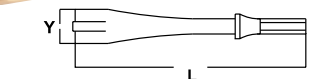
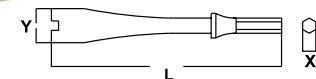
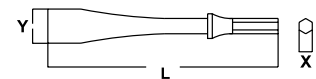
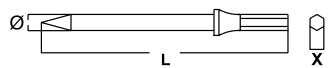
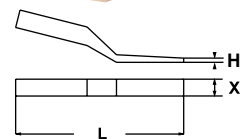
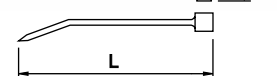
COD		X	L mm	Ø	gr.
Cu-Be	Al-Bron				
72585	72586	10	125	12	120
72587	72588		175	170	

COD		X	L mm	Y	gr.
Cu-Be	Al-Bron				
72589	72590	10	125	20	150
72591	72592		175		190

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

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

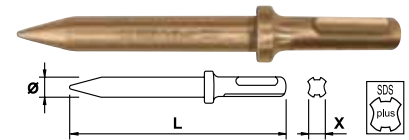
COD		X	Y	Z	gr.
Cu-Be	Al-Bron				
35570	35571	28	150	350	3200



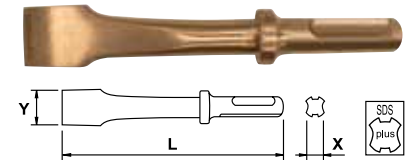
35 ANTICHISPA / NON-SPARKING / ANTI-DEFLAGRANT / FUNKENFREI ANTISCINTILLA / ANTI-DEFLAGRANTE / ИСКРОБЕЗОПАСНЫЙ

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

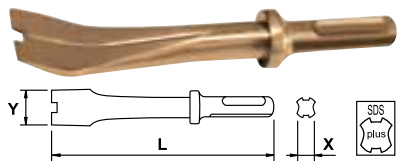
COD		X	L mm	Ø	gr.
Cu-Be	Al-Bron				
35572	35573	10	125	12	120
35574	35575		175		170



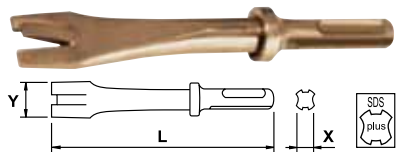
COD		X	L mm	Y	gr.
Cu-Be	Al-Bron				
35576	35577	10	125	20	150
35578	35579		175		190



COD		X	L mm	Y	gr.
Cu-Be	Al-Bron				
35580	35581	10	125	20	150
35582	35583		175		190



COD		X	L mm	Y	gr.
Cu-Be	Al-Bron				
35584	35585	10	125	20	150
35586	35587		175		190



TRAZADOR / MARKING TOOL / POINTE À TRACER / MARKIERUNGSWERKZEUG / TRACCIATORE / TRAÇADOR / МАРКИРОВЩИКИ

COD		L mm	Ø (mm)	gr.
Cu-Be	Al-Bron			
74217	74218	400	12	500
74219	74220	600	16	1000



COD		L mm	Ø (mm)	gr.
Cu-Be	Al-Bron			
72216	72217	190	4	15
74222	74223	250	4	20



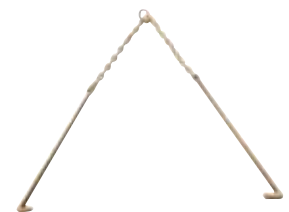
PUNZÓN / AWL / POINTEAU / AHLE / PUNZONI / PUNÇÃO / ШИЛО

COD		L mm	Ø (mm)	gr.
Cu-Be	Al-Bron			
74225	74226	100x200	3	50



GANCHOS AJUSTABLES PARA BIDONES / ADJUSTABLE BARREL HOOKS / CROCHETS LÈVE BIDONS / VERSTELBARE FASSHAKEN / GANCIO REGOLABILE PER BIDONI / GANCHOS AJUSTÁVEIS PARA BIDONS / КРЮК ДЛЯ БОЧЕК РЕГУЛИРУЕМЫЙ

COD		Ø MAX (mm)	CAP (Kg)	gr.
Cu-Be	Al-Bron			
74247	74248	1060	700	3200



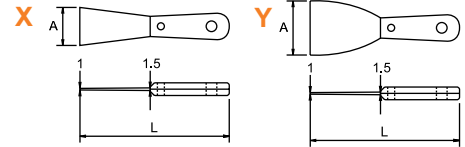
RASQUETA / LONG BLADE SCRAPER / LONGUE RACLETTE / FLACHSCHABER / RASCHIETTO / RASCADOR / ШИРОКАЯ ЛОПАТКА

COD		mm	Kg.
Cu-Be	Al-Bron		
71562	71566	60x185	1,2
71563	71567	100x225	1,5
71564	71568	150x180	2,6
71565	71569	125x225	



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

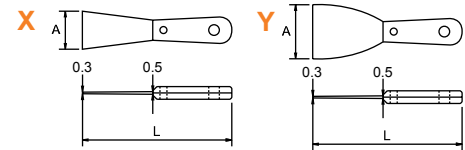
COD			A	L	gr.
Cu-Be	Al-Bron		mm	mm	
70471	71621	X	25	200	85
70472	71622	X	30		95
70473	71623	X	40		105
70474	71624	X	50		115
70475	71625	X	60		135
70476	71626	Y	75		150
70477	71627	Y	80		
70478	71628	Y	100		



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

COD			A	L	gr.
Cu-Be	Al-Bron		mm	mm	
35730	35731	X	25	200	85
35732	35733	X	30		95
35734	35735	X	40		105
35736	35737	X	50		115
35738	35739	X	60		135
35740	35741	Y	75		150
35742	35743	Y	80		
35744	35745	Y	100		

NEW



RASQUETA / SCRAPER / GRATTOIR / SCHABER / RASCHIETTO / RASPADOR / СКРЕБОК

Cu-Be	Al-Bron	L	gr.
		mm	
73759	73760	95x480	650

Cu-Be	Al-Bron	L	gr.
		mm	
72155	72156	50x900	650

Cu-Be	Al-Bron	L	gr.
		mm	
73744	73745	50x900	650

Cu-Be	Al-Bron	L	gr.
		mm	
73750	73751	50x695	900
73752	73753	75x710	1100
73754	73755	100x710	1200
73756	73757	150x750	2000

Cu-Be	Al-Bron	L	gr.
		mm	
72167	72168	40x270	350

Cu-Be	Al-Bron	L	gr.
		mm	
73747	73749	48x300	400

Cu-Be	Al-Bron	L	gr.
		mm	
73762	73763	75x600	650



RASQUETA CURVA / ARCHED SCRAPER / GRATTOIR COURBÉ / SPACHTEL FÜR GEBOGEN FLÄCHEN / RASPE CURVE / RASPADOR CURVO / ИЗГНУТЫЙ СКРЕБОК

Cu-Be	Al-Bron	L	gr.
		mm	
73765	73766	50x190	400
73767	73768	100x210	650
73769	73770	150x220	800



RASQUETA PLANA / FLAT SCRAPER / GRATTOIR PLATTE / FLACHSCHABER / RASCHIETTO PIATTO / RASPADOR PLANO / ПЛОСКИЙ СКРЕБОК

Cu-Be	Al-Bron	L	gr.
		mm	
72157	72162	30x200	300
72158	72163	30x300	425
72159	72164	35x350	550
72160	72165	50x350	900
72161	72166	60x400	1400



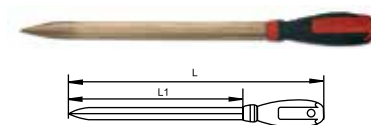
Cu-Be cobre berilio / beryllium copper / cuivre beryllium / Kupfer Beryllium / koper beryllium / rame-berillio / СПЛАВ МЕДЬ БЕРИЛЛИЙ

Al-Bron aluminio bronce / aluminium bronze / alliage aluminium-bronze / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЛЮМИНИЙ БРОНЗА

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

RASQUETA TRIANGULAR / TRIANGULAR SCRAPER / GRATTOIR TRIANGULAIRE / DREIECKIGER SPACHTEL / RASCHIETTO TRIANGOLARE / RASCADOR TRIANGULAR / ТРЕУГОЛЬНЫЙ СКРЕБОК

COD		L	L ₁	gr.
Cu-Be	Al-Bron			
73422	73399	360	255	250



COD		L (mm)	gr.
Cu-Be	Al-Bron		
73775	73776	150x470	1000



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

COD		L (mm)	gr.
Cu-Be	Al-Bron		
73785	73786	75x450	1200



CUBO / BUCKET / SEAU / EIMER / SECCHIO / BALDE / ВЕДРО

COD		Ø	L (mm)	gr.
Cu-Be	Al-Bron			
72486	-	270	250	1500



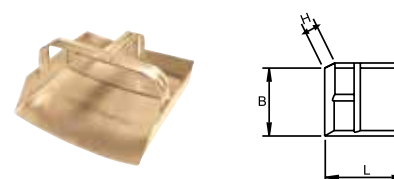
CUCHARA RECOGEDORA DE AZÚCAR / SUGAR SCOOP / CUILLÈRE À SUCRE / SCHÖPFSCHAUFEL / RACCOGLITORE DI ZUCCHERI / COLHER PARA AÇUCAR / КОВИШ

COD		L (mm)	Ø1 (mm)	Ø2 (mm)	gr.
Cu-Be	Al-Bron				
72487	-	150	45	70	100
72488	-	200	75	120	250
72489	-	270	80	140	350
74620	-	350	90	160	600



RECOGEDOR / DUSTPAN / PELLE / HANDSCHAUFEL / RACCOGLITORE / RECIPIENTE / COBOK

COD		L (mm)	B (mm)	H (mm)	gr.
Cu-Be	Al-Bron				
74621	-	150	130	20	130
74622	-	200	200	50	335
74623	-	270	250	60	650
72490	-	350	320	60	1000



AGUJA / NEEDLE / AIGUILLE / NADEL / AGO / AGULHA / ИГЛА

COD		L (mm)	Ø (mm)	gr.
Cu-Be	Al-Bron			
73868	73869	250	6	80
73870	73871	300	8	150
73872	73873	400	7	160
73874	73875	500	10	320



COD		L (mm)	Ø (mm)	gr.
Cu-Be	Al-Bron			
73877	-	180	3	12



EMBUDO / FUNNEL / ENTONNOIR / TRICHTER / IMBUTO / FUNIL / ВОРОНКА

COD		Ø MAX (mm)	L (mm)	gr.
Cu-Be	Al-Bron			
74240	-	160	130	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		Ø (mm)	L (mm)	gr.
Cu-Be	Al-Bron			
74243	-	165	1100	2300



CAZO / DIPPER / LOUCHE / TRICHTER KANNE / RECIPIENTE / CONCHA / КОШИ

COD		Ø (mm)	L (mm)	gr.
Cu-Be	Al-Bron			
74245	-	85	350	2300



PLOMADA / LINER / PLOMB / SCHLAGSCHNURROLLER / GESSO TRACCIATORE / LINHAS DE TRAÇAR / OTBEC

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



POLEA / CHAIN HOIST / PALAN / KETTENZUG / PARANCHI A MANO CON CATENA / DIFERENCIAL MANUAL / ЦЕПНАЯ ТАЛЬ

COD		Kg.	CAP	Kg.
Cu-Be	Al-Bron			
71638	71642	500	3 m	14
71639	71643	1000		18
71640	71644	2000		22
71641	71645	3000		30
72141	72142	5000		



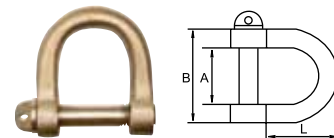
CARRO PARA POLEA / TROLLEY FOR CHAIN HOIST / CHARIOT POUR PALAN / WAREN FÜR KETTENHUB / CARRELLO PER PULEGIA / CARRO PARA DIFERENCIAL / ТЕЛЕЖКА ДЛЯ ЦЕПНЫХ ТАЛЕЙ

COD		CAP (Kg)	I	Kg.
Cu-Be	Al-Bron			
76693	76694	500	68-94	13
76695	76696	1000	68-100	16
76697	76698	2000	94-124	22
76699	76700	3000	116-140	24



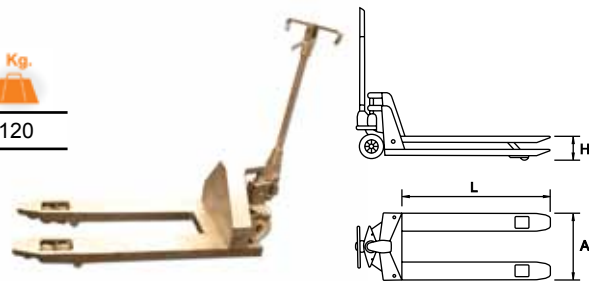
GRILLETE / SHACKLE / MANILLE / SCHÄKEL / GRILLI / MANILHA / РЫМ

COD		Kg. max.	A	B	L	gr.
Cu-Be	Al-Bron					
73429	73424	1200 kg	30	50	55	170



TRANSPALETA HIDRÁULICA / HYDRAULIC PALLET TRUCK / TRANSPALETTE HYDRAULIQUE / HYDRAULISCHER HUBWAGEN / TRASPALLET IDRAULICO / PORTA-PALETES HIDRÁULICO / ГИДРАВЛИЧЕСКАЯ ТЕЛЕЖКА

COD		CAP (Kg)	L (mm)	A (mm)	H (mm)	Kg.
Cu-Be	Al-Bron					
76547	76548	2000 kg	1070	555	80-195	120



GATO / SCREW JACK / CRIQUE HYDRAULIQUE / HEBEBOCK / MARTINETTO IDRAULICO / MACACO HIDRÁULICO DE GARRAFA / ВИНТОВОЙ ДОМКРАТ

COD		CAP (Kg)	H (mm)	Kg.
Al-Bron				
76703		3200	220-330	6,5
76705		5000	250-380	7
76707		10000	280-430	11
76709		16000	320-500	14



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 / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЛЮМИНИЙ БРОНЗА

35 ANTICHISPA / NON-SPARKING / ANTI-DEFLAGRANT / FUNKENFREI ANTISCINTILLA / ANTI-DEFLAGRANTE / ИСКРОбЕЗОПАСНЫЙ

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

COD	L	gr.
70479	3X280	170
70480	4X280	200
70481	5X280	220

LATÓN / BRASS / LAITON

COD	L	gr.
71632	5X180	200

LATÓN / BRASS / LAITON

COD	L	gr.
72739	3x350	150

LATÓN / BRASS / LAITON

COD	L	gr.
73419	6x215	60
72526	4x290	170

LATÓN / BRASS / LAITON

COD	Nº Filas Rows Rangées	L	B	gr.
61581	4	240	3	150

LATÓN / BRASS / LAITON

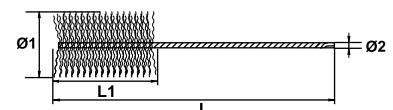
COD	L	gr.
71634	22,2x150	700
73426	32x200	1000

LATÓN / BRASS / LAITON

COD	L	L ₁	Ø1 (mm)	Ø2 (mm)	gr.
79226	320	100	82	6,6	55

LATÓN / BRASS / LAITON

CERDAS ANTIESTÁTICAS / ANTISTATIC BRISTLES / BROSSES ANTISTATIQUES



PICOS / PICKS / PIC / MAURER HAMMERS / PICCONI / PICADEIRA / КИРКИ

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



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

COD		L	H	B	gr.
Cu-Be	Al-Bron	mm	mm	mm	
72153	72154	340	200	98	950



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

COD		L	H	B	Kg.
Cu-Be	Al-Bron	mm	mm	mm	
72151	72152	340	145	82	1,3



MARTILLOS / HAMMERS / MARTEAUX / HÄMMER / MARTELLI / MARTELOS / МОЛОТКИ

MARTILLO DE BOLA / BALL PEIN HAMMER / MARTEAU À BOULE / SCHLOSSER HAMMER / MARTELLO A PALLA / MARTELO DE BOLA / МОЛОТОК С ШАРОВОЙ ГОЛОВКОЙ

COD		L mm	gr.
Cu-Be	Al-Bron		
70488	71743	280	200
70489	71744	310	500
70490	71745	340	700
70491	71746	350	900



MARTILLO MECÁNICO DE PEÑA / ENGINEER'S CROSS PEIN HAMMER / MARTEAU À GARNIR / MECCANICO CON PENNA / SCHLOSSER HAMMER / MECÁNICO DE PENA / МОЛОТОК С ШАРОВОЙ ГОЛОВКОЙ

COD		L mm	gr.
Cu-Be	Al-Bron		
70492	71747	310	500
70493	71748	350	900



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

COD		L mm	gr.
Cu-Be	Al-Bron		
70494	71749	300	100
70495	71750		200
70496	71751		300
70497	71752	310	500
70498	71753		800
70499	71754	340	1000
70500	71755	400	1500
70501	71756	450	2000



MACETA OCTOGONAL / SLEDGE HAMMER / MASSETTE OCTOGONALE / SCHLAGHAMMER / MAZZETTA OTTOGONALE / MARRETA OCTOGONAL / КУВАЛДА

COD		L mm	Kg.
Cu-Be	Al-Bron		
70502	71757	370	1
70503	71758		1,5
70504	71759		2,0
70505	71760		2,5
70506	71761		3,0
70507	71762		4,5
70508	71763		5,0
70509	71764	900	6,8
70510	71765		8,0
72213	72211		10
72975	72974		12



COD		L mm	lb
Cu-Be	Al-Bron		
35762	35763	380	3
35764	35765		5
35766	35767		7.1/2
35768	35769	840	10
35770	35771		15
35772	35773		18



NEW

MACETA CUADRADA TIPO ALEMÁN / GERMAN TYPE STONING HAMMER / MASSETTE TYPE ALLEMAND / FÄUSTEL / MAZZETA MARRETA / КУВАЛДА КАМЕНЩИКА НЕМЕЦКОГО ТИПА

COD		L mm	Kg.
Cu-Be	Al-Bron		
70511	71766	400	1
70512	71767		1,5
70513	71768		2
70514	71769		2,5
70515	71770	900	3
72098	72099		3,5



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 / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЛЮМИНИЙ БРОНЗА

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

MARTILLO DE CORTE / CUT-OFF HAMMER / MARTEAU DE COUPE / SCHNEIDHAMMER / MARTELLO DE TAGLIO / MARTELO DE CORTE / ОТРУБНОЙ МОЛОТОК

COD		L mm	Kg.
Cu-Be	Al-Bron		
70516	71771	400	1,3
70517	71772		2,1



PICO DE CALDERERO / CHIPPING HAMMER / PIC DE CHAUDRONNIER / KESSELSTEINHAMMER / PICCONE DA BATTIRAME / PADEIRA DE CALDEIREIRO / МОЛОТОК КОЛУН

COD		L mm	gr.
Cu-Be	Al-Bron		
70518	71773	280	200
70519	71774	355	400
70520	71775	400	600
70521	71776		900



MARTILLO PARA PIEDRA / STONE WEDGE / MARTEAU PLAT / MAURERHAMMER / MARTELLO PER PIETRE / MARTELO PARA PEDRA / МОЛОТОК КАМЕНЩИКА

COD		L mm	Kg.
Cu-Be	Al-Bron		
70522	71777	400	1



PALA MARTILLO / BRICKLAYER'S HAMMER / PELLE-MARTEAU / MAURERHAMMER / MARTELLO PICCONE / PA-MARTELO / МОЛОТОК КИРПИЧНИКА

COD		L mm	gr.
Cu-Be	Al-Bron		
70523	71778	340	600
70524	71779		800



MARTILLO DE UÑA / CLAW HAMMER / MARTEAU D'EMBALLER / KLAUEN HAMMER / MARTELLO CARPENTIERE / MARTELO DE UNHA / МОЛОТОК С ГВОЗДОДЕРОМ

COD		L mm	gr.
Cu-Be	Al-Bron		
70525	71780	275	500
70526	71781	338	700



MARTILLO DE NYLON / NYLON HAMMER / MARTEAU NYLON / PLASTIK HAMMER / MARTELLO DI NYLON / MARTELO DE NYLON / НЕЙЛОНОВЫЙ МОЛОТОК

COD		mm	L mm	gr.
Cu-Be	Al-Bron			
70527	71782	50	340	800
73473	73393	55	400	1000



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MARTILLO DE TESTEO / TESTING HAMMER / MARTEAU DE TEST / PRÜFHAMMER / MARTELLO DA TEST / MARTELO DE TESTES / ПРОВЕРОЧНЫЙ МОЛОТОК

COD		L mm	gr.
Cu-Be	Al-Bron		
75211	75212	390	125
75214	75213	420	250



MARTELO OTTOGONAL / SLEDGE HAMMER / MASSE OCTOGONALE / SCHLAGHAMMER / MAZZETTA OTTOGONALE / MARRETA OTTOGONAL / КУВАЛДА

COD	L mm	gr.
Lat/Brass		
72740	280	300
72741	310	500
72742	400	1000
72743		1500
72744		2000
72745	900	3000
72746		4000
72747		5000
72748		7000
72749		10000



COD	L mm	gr.
Cu		
72750	350	450
72751	400	1000
72752	900	2500
72753		3600
72754		4500
72755		5400
72756		6400
72757	10000	



MAZA TIPO TAMBOR / DRUM TYPE STONING HAMMER / MASSETTE CONIQUE / LEICHTMETALLHAMMER / MAZZA TIPO A TAMBORO / MAÇO DE COBRE COM CABO DE FIBRA DE VIDRO / БОЧКООБРАЗНЫЙ МОЛОТОК

COD	L mm	gr.
Cu		
72758	280	300
72759	310	570
72760	340	810
72761	350	1100
72762	400	1600
72763		2300



MAZA CUADRADA TIPO ALEMÁN / GERMAN TYPE STONING HAMMER / MASE CARREE TYPE ALLEMAND / STEINSCHLAGHAMMER / MAZZA / MARRETA QUADRADA / МОЛОТОК КАМЕНЩИКА НЕМЕЦКОГО ТИПА

COD		L mm	gr.
Lat/Brass	Cu		
72764	72773	350	500
72765	72774		1000
72766	72775		1500
72767	72776	400	1800
72768	72777		2000
72769	72778		2700
72770	72779		3600
72771	72780	900	4000
72772	72781		5000



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 / Aluminium Bronze / aluminium brons / aluminio bronz / СПЛАВ АЛЮМИНИЙ БРОНЗА

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

MARTILLO DE BOLA / BALL PEIN HAMMER / MARTEAU À BOULE / SCHLOSSERHAMMER / MARTELO A PALLA / MARTELO DE BOLA / МОЛОТОК С ШАРОВОЙ ГОЛОВКОЙ

COD		L mm	gr.
Lat/Brass	Cu		
72782	72788	280	230
72783	72789		340
72784	72790	310	450
72785	72791	340	680
72786	72792	350	910
72787	72793	400	1130



MARTILLO DE PICAR / SCALING HAMMER / MASSETTE À PIQUER / SCHWEISSERHAMMER / MARTELO PER SCANALARE / PICADEIRA COM CABO DE FIBRA DE VIDRO / СКАЛЫВАЮЩИЙ МОЛОТОК

COD		L mm	gr.
Lat/Brass			
72794		330	205
72795		350	370



MACETA DE LATÓN / BRASS Mallet / MASSETTE LAITON / MESSINGHAMMER / MAZZETTA DI OTTONE / MAÇO DE LATAO COM CABO DE FIBRA DE VIDRO / БРОНЗОВАЯ КУВАЛДА

COD		L mm	gr.
Lat/Brass			
72796		900	4500
72797			5400
72798			7650



MACETA DE COBRE / COPPER Mallet / MASSETTE CUIVRE / KUPFERHAMMER / MAZZETTA DI RAME / MARRETA DE COBRE COM CABO DE FIBRA DE VIDRO / МЕДНАЯ КУВАЛДА

COD		L mm	gr.
Cu			
72799		350	1350



YUNQUE / ANVIL BLOCK / ENCCLUME / AMBOSSBLOCK / INCUDINE / BIGORNA / БЛОК НАОВАЛЬНИ

COD		AxBxC (mm)	Kg.
Cu-Be	Al-Bron		
73734	73735	92x92x63	3
73736	73737	111x111x75	5
73738	73739	160x160x114	16



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KIT SEGURIDAD ATEX / ATEX SAFETY SETS / KIT DE SÉCURITÉ POUR ZONE ATEX / ATEX SAFETY KIT / KIT SICUREZZA ATEX / JOGO DE SEGURANÇA ATEX / ВЗРЫВОБЕЗОПАСНЫЙ НАБОР



17 PCS.

COD	Cu - Be	Composición / Composition	Kg.	Al - Bron	COD
74388	70104	Alicate boca redonda 160 Round nose plier	5,0	70534	74389
	70103	Alicate boca plana 160 Flat nose plier		70533	
	70107	Alicate corte diagonal 160 Diagonal cutting plier		70537	
	70100	Alicate universal 160 Combination plier		70530	
	70115	Pinza boca fina / Neat tip tweezer		70547	
	73903	Pelacables 170mm Wirestripper		73904	
	71448	Llave ajustable 6" Adjustable wrench		71451	
	72260	Destornillador mecánico 3x75 Slotted screwdriver		72281	
	72263	Destornillador mecánico 4x100 Slotted screwdriver		72284	
	72267	Destornillador mecánico 6x150 Slotted screwdriver		72288	
	72909	Destornillador philips PH0 Screwdriver		72910	
	71595	Destornillador philips PH1 Screwdriver		71599	
	70410	Llave hexagonal de bola 3 Ballpoint hexagonal key		70410*	
	70411	Llave hexagonal de bola 4 Ballpoint hexagonal key		70411*	
	70412	Llave hexagonal de bola 5 Ballpoint hexagonal key		70412*	
	71613	Cuchillos 250mm Knives		71614	
	70529	Tijeras 225 Scissors		70546	
51056	Maleta de aluminio portaherramientas / Aluminium tool case	51056			

* Cu-Be



20 PCS.

COD	Cu - Be	Composición / Composition	Kg.	Al - Bron	COD
74380	70124	Llave Heavy duty 14" Heavy duty pipe wench	9,5	71461	74381
	70174	Llave combinada 10mm Combination wrench		70686	
	70175	Llave combinada 11mm Combination wrench		70687	
	70176	Llave combinada 12mm Combination wrench		70688	
	70177	Llave combinada 13mm Combination wrench		70689	
	70178	Llave combinada 14mm Combination wrench		70690	
	70181	Llave combinada 17mm Combination wrench		70693	
	70183	Llave combinada 19mm Combination wrench		70695	
	70186	Llave combinada 22mm Combination wrench		70698	
	71596	Destornillador philips PH2 Screwdriver		71600	
	71585	Destornillador electricista 8x150 Screwdriver		71592	
	70118	Llave ajustable 10" Adjustable wrench		71453	
	70102	Alicate universal 200mm Universal plier		70532	
	70106	Alicate telefonista 200mm Long nose plier		70536	
	70526	Martillo de uña 338mm Claw hammer		71781	
	61581	Cepillo 4x16x240mm Brush		61581	
	73747	Raspador 48x300mm Scraper		73749	
	70472	Espatula 30mmx200mm Scraper		71622	
	71613	Cuchillos 250mm Knives		71614	
70110	Tenazas pico loro 10" Groove joint	70540			
51056	Maleta de aluminio portaherramientas / Aluminium tool case	51056			

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

KIT SEGURIDAD ATEX / ATEX SAFETY SETS / KIT DE SÉCURITÉ POUR ZONE ATEX / ATEX SAFETY KIT / KIT SICUREZZA ATEX / JOGO DE SEGURANÇA ATEX / ВЗРЫВОБЕЗОПАСНЫЙ НАБОР



15 PCS.

COD	Cu - Be	Composición / Composition	Kg	Al - Bron	COD
74382	70474	Espatula 50mm <i>Scraper</i>	11	71624	74383
	70111	Tenazas pico loro 12" <i>Groove joint</i>		70541	
	72458	Tijeras de hojalatero 300mm <i>Tin snips</i>		72459	
	70117	Llave Ajustable 8" <i>Adjustable wrench</i>		71452	
	70119	Llave Ajustable 12" <i>Adjustable wrench</i>		71454	
	72452	Llave taponadora universal / <i>Multi-head bung wrench</i>		72453	
	70102	Alicate universal 200mm <i>Universal plier</i>		70532	
	70106	Alicate telefonista 200mm <i>Long nose plier</i>		70536	
	70526	Martillo de uña 338mm <i>Claw hammer</i>		71781	
	61581	Cepillo 4x16x240mm <i>Brush</i>		61581	
	71613	Cuchillos 250mm <i>Knives</i>		71614	
	73747	Raspador 48x300mm <i>Scraper</i>		73749	
	71597	Destornillador Philips PH3 <i>Screwdriver</i>		71601	
	71585	Destornillador electricista 8x150 <i>Screwdriver</i>		71592	
	70124	Llave Heavy duty 14" <i>Heavy duty pipe wench</i>		71461	
51056	Maleta de aluminio portaherramientas / <i>Aluminium tool case</i>	51056			



16 PCS.

COD	Cu - Be	Composición / Composition	Kg	Al - Bron	COD
74896	70474	Espatula 50mm <i>Scraper</i>	11	71624	74897
	70111	Tenazas pico loro 12" <i>Groove joint</i>		70541	
	72458	Tijeras de hojalatero 300mm <i>Tin snips</i>		72459	
	70117	Llave Ajustable 8" <i>Adjustable wrench</i>		71452	
	70119	Llave Ajustable 12" <i>Adjustable wrench</i>		71454	
	72452	Llave taponadora universal / <i>Multi-head bung wrench</i>		72453	
	70102	Alicate universal 200mm <i>Universal plier</i>		70532	
	70106	Alicate telefonista 200mm <i>Long nose plier</i>		70536	
	70526	Martillo de uña 338mm <i>Claw hammer</i>		71781	
	61581	Cepillo 4x16x240mm <i>Brush</i>		61581	
	71613	Cuchillos 250mm <i>Knives</i>		71614	
	73747	Raspador 48x300mm <i>Scraper</i>		73749	
	71597	Destornillador Philips PH3 <i>Screwdriver</i>		71601	
	71585	Destornillador electricista 8x150 <i>Screwdriver</i>		71592	
	70124	Llave Heavy duty 14" <i>Heavy duty pipe wench</i>		71461	
	51056	Maleta de aluminio portaherramientas / <i>Aluminium tool case</i>		51056	
79596	Linterna LED MasterEx / <i>MasterEx LED torch</i>	79596			



37 PCS.

COD	Cu - Be	Composición / Composition	Kg	Al - Bron	COD
	70174	Llave combinada 10mm <i>Combination wrench</i>		70686	
	70175	Llave combinada 11mm <i>Combination wrench</i>		70687	
	70176	Llave combinada 12mm <i>Combination wrench</i>		70688	
	70177	Llave combinada 13mm <i>Combination wrench</i>		70689	
	70178	Llave combinada 14mm <i>Combination wrench</i>		70690	
	70179	Llave combinada 15mm <i>Combination wrench</i>		70691	
	70181	Llave combinada 17mm <i>Combination wrench</i>		70693	
	70183	Llave combinada 19mm <i>Combination wrench</i>		70695	
	70186	Llave combinada 22mm <i>Combination wrench</i>		70698	
	70188	Llave combinada 24mm <i>Combination wrench</i>		70700	
	70110	Tenazas pico loro 10" <i>Groove joint</i>		70540	
	71613	Cuchillos 250mm <i>Knives</i>		71614	
	70474	Espatula 50mm <i>Scraper</i>		71624	
	61581	Cepillo 4x16x240mm <i>Brush</i>		61581	
	70391	Llave hexagonal 2mm <i>Hexagonal Key</i>		71287	
	70392	Llave hexagonal 3mm <i>Hexagonal Key</i>		71288	
	70393	Llave hexagonal 4mm <i>Hexagonal Key</i>		71289	
	70394	Llave hexagonal 5mm <i>Hexagonal Key</i>		71290	
	70395	Llave hexagonal 6mm <i>Hexagonal Key</i>		71291	
74384	70397	Llave hexagonal 8mm <i>Hexagonal Key</i>	14	71293	74385
	70399	Llave hexagonal 10mm <i>Hexagonal Key</i>		71295	
	70102	Alicate universal 200mm <i>Universal plier</i>		70532	
	70107	Alicate de corte diagonal 160mm <i>Diagonal cutting plier</i>		70537	
	70129	Llave sueca 45° 1.1/2" <i>Swedish pipe wrench</i>		71466	
	70118	Llave ajustable 10" <i>Adjustable wrench</i>		71453	
	70119	Llave Ajustable 12" <i>Adjustable wrench</i>		71454	
	70497	Martillo alemán 310mm <i>German type machinist's hammer</i>		71752	
	70513	Maceta cuadrada 2Kg (400mm) <i>Stoning hammer</i>		71768	
	72306	Destornillador electricista 5x100 <i>Screwdriver</i>		72308	
	71585	Destornillador electricista 8x150 <i>Screwdriver</i>		71592	
	71595	Destornillador Philips PH1 <i>Screwdriver</i>		71599	
	71597	Destornillador Philips PH3 <i>Screwdriver</i>		71601	
	73796	Cortafrio cilíndrico 20x200 <i>Cylindrical chisel</i>		73797	
	73780	Cinzel en punta 200mm <i>Cross cutting chisel</i>		73781	
	70429	Botador 5, 150x10 <i>Pin punch</i>		71475	
	70434	Botador 10, 150x14 <i>Pin punch</i>		71480	
	70529	Tijeras 225mm <i>Scissors</i>		70546	
	51056	Maleta de aluminio portaherramientas / <i>Aluminium tool case</i>		51056	



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38 PCS.

COD	Cu - Be	Composición / Composition	Kg	Al - Bron	COD
	70174	Llave combinada 10mm <i>Combination wrench</i>		70686	
	70175	Llave combinada 11mm <i>Combination wrench</i>		70687	
	70176	Llave combinada 12mm <i>Combination wrench</i>		70688	
	70177	Llave combinada 13mm <i>Combination wrench</i>		70689	
	70178	Llave combinada 14mm <i>Combination wrench</i>		70690	
	70179	Llave combinada 15mm <i>Combination wrench</i>		70691	
	70181	Llave combinada 17mm <i>Combination wrench</i>		70693	
	70183	Llave combinada 19mm <i>Combination wrench</i>		70695	
	70186	Llave combinada 22mm <i>Combination wrench</i>		70698	
	70188	Llave combinada 24mm <i>Combination wrench</i>		70700	
	70110	Tenazas pico loro 10" <i>Groove joint</i>		70540	
	71613	Cuchillos 250mm <i>Knives</i>		71614	
	70474	Espatula 50mm <i>Scraper</i>		71624	
	61581	Cepillo 4x16x240mm <i>Brush</i>		61581	
	70391	Llave hexagonal 2mm <i>Hexagonal Key</i>		71287	
	70392	Llave hexagonal 3mm <i>Hexagonal Key</i>		71288	
	70393	Llave hexagonal 4mm <i>Hexagonal Key</i>		71289	
	70394	Llave hexagonal 5mm <i>Hexagonal Key</i>		71290	
	70395	Llave hexagonal 6mm <i>Hexagonal Key</i>		71291	
74898	70397	Llave hexagonal 8mm <i>Hexagonal Key</i>	14	71293	74899
	70399	Llave hexagonal 10mm <i>Hexagonal Key</i>		71295	
	70102	Alicate universal 200mm <i>Universal plier</i>		70532	
	70107	Alicate de corte diagonal 160mm <i>Diagonal cutting plier</i>		70537	
	70129	Llave sueca 45° 1.1/2" <i>Swedish pipe wrench</i>		71466	
	70118	Llave ajustable 10" <i>Adjustable wrench</i>		71453	
	70119	Llave Ajustable 12" <i>Adjustable wrench</i>		71454	
	70497	Martillo alemán 310mm <i>German type machinist's hammer</i>		71752	
	70513	Maceta cuadrada 2Kg (400mm) <i>Stoning hammer</i>		71768	
	72306	Destornillador electricista 5x100 <i>Screwdriver</i>		72308	
	71585	Destornillador electricista 8x150 <i>Screwdriver</i>		71592	
	71595	Destornillador Philips PH1 <i>Screwdriver</i>		71599	
	71597	Destornillador Philips PH3 <i>Screwdriver</i>		71601	
	73796	Cortafrio cilíndrico 20x200 <i>Cylindrical chisel</i>		73797	
	73780	Cinzel en punta 200mm <i>Cross cutting chisel</i>		73781	
	70429	Botador 5, 150x10 <i>Pin punch</i>		71475	
	70434	Botador 10, 150x14 <i>Pin punch</i>		71480	
	70529	Tijeras 225mm <i>Scissors</i>		70546	
	51056	Maleta de aluminio portaherramientas / <i>Aluminium tool case</i>		51056	
	79596	Linterna LED MasterEx / <i>MasterEx LED torch</i>		79596	



8 PCS.

COD	Cu - Be	Composición / Composition	Kg	Al - Bron	COD
	70474	Espátula 50x200 <i>Scraper</i>		71624	
	70478	Espátula 100x200 <i>Scraper</i>		71628	
	72157	Raspador Plano 30x200 <i>Flat scraper</i>		72162	
	73422	Rasqueta triangular 360 <i>Triangular scraper</i>		73399	
74386	73785	Pico y rasqueta 75x450 <i>Scraper pick and scaler</i>	7,5	73786	74387
	71562	Rasqueta 60x185 <i>Scraper</i>		71566	
	73767	Raspador curvo 100x210 <i>Arched Scraper</i>		73768	
	61581	Cepillo 4x16x240mm <i>Brush</i>		61581	
	51056	Maleta de aluminio portaherramientas / <i>Aluminium tool case</i>		51056	



17 PCS.

COD	Cu - Be	Composición / Composition	Kg.	Al - Bron	COD
	71576	Barra de desencofrar 19x900 <i>Wrecking bar</i>		71577	
	70118	Llave ajustable 10" <i>Adjustable wrench</i>		71453	
	70119	Llave ajustable 12" <i>Adjustable wrench</i>		71454	
	70120	Llave ajustable 15" <i>Adjustable wrench</i>		71455	
	70489	Martillo de bola 310 <i>Ball pein hammer</i>		71744	
	70491	Martillo de bola 350 <i>Ball pein hammer</i>		71746	
	70519	Pico de calderero 355mm <i>Chipping hammer</i>		71774	
	70505	Maceta octogonal 900mm <i>Sledge hammer</i>		71760	
74390	73747	Raspador 48x300mm <i>Scraper</i>	23	73749	74391
	73767	Raspador curvo 100x210 <i>Arched Scraper</i>		73768	
	72272	Destornillador 10x200 <i>Screwdriver</i>		72293	
	72273	Destornillador 10x300 <i>Screwdriver</i>		72294	
	73815	Cortafrios hexagonal 18x160 <i>Hexagonal chisel</i>		73816	
	73798	Cortafrios cilindrico 24x250 <i>Cylindrical chisel</i>		73799	
	70121	Llave Heavy duty 8" <i>Heavy duty pipe wench</i>		71458	
	70122	Llave Heavy duty 10" <i>Heavy duty pipe wench</i>		71459	
	70124	Llave Heavy duty 14" <i>Heavy duty pipe wench</i>		71461	
	51055	Maleta de aluminio portaherramientas / <i>Aluminium tool case</i>		51055	



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ACETILEX: ALEACIÓN ACETILEX, TRABAJO SEGURO INCLUSO EN AMBIENTES DE ACETILENO
ACETILEX ALLOY, SAFE WORK EVEN IN ACETHYLENE ENVIRONMENTS
ALLIAGE ACETILEX, TRAVAIL SÛR MÊME EN PRÉSENCE D'ACÉTHYLÈNE
SICHERE ARBEIT SOGAR BEI ACETYLEN-ATMOSPHÄREN
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 ПЕРЕСТАВНЫЕ ЖЕЛОБКОВЫЕ

COD	L	gr.
79450	10"	430
79451	12"	670



LLAVE AJUSTABLE / ADJUSTABLE WRENCH / CLÉ À MOLETTE / ROLLGABELSCHLÜSSEL / CHIAVI
REGOLABILI A RULLINO / CHAVE AJUSTAVEL / РАЗВОДНЫЕ КЛЮЧИ

COD	L	gr.
79452	6"	135
79453	8"	280
79454	10"	440
79455	12"	720



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	Ø	gr.
79456	8"	1"	420
79457	10"	1.1/2"	740
79458	12"	2"	1050
79459	14"	2"	1320
79460	18"	2.1/2"	2260
79461	24"	5"	3470
79462	36"	6"	5880



LLAVES / WRENCHES / CLÉS / SCHLÜSSEL / CHIAVI / CHAVES / КЛЮЧИ

LLAVES COMBINADAS / COMBINATION WRENCHES / CLÉS MIXTES / RINGSCHLÜSSEL / CHIAVI COMBinate /
CHAVES BOCA E LUNETAS / КОМБИНИРОВАННЫЕ КЛЮЧИ

COD	AF	L mm	gr.
72867	6mm	115	36
72868	7mm	120	43
72869	8mm	125	50
72870	9mm	130	65
72871	10mm	135	70
72872	11mm	140	75
72873	12mm	145	95
72874	13mm	155	105
72875	14mm	165	110
72876	15mm	175	120
72877	16mm	185	165
72878	17mm	195	175
72879	18mm	200	210
72880	19mm	210	220
72881	20mm	220	250
72882	21mm	230	270
72883	22mm	240	290
72884	23mm	250	370
72885	24mm	260	400
72886	25mm	270	420
72887	26mm	270	440
72888	27mm	280	500
72889	28mm	295	550
72890	29mm	300	650
72891	30mm	310	700
72892	32mm	330	800



FIJA DE GOLPE / SLOGGING OPEN WRENCH / À FOURCHE À FRAPPER / SCHLAG MAULSCHLÜSSEL / FISSE AD IMPULSO /
BOCA DE IMPACTO / УДАРНЫЙ РОЖКОВЫЙ КЛЮЧ

COD	AF	L mm	gr.
72901	30mm	185	450
72902	32mm	195	550
72903	36mm	210	750
72904	41mm	220	1000
72905	46mm	240	1300
72906	50mm	250	1400
72907	55mm	270	1750
72908	60mm	280	2000



ACETILEX: ALEACIÓN ACETILEX, TRABAJO SEGURO INCLUSO EN AMBIENTES DE ACETILENO
ACETILEX ALLOY, SAFE WORK EVEN IN ACETHYLENE ENVIRONMENTS
ALLIAGE ACETILEX, TRAVAIL SÛR MÊME EN PRÉSENCE D'ACÉTHYLÈNE
SICHERE ARBEIT SOGAR BEI ACETYLEN-ATMOSPHÄREN
LIGA ACETILEX, TRABALHO SEGURO INCLUSIVÉ EM AMBIENTES ACETILENO
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ESTRELLA DE GOLPE / SLOGGING RING / POLYAGONALE À FRAPPER / SCHLAG RINGSCHLÜSSEL / POLIGONALE AD IMPULSO / LUNETEA DE IMPACTO / УДАРНЫЙ КЛЮЧ ЗВЕЗДОЧКА

MM

COD	AF	L mm	gr.
72893	30mm	165	420
72894	32mm	175	490
72895	36mm	210	600
72896	41mm	220	850
72897	46mm	240	1050
72898	50mm	250	1200
72899	55mm	260	1400
72900	60mm	270	1700



LLAVES HEXAGONALES / HEXAGONAL KEYS / CLÉS MALES / INBUSSCHLÜSSEL / CHIAVI ESAGONALI / CHAVES HEXAGONAIS / ШЕСТИГРАННИК

MM

COD	AF	L mm	H mm	gr.
72856	2mm	38	13	7,0
72857	3mm	59	25	9,0
72858	4mm	65	30	11
72859	5mm	79	32	18
72860	6mm	85	37	28
72861	7mm	88	43	37
72862	8mm	92	44	55
72863	9mm	97	44	65
72864	10mm	110	45	90
72865	11mm	119	48	125
72866	12mm	130	52	160



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

COD	L mm	mm	gr.
72851	100x50	10-0	210
72852	150x50	13-0	420
72853	180x50	19-0	750
72854	200x50	12-0	500
72855	230x40	20-0	800



DESTORNILLADORES / SREWDRIEVERS / TOURNEVIS / SCHRAUBENDREHER / CACCIAVITI CHAVES DE VENDA / ОТВЕРТКИ

ELECTRICISTA / ELECTRICIEN / ELEKTRIKER / PER ELETTRICISTI / SCHROEVENDRAAIER VOOR SLEUFSCHROEVEN / ELECTRECISTA / ЭЛЕКТРИЧЕСКАЯ

COD	1	2	3	gr.
72825	50	3	83	41
72826		4		50
72827	100	5	103	105
72828		6		115
72829	150	8	112	160



PHILIPS

COD	1	2	3	gr.
72830	60	PH-0	83	44
72831	80	PH-1		75
72832	100	PH-2	103	85
72833	150	PH-3	112	180



POZIDRIV

COD	1	2	3	gr.
72835	75	PZ-1	83	50
72836	100	PZ-2	103	95
72837	150	PZ-3	112	160



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

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MARTILLOS / HAMMERS / MARTEAUX / HÄMMER / MARTELLI / MARTELOS / МОЛОТКИ И КУВАЛДЫ

MARTILLO DE BOLA / BALL PEIN HAMMER / MARTEAU À BOULE / SCHLOSSER HAMMER / MARTELLO A PALLA /
MARTELO DE BOLA / МОЛОТОК С ШАРОВОЙ ГОЛОВКОЙ

COD	L mm	gr.
72838	310	500
72839	340	700
72840	350	900



MARTILLO ALEMÁN / GERMAN TYPE MACHINIST'S HAMMER / MARTEAU DE MECANICIEN / SCHLOSSER HAMMER /
MARTELLO TEDESCO / MARTELO TIPO ALEMÃO / СЛЕСАРНЫЙ МОЛОТОК НЕМЕЦКИЙ ТИП

COD	L mm	gr.
72841	310	500
72842	310	800
72843	340	1000



MACETA OCTOGONAL / SLEDGE HAMMER / MASSE OCTOGONALE / SCHLAGHAMMER / MAZZETTA OTTOGONALE /
MARRETA OCTOGONAL / КУВАЛДА КУЗНЕЧНАЯ

COD	L mm	gr.
72844		1000
72845	400	1500
72846		2000
72847		3000
72848	900	4000
72849		5000



PICO DE CALDERERO / CHIPPING HAMMER / PIC DE CHAUDRONNIER / KESSELSTEINHAMMER / PICCONE DA BATTIRAME /
PICADEIRA DE CALDEIREIRO / МОЛОТОК ВЫРУБНОЙ

COD	L mm	gr.
72850	280	400

