



NON SPARKING TOOLS 2015 | 2016

Non Sparking Tools from ELORA

Working in places where sparks mean a potential danger of explosion and fire requires a special protection. Due to their magnetic features conventional steel tools are not suitable to be used in potentially explosive environments as explosive atmospheres or ignition sources can occur. For this reason Elora offers the “Non Sparking” product range which follows the ATEX guidelines 94/9/EG (“ATEX 95”) providing requirements for the use of equipment in potentially explosive environments. These guidelines form the basic regulations for the safety of employees during installation, operation and maintenance of potentially explosive facilities. Depending on their risk of explosion the ATEX guidelines distinguish six risk zones:

<p>For areas that are potentially explosive due to flammable gases, vapors or mist, the following zones shall apply:</p>	<p>For areas that are potentially explosive due to combustible dusts, the following areas shall apply:</p>
<p style="text-align: center;">Zone 0</p> <p>Explosive atmospheres caused by mixtures of air and gases, vapours or mists are highly likely to occur and are present continuously, for long periods of time or frequently.</p>	<p style="text-align: center;">Zone 20</p> <p>Explosive atmospheres caused by mixtures of air and flammable dusts are highly likely to occur and are present continuously, for long periods of time or frequently.</p>
<p style="text-align: center;">Zone 1</p> <p>Explosive atmospheres caused by mixtures of air and gases, vapours or mists are likely to occur.</p>	<p style="text-align: center;">Zone 21</p> <p>Explosive atmospheres caused by mixtures of air and flammable dusts are likely to occur.</p>
<p style="text-align: center;">Zone 2</p> <p>Explosive atmospheres caused by mixtures of air and gases, vapours or mists are unlikely to occur and if they do occur, do so infrequently and for a short period of time only.</p>	<p style="text-align: center;">Zone 22</p> <p>Explosive atmospheres caused by mixtures of air and flammable dusts are unlikely to occur and if they do occur, do so infrequently and for a short period of time only.</p>

Main application fields:

Petrochemicals	Fireworks Industry	Mines
Refineries	Chemical Industry	Defence
Gas & Oil pipe lines	Flour silos and mills	Air Forces
Power stations	Breweries	Navy
Paint Manufacturing	Alcohol processing industries	Weapon & ammunition fabrication
Plastic Manufacturing	Distilleries	Aerospace Industry
Pharmaceutical Industry	Fire-Fighters	Automobile Industry

Special non-iron alloys

Non sparking tools are made of non-iron alloys (e.g. Beryllium-Copper or Aluminium-Bronze). These alloys are antimagnetic, non sparking and very corrosion-resistant. The chemical composition of the material as well as the way of heating, the accuracy of the casting moulds and a controlled solidification process determine the quality of the non sparking tools.

Property	Application or Benefits
Non-sparking	Appropriate for explosive potential environments such as oil and gas works, petro-chemical plants.
Non-magnetic safety	Essential for equipments that require complete non-magnetic safety.
Corrosion resistant	Specially well suited for applications in corrosive environments like encountered in marine works or fire-fighting applications.
Forged after casting	Provides higher mechanical properties and better finishing.

Differences between Aluminium-Bronze and Beryllium-Copper

	Aluminium-Bronze (Al-Br) Alloy
Hardness	25-30HRc (229 ~ 291 Brinell)
Tensile Strength	782 N/mm ² ~ 989 N/mm ²
Extensibility	$\epsilon \geq 5\%$
Elasticity limit	450 ~ 550 N/mm ²
Magnetic	1.2

Advantages of Aluminium-Bronze:

- non sparking
- highly wear-resistant
- higher heat resistance than Beryllium-Copper
- relatively light weight
- more economic than Beryllium-Copper

Disadvantages of Aluminium-Bronze:

- lower tensile than Beryllium-Copper

Beryllium-Copper (Be-Cu) Alloy	
Hardness	35-40HRc (283~365 Brinell)
Tensile Strength	1117 N/mm ² ~ 1326 N/mm ²
Extensibility	$\epsilon \geq 1.0\%$
Elasticity limit	840 ~ 880 N/mm ²
Magnetic	0

Advantages of Beryllium-Copper:

- non sparking
- highly wear-resistant
- high hardness values
- relatively lightweight
- higher tensile strength than Aluminium-Bronze

Disadvantages of Beryllium-Copper:

- higher weight than Aluminium-Bronze

How to apply non sparking tools correctly

Non sparking tools are softer than conventional tools so that they should be used with special caution and care. Overstraining is to be avoided. In case non sparking tools have to be reworked technical instructions can be provided on request. Please consider that the use of non sparking tools as a sole means of protection in explosive environments is not sufficient. For best possible protection of employers and equipment legal and corporate regulations have to be observed.

Do you need further non sparking tools that are not listed in our core range? Please do not hesitate to contact us.

100-...Al Br
Double Open Ended Spanner

► Aluminium Bronze



Code	No.
2210000607101	100-6x7 Al Br
2210000608101	100-6x8 Al Br
2210000709101	100-7x9 Al Br
2210000809101	100-8x9 Al Br
2210000810101	100-8x10 Al Br
2210000910101	100-9x10 Al Br
2210000911101	100-9x11 Al Br
2210001011101	100-10x11 Al Br
2210001012101	100-10x12 Al Br
2210001013101	100-10x13 Al Br
2210001014101	100-10x14 Al Br
2210001113101	100-11x13 Al Br
2210001213101	100-12x13 Al Br
2210001214101	100-12x14 Al Br
2210001415101	100-14x15 Al Br
2210001417101	100-14x17 Al Br
2210001617101	100-16x17 Al Br
2210001618101	100-16x18 Al Br
2210001719101	100-17x19 Al Br
2210001722101	100-17x22 Al Br
2210001819101	100-18x19 Al Br
2210001922101	100-19x22 Al Br
2210001921101	100-19x24 Al Br
2210002022101	100-20x22 Al Br
2210002123101	100-21x23 Al Br
2210002224101	100-22x24 Al Br
2210002227101	100-22x27 Al Br
2210002326101	100-23x26 Al Br
2210002426101	100-24x26 Al Br
2210002427101	100-24x27 Al Br
2210002430101	100-24x30 Al Br
2210002528101	100-25x28 Al Br
2210002629101	100-26x29 Al Br
2210002729101	100-27x29 Al Br
2210002730101	100-27x30 Al Br
2210002732101	100-27x32 Al Br
2210003032101	100-30x32 Al Br
2210003036101	100-30x36 Al Br
2210003234101	100-32x34 Al Br
2210003236101	100-32x36 Al Br
2210003436101	100-34x36 Al Br
2210003638101	100-36x38 Al Br
2210003641101	100-36x41 Al Br
2210004146101	100-41x46 Al Br
2210004650101	100-46x50 Al Br
2210005055101	100-50x55 Al Br
2210005060101	100-50x60 Al Br
2210005560101	100-55x60 Al Br
2210006065101	100-60x65 Al Br
2210006570101	100-65x70 Al Br
2210007080101	100-70x80 Al Br

100-...Cu Be
Double Open Ended Spanner

► Copper Beryllium



Code	No.
2210000607102	100-6x7 Cu Be
2210000608102	100-6x8 Cu Be
2210000709102	100-7x9 Cu Be
2210000809102	100-8x9 Cu Be
2210000810102	100-8x10 Cu Be
2210000910102	100-9x10 Cu Be
2210000911102	100-9x11 Cu Be
2210001011102	100-10x11 Cu Be
2210001012102	100-10x12 Cu Be
2210001013102	100-10x13 Cu Be
2210001014102	100-10x14 Cu Be
2210001113102	100-11x13 Cu Be
2210001213102	100-12x13 Cu Be
2210001214102	100-12x14 Cu Be
2210001415102	100-14x15 Cu Be
2210001417102	100-14x17 Cu Be
2210001617102	100-16x17 Cu Be
2210001618102	100-16x18 Cu Be
2210001719102	100-17x19 Cu Be
2210001722102	100-17x22 Cu Be
2210001819102	100-18x19 Cu Be
2210001922102	100-19x22 Cu Be
2210001921102	100-19x24 Cu Be
2210002022102	100-20x22 Cu Be
2210002123102	100-21x23 Cu Be
2210002224102	100-22x24 Cu Be
2210002227102	100-22x27 Cu Be
2210002326102	100-23x26 Cu Be
2210002426102	100-24x26 Cu Be
2210002427102	100-24x27 Cu Be
2210002430102	100-24x30 Cu Be
2210002528102	100-25x28 Cu Be
2210002629102	100-26x29 Cu Be
2210002729102	100-27x29 Cu Be
2210002730102	100-27x30 Cu Be
2210002732102	100-27x32 Cu Be
2210003032102	100-30x32 Cu Be
2210003036102	100-30x36 Cu Be
2210003234102	100-32x34 Cu Be
2210003236102	100-32x36 Cu Be
2210003436102	100-34x36 Cu Be
2210003638102	100-36x38 Cu Be
2210003641102	100-36x41 Cu Be
2210004146102	100-41x46 Cu Be
2210004650102	100-46x50 Cu Be
2210005055102	100-50x55 Cu Be
2210005060102	100-50x60 Cu Be
2210005560102	100-55x60 Cu Be
2210006065102	100-60x65 Cu Be
2210006570102	100-65x70 Cu Be
2210007080102	100-70x80 Cu Be

100S-...Al Br
Double Open Ended Spanner Set

► Aluminium Bronze

mm

Code	No.
2210050090101	100S 9M Al Br
2210050110101	100S 11M Al Br
2210050130101	100S 13M Al Br

100S-...Cu Be
Double Open Ended Spanner Set

► Copper Beryllium

mm

Code	No.
2210050090102	100S 9M Cu Be
2210050110102	100S 11M Cu Be
2210050130102	100S 13M Cu Be

100A-...Al Br
Double Open Ended Spanner

► Aluminium Bronze

AF"

Code	No.
2210011317101	100A-1/4x5/16 Al Br
2210011719101	100A-5/16x3/8 Al Br
2210011921101	100A-3/8x7/16 Al Br
2210011923101	100A-3/8x1/2 Al Br
2210012123101	100A-7/16x1/2 Al Br
2210012324101	100A-1/2x9/16 Al Br
2210012426101	100A-9/16x5/8 Al Br
2210012627101	100A-5/8x11/16 Al Br
2210012628101	100A-5/8x3/4 Al Br
2210012728101	100A-11/16x3/4 Al Br
2210012830101	100A-3/4x13/16 Al Br
2210012831101	100A-3/4x7/8 Al Br
2210013031101	100A-13/16x7/8 Al Br
2210013132101	100A-7/8x15/16 Al Br
2210013234101	100A-15/16x1 Al Br
2210013435101	100A-1x1.1/16 Al Br
2210013536101	100A-1.1/16x1.1/8 Al Br
2210013637101	100A-1.1/8x1.3/16 Al Br
2210013738101	100A-1.3/16x1.1/4 Al Br
2210013839101	100A-1.1/4x1.5/16 Al Br
2210013940101	100A-1.5/16x1.3/8 Al Br
2210014041101	100A-1.3/8x1.7/16 Al Br
2210014144101	100A-1.7/16x1.5/8 Al Br
2210014243101	100A-1.1/2x1.9/16 Al Br
2210014446101	100A-1.5/8x1.13/16 Al Br
2210014649101	100A-1.13/16x2 Al Br
2210014952101	100A-2x2.3/16 Al Br
2210014955101	100A-2x2.3/8 Al Br
2210015255101	100A-2.3/16x2.3/8 Al Br
2210015558101	100A-2.3/8x2.9/16 Al Br

100A-...Cu Be
Double Open Ended Spanner

► Copper Beryllium

AF"

Code	No.
2210011317102	100A-1/4x5/16 Cu Be
2210011719102	100A-5/16x3/8 Cu Be
2210011921102	100A-3/8x7/16 Cu Be
2210011923102	100A-3/8x1/2 Cu Be
2210012123102	100A-7/16x1/2 Cu Be
2210012324102	100A-1/2x9/16 Cu Be
2210012426102	100A-9/16x5/8 Cu Be
2210012627102	100A-5/8x11/16 Cu Be
2210012628102	100A-5/8x3/4 Cu Be
2210012728102	100A-11/16x3/4 Cu Be
2210012830102	100A-3/4x13/16 Cu Be
2210012831102	100A-3/4x7/8 Cu Be
2210013031102	100A-13/16x7/8 Cu Be
2210013132102	100A-7/8x15/16 Cu Be
2210013234102	100A-15/16x1 Cu Be
2210013435102	100A-1x1.1/16 Cu Be
2210013536102	100A-1.1/16x1.1/8 Cu Be
2210013637102	100A-1.1/8x1.3/16 Cu Be
2210013738102	100A-1.3/16x1.1/4 Cu Be
2210013839102	100A-1.1/4x1.5/16 Cu Be
2210013940102	100A-1.5/16x1.3/8 Cu Be
2210014041102	100A-1.3/8x1.7/16 Cu Be
2210014144102	100A-1.7/16x1.5/8 Cu Be
2210014243102	100A-1.1/2x1.9/16 Cu Be
2210014446102	100A-1.5/8x1.13/16 Cu Be
2210014649102	100A-1.13/16x2 Cu Be
2210014952102	100A-2x2.3/16 Cu Be
2210014955102	100A-2x2.3/8 Cu Be
2210015255102	100A-2.3/16x2.3/8 Cu Be
2210015558102	100A-2.3/8x2.9/16 Cu Be

205-...Al Br
Combination Spanner

► Aluminium Bronze



Code	No.
2220500006101	205-6 Al Br
2220500007101	205-7 Al Br
2220500008101	205-8 Al Br
2220500009101	205-9 Al Br
2220500010101	205-10 Al Br
2220500011101	205-11 Al Br
2220500012101	205-12 Al Br
2220500013101	205-13 Al Br
2220500014101	205-14 Al Br
2220500015101	205-15 Al Br
2220500016101	205-16 Al Br
2220500017101	205-17 Al Br
2220500018101	205-18 Al Br
2220500019101	205-19 Al Br
2220500020101	205-20 Al Br
2220500021101	205-21 Al Br
2220500022101	205-22 Al Br
2220500023101	205-23 Al Br
2220500024101	205-24 Al Br
2220500025101	205-25 Al Br
2220500026101	205-26 Al Br
2220500027101	205-27 Al Br
2220500030101	205-30 Al Br
2220500032101	205-32 Al Br
2220500034101	205-34 Al Br
2220500035101	205-35 Al Br
2220500036101	205-36 Al Br
2220500038101	205-38 Al Br
2220500041101	205-41 Al Br
2220500046101	205-46 Al Br
2220500050101	205-50 Al Br
2220500055101	205-55 Al Br
2220500060101	205-60 Al Br
2220500065101	205-65 Al Br
2220500070101	205-70 Al Br

205-...Cu Be
Combination Spanner

► Copper Beryllium



Code	No.
2220500006102	205-6 Cu Be
2220500007102	205-7 Cu Be
2220500008102	205-8 Cu Be
2220500009102	205-9 Cu Be
2220500010102	205-10 Cu Be
2220500011102	205-11 Cu Be
2220500012102	205-12 Cu Be
2220500013102	205-13 Cu Be
2220500014102	205-14 Cu Be
2220500015102	205-15 Cu Be
2220500016102	205-16 Cu Be
2220500017102	205-17 Cu Be
2220500018102	205-18 Cu Be
2220500019102	205-19 Cu Be
2220500020102	205-20 Cu Be
2220500021102	205-21 Cu Be
2220500022102	205-22 Cu Be
2220500023102	205-23 Cu Be
2220500024102	205-24 Cu Be
2220500025102	205-25 Cu Be
2220500026102	205-26 Cu Be
2220500027102	205-27 Cu Be
2220500030102	205-30 Cu Be
2220500032102	205-32 Cu Be
2220500034102	205-34 Cu Be
2220500035102	205-35 Cu Be
2220500036102	205-36 Cu Be
2220500038102	205-38 Cu Be
2220500041102	205-41 Cu Be
2220500046102	205-46 Cu Be
2220500050102	205-50 Cu Be
2220500055102	205-55 Cu Be
2220500060102	205-60 Cu Be
2220500065102	205-65 Cu Be
2220500070102	205-70 Cu Be

205S-...Al Br
Combination Spanner Set

► Aluminium Bronze

Code	No.
2220550090101	205S 9M Al Br
2220550110101	205S 11M Al Br
2220550130101	205S 13M Al Br

205S-...Cu Be
Combination Spanner Set

► Copper Beryllium

Code	No.
2220550090102	205S 9M Cu Be
2220550110102	205S 11M Cu Be
2220550130102	205S 13M Cu Be

205A-...Al Br
Combination Spanner

► Aluminium Bronze

Code	No.
2220510013101	205A-1/4 Al Br
2220510017101	205A-5/16 Al Br
2220510019101	205A-3/8 Al Br
2220510021101	205A-7/16 Al Br
2220510023101	205A-1/2 Al Br
2220510024101	205A-9/16 Al Br
2220510025101	205A-19/32 Al Br
2220510026101	205A-5/8 Al Br
2220510027101	205A-11/16 Al Br
2220510028101	205A-3/4 Al Br
2220510030101	205A-13/16 Al Br
2220510031101	205A-7/8 Al Br
2220510032101	205A-15/16 Al Br
2220510034101	205A-1 Al Br
2220510035101	205A-1.1/16 Al Br
2220510036101	205A-1.1/8 Al Br
2220510037101	205A-1.3/16 Al Br
2220510038101	205A-1.1/4 Al Br
2220510039101	205A-1.5/16 Al Br
2220510040101	205A-1.3/8 Al Br

205A-...Cu Be
Combination Spanner

► Copper Beryllium

Code	No.
2220510013102	205A-1/4 Cu Be
2220510017102	205A-5/16 Cu Be
2220510019102	205A-3/8 Cu Be
2220510021102	205A-7/16 Cu Be
2220510023102	205A-1/2 Cu Be
2220510024102	205A-9/16 Cu Be
2220510025102	205A-19/32 Cu Be
2220510026102	205A-5/8 Cu Be
2220510027102	205A-11/16 Cu Be
2220510028102	205A-3/4 Cu Be
2220510030102	205A-13/16 Cu Be
2220510031102	205A-7/8 Cu Be
2220510032102	205A-15/16 Cu Be
2220510034102	205A-1 Cu Be
2220510035102	205A-1.1/16 Cu Be
2220510036102	205A-1.1/8 Cu Be
2220510037102	205A-1.3/16 Cu Be
2220510038102	205A-1.1/4 Cu Be
2220510039102	205A-1.5/16 Cu Be
2220510040102	205A-1.3/8 Cu Be

110-...Al Br
Double-Ended Ring Spanner



▶ Aluminium Bronze




Code	No.
2211005507101	110-5,5x7 Al Br
2211000607101	110-6x7 Al Br
2211000608101	110-6x8 Al Br
2211000709101	110-7x9 Al Br
2211000809101	110-8x9 Al Br
2211000810101	110-8x10 Al Br
2211000910101	110-9x10 Al Br
2211000911101	110-9x11 Al Br
2211001011101	110-10x11 Al Br
2211001012101	110-10x12 Al B
2211001013101	110-10x13 Al Br
2211001014101	110-10x14 Al Br
2211001113101	110-11x13 Al Br
2211001213101	110-12x13 Al Br
2211001214101	110-12x14 Al Br
2211001415101	110-14x15 Al Br
2211001417101	110-14x17 Al Br
2211001617101	110-16x17 Al Br
2211001618101	110-16x18 Al Br
2211001719101	110-17x19 Al Br
2211001721101	110-17x21 Al Br
2211001722101	110-17x22 Al Br
2211001819101	110-18x19 Al Br
2211001921101	110-19x21 Al Br
2211001922101	110-19x22 Al Br
2211001924101	110-19x24 Al Br
2211002022101	110-20x22 Al Br
2211002123101	110-21x23 Al Br
2211002126101	110-21x26 Al Br
2211002224101	110-22x24 Al Br
2211002227101	110-22x27 Al Br
2211002326101	110-23x26 Al Br
2211002426101	110-24x26 Al Br
2211002427101	110-24x27 Al Br
2211002430101	110-24x30 Al Br
2211002528101	110-25x28 Al Br
2211002629101	110-26x29 Al Br
2211002729101	110-27x29 Al Br
2211002730101	110-27x30 Al Br
2211002732101	110-29x32 Al Br
2211002932101	110-29x32 Al Br
2211003032101	110-30x32 Al Br
2211003036101	110-30x36 Al Br
2211003234101	110-32x34 Al Br
2211003235101	110-32x35 Al Br
2211003236101	110-32x36 Al Br
2211003436101	110-34x36 Al Br
2211003541101	110-35x41 Al Br
2211003638101	110-36x38 Al Br
2211003641101	110-36x41 Al Br
2211003840101	110-38x40 Al Br
2211004146101	110-41x46 Al Br
2211004650101	110-46x50 Al Br
2211005055101	110-50x55 Al Br
2211005060101	110-50x60 Al Br
2211005560101	110-55x60 Al Br
2211006070101	110-60x70 Al Br

110-...Cu Be
Double-Ended Ring Spanner

▶ Copper Beryllium

Code	No.
2211005507102	110-5,5x7 Cu Be
2211000607102	110-6x7 Cu Be
2211000608102	110-6x8 Cu Be
2211000709102	110-7x9 Cu Be
2211000809102	110-8x9 Cu Be
2211000810102	110-8x10 Cu Be
2211000910102	110-9x10 Cu Be
2211000911102	110-9x11 Cu Be
2211001011102	110-10x11 Cu Be
2211001012102	110-10x12 Cu Be
2211001013102	110-10x13 Cu Be
2211001014102	110-10x14 Cu Be
2211001113102	110-11x13 Cu Be
2211001213102	110-12x13 Cu Be
2211001214102	110-12x14 Cu Be
2211001415102	110-14x15 Cu Be
2211001417102	110-14x17 Cu Be
2211001617102	110-16x17 Cu Be
2211001618102	110-16x18 Cu Be
2211001719102	110-17x19 Cu Be
2211001721102	110-17x21 Cu Be
2211001722102	110-17x22 Cu Be
2211001819102	110-18x19 Cu Be
2211001921102	110-19x21 Cu Be
2211001922102	110-19x22 Cu Be
2211001924102	110-19x24 Cu Be
2211002022102	110-20x22 Cu Be
2211002123102	110-21x23 Cu Be
2211002126102	110-21x26 Cu Be
2211002224102	110-22x24 Cu Be
2211002227102	110-22x27 Cu Be
2211002326102	110-23x26 Cu Be
2211002426102	110-24x26 Cu Be
2211002427102	110-24x27 Cu Be
2211002430102	110-24x30 Cu Be
2211002528102	110-25x28 Cu Be
2211002629102	110-26x29 Cu Be
2211002729102	110-27x29 Cu Be
2211002730102	110-27x30 Cu Be
2211002732102	110-29x32 Cu Be
2211002932102	110-29x32 Cu Be
2211003032102	110-30x32 Cu Be
2211003036102	110-30x36 Cu Be
2211003234102	110-32x34 Cu Be
2211003235102	110-32x35 Cu Be
2211003236102	110-32x36 Cu Be
2211003436102	110-34x36 Cu Be
2211003541102	110-35x41 Cu Be
2211003638102	110-36x38 Cu Be
2211003641102	110-36x41 Cu Be
2211003840102	110-38x40 Cu Be
2211004146102	110-41x46 Cu Be
2211004650102	110-46x50 Cu Be
2211005055102	110-50x55 Cu Be
2211005060102	110-50x60 Cu Be
2211005560102	110-55x60 Cu Be
2211006070102	110-60x70 Cu Be

110S-...Al Br
Double-Ended Ring Spanner Set

► Aluminium Bronze

Code	No.
2211050090101	110S 9M Al Br
2211050110101	110S 11M Al Br
2211050130101	110S 13M Al Br

110S-...Cu Be
Double-Ended Ring Spanner Set

► Copper Beryllium

Code	No.
2211050090102	110S 9M Cu Be
2211050110102	110S 11M Cu Be
2211050130102	110S 13M Cu Be

87-...Al Br
Open End Slogging Spanner

► Aluminium Bronze

Code	No.
2208700017101	87-17 Al Br
2208700019101	87-19 Al Br
2208700022101	87-22 Al Br
2208700024101	87-24 Al Br
2208700027101	87-27 Al Br
2208700030101	87-30 Al Br
2208700032101	87-32 Al Br
2208700036101	87-36 Al Br
2208700038101	87-38 Al Br
2208700041101	87-41 Al Br
2208700046101	87-46 Al Br
2208700050101	87-50 Al Br
2208700052101	87-52 Al Br
2208700055101	87-55 Al Br
2208700060101	87-60 Al Br
2208700065101	87-65 Al Br
2208700070101	87-70 Al Br
2208700075101	87-75 Al Br
2208700080101	87-80 Al Br
2208700085101	87-85 Al Br
2208700090101	87-90 Al Br
2208700095101	87-95 Al Br
2208700100101	87-100 Al Br
2208700110101	87-110 Al Br
2208700120101	87-120 Al Br
2208700130101	87-130 Al Br
2208700140101	87-140 Al Br
2208700150101	87-150 Al Br

87-...Cu Be
Open End Slogging Spanner

► Copper Beryllium

Code	No.
2208700017102	87-17 Cu Be
2208700019102	87-19 Cu Be
2208700022102	87-22 Cu Be
2208700024102	87-24 Cu Be
2208700027102	87-27 Cu Be
2208700030102	87-30 Cu Be
2208700032102	87-32 Cu Be
2208700036102	87-36 Cu Be
2208700038102	87-38 Cu Be
2208700041102	87-41 Cu Be
2208700046102	87-46 Cu Be
2208700050102	87-50 Cu Be
2208700052102	87-52 Cu Be
2208700055102	87-55 Cu Be
2208700060102	87-60 Cu Be
2208700065102	87-65 Cu Be
2208700070102	87-70 Cu Be
2208700075102	87-75 Cu Be
2208700080102	87-80 Cu Be
2208700085102	87-85 Cu Be
2208700090102	87-90 Cu Be
2208700095102	87-95 Cu Be
2208700100102	87-100 Cu Be
2208700110102	87-110 Cu Be
2208700120102	87-120 Cu Be
2208700130102	87-130 Cu Be
2208700140102	87-140 Cu Be
2208700150102	87-150 Cu Be

87A-...Al Br
Open End Slogging Spanner

► Aluminium Bronze



Code	No.
2208710028101	87A-3/4 Al Br
2208710031101	87A-7/8 Al Br
2208710032101	87A-15/16 Al Br
2208710034101	87A-1 Al Br
2208710036101	87A-1.1/8 Al Br
2208710038101	87A-1.1/4 Al Br
2208710041101	87A-1.7/16 Al Br
2208710042101	87A-1.1/2 Al Br
2208710044101	87A-1.5/8 Al Br
2208710046101	87A-1.3/4 Al Br
2208710048101	87A-1.7/8 Al Br
2208710049101	87A-2 Al Br
2208710051101	87A-2.1/8 Al Br
2208710053101	87A-2.1/4 Al Br
2208710055101	87A-2.3/8 Al Br
2208710057101	87A-2.1/2 Al Br
2208710060101	87A-2.3/4 Al Br
2208710063101	87A-3 Al Br
2208710064101	87A-3.1/8 Al Br
2208710067101	87A-3.1/2 Al Br
2208710069101	87A-3.3/4 Al Br
2208710071101	87A-4 Al Br

87A-...Cu Be
Open End Slogging Spanner

► Copper Beryllium



Code	No.
2208710028102	87A-3/4F Cu Be
2208710031102	87A-7/8 Cu Be
2208710032102	87A-15/16 Cu Be
2208710034102	87A-1 Cu Be
2208710036102	87A-1.1/8 Cu Be
2208710038102	87A-1.1/4 Cu Be
2208710041102	87A-1.7/16 Cu Be
2208710042102	87A-1.1/2 Cu Be
2208710044102	87A-1.5/8 Cu Be
2208710046102	87A-1.3/4 Cu Be
2208710048102	87A-1.7/8 Cu Be
2208710049102	87A-2 Cu Be
2208710051102	87A-2.1/8 Cu Be
2208710053102	87A-2.1/4 Cu Be
2208710055102	87A-2.3/8 Cu Be
2208710057102	87A-2.1/2 Cu Be
2208710060102	87A-2.3/4 Cu Be
2208710063102	87A-3 Cu Be
2208710064102	87A-3.1/8 Cu Be
2208710067102	87A-3.1/2 Cu Be
2208710069102	87A-3.3/4 Cu Be
2208710071102	87A-4 Cu Be

86-...Al Br
Ring Slogging Spanner

► Aluminium Bronze



Code	No.
2208600017101	86-17 Al Br
2208600019101	86-19 Al Br
2208600022101	86-22 Al Br
2208600024101	86-24 Al Br
2208600027101	86-27 Al Br
2208600030101	86-30 Al Br
2208600032101	86-32 Al Br
2208600034101	86-34 Al Br
2208600036101	86-36 Al Br
2208600038101	86-38 Al Br
2208600041101	86-41 Al Br
2208600046101	86-46 Al Br
2208600050101	86-50 Al Br
2208600055101	86-55 Al Br
2208600060101	86-60 Al Br
2208600065101	86-65 Al Br
2208600070101	86-70 Al Br
2208600075101	86-75 Al Br
2208600080101	86-80 Al Br
2208600085101	86-85 Al Br
2208600090101	86-90 Al Br
2208600095101	86-95 Al Br
2208600100101	86-100 Al Br
2208600105101	86-105 Al Br
2208600110101	86-110 Al Br
2208600120101	86-120 Al Br
2208600130101	86-130 Al Br
2208600140101	86-140 Al Br
2208600150101	86-150 Al Br

86-...Cu Be
Ring Slogging Spanner

► Copper Beryllium



Code	No.
2208600017102	86-17 Cu Be
2208600019102	86-19 Cu Be
2208600022102	86-22 Cu Be
2208600024102	86-24 Cu Be
2208600027102	86-27 Cu Be
2208600030102	86-30 Cu Be
2208600032102	86-32 Cu Be
2208600034102	86-34 Cu Be
2208600036102	86-36 Cu Be
2208600038102	86-38 Cu Be
2208600041102	86-41 Cu Be
2208600046102	86-46 Cu Be
2208600050102	86-50 Cu Be
2208600055102	86-55 Cu Be
2208600060102	86-60 Cu Be
2208600065102	86-65 Cu Be
2208600070102	86-70 Cu Be
2208600075102	86-75 Cu Be
2208600080102	86-80 Cu Be
2208600085102	86-85 Cu Be
2208600090102	86-90 Cu Be
2208600095102	86-95 Cu Be
2208600100102	86-100 Cu Be
2208600105102	86-105 Cu Be
2208600110102	86-110 Cu Be
2208600120102	86-120 Cu Be
2208600130102	86-130 Cu Be
2208600140102	86-140 Cu Be
2208600150102	86-150 Cu Be

86A-...Al Br
Ring Slogging Spanner

► Aluminium Bronze



Code	No.
2208610027101	86A-11/16 Al Br
2208610028101	86A-3/4 Al Br
2208610031101	86A-7/8 Al Br
2208610034101	86A-1 Al Br
2208610035101	86A-1.1/16 Al Br
2208610036101	86A-1.1/8 Al Br
2208610037101	86A-1.3/16 Al Br
2208610038101	86A-1.1/4 Al Br
2208610040101	86A-1.3/8 Al Br
2208610042101	86A-1.1/2 Al Br
2208610044101	86A-1.5/8 Al Br
2208610046101	86A-1.3/4 Al Br
2208610047101	86A-1.13/16 Al Br
2208610049101	86A-2 Al Br
2208610050101	86A-2.1/16 Al Br
2208610052101	86A-2.3/16 Al Br
2208610053101	86A-2.13/64 Al Br
2208610054101	86A-2.5/16 Al Br
2208610055101	86A-2.3/8 Al Br
2208610057101	86A-2.1/2 Al Br
2208610058101	86A-2.9/16 Al Br
2208610059101	86A-2.5/8 Al Br
2208610060101	86A-2.3/4 Al Br
2208610062101	86A-2.15/16 Al Br
2208610063101	86A-3 Al Br
2208610061101	86A-3.1/16 Al Br
2208610064101	86A-3.1/8 Al Br
2208610065101	86A-3.3/8 Al Br
2208610066101	86A-3.9/16 Al Br
2208610069101	86A-3.3/4 Al Br
2208610070101	86A-3.15/16 Al Br
2208610072101	86A-4.1/8 Al Br

86A-...Cu Be
Ring Slogging Spanner

► Copper Beryllium



Code	No.
2208610027102	86A-11/16 Cu Be
2208610028102	86A-3/4 Cu Be
2208610031102	86A-7/8 Cu Be
2208610034102	86A-1 Cu Be
2208610035102	86A-1.1/16 Cu Be
2208610036102	86A-1.1/8 Cu Be
2208610037102	86A-1.3/16 Cu Be
2208610038102	86A-1.1/4 Cu Be
2208610040102	86A-1.3/8 Cu Be
2208610042102	86A-1.1/2 Cu Be
2208610044102	86A-1.5/8 Cu Be
2208610046102	86A-1.3/4 Cu Be
2208610047102	86A-1.13/16 Cu Be
2208610049102	86A-2 Cu Be
2208610050102	86A-2.1/16 Cu Be
2208610052102	86A-2.3/16 Cu Be
2208610053102	86A-2.13/64 Cu Be
2208610054102	86A-2.5/16 Cu Be
2208610055102	86A-2.3/8 Cu Be
2208610057102	86A-2.1/2 Cu Be
2208610058102	86A-2.9/16 Cu Be
2208610059102	86A-2.5/8 Cu Be
2208610060102	86A-2.3/4 Cu Be
2208610062102	86A-2.15/16 Cu Be
2208610063102	86A-3 Cu Be
2208610061102	86A-3.1/16 Cu Be
2208610064102	86A-3.1/8 Cu Be
2208610065102	86A-3.3/8 Cu Be
2208610066102	86A-3.9/16 Cu Be
2208610069102	86A-3.3/4 Cu Be
2208610070102	86A-3.15/16 Cu Be
2208610072102	86A-4.1/8 Cu Be

60-...Al Br
Adjustable Wrench

► Aluminium Bronze



Code	No.
2206000018101	60-18 Al Br
2206000024101	60-24 Al Br
2206000030101	60-30 Al Br
2206000036101	60-36 Al Br
2206000046101	60-46 Al Br
2206000055101	60-55 Al Br
2206000065101	60-65 Al Br

60-...Cu Be
Adjustable Wrench

► Copper Beryllium




Code	No.
2206000018102	60-18 Cu Be
2206000024102	60-24 Cu Be
2206000030102	60-30 Cu Be
2206000036102	60-36 Cu Be
2206000046102	60-46 Cu Be
2206000055102	60-55 Cu Be
2206000065102	60-65 Cu Be


870-1D Al Br Reversible Ratchet	
▶ Aluminium Bronze	10
	3/8"
Code	No.
2287000101101	870-1D Al Br

870-1D Cu Be Reversible Ratchet	
▶ Copper Beryllium	10
	3/8"
Code	No.
2287000101102	870-1D Cu Be

770-L1D Al Br Reversible Ratchet	
▶ Aluminium Bronze	12,5
	1/2"
Code	No.
2277000090101	770-L1D Al Br


770-L1D Cu Be Reversible Ratchet	
▶ Copper Beryllium	12,5
	1/2"
Code	No.
2277000090102	770-L1D Cu Be


770-S1U Al Br Reversible Ratchet	
▶ Aluminium Bronze	20
	3/4"
Code	No.
2277002010101	770-S1U Al Br


770-S1U Cu Be Reversible Ratchet	
▶ Copper Beryllium	20
	3/4"
Code	No.
2277002010102	770-S1U Cu Be


780-1 Al Br Reversible Ratchet	
▶ Aluminium Bronze	25
	1"
Code	No.
2278000001101	780-1 Al Br

780-1 Cu Be Reversible Ratchet	
▶ Copper Beryllium	25
	1"
Code	No.
2278000001102	780-1 Cu Be

870-... Al Br Extension Bar	
▶ Aluminium Bronze	10
	3/8"
Code	No.
2287001030101	870-3 Al Br 75 mm
2287001040101	870-4 Al Br 150 mm

870-... Cu Be Extension Bar	
▶ Copper Beryllium	10
	3/8"
Code	No.
2287001030102	870-3 Cu Be 75 mm
2287001040102	870-4 Cu Be 150 mm


770-... Al Br Extension Bar	
▶ Aluminium Bronze	12,5
	1/2"
Code	No.
2277001045101	770-45 Al Br 100 mm
2277001035101	770-35 Al Br 125 mm
2277001050101	770-5 Al Br 200 mm
2277001055101	770-55 Al Br 250 mm

770-... Cu Be Extension Bar	
▶ Copper Beryllium	12,5
	1/2"
Code	No.
2277001045102	770-45 Cu Be 100 mm
2277001035102	770-35 Cu Be 125 mm
2277001050102	770-5 Cu Be 200 mm
2277001055102	770-55 Cu Be 250 mm

770-S4/-S5 Al Br
Extension Bar

► Aluminium Bronze

20
3/4"




Code	No.
2277002040101	770-S4 Al Br 200 mm
2277002050101	770-S5 Al Br 430 mm

770-S4/-S5 Cu Be
Extension Bar

► Copper Beryllium

20
3/4"



Code	No.
2277002040102	770-S4 Cu Be 200 mm
2277002050102	770-S5 Cu Be 430 mm

780-3 Al Br
Extension Bar

► Aluminium Bronze

25
1"




Code	No.
2278000003101	780-3 Al Br 200 mm

780-3 Cu Be
Extension Bar

► Copper Beryllium

25
1"



Code	No.
2278000003102	780-3 Cu Be 200 mm

1455-M... Al Br
Sockets

► Aluminium Bronze

6,3
1/4"



 mm

Code	No.
2214550040101	1455-M 4 Al Br
2214550045101	1455-M 4,5 Al Br
2214550050101	1455-M 5 Al Br
2214550055101	1455-M 5,5 Al Br
2214550060101	1455-M 6 Al Br
2214550070101	1455-M 7 Al Br
2214550080101	1455-M 8 Al Br
2214550090101	1455-M 9 Al Br
2214550100101	1455-M 10 Al Br
2214550110101	1455-M 11 Al Br
2214550120101	1455-M 12 Al Br
2214550130101	1455-M 13 Al Br
2214550140101	1455-M 14 Al Br
2214550150101	1455-M 15 Al Br
2214550160101	1455-M 16 Al Br
2214550170101	1455-M 17 Al Br
2214550180101	1455-M 18 Al Br
2214550190101	1455-M 19 Al Br

1455-M... Cu Be
Sockets

► Copper Beryllium

6,3
1/4"



 mm

Code	No.
2214550040102	1455-M 4 Cu Be
2214550045102	1455-M 4,5 Cu Be
2214550050102	1455-M 5 Cu Be
2214550055102	1455-M 5,5 Cu Be
2214550060102	1455-M 6 Cu Be
2214550070102	1455-M 7 Cu Be
2214550080102	1455-M 8 Cu Be
2214550090102	1455-M 9 Cu Be
2214550100102	1455-M 10 Cu Be
2214550110102	1455-M 11 Cu Be
2214550120102	1455-M 12 Cu Be
2214550130102	1455-M 13 Cu Be
2214550140102	1455-M 14 Cu Be
2214550150102	1455-M 15 Cu Be
2214550160102	1455-M 16 Cu Be
2214550170102	1455-M 17 Cu Be
2214550180102	1455-M 18 Cu Be
2214550190102	1455-M 19 Cu Be

 AF"


Code	No.
2214551080101	1455-A 5/32 Al Br
2214551090101	1455-A 3/16 Al Br
2214551110101	1455-A 7/32 Al Br
2214551130101	1455-A 1/4 Al Br
2214551150101	1455-A 9/32 Al Br
2214551170101	1455-A 5/16 Al Br
2214551180101	1455-A 11/32 Al Br
2214551190101	1455-A 3/8 Al Br
2214551210101	1455-A 7/16 Al Br
2214551230101	1455-A 1/2 Al Br

 AF"



Code	No.
2214551080102	1455-A 5/32 Cu Be
2214551090102	1455-A 3/16 Cu Be
2214551110102	1455-A 7/32 Cu Be
2214551130102	1455-A 1/4 Cu Be
2214551150102	1455-A 9/32 Cu Be
2214551170102	1455-A 5/16 Cu Be
2214551180102	1455-A 11/32 Cu Be
2214551190102	1455-A 3/8 Cu Be
2214551210102	1455-A 7/16 Cu Be
2214551230102	1455-A 1/2 Cu Be

770-S 13M/28M Al Br
Socket Set

► Aluminium Bronze




12,5
1/2"



Code	No.
2207750013101	770-S 13M Al Br 8-27 mm Reversible Ratchet 245 mm Flexible Handle 250 mm
2207750028101	770-S 28M Al Br 10-32 mm Reversible Ratchet 245 mm Sliding T-Bar 250 mm Speed Handle 400 mm Extension Bar 125 mm 250 mm Universal Joint 80 mm Screwdriver Socket 52 mm

770-S 13M/28M Cu Be
Socket Set

► Copper Beryllium




12,5
1/2"

Code	No.
2207750013102	770-S 13M Cu Be 8-27 mm Reversible Ratchet 245 mm Flexible Handle 250 mm
2207750028102	770-S28M Cu Be 10-32 mm Reversible Ratchet 245 mm Sliding T-Bar 250 mm Speed Handle 400 mm Extension Bar 125 mm 250 mm Universal Joint 80 mm Screwdriver Socket 52 mm

770-L3 Al Br
Sliding T-Bar

► Aluminium Bronze



12,5
1/2"

Code	No.
2207700300101	770-L3 Al Br 250mm

770-L3 Cu Be
Sliding T-Bar

► Copper Beryllium




12,5
1/2"

Code	No.
2207700300102	770-L3 Cu Be 250 mm

770-S3/S35 Al Br
Sliding T-Bar

► Aluminium Bronze




20
3/4"

Code	No.
2207702030101	770-S3 Al Br 350 mm
2207702035101	770-S35 Al Br 400 mm

770-S3/S35 Cu Be
Sliding T-Bar

► Copper Beryllium



20
3/4"

Code	No.
2207702030102	770-S3 Cu Be 350 mm
2207702035102	770-S35 Cu Be 400 mm

780-2 Al Br
Sliding T-Bar

► Aluminium Bronze



25
1"

Code	No.
2207800002101	780-2 Al Br 400 mm

780-2 Cu Be
Sliding T-Bar

► Copper Beryllium



25
1"

Code	No.
2207800002102	780-2 Cu Be 400 mm

870-7 Al Br
Flexible Handle

► Aluminium Bronze



10
3/8"

Code	No.
2208701070101	870-7 Al Br 190 mm

870-7 Cu Be
Flexible Handle

► Copper Beryllium




10
3/8"

Code	No.
2208701070102	870-7 Cu Be 190 mm

770-L9/L95/L100 Al Br
Flexible Handle

► Aluminium Bronze




12,5
1/2"

Code	No.
2207700900101	770-L9 Al Br 250 mm
2207700950101	770-L95 Al Br 320 mm
2207701000101	770-L100 Al Br 400 mm

770-L9/L95/L100 Cu Be
Flexible Handle

► Copper Beryllium




12,5
1/2"

Code	No.
2207700900102	770-L9 Cu 230 mm
2207700950102	770-L95 Cu Be 320 mm
2207701000102	770-L100 Cu Be 400 mm

770-S2 Al Br
Flexible Handle

► Aluminium Bronze




20
3/4"

Code	No.
2207702020101	770-S2 Al Br 286 mm

770-S2 Cu Be
Flexible Handle

► Copper Beryllium




20
3/4"

Code	No.
2207702020102	770-S2 Cu Be 286 mm

780-8 Al Br
Flexible Handle

► Aluminium Bronze



25
1"

Code	No.
2207800080101	780-8 Al Br 304 mm





780-8Cu Be
Flexible Handle





► Copper Beryllium



25
1"

Code	No.
2207800080102	780-8 Cu Be 304 mm

770-LM... Al Br Sockets	
▶ Aluminium Bronze	
	
 mm  12,5  1/2" 	
Code	No.
2207700006101	770-LM 6 Al Br
2207700007101	770-LM 7 Al B
2207700008101	770-LM 8 Al Br
2207700009101	770-LM 9 Al Br
2207700010101	770-LM 10 Al Br
2207700011101	770-LM 11 Al Br
2207700012101	770-LM 12 Al Br
2207700013101	770-LM 13 Al Br
2207700014101	770-LM 14 Al Br
2207700015101	770-LM 15 Al Br
2207700016101	770-LM 16 Al Br
2207700017101	770-LM 17 Al Br
2207700018101	770-LM 18 Al Br
2207700019101	770-LM 19 Al Br
2207700020101	770-LM 20 Al Br
2207700021101	770-LM 21 Al Br
2207700022101	770-LM 22 Al Br
2207700023101	770-LM 23 Al Br
2207700024101	770-LM 24 Al Br
2207700025101	770-LM 25 Al Br
2207700026101	770-LM 26 Al Br
2207700027101	770-LM 27 Al Br
2207700028101	770-LM 28 Al Br
2207700029101	770-LM 29 Al Br
2207700030101	770-LM 30 Al Br
2207700032101	770-LM 32 Al Br

770-LM... Cu Be Sockets	
▶ Copper Beryllium	
	
 mm  12,5  1/2" 	
Code	No.
2207700006102	770-LM 6 Cu Be
2207700007102	770-LM 7 Cu Be
2207700008102	770-LM 8 Cu Be
2207700009102	770-LM 9 Cu Be
2207700010102	770-LM 10 Cu Be
2207700011102	770-LM 11 Cu Be
2207700012102	770-LM 12 Cu Be"
2207700013102	770-LM 13 Cu Be
2207700014102	770-LM 14 Cu Be
2207700015102	770-LM 15 Cu Be
2207700016102	770-LM 16 Cu Be
2207700017102	770-LM 17 Cu Be
2207700018102	770-LM 18 Cu Be
2207700019102	770-LM 19 Cu Be
2207700020102	770-LM 20 Cu Be
2207700021102	770-LM 21 Cu Be
2207700022102	770-LM 22 Cu Be
2207700023102	770-LM 23 Cu Be
2207700024102	770-LM 24 Cu Be
2207700025102	770-LM 25 Cu Be
2207700026102	770-LM 26 Cu Be
2207700027102	770-LM 27 Cu Be
2207700028102	770-LM 28 Cu Be
2207700029102	770-LM 29 Cu Be
2207700030102	770-LM 30 Cu Be
2207700032102	770-LM 32 Cu Be

AF"	
Code	No.
2207701017101	770-LA 5/16 Al Br
2207701019101	770-LA 3/8 Al Br
2207701021101	770-LA 7/16 Al Br
2207701023101	770-LA 1/2 Al Br
2207701024101	770-LA 9/16 Al Br
2207701026101	770-LA 5/8 Al Br
2207701027101	770-LA 11/16 Al Br
2207701028101	770-LA 3/4 Al Br
2207701030101	770-LA 13/16 Al Br
2207701031101	770-LA 7/8 Al Br
2207701032101	770-LA 15/16 Al Br
2207701034101	770-LA 1 Al Br
2207701035101	770-LA 1.1/16 Al Br
2207701038101	770-LA 1.1/4 Al Br
2207701041101	770-LA 1.7/16

AF"	
Code	No.
2207701017102	770-LA 5/16 Cu Be
2207701019102	770-LA 3/8 Cu Be
2207701021102	770-LA 7/16 Cu Be
2207701023102	770-LA 1/2 Cu Be
2207701024102	770-LA 9/16 Cu Be
2207701026102	770-LA 5/8 Cu Be
2207701027102	770-LA 11/16
2207701028102	770-LA 3/4 Cu Be
2207701030102	770-LA 13/16 Cu Be
2207701031102	770-LA 7/8 Cu Be
2207701032102	770-LA 15/16 Cu Be
2207701034102	770-LA 1 Cu Be
2207701035102	770-LA 1.1/16 Cu Be
2207701038102	770-LA 1.1/4 Cu Be
2207701041102	770-LA 1.7/16 Cu Be

770-SM... Al Br
Sockets

► Aluminium Bronze

20
3/4"

mm

Code	No.
2207700119101	770-S 19 Al Br
2207700122101	770-S 22 Al Br
2207700124101	770-S 24 Al Br
2207700127101	770-S 27 Al Br
2207700130101	770-S 30 Al Br
2207700132101	770-S 32 Al Br
2207700134101	770-S 34 Al Br
2207700136101	770-S 36 Al Br
2207700138101	770-S 38 Al Br
2207700141101	770-S 41 Al Br
2207700146101	770-S 46 Al Br
2207700150101	770-S 50 Al Br

AF

Code	No.
2207701128101	770-SA 3/4 Al Br
2207701130101	770-SA 13/16 Al Br
2207701131101	770-SA 7/8 Al Br
2207701132101	770-SA 15/16 Al Br
2207701134101	770-SA 1 Al Br
2207701135101	770-SA 1.1/16 Al Br
2207701136101	770-SA 1.1/8 Al Br
2207701137101	770-SA 1.3/16 Al Br
2207701138101	770-SA 1.1/4 Al Br
2207701139101	770-SA 1.5/16 Al Br
2207701140101	770-SA 1.3/8 Al Br
2207701141101	770-SA 1.7/16 Al Br
2207701142101	770-SA 1.1/2 Al Br
2207701144101	770-SA 1.5/8 Al Br
2207701146101	770-SA 1.3/4 Al Br
2207701147101	770-SA 1.13/16 Al Br
2207701148101	770-SA 1.7/8 Al Br
2207701149101	770-SA 2 Al Br

770-SM... Cu Be
Sockets

► Copper Beryllium

20
3/4"

mm

Code	No.
2207700119102	770-S 19 Cu Be
2207700122102	770-S 22 Cu Be
2207700124102	770-S 24 Cu Be
2207700127102	770-S 27 Cu Be
2207700130102	770-S 30 Cu Be
2207700132102	770-S 32 Cu Be
2207700134102	770-S 34 Cu Be
2207700136102	770-S 36 Cu Be
2207700138102	770-S 38 Cu Be
2207700141102	770-S 41 Cu Be
2207700146102	770-S 46 Cu Be
2207700150102	770-S 50 Cu Be

AF

Code	No.
2207701128102	770-SA 3/4 Cu Be
2207701130102	770-SA 13/16 Cu Be
2207701131102	770-SA 7/8 Cu Be
2207701132102	770-SA 15/16 Cu Be
2207701134102	770-SA 1 Cu Be
2207701135102	770-SA 1.1/16 Cu Be
2207701136102	770-SA 1.1/8 Cu Be
2207701137102	770-SA 1.3/16 Cu Be
2207701138102	770-SA 1.1/4 Cu Be
2207701139102	770-SA 1.5/16 Cu Be
2207701140102	770-SA 1.3/8 Cu Be
2207701141102	770-SA 1.7/16 Cu Be
2207701142102	770-SA 1.1/2 Cu Be
2207701144102	770-SA 1.5/8 Cu Be
2207701146102	770-SA 1.3/4 Cu Be
2207701147102	770-SA 1.13/16 Cu Be
2207701148102	770-SA 1.7/8 Cu Be
2207701149102	770-SA 2 Cu Be

770-S 14M Al Br
Socket Set

► Aluminium Bronze

20
3/4"

mm

Code	No.
2207705014101	770-S14M Al Br 21-50 mm Reversible Ratchet 320 mm Sliding T-Bar 400 mm Extension Bar 200 mm

770-S 14M Cu Be
Socket Set

► Copper Beryllium

20
3/4"

mm

Code	No.
2207705014102	770-S14M Cu Be 21-50 mm Reversible Ratchet 320 mm Sliding T-Bar 400 mm Extension Bar 200 mm

791-... Al Br
Impact Socket

► Aluminium Bronze




20
3/4"

 mm 



Code	No.
2207910027101	791-27 Al Br
2207910030101	791-30 Al Br
2207910032101	791-32 Al Br
2207910036101	791-36 Al Br
2207910041101	791-41 Al Br
2207910046101	791-46 Al Br
2207910050101	791-50 Al Br

791-... Cu Be
Impact Socket

► Copper Beryllium



20
3/4"

 mm 

Code	No.
2207910027102	791-27 Cu Be
2207910030102	791-30 Cu Be
2207910032102	791-32 Cu Be
2207910036102	791-36 Cu Be
2207910041102	791-41 Cu Be
2207910046102	791-46 Cu Be
2207910050102	791-50 Cu Be

792-... Al Br
Impact Socket

► Aluminium Bronze



25
1"

 mm 

Code	No.
2207920019101	792-19 Al Br
2207920021101	792-21 Al Br
2207920022101	792-22 Al Br
2207920024101	792-24 Al Br
2207920026101	792-26 Al Br
2207920027101	792-27 Al Br
2207920029101	792-29 Al Br
2207920030101	792-30 Al Br
2207920032101	792-32 Al Br
2207920034101	792-34 Al Br
2207920035101	792-35 Al Br
2207920036101	792-36 Al Br
2207920038101	792-38 Al Br
2207920041101	792-41 Al Br
2207920046101	792-46 Al Br
2207920050101	792-50 Al Br
2207920052101	792-52 Al Br
2207920055101	792-55 Al Br
2207920058101	792-58 Al Br
2207920060101	792-60 Al Br
2207920065101	792-65 Al Br
2207920070101	792-70 Al Br
2207920075101	792-75 Al Br
2207920080101	792-80 Al Br

792-... Cu Be
Impact Socket

► Copper Beryllium




25
1"



 mm 

Code	No.
2207920019102	792-19 Cu Be
2207920021102	792-21 Cu Be
2207920022102	792-22 Cu Be
2207920024102	792-24 Cu Be
2207920026102	792-26 Cu Be
2207920027102	792-27 Cu Be
2207920029102	792-29 Cu Be
2207920030102	792-30 Cu Be
2207920032102	792-32 Cu Be
2207920034102	792-34 Cu Be
2207920035102	792-35 Cu Be
2207920036102	792-36 Cu Be
2207920038102	792-38 Cu Be
2207920041102	792-41 Cu Be
2207920046102	792-46 Cu Be
2207920050102	792-50 Cu Be
2207920052102	792-52 Cu Be
2207920055102	792-55 Cu Be
2207920058102	792-58 Cu Be
2207920060102	792-60 Cu Be
2207920065102	792-65 Cu Be
2207920070102	792-70 Cu Be
2207920075102	792-75 Cu Be
2207920080102	792-80 Cu Be

159-... Al Br
Hexagon Key

► Aluminium Bronze






 mm 

Code	No.
2201590002101	159-2 Al Br
2201590003101	159-3 Al Br
2201590004101	159-4 Al Br
2201590005101	159-5 Al Br
2201590006101	159-6 Al Br
2201590007101	159-7 Al Br
2201590008101	159-8 Al Br
2201590009101	159-9 Al Br
2201590010101	159-10 Al Br
2201590011101	159-11 Al Br
2201590012101	159-12 Al Br

159-... Cu Be
Hexagon Key

► Copper Beryllium






 mm 

Code	No.
2201590002102	159-2 Cu Be
2201590003102	159-3 Cu Be
2201590004102	159-4 Cu Be
2201590005102	159-5 Cu Be
2201590006102	159-6 Cu Be
2201590007102	159-7 Cu Be
2201590008102	159-8 Cu Be
2201590009102	159-9 Cu Be
2201590010102	159-10 Cu Be
2201590011102	159-11 Cu Be
2201590012102	159-12 Cu Be

159-S11M Al Br
Hexagon Key Set

► Aluminium Bronze






 mm 

Code	No.
2201595011101	159-S11M Al Br

159-S11M Cu Be
Hexagon Key Set

► Copper Beryllium



 mm 

Code	No.
2201595011102	159-S11M Cu Be

159KU-... Al Br
Ball End Hexagon Key

► Aluminium Bronze



 mm 

Code	No.
2201593002101	159KU-2 Al Br
2201593003101	159KU-3 Al Br
2201593004101	159KU-4 Al Br
2201593005101	159KU-5 Al Br
2201593006101	159KU-6 Al Br
2201593007101	159KU-7 Al Br
2201593008101	159KU-8 Al Br
2201593009101	159KU-9 Al Br
2201593010101	159KU-10 Al Br
2201593011101	159KU-11 Al Br
2201593012101	159KU-12 Al Br

159KU-... Cu Be
Ball End Hexagon Key

► Copper Beryllium




 mm 

Code	No.
2201593002102	159KU-2 Cu Be
2201593003102	159KU-3 Cu Be
2201593004102	159KU-4 Cu Be
2201593005102	159KU-5 Cu Be
2201593006102	159KU-6 Cu Be
2201593007102	159KU-7 Cu Be
2201593008102	159KU-8 Cu Be
2201593009102	159KU-9 Cu Be
2201593010102	159KU-10 Cu Be
2201593011102	159KU-11 Cu Be
2201593012102	159KU-12 Cu Be

545-IS... Al Br
Screwdriver


► Aluminium Bronze



Code	No.
2205450503101	545-IS 50x3 Al Br
2205451004101	545-IS 100x4 Al Br
2205451005101	545-IS 100x5 Al Br
2205451006101	545-IS 100x6 Al Br
2205451508101	545-IS 150x8 Al Br
2205453001101	545-IS 300x10 Al Br

545-IS... Cu Be
Screwdriver


► Copper Beryllium



Code	No.
2205450503102	545-IS 50x3 Cu Be
2205451004102	545-IS 100x4 Cu Be
2205451005102	545-IS 100x5 Cu Be
2205451006102	545-IS 100x6 Cu Be
2205451508102	545-IS 150x8 Cu Be
2205453001102	545-IS 300x10 Cu Be

547-PH... Al Br
Screwdriver


► Aluminium Bronze



Code	No.
2205470200101	547-PH 0 Al Br
2205470201101	547-PH 1 Al Br
2205470202101	547-PH 2 Al Br
2205470203101	547-PH 3 Al Br
2205470204101	547-PH 4 Al Br

547-PH... Cu Be
Screwdriver


► Copper Beryllium



Code	No.
2205470200102	547-PH 0 Cu Be
2205470201102	547-PH 1 Cu Be
2205470202102	547-PH 2 Cu Be
2205470203102	547-PH 3 Cu Be
2205470204102	547-PH 4 Cu Be

495-... Al Br
Combination Plier


► Aluminium Bronze



Code	No.
2204950150101	495-165 Al Br
2204950175101	495-175 Al Br
2204950200101	495-200 Al Br

495-... Cu Be
Combination Plier


► Copper Beryllium



Code	No.
2204950150102	495-165 Cu Be
2204950175102	495-175 Cu Be
2204950200102	495-200 Cu Be

384-... Al Br
Circlip Plier for External Retaining Ring


► Aluminium Bronze



Code	No.
2203840200101	384-200 Al Br
2203840250101	384-250 Al Br

384-... Cu Be
Circlip Plier for External Retaining Ring

► Copper Beryllium



Code	No.
2203840200102	384-200 Cu Be
2203840250102	384-250 Cu Be

476-150 Al Br
Flat Nose Plier

► Aluminium Bronze



Code	No.
2204760150101	476-150 Al Br

476-150 Cu Be
Flat Nose Plier


► Copper Beryllium



Code	No.
2204760150102	476-150 Cu Be

492-... Al Br
Side Cutter


► Aluminium Bronze



Code	No.
2204920150101	492-150 Al Br
2204920200101	492-200 Al Br

492-... Cu Be
Side Cutter


► Copper Beryllium



Code	No.
2204920150102	492-150 Cu Be
2204920200102	492-200 Cu Be

470-... Al Br
Snipe Nose Plier with Side Cutter, straight Pattern


► Aluminium Bronze



Code	No.
2204700150101	470-150 Al Br
2204700200101	470-200 Al Br

470... Cu Be
Snipe Nose Plier with Side Cutter, straight Pattern


► Copper Beryllium



Code	No.
2204700150102	470-150 Cu Be
2204700200102	470-200 Cu Be

132-250 Al Br
Waterpump Plier

► Aluminium Bronze



Code	No.
2201320250101	132-250 Al Br

132-250 Cu Be
Waterpump Plier


► Copper Beryllium



Code	No.
2201320250102	132-250 Cu Be

67E-... Al Br
Pipe Wrench


► Aluminium Bronze



Code	No.
2200670042101	67E-1.1/2" Al Br
2200670049101	67E-2" Al Br

67E-... Cu Be
Pipe Wrench


► Copper Beryllium



Code	No.
2200670042102	67E-1.1/2" Cu Be
2200670049102	67E-2" Cu Be

75-... Al Br
Pipe Wrench "Stillson"

► Aluminium Bronze



Code	No.
2200750105201	75-10 Al Br
2200750125201	75-12 Al Br
2200750145201	75-14 Al Br
2200750185201	75-18 Al Br

75-... Cu Be
Pipe Wrench "Stillson"


► Aluminium Bronze



Code	No.
2200750105202	75-10 Cu Be
2200750125202	75-12 Cu Be
2200750145202	75-14 Cu Be
2200750185202	75-18 Cu Be

498-225 Al Br
Universal Scissors


► Aluminium Bronze



Code	No.
2204980225101	498-225 Al Br

498-225 Cu Be
Universal Scissors

► Copper Beryllium



Code	No.
2204980225102	498-225 Cu Be

1665-... Al Br
Engineer's Hammer


► Aluminium Bronze



Code	No.
2216650500101	1665-500 Al Br
2216651000101	1665-1000 Al Br
2216651500101	1665-1500 Al Br
2216652000101	1665-2000 Al Br

1665-... Cu Be
Engineer's Hammer


► Copper Beryllium



Code	No.
2216650500102	1665-500 Cu Be
2216651000102	1665-1000 Cu Be
2216651500102	1665-1500 Cu Be
2216652000102	1665-2000 Cu Be

1670-... Al Br
Engineer's Hammer


► Aluminium Bronze



Code	No.
2216700230101	1670-230 Al Br
2216700340101	1670-340 Al Br
2216700450101	1670-450 Al Br
2216700680101	1670-680 Al Br
2216700910101	1670-910 Al Br
2216701130101	1670-1130 Al Br

1670-... Cu Be
Engineer's Hammer

► Copper Beryllium



Code	No.
2216700230102	1670-230 Cu Be
2216700340102	1670-340 Cu Be
2216700450102	1670-450 Cu Be
2216700680102	1670-680 Cu Be
2216700910102	1670-910 Cu Be
2216701130102	1670-1130 Cu Be

1672-... Al Br
Club Hammer


► Aluminium Bronze



Code	No.
2216721000101	1672-1000 Al Br
2216721500101	1672-1500 Al Br
2216722000101	1672-2000 Al Br
2216723000101	1672-3000 Al Br

1672-... Cu Be
Club Hammer


► Copper Beryllium



Code	No.
2216721000102	1672-1000 Cu Be
2216721500102	1672-1500 Cu Be
2216722000102	1672-2000 Cu Be
2216723000102	1672-3000 Cu Be

1662-... Al Br
Club Hammer


► Aluminium Bronze



Code	No.
2216621000101	1662-1000 Al Br
2216621500101	1662-1500 Al Br
2216622000101	1662-2000 Al Br
2216623000101	1662-3000 Al Br
2216625000101	1662-5000 Al Br
2216629900101	1662-9900 Al Br

1662-... Cu Be
Club Hammer


► Copper Beryllium



Code	No.
2216621000102	1662-1000 Cu Be
2216621500102	1662-1500 Cu Be
2216622000102	1662-2000 Cu Be
2216623000102	1662-3000 Cu Be
2216625000102	1662-5000 Cu Be
2216629900102	1662-9900 Cu Be

260-... Al Br
Flat Chisel


► Aluminium Bronze



Code	No.
2202600150101	260-150x12 Al Br
2202600200101	260-200x16 Al Br
2202600160101	260-160x18 Al Br
2202600250101	260-250x16 Al Br
2202600300101	260-300x19 Al Br
2202600350101	260-350x19 Al Br
2202600600101	260-600x24 Al Br
2202600301101	260-300x28 Al Br
2202600500101	260-500x35 Al Br
2202600161101	260-160x14 Al Br
2202600162101	260-160x16 Al Br

260-... Cu Be
Flat Chisel

► Copper Beryllium



Code	No.
2202600150102	260-150x12 Cu Be
2202600200102	260-200x16 Cu Be
2202600160102	260-160x18 Cu Be
2202600250102	260-250x16 Cu Be
2202600300102	260-300x19 Cu Be
2202600350102	260-350x19 Cu Be
2202600600102	260-600x24 Cu Be
2202600301102	260-300x28 Cu Be
2202600500102	260-500x35 Cu Be
2202600161102	260-160x14 Cu Be
2202600162102	260-160x16 Cu Be

261-... Al Br
Cape Chisel


► Aluminium Bronze



Code	No.
2202610140101	261-140 Al Br
2202610200101	261-200 Al Br
2202610300101	261-300 Al Br

261-... Cu Be
Cape Chisel


► Copper Beryllium



Code	No.
2202610140102	261-140 Cu Be
2202610200102	261-200 Cu Be
2202610300102	261-300 Cu Be

1676-... Al Br
Wrecking Bar


► Aluminium Bronze



Code	No.
2216760500101	1676-500x18 Al Br
2216760501101	1676-500x20 Al Br
2216761001101	1676-1000x25 Al Br

1676-... Cu Be
Wrecking Bar

► Copper Beryllium



Code	No.
2216760500102	261-140 Cu Be
2216760501102	261-200 Cu Be
2216761001102	261-300 Cu Be

271-... Al Br
Cape Chisel


► Aluminium Bronze



Code	No.
2202710080101	271-8 Al Br
2202710100101	271-10 Al Br
2202710120101	271-12 Al Br
2202710140101	271-14 Al Br
2202710150101	271-15 Al Br
2202710160101	271-16 Al Br
2202710170101	271-17 Al Br
2202710180101	271-18 Al Br
2202710190101	271-19 Al Br
2202710200101	271-20 Al Br
2202710210101	271-21 Al Br
2202710220101	271-22 Al Br

271-... Cu Be
Cape Chisel


► Copper Beryllium



Code	No.
2202710080102	271-8 Cu Be
2202710100102	271-10 Cu Be
2202710120102	271-12 Cu Be
2202710140102	271-14 Cu Be
2202710150102	271-15 Cu Be
2202710160102	271-16 Cu Be
2202710170102	271-17 Cu Be
2202710180102	271-18 Cu Be
2202710190102	271-19 Cu Be
2202710200102	271-20 Cu Be
2202710210102	271-21 Cu Be
2202710220102	271-22 Cu Be

264-... Al Br
Drift Punch


► Aluminium Bronze



Code	No.
2202640100101	264-100 x 16 Al Br
2202640150101	264-150 x 16 Al Br

264-... Cu Be
Drift Punch


► Copper Beryllium



Code	No.
2202640100102	264-100 x 16 Cu Be
2202640150102	264-150 x 16 Cu Be

271-Z... Al Br
Parallel Pin Punch


► Aluminium Bronze



Code	No.
2202710030101	271-Z3 Al Br
2202710040101	271-Z4 Al Br
2202710060101	271-Z6 Al Br
2202710081101	271-Z8 Al Br

271-Z... Cu Be
Parallel Pin Punch

► Copper Beryllium



Code	No.
2202710030102	271-Z3 Cu Be
2202710040102	271-Z4 Cu Be
2202710060102	271-Z6 Cu Be
2202710081102	271-Z8 Cu Be

207-300 Al Br
Three Square File

► Aluminium Bronze



Code	No.
2202070300101	207-300 Al Br

207-300 Cu Be
Three Square File


► Copper Beryllium



Code	No.
2202070300102	207-300 Cu Be

276-... Al Br
Hollow Scraper


► Aluminium Bronze



Code	No.
2202760200101	276-200x30 Al Br
2202760300101	276-300x30 Al Br
2202760350101	276-350x35 Al Br
2202760351101	276-350x50 Al Br
2202760400101	276-400x60 Al Br

276-... Cu Be
Hollow Scraper

► Copper Beryllium



Code	No.
2202760200102	276-200x30 Cu Be
2202760300102	276-300x30 Cu Be
2202760350102	276-350x35 Cu Be
2202760351102	276-350x50 Cu Be
2202760400102	276-400x60 Cu Be

281-B Al Br
Knife

► Aluminium Bronze



Code	No.
2202810000101	281-B Al Br

281-B Cu Be
Knife


► Copper Beryllium



Code	No.
2202810000102	281-B Cu Be

250-4 Al Br
Wire Brush


► Aluminium Bronze



Code	No.
2202500000101	250-4 Al Br

250-4 Cu Be
Wire Brush


► Copper Beryllium



Code	No.
2202500000102	250-4 Cu Be

189M Al Br
Hacksaw Frame

► Aluminium Bronze



Code	No.
2201890000101	189M Al Br

189M Cu Be
Hacksaw Frame

► Copper Beryllium



Code	No.
2201890000102	189M Cu Be

189ME Al Br
Hacksaw Blade

► Aluminium Bronze



Code	No.
2201890001101	189ME Cu Be

189ME Cu Be
Hacksaw Blade

► Copper Beryllium



Code	No.
2201890001102	189ME Cu Be

99 Al Br
Shovel


► Aluminium Bronze



Code	No.
2209900000101	99 Al Br

99 Cu Be
Shovel


► Copper Beryllium



Code	No.
2209900000102	99 Cu Be

99-2 Al Br
Pick


► Aluminium Bronze



Code	No.
2209900001101	99-1 Al Br
2209900002101	99-2 Al Br
2209900003101	99-3 Al Br
2209900004101	99-4 Al Br

99-2 Cu Be
Pick

► Copper Beryllium



Code	No.
2209900001102	99-1 Cu Be
2209900002102	99-2 Cu Be
2209900003102	99-3 Cu Be
2209900004102	99-4 Cu Be

336-EX 35
LED Lamp, Explosion-Proof

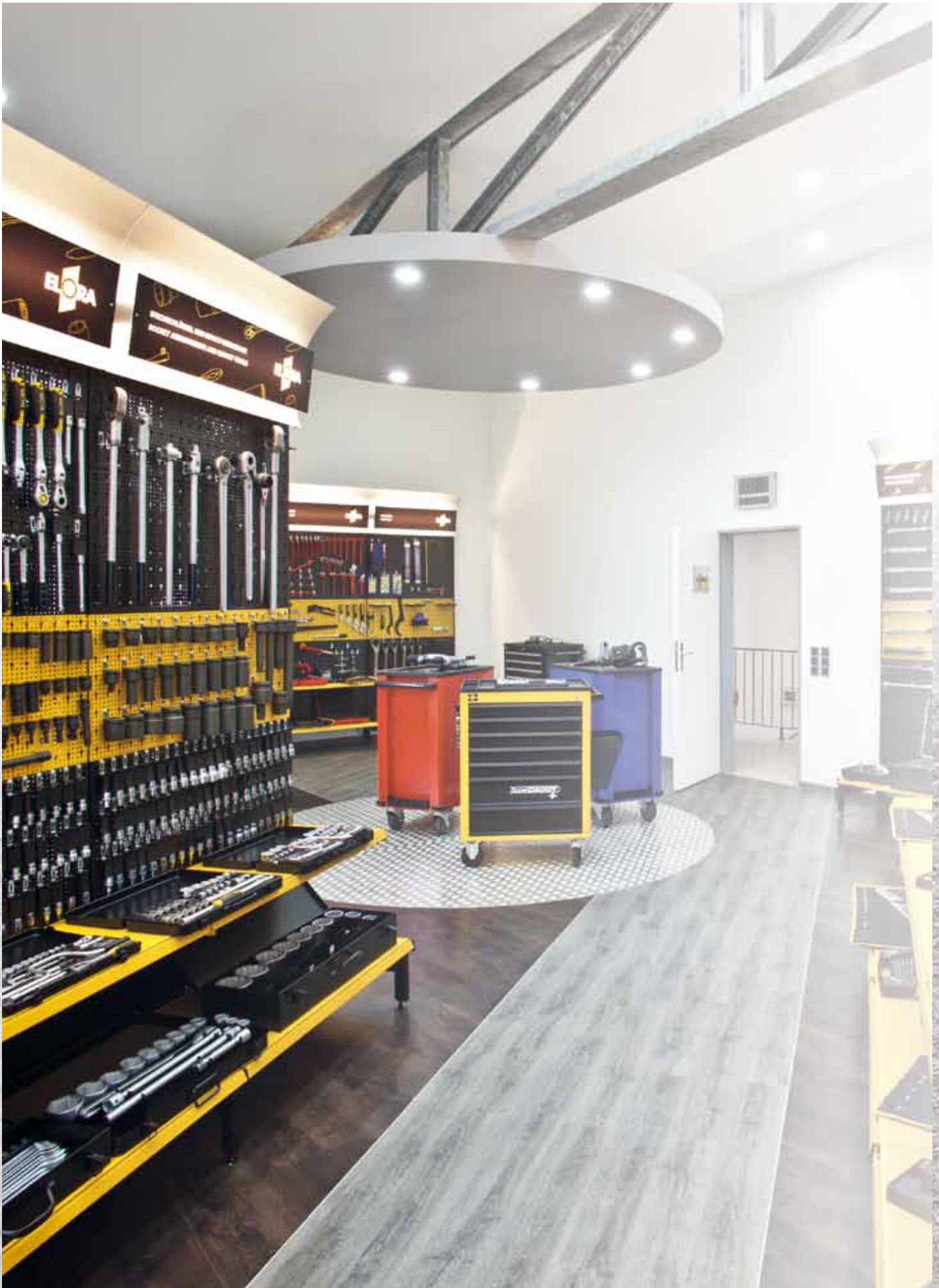


Code	No.
0336000351000	336-EX 35

336-EX 77
LED Lamp, Explosion-Proof



Code	No.
0336000771000	336-EX 77





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