

Safety Tool Catalog



**Non-sparking and Non-magnetic Tools
for Use in Hazardous Environments
and ATEX and Ex Zones**

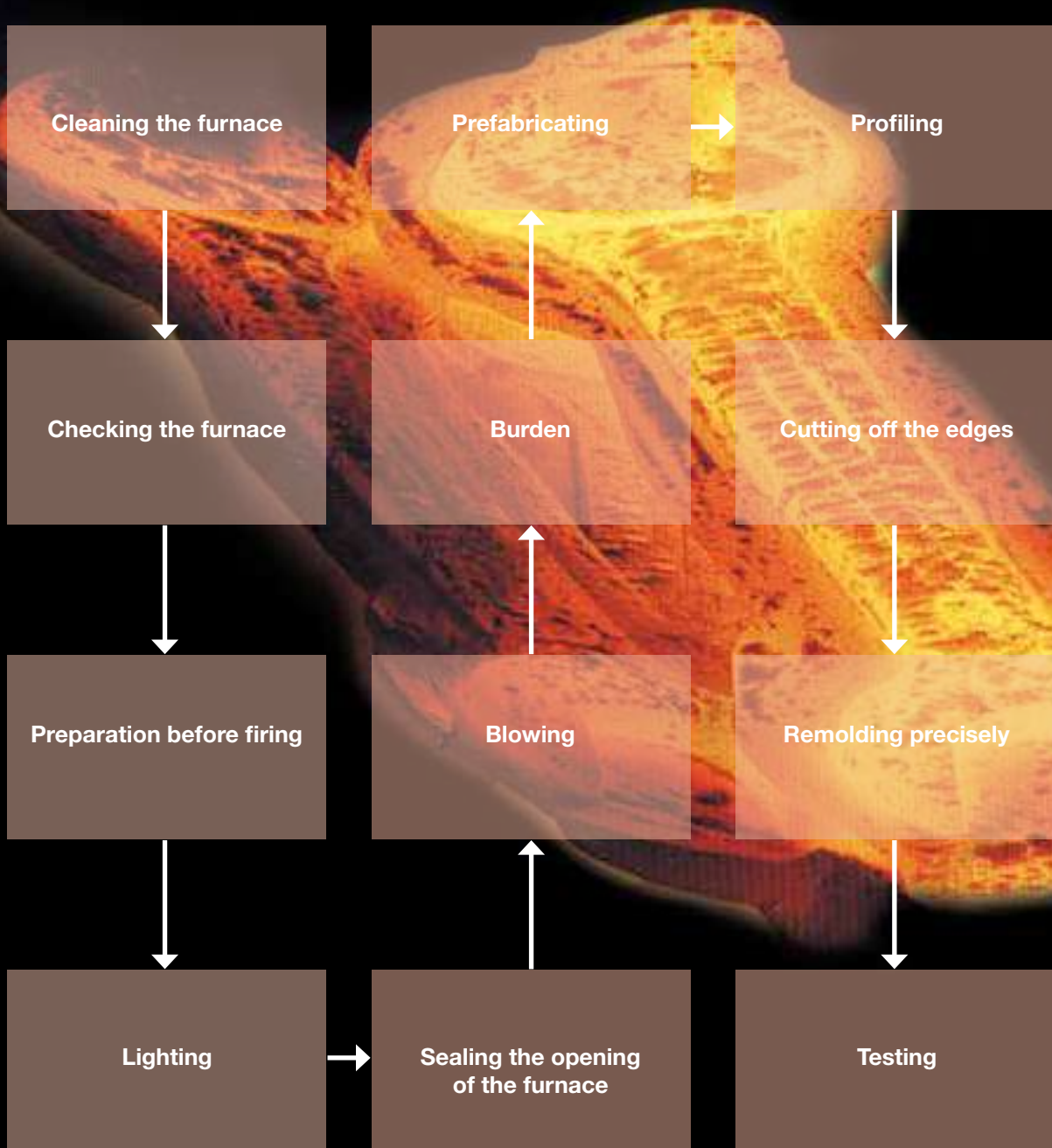


UNITEC Safety Tools

Make your workplace safer...
with the right tools

Non-Sparking Safety Tools
Aluminum Bronze (AlBr) or
Copper Beryllium (CuBe₂)

Advanced forging technology ensures the high quality and refined appearance of all our products. The liquid forging technology procedures are as follows:





CS Unitec Non-sparking, Non-magnetic Safety Tools *Aluminum Bronze (AlBr) and Copper Beryllium (CuBe₂)*

CS Unitec's Non-sparking, Non-magnetic Hand Tools are manufactured from special Aluminum-Bronze or Copper-Beryllium alloys for safe use in Ex zones where hazardous, flammable or combustible vapors, liquids, dusts or residues may be present.

Our line of safety tools consists of hammers, flange wedges, striking wrenches, impact sockets, screwdrivers, shovels and other hand tools. They comply with ATEX Directives for Ex Zones 0, 1 and 2 (Flammable Gas, Mists or Vapors); Zones 20, 21 and 22 (Combustible Dusts); and M1 and M2 for mining.

Aluminum Bronze and Copper Beryllium Non-sparking Safety Tools from CS Unitec are specifically designed to eliminate the risk of sparks at sites where explosive atmospheres may be present.

Appropriate applications include oil drilling platforms, petrochemical plants, oil refineries, natural gas installations, ammunition plants, varnish factories, sugar refineries, grain silos, mining and other industries where non-sparking safety tools are required. The non-magnetic feature of these alloys also makes them ideal for working on special machinery with powerful magnets such as MRI machines, military de-mining and explosives.

CS Unitec's safety tools are drop forged for the highest quality in hand tools. These corrosion-resistant tools are suitable for use in shipyards, laboratories, and paper and pulp mills, as well as in the pharmaceutical, food product manufacturing and wine industries.

We also offer ATEX Classified air and hydraulic power tools and other equipment for use in Ex zones. See pages 82-91 for more information.

ATEX 94/9/EC • DNV



CS Unitec's Aluminum Bronze (AlBr) and Copper Beryllium (CuBe₂) tools are also BAM certified.



BAM certifies that the materials used in CS Unitec's Non-sparking tools have met the requirements for and are appropriate for use in potentially explosive atmospheres of zones 0, 1, 2 and/or 20, 21, 22 according to Directive 1999/92/EC of all explosion groups according to IEC 60079-20-1:2010. See page 82 for more information.

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Visit our web site: www.csunitec.com for more information

For Use in Ex Zones and Hazardous Environments

CS Unitec offers a complete line of High-quality Non-sparking, Non-magnetic and Non-corrosive Safety Tools. CS Unitec is a leader in special Copper Alloy Safety Hand Tools manufactured for use in any high-risk area where a spark can create a disaster.

CS Unitec Non-sparking Safety Tools are recommended for use where hazardous, flammable or combustible vapors, liquids, dusts or residues are present and should be used by all industrial safety programs. CS Unitec Non-sparking Safety Tools are an inexpensive investment for your company.

CS Unitec Non-magnetic Safety Tools are tested according to NATO specification STANAG 2897 Annex C, where the magnetic value is measured in Nano Tesla. This enables our Tools to be used around sensitive magnetic equipment, including scanners, de-mining, disarming, etc. Our Tools are NATO stock numbered.

CS Unitec Corrosion-resistant Safety Tools are the ideal choice when working in marine and offshore environments. Corrosion and rust can be extremely dangerous in hazardous environments. Impacts involving rust can initiate a thermal reaction which can cause an ignition in an explosive atmosphere.

It is important that the user of CS Unitec Safety Tools keeps the Tools in clean working order. Like other personal protection equipment, it is each user's duty to inspect the Tools before use.

We offer over 3000 individual Tools made from Special Solid Copper-based Alloys. We manufacture and supply our Safety Tools in two different alloys: Copper-Beryllium Alloy (CuBe₂) and a Special Aluminum-Bronze Alloy (AlBr).

International Regulations for Work in Ex and ATEX zones demand the right equipment. CS Unitec Copper-Beryllium Tools (CuBe₂) fulfill the demand in the ATEX Directive 94/9/EC for work in Zones 0, 1 and 2 (Gas, Mists or Vapors); Zones 20, 21 and 22 (Dusts); and M1 and M2 for mining.

CS Unitec Aluminum-Bronze Tools (AlBr) fulfill the demand in the ATEX Directive 94/9/EC for work in Zones 1 and 2 (Gas, Mists or Vapors), plus Zones 21 and 22 (Dusts).

CS Unitec's Copper-Beryllium Tools (CuBe₂) and Aluminum-Bronze Tools (AlBr) are BAM certified. BAM certifies that the materials

used in CS Unitec's Non-sparking tools have met the requirements for and are appropriate for use in potentially explosive atmospheres of zones 0, 1, 2 and/or 20, 21, 22 according to ATEX Directive 1999/92/EC (ATEX 137) of all explosion groups according to IEC 60079-20-1:2010.

Gas, Mists or Vapors

- Zone 0 - An atmosphere where a mixture of air and flammable substances in the form of gas, vapor or mist is present frequently, continuously or for long periods.
- Zone 1 - An atmosphere where a mixture of air and flammable substances in the form of gas, vapor or mist is likely to occur in normal operation occasionally.
- Zone 2 - An atmosphere where a mixture of air and flammable substances in the form of gas, vapor or mist is not likely to occur in normal operation but, if it does occur, will persist for only a short period.

Dusts

- Zone 20 - An atmosphere where a cloud of combustible dust in the air is present frequently, continuously or for long periods.
- Zone 21 - An atmosphere where a cloud of combustible dust in the air is likely to occur in normal operation occasionally.
- Zone 22 - An atmosphere where a cloud of combustible dust in the air is not likely to occur in normal operation but, if it does occur, will persist for only a short period.

Quality control, testing and customer service are priorities.

The manufacture of our safety tools is ISO9001:2000 certified, and our Tools are recommended and certified by several international organizations such as BVQI, DNV and Force Technologies.

Our Safety Tools are continuously spark-proof tested according to strict test procedure (CST Test).

Because of the heat treatment processes, our Copper-Beryllium Tools (CuBe₂) have a Rockwell C hardness of 38 HRC. CS Unitec Aluminum-Bronze Tools have a Rockwell C Hardness of 27 HRC.

All CS Unitec Safety Tools have a lifetime warranty against breakage or performance failure under normal use.

All Box/Ring Ended CS Unitec Safety Tools are manufactured with a Round Corner.

CS Unitec's Round Corner design prevents damage to the bolt head and provides very high tensile strength.

All our pliers and screwdrivers have an ergonomic, two-component handle. A unique handle grip design prevents slipping.

Drop-forged construction ensures high strength and long life. Tools are designed according to DIN Standards.

If you don't see it, ask. CS Unitec offers custom designs upon request.

There is a CS Unitec Safety Tool Kit for any job:

- Socket Sets
- Wall-mounted CS Unitec Tool Kit
- Custom-designed Tool Kit

CAUTION:

Safety standards for grinding Copper-Beryllium Alloys, or for other operations that may generate dust, are established by OSHA and recorded in the Code of Federal Regulations 29 CFR 1910.134 and 1910.1000.

Safety Tools must only be ground or reshaped by companies approved for grinding such material, according to OSHA regulations.

MSDS (Safety Data Sheet) / Bulletin can be provided upon request or can be downloaded from our web site:

www.csunitec.com

For ATEX information, visit:
<http://ec.europa.eu/growth/sectors/mechanical-engineering/atex/>

Safety Tools should not be used in contact with acetylene. Acetylene may react with copper to form explosive acetylides. Tools containing less than fifty percent copper may be used in an acetylene environment. Visit www.csunitec.com for safety information.

CS Unitec offers a complete line of High-Quality Non-Sparking, Non-Magnetic and Corrosion-Resistant Safety Tools. CS Unitec is a leader in special Copper Alloy Safety Hand Tools manufactured for use in high-risk areas where a spark can create a disaster.

Copper-Beryllium Tools (CuBe₂) fulfill the demand in the ATEX Directive 94/9/EC for work in Zones 0, 1 and 2 (Gas, Mists or Vapors); Zones 20, 21 and 22 (Dusts); and M1 and M2 for mining.

Aluminum-Bronze Tools (AlBr) fulfill the demand in the ATEX Directive 94/9/EC for work in Zones 1 and 2 (Gas, Mists or Vapors), plus Zones 21 and 22 (Dusts).

CS Unitec's Aluminum Bronze (AlBr) and Copper Beryllium (CuBe₂) tools are also BAM certified. They have met the requirements of BAM Standard operating procedure and are appropriate for use in potentially explosive atmospheres of zones 0, 1, 2 and/or 20, 21, 22 according to Directive 1999/92/EC of all explosion groups according to IEC 60079-20-1:2010.

Choosing the Correct Alloy for Your Application

| | Aluminum-Bronze (AlBr) Alloy | Copper-Beryllium (CuBe₂) Alloy |
|----------------------------|--|---|
| Zone Compatibility | Fulfill demand in ATEX Directive 94/9/EC for work in Zones 1, 2, 21 and 22 | Fulfill demand in ATEX Directive 94/9/EC for work in Zones 0, 1, 2, 20, 21 and 22 |
| Hardness | 27 HRC | 38 HRC |
| Durability | Not as durable as CuBe ₂ . | Very durable due to high hardness and tensile strength. |
| Magnetic Properties | Low magnetism due to minimal ferrous components. Appropriate for non-critical non-magnetic applications. | Non-ferrous components; safer for applications demanding non-magnetic properties. |
| Composition | Al: 10.3% Ni: 4.5% Cu: Balance Fe: 4.5% Other: 0.5% | Be: 1.9% Other: 0.5% Co + Ni: 0.4% Cu: Balance |

Caution: User must follow all appropriate safety regulations when choosing a tool for their particular working environment.

The following industries should use CS Unitec Safety Tools because of their Non-sparking properties:

Manufacturing Industries:

- Alcohol Industries
- Ammunition, Missile & Explosives Plants
- Automotive Plants
- Breweries & Distilleries
- Chemical Manufacturing
- Flammable Materials Manufacturing
- Flour Mills
- Furniture Manufacturers (Varnish & Painting)
- Gas Plants
- Glue Factories
- Ink Industries
- Liquefied Petroleum Gases (LPG)
- Mining
- Nuclear Products
- Oil & Natural Gas Drilling, Refining & Handling
- Paint, Lacquer & Varnish Products
- Paper and Pulp Mills
- Petrochemicals
- Petroleum Refining
- Pharmaceutical Industries
- Pipeline Construction & Maintenance
- Plastic Manufacturing
- Sugar Mills
- Synthetic Fiber Manufacturing
- Wine Industries

Transportation Industries and their Maintenance, Cleaning & Service Companies:

- Airports
- Railroads
- Shipyards
- Tankers
- Tanker Trucks
- Vessels
- Workboats

Government Agencies:

- Aircraft & Missile Plants
- Airport (Refueling & Maintenance Operations)
- Armed Forces (Army, Navy, Air Force, Marine Corps, Coast Guard & Civil Support Units)
- Chemical, Biological, Radiological, Nuclear or Explosives Logistical Support Operational Equipment
- Fire Departments, Military Bases
- First Responders to Weapons of Mass Destruction, Firefighters, Public Safety Bomb Squads & Local Rescue Squads
- Hazardous Materials Handling & Clean-up
- Munitions Depots
- Nuclear Production & Waste
- Public Utilities: Gas, Electric & Telecommunication
- Waste Management
- Water Treatment Facilities

Other Industries:

- Cleaning & Spraying Operations
- Confined Space Maintenance
- Explosive & Pyrotechnics
- Geophysical Exploration
- Grain Storage & Handling
- Hazardous Material Handling
- Maintenance & Service Operations
- Paint Spraying, Finishing & Booth Operations
- Packing Plants
- Propane Distributors & Bulk Plants
- Warehousing of all Hazardous Materials

The following industries should use CS Unitec Safety Tools because of their Non-Magnetic properties:

- Aircraft Maintenance & Overhaul
- Aluminum & Other Metal Smelting
- Electronics Manufacturers
- Hospitals & Clinics Magnetic Resonance Imaging (MRI)
- MRI Maintenance
- Mine Sweepers
- Nuclear Products & Testing Machines
- Precision Magnetic Equipment
- Public Utilities: Gas, Electric & Telephone
- Radar Transmission Centers

The following industries should use CS Unitec Safety Tools because of their Corrosion-resistant properties:

- Boat Owners
- Chemical Manufacturing
- Desalinization Plants
- Food Product Manufacturing
- Laboratories
- Paper & Pulp Mills
- Petrochemicals
- Pharmaceutical Industry
- Plastic Manufacturing
- Shipyards
- Tankers, Vessels & Other Work Boats
- Wine Industry

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 - Hammers now provided with Nupla™ handles.
Twice as strong as fiberglass and 10 times stronger than wood.
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Drop forging ensures long tool life.



When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex101U-0025A

or

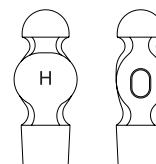
Ex101U-0025B

Hammer, Ball Peen Ex101U

Hammer, Cross Peen Engineers' Ex102U

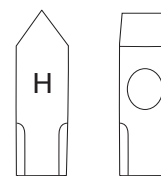
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Hammer, Sledge Ex104U



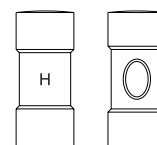
Ex101U Hammer, Ball Peen w/Nupla Handle

| No. | Ex101U-0025 | Ex101U-0075 | Ex101U-0100 | Ex101U-0150 | Ex101U-0200 | Ex101U-0225 | Ex101U-0275 |
|---------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|
| H lbs. | 0.25 | 0.75 | 1.00 | 1.50 | 2.00 | 2.25 | 2.75 |
| H kg | 0.12 | 0.34 | 0.46 | 0.68 | 0.91 | 1.02 | 1.25 |
| Handle length | 10"/250mm | 13.75"/350mm | 13.75"/350mm | 14"/360mm | 14"/360mm | 14"/360mm | 14"/360mm |



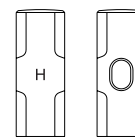
Ex102U Hammer, Cross Peen Engineers' w/Nupla Handle

| No. | Ex102U-0150 | Ex102U-0250 | Ex102U-0350 |
|---------------|-------------|-------------|-------------|
| H lbs. | 1.50 | 2.50 | 3.50 |
| H kg | 0.68 | 1.14 | 1.59 |
| Handle length | 14"/355mm | 15"/380mm | 15"/380mm |



Ex103U Hammer, Double-face Machinists' w/Nupla Handle

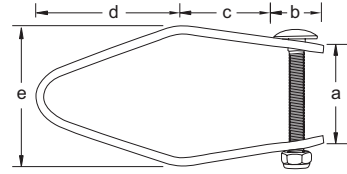
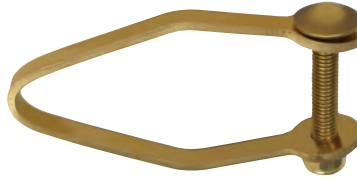
| No. | Ex103U-0025 | Ex103U-0150 | Ex103U-0175 | Ex103U-0200 |
|---------------|-------------|--------------|--------------|--------------|
| H lbs. | 0.25 | 1.50 | 1.75 | 2.00 |
| H kg | 0.12 | 0.68 | 0.80 | 0.91 |
| Handle length | 10"/250mm | 14.25"/360mm | 14.25"/360mm | 14.25"/360mm |



Ex104U Hammer, Sledge w/Nupla Handle

| No. | Ex104U-0200 | Ex104U-0300 | Ex104U-0400 | Ex104U-0500 | Ex104U-0750 | Ex104-1000 | Ex104-1200 | Ex104-1500 | Ex104-1800 | Ex104-2200 |
|---------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|
| H lbs. | 2.00 | 3.00 | 4.00 | 5.00 | 7.50 | 10.00 | 12.00 | 15.00 | 18.00 | 22.00 |
| H kg | 0.91 | 1.36 | 1.81 | 2.27 | 3.4 | 4.54 | 5.44 | 6.80 | 8.17 | 9.98 |
| Handle length | 9.75"/245mm | 13"/330mm | 13"/330mm | 33"/840mm | 33"/840mm | 33"/840mm | 33"/840mm | 33"/840mm | 33"/840mm | 33"/840mm |

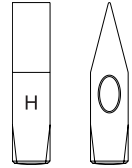
Hammer handle appearance may vary from photos shown.



Ex100
Brass Shackles for Drop Protection

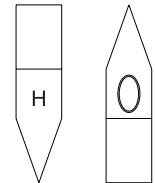
Brass alloy

| No. | | a mm | b mm | c mm | d mm | e mm | kg |
|--------------|------------------------------------|------|------|------|------|------|------|
| Ex100M6-20BR | <i>For hammers under 5 lbs.</i> | 40 | 20 | 35 | 60 | 50 | 0.03 |
| Ex100M8-22BR | <i>For hammers 5 lbs. and over</i> | 40 | 22 | 35 | 60 | 50 | 0.03 |



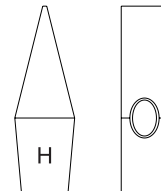
Ex105U
Hammer, Cutoff w/Nupla Handle

| No. | Ex105U-0300 | Ex105U-0500 |
|---------------|-------------|-------------|
| H lbs. | 3.00 | 5.00 |
| H kg | 1.36 | 2.27 |
| Handle length | 15"/380mm | 15"/380mm |



Ex106U
Hammer, Scaling w/Nupla Handle

| No. | Ex106U-0100 | Ex106U-0150 | Ex106U-0300 |
|---------------|-------------|-------------|-------------|
| H lbs. | 1.00 | 1.50 | 3.00 |
| H kg | .46 | .68 | 1.36 |
| Handle length | 10"/255mm | 10"/255mm | 15"/380mm |



Ex107
Wedge, Stone w/Nupla Handle

| No. | Ex107-1000 |
|---------------|--------------|
| H lbs. | 2.20 |
| H kg | 1.0 |
| Handle length | 13.75"/350mm |

Hammer handle appearance may vary from photos shown.

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

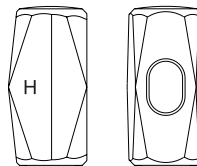
Example: Ex108U-0200A

or

Ex108U-0200B

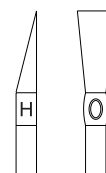
Hammer, Club Ex108U
 Hammer, Bricklayers' Ex112U
 Crate Opener Ex113S
 Hammer, Plastic Ex121

Ex108U Hammer, Club w/Nupla Handle



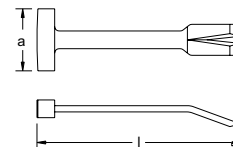
| No. | Ex108U-0200 | Ex108U-0400 | Ex108U-0700 |
|---------------|-------------|-------------|-------------|
| H lbs. | 2.00 | 4.00 | 7.00 |
| H kg | 0.91 | 1.82 | 3.15 |
| Handle length | 8"/203mm | 8"/203mm | 33"/840mm |

Ex112U Hammer, Bricklayers' w/Nupla Handle



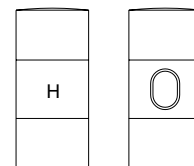
| No. | Ex112U-0150 |
|---------------|--------------|
| H lbs. | 1.50 |
| H kg | 0.68 |
| Handle length | 14.25"/360mm |

Ex113S Crate Opener



| No. | a inch | l inch | Wt. lbs. | a mm | l mm | kg |
|------------|--------|--------|----------|------|------|------|
| Ex113S-230 | 2-3/4 | 9-3/16 | 1.12 | 70 | 230 | 0.51 |

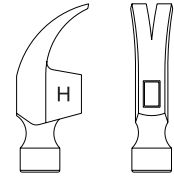
Ex121 Hammer, Plastic w/Nupla Handle



| No. | Ex121-0100 | Ex121-0220 |
|---------------|------------|------------|
| H lbs. | 1.0 | 2.20 |
| H kg | 0.45 | 1.0 |
| Handle length | 14"/355mm | 14"/355mm |

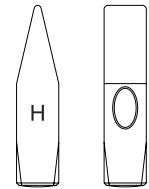
Hammer handle appearance may vary from photos shown.

**Ex122U
 Hammer, Claw
 w/Nupla Handle**



| No. | Ex122U-0075 | Ex122U-0100 | Ex122U-0125 |
|---------------|--------------|--------------|--------------|
| H lbs. | 0.75 | 1.00 | 1.25 |
| H kg | 0.34 | 0.46 | 0.57 |
| Handle length | 14.25"/360mm | 14.25"/360mm | 14.25"/360mm |

**Ex1041
 Hammer, Cross Peen
 Engineers' /Blacksmiths'
 w/Nupla Handle**



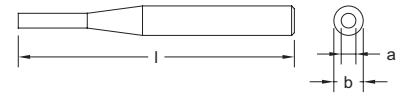
| No. | Ex1041-0100 | Ex1041-0200 | Ex1041-0300 | Ex1041-0500 | Ex1041-0800 | Ex1041-1000 | Ex1041-1500 | Ex1041-2000 |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| H lbs. | 0.22 | 0.44 | 0.66 | 1.10 | 1.76 | 2.20 | 3.31 | 4.41 |
| H kg | 0.10 | 0.20 | 0.30 | 0.50 | 0.80 | 1.00 | 1.50 | 2.00 |
| Handle length | 9.75"/250mm | 9.75"/250mm | 14"/355mm | 14"/355mm | 14"/355mm | 14"/355mm | 15"/380mm | 15"/380mm |

Hammer handle appearance may vary from photos shown.

PUNCHES

**Ex301P
 Punch, Pin**

Copper Beryllium (CuBe) only



| No. | a inch | b inch | l inch | Wt. lbs. |
|--------------|--------|--------|--------|----------|
| Ex301P-005UB | 7/128 | 3/8 | 4-3/8 | 0.10 |
| Ex301P-010UB | 9/128 | 3/8 | 4-3/8 | 0.10 |
| Ex301P-015UB | 1/16 | 3/8 | 6 | 0.16 |
| Ex301P-020UB | 3/32 | 3/8 | 4-3/8 | 0.10 |
| Ex301P-025UB | 7/64 | 3/8 | 4-3/8 | 0.11 |
| Ex301P-030UB | 1/8 | 3/8 | 6 | 0.15 |
| Ex301P-035UB | 3/16 | 3/8 | 6 | 0.15 |
| Ex301P-040UB | 1/4 | 3/8 | 6 | 0.16 |
| Ex301P-045UB | 5/16 | 7/16 | 6 | 0.25 |
| Ex301P-050UB | 3/8 | 9/16 | 6 | 0.35 |

| No. | a mm | b mm | l mm | kg |
|-------------|------|------|------|------|
| Ex301P-1.4B | 1.4 | 10 | 110 | 0.05 |
| Ex301P-1.8B | 1.8 | 10 | 110 | 0.05 |
| Ex301P-2B | 2 | 10 | 150 | 0.07 |
| Ex301P-2.4B | 2.4 | 10 | 110 | 0.05 |
| Ex301P-2.8B | 2.8 | 10 | 110 | 0.05 |
| Ex301P-3B | 3 | 10 | 150 | 0.07 |
| Ex301P-4B | 4 | 10 | 150 | 0.07 |
| Ex301P-5B | 5 | 10 | 150 | 0.07 |
| Ex301P-6B | 6 | 10 | 150 | 0.07 |
| Ex301P-7B | 7 | 12 | 150 | 0.11 |
| Ex301P-8B | 8 | 12 | 150 | 0.11 |
| Ex301P-10B | 10 | 14 | 150 | 0.16 |

When ordering, specify:

A = Aluminum Bronze

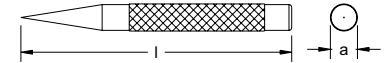
B = Copper Beryllium

Example: Ex303-005UA

or

Ex303-005UB

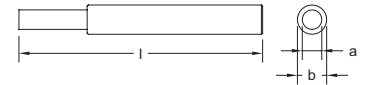
Ex303 Punch, Center



| No. | a inch | l inch | Wt. lbs. |
|------------|--------|---------|----------|
| Ex303-005U | 3/8 | 4 | 0.11 |
| Ex303-010U | 7/16 | 6 | 0.25 |
| Ex303-015U | 15/16 | 9-9/16 | 1.58 |
| Ex303-020U | 1 | 10-3/8 | 1.95 |
| Ex303-025U | 1-1/8 | 11-3/16 | 2.45 |
| Ex303-030U | 1-3/16 | 12 | 2.95 |
| Ex303-035U | 1-1/4 | 12-3/4 | 3.60 |

| No. | a mm | l mm | ⚖ kg |
|-----------|------|------|------|
| Ex303-100 | 10 | 100 | 0.05 |
| Ex303-150 | 12 | 150 | 0.11 |
| Ex303-240 | 24 | 240 | 0.72 |
| Ex303-280 | 28 | 280 | 1.11 |

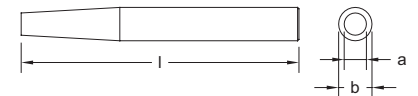
Ex301 Drift, Cylindrical *Copper Beryllium (CuBe) only*



| No. | a inch | b inch | l inch | Wt. lbs. |
|-------------|--------|--------|--------|----------|
| Ex301-005UB | 1/8 | 3/8 | 4-3/8 | 0.11 |
| Ex301-010UB | 1/4 | 7/16 | 4-3/8 | 0.18 |
| Ex301-015UB | 5/16 | 9/16 | 4-3/4 | 0.26 |
| Ex301-020UB | 3/8 | 5/8 | 5-3/4 | 0.43 |
| Ex301-025UB | 7/16 | 11/16 | 6-3/8 | 0.62 |
| Ex301-030UB | 9/16 | 3/4 | 7-3/16 | 0.87 |
| Ex301-035UB | 5/8 | 15/16 | 8 | 1.37 |
| Ex301-040UB | 11/16 | 1-3/16 | 9 | 2.32 |
| Ex301-045UB | 3/4 | 1-1/4 | 9 | 2.67 |
| Ex301-050UB | 1-1/4 | 1-9/16 | 10 | 5.15 |

| No. | a mm | b mm | l mm | ⚖ kg |
|-----------|------|------|------|------|
| Ex301-4B | 4 | 10 | 110 | 0.05 |
| Ex301-6B | 6 | 12 | 115 | 0.08 |
| Ex301-7B | 7 | 14 | 120 | 0.12 |
| Ex301-8B | 8 | 14 | 120 | 0.12 |
| Ex301-10B | 10 | 16 | 145 | 0.20 |
| Ex301-12B | 12 | 18 | 160 | 0.28 |
| Ex301-14B | 14 | 20 | 180 | 0.40 |
| Ex301-16B | 16 | 24 | 200 | 0.62 |
| Ex301-18B | 18 | 30 | 225 | 1.05 |
| Ex301-20B | 20 | 32 | 225 | 1.21 |
| Ex301-32B | 32 | 40 | 250 | 2.34 |

Ex301C Drift Pin, Straight Type



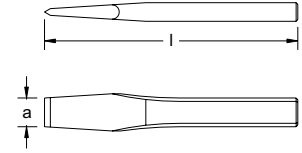
| No. | a inch | b inch | l inch | Wt. lbs. |
|---------------|--------|--------|--------|----------|
| Ex301C-005U** | 1/16 | 3/8 | 6 | 0.17 |
| Ex301C-010U** | 1/8 | 3/8 | 6 | 0.18 |
| Ex301C-015U | 3/16 | 3/8 | 6 | 0.19 |
| Ex301C-020U | 1/4 | 3/8 | 6 | 0.19 |
| Ex301C-025U | 5/16 | 7/16 | 6 | 0.28 |
| Ex301C-030U | 3/8 | 9/16 | 6 | 0.38 |
| Ex301C-035U | 7/16 | 5/8 | 6 | 0.51 |
| Ex301C-040U | 1/2 | 11/16 | 6 | 0.65 |
| Ex301C-045U | 9/16 | 11/16 | 6 | 0.66 |
| Ex301C-050U | 5/8 | 3/4 | 8 | 1.10 |
| Ex301C-055U | 11/16 | 7/8 | 8 | 1.32 |
| Ex301C-060U | 3/4 | 15/16 | 10 | 1.97 |
| Ex301C-065U | 13/16 | 1 | 10 | 2.32 |
| Ex301C-070U | 7/8 | 1 | 10 | 2.35 |
| Ex301C-075U | 15/16 | 1-1/16 | 10 | 2.50 |
| Ex301C-085U | 1-1/16 | 1-1/4 | 11 | 3.23 |
| Ex301C-095U | 1-3/16 | 1-5/16 | 11 | 3.40 |

| No. | a mm | b mm | l mm | ⚖ kg |
|--------------|------|------|------|------|
| Ex301C-1.5** | 1.5 | 10 | 150 | 0.08 |
| Ex301C-2** | 2 | 10 | 150 | 0.08 |
| Ex301C-3** | 3 | 10 | 150 | 0.08 |
| Ex301C-4** | 4 | 10 | 150 | 0.08 |
| Ex301C-5 | 5 | 10 | 150 | 0.08 |
| Ex301C-6 | 6 | 10 | 150 | 0.09 |
| Ex301C-7 | 7 | 12 | 150 | 0.13 |
| Ex301C-8 | 8 | 12 | 150 | 0.13 |
| Ex301C-9 | 9 | 14 | 150 | 0.17 |
| Ex301C-10 | 10 | 14 | 150 | 0.18 |
| Ex301C-11 | 11 | 16 | 150 | 0.23 |
| Ex301C-12 | 12 | 16 | 150 | 0.23 |
| Ex301C-13 | 13 | 18 | 150 | 0.29 |
| Ex301C-14 | 14 | 18 | 150 | 0.30 |
| Ex301C-15 | 15 | 20 | 200 | 0.49 |
| Ex301C-16 | 16 | 20 | 200 | 0.50 |
| Ex301C-17 | 17 | 22 | 200 | 0.60 |
| Ex301C-18 | 18 | 22 | 200 | 0.61 |
| Ex301C-19 | 19 | 24 | 250 | 0.89 |
| Ex301C-20 | 20 | 24 | 250 | 0.91 |
| Ex301C-21 | 21 | 26 | 250 | 1.05 |
| Ex301C-22 | 22 | 26 | 250 | 1.07 |

** *Copper Beryllium (CuBe) only*

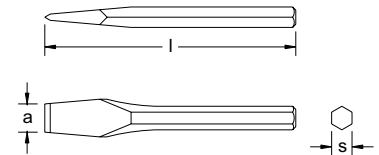
CHISELS

**Ex304
Chisel, Hand**



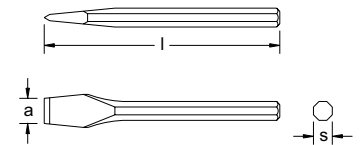
| No. | a inch | l inch | Wt. lbs. | a mm | l mm | kg |
|-----------|-----------|-----------|-------------|---------|---------|------|
| Ex304-100 | 9/16 | 4 | 0.20 | 14 | 100 | 0.09 |
| Ex304-125 | 9/16 | 5 | 0.26 | 14 | 125 | 0.12 |
| Ex304-150 | 11/16 | 6 | 0.45 | 17 | 150 | 0.20 |
| Ex304-175 | 3/4 | 7 | 0.68 | 20 | 175 | 0.31 |
| Ex304-200 | 7/8 | 8 | 0.90 | 22 | 200 | 0.41 |
| Ex304-250 | 15/16 | 10 | 1.28 | 24 | 250 | 0.58 |
| Ex304-300 | 15/16 | 12 | 1.52 | 24 | 300 | 0.69 |
| Ex304-400 | 1-1/16 | 16 | 2.71 | 27 | 400 | 1.23 |

**Ex304A
Chisel, 6-Point**



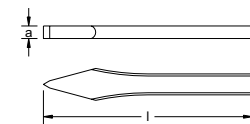
| No. | a inch | s inch | l inch | Wt. lbs. | a mm | s mm | l mm | kg |
|------------|-----------|-----------|-----------|-------------|---------|---------|---------|------|
| Ex304A-300 | 5/8 | 9/16 | 12 | 0.95 | 16 | 14 | 300 | 0.43 |

**Ex304S
Chisel, 8-Point**



| No. | a inch | s inch | l inch | Wt. lbs. | a mm | s mm | l mm | kg |
|------------|-----------|-----------|-----------|-------------|---------|---------|---------|------|
| Ex304S-300 | 1 | 11/16 | 12 | 1.48 | 26 | 18 | 300 | 0.67 |

**Ex305
Chisel, Cape**



| No. | a inch | l inch | Wt. lbs. | a mm | l mm | kg |
|-----------|-----------|-----------|-------------|---------|---------|------|
| Ex305-150 | 7/16 | 6 | 0.51 | 11 | 150 | 0.23 |
| Ex305-200 | 7/16 | 8 | 0.81 | 12 | 200 | 0.37 |
| Ex305-300 | 9/16 | 12 | 1.68 | 14 | 300 | 0.76 |

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

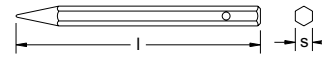
Example: Ex306-200A

or

Ex306-200B

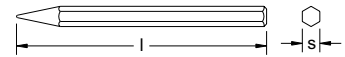
Chisel, Bull Point Ex306
 Chisel, Diamond Point Ex307
 Chisel, Pneumatic Ex309AH
 Chisel, Pneumatic Ex310AH
 Chisel, Scaling Ex312

Ex306
Chisel, Bull Point



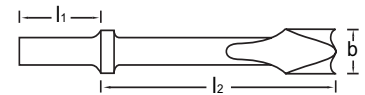
| No. | s inch | l inch | Wt. lbs. | S mm | l mm | kg |
|-----------|-----------|-----------|-------------|---------|---------|------|
| Ex306-200 | 9/16 | 8 | 0.57 | 14 | 200 | 0.26 |
| Ex306-250 | 5/8 | 10 | 0.94 | 16 | 250 | 0.43 |
| Ex306-300 | 11/16 | 12 | 1.43 | 18 | 300 | 0.65 |
| Ex306-400 | 3/4 | 16 | 2.40 | 20 | 400 | 1.09 |

Ex307
Chisel, Diamond Point



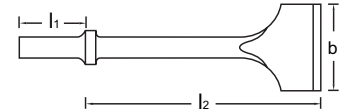
| No. | s inch | l inch | Wt. lbs. | s mm | l mm | kg |
|-----------|-----------|-----------|-------------|---------|---------|------|
| Ex307-200 | 9/16 | 8 | 0.58 | 14 | 200 | 0.26 |
| Ex307-250 | 5/8 | 10 | 0.94 | 16 | 250 | 0.43 |
| Ex307-300 | 11/16 | 12 | 1.44 | 18 | 300 | 0.65 |
| Ex307-400 | 3/4 | 16 | 2.41 | 20 | 400 | 1.09 |

Ex309AH
Chisel, Pneumatic



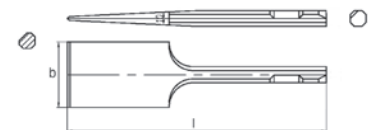
| No. | b inch | l ₁ inch | l ₂ inch | Wt. lbs. | b mm | kg | Shank |
|------------|-----------|------------------------|------------------------|-------------|---------|------|--------------------------------|
| Ex309AH-20 | 13/16 | 1-9/16 | 4-1/2 | 0.40 | 21 | 0.18 | .401 round collar, round shank |

Ex310AH
Chisel, Pneumatic



| No. | b inch | l ₁ inch | l ₂ inch | Wt. lbs. | b mm | kg | Shank |
|------------|-----------|------------------------|------------------------|-------------|---------|------|--------------------------------|
| Ex310AH-32 | 1-1/4 | 1-1/2 | 5-5/8 | 0.49 | 32 | 0.22 | .401 round collar, round shank |
| Ex310AH-50 | 2 | 1-1/2 | 5-5/8 | 0.49 | 50 | 0.22 | .401 round collar, round shank |

Ex312
Chisel, Scaling



| No. | b inch | l inch | Wt. lbs. | b mm | l mm | kg | Shank |
|-----------|-----------|-----------|-------------|---------|---------|------|--------------------------------------|
| Ex312-25 | 1 | 4-15/16 | 0.30 | 25 | 125 | 0.14 | Weld flux 1/2" quarter octagon stock |
| Ex312-50 | 2 | 4-15/16 | 0.35 | 50 | 125 | 0.16 | Weld flux 1/2" quarter octagon stock |
| Ex312L-25 | 1 | 7-7/8 | 0.35 | 25 | 200 | 0.16 | Weld flux 1/2" quarter octagon stock |
| Ex312L-50 | 2 | 7-7/8 | 0.70 | 50 | 200 | 0.32 | Weld flux 1/2" quarter octagon stock |

Chisel, Chipping Hammer Ex314
 Chisel, Paving Breaker Ex318F
 Chisel, Bull Point Ex318R
 Chisel, Paving Breaker Ex320F
 Chisel, Bull Point Ex320R

When ordering, specify:

A = Aluminum Bronze

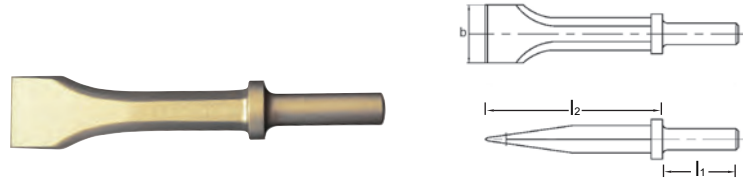
B = Copper Beryllium

Example: Ex314-40A

or

Ex314-40B

**Ex314
Chisel, Chipping Hammer**



| No. | b inch | l ₁ inch | l ₂ inch | Wt. lbs. | b mm | kg | Shank |
|----------|--------|---------------------|---------------------|----------|------|------|--------------------------------|
| Ex314-40 | 1-1/2 | 5-5/8 | 2-7/16 | 0.90 | 40 | 0.41 | .680 round collar, round shank |
| Ex314-65 | 2-3/8 | 5-5/8 | 2-7/16 | 1.40 | 60 | 0.64 | .680 round collar, round shank |

**Ex318F
Chisel, Paving Breaker**



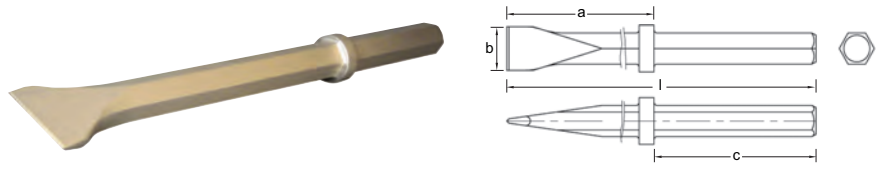
| No. | b inch | l inch | a inch | c inch | Wt. lbs. | b mm | l mm | kg | Shank |
|-----------|--------|----------|----------|--------|----------|------|------|------|------------|
| Ex318F-75 | 3 | 18-13/16 | 12-13/16 | 6 | 5.75 | 75 | 478 | 2.60 | 1-1/8" Hex |

**Ex318R
Chisel, Bull Point**



| No. | l inch | a inch | c inch | Wt. lbs. | l mm | kg | Shank |
|-----------|---------|---------|--------|----------|------|------|------------|
| Ex318R-14 | 19-5/16 | 13-5/16 | 6 | 6 | 490 | 2.72 | 1-1/8" Hex |

**Ex320F
Chisel, Paving Breaker**



| No. | b inch | l inch | a inch | c inch | Wt. lbs. | b mm | l mm | kg | Shank |
|-----------|--------|----------|----------|--------|----------|------|------|------|------------|
| Ex320F-75 | 3 | 18-15/16 | 12-15/16 | 6 | 5.50 | 75 | 481 | 2.50 | 1-1/4" Hex |

**Ex320R
Chisel, Bull Point**



| No. | l inch | a inch | c inch | Wt. lbs. | l mm | kg | Shank |
|-----------|--------|--------|--------|----------|------|------|------------|
| Ex320R-14 | 19-1/4 | 13-1/4 | 6 | 7 | 489 | 3.18 | 1-1/4" Hex |

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex340-100A

or

Ex340-100B

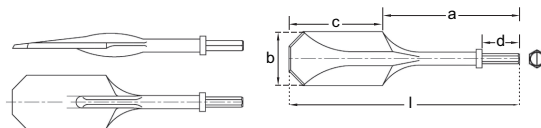
Chisel, Clay Spade Ex340

Chisel, Scaling Ex380SH

Wedge, Flange with Lanyard Hole Ex1101U

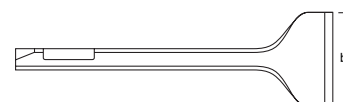
Wedge, Banana with Lanyard Hole Ex1101BH

Ex340 Chisel, Clay Spade



| No. | b inch | l inch | a inch | c inch | d inch | Wt. lbs. | b mm | l mm | kg | Shank |
|-----------|-----------|-----------|-----------|-----------|-----------|-------------|---------|---------|------|--------|
| Ex340-100 | 4-1/2 | 16 | 11 | 5 | 4 | 9 | 114 | 406 | 4.08 | 1" Hex |

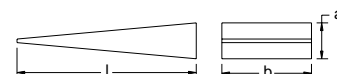
Ex380SH Chisel, Scaling



| No. | b inch | Wt. lbs. | b mm | kg | Shank |
|------------|-----------|-------------|---------|------|--------------------------------------|
| Ex380SH-50 | 2 | 0.49 | 50 | 0.22 | Weld flux 1/2" quarter octagon stock |

WEDGES

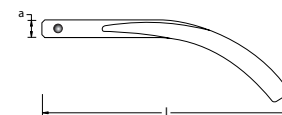
Ex1101U Wedge, Flange with Lanyard Hole



| No. | a inch | b inch | l inch | Wt. lbs. |
|------------|-----------|-----------|-----------|-------------|
| Ex1101U-1 | 1/4 | 1/2 | 3 | 0.04 |
| Ex1101U-2 | 1/2 | 3/4 | 4 | 0.18 |
| Ex1101U-3 | 1/2 | 1 | 6 | 0.42 |
| Ex1101U-4 | 3/4 | 1-1/2 | 6 | 0.92 |
| Ex1101U-5 | 1/2 | 1-1/4 | 7 | 0.64 |
| Ex1101U-6 | 3/4 | 2 | 7 | 1.56 |
| Ex1101U-7 | 1-5/8 | 1-1/2 | 8 | 2.50 |
| Ex1101U-8 | 1 | 1-1/2 | 8 | 1.72 |
| Ex1101U-9 | 3/4 | 2 | 8 | 1.66 |
| Ex1101U-10 | 1-1/4 | 2 | 8 | 2.96 |
| Ex1101U-11 | 3/8 | 2 | 7 | 1.20 |
| Ex1101U-12 | 3/8 | 2 | 3-9/16 | 0.40 |
| Ex1101U-14 | 3/4 | 1-1/2 | 9 | 2.19 |

Ex1101BH Wedge, Banana with Lanyard Hole

Copper Beryllium (CuBe) only



| No. | a inch | l inch | Wt. lbs. |
|--------------|-----------|-----------|-------------|
| Ex1101BH-20B | 3/4 | 12 | 1.6 |

Tightening Tools



Wrenches – pages 19-30

Pipe Wrenches – pages 31- 32

Ratchets – pages 33

Socket Wrenches – pages 34-37

Sockets:

- Standard (1/4", 3/8", 1/2", 3/4" and 1" drive) – pages 38-40
- Standard Deep (1/4", 3/8", 1/2", 3/4" and 1" drive) – pages 41-44
- Impact (3/8", 1/2", 3/4", 1" and 1-1/2" drive) – pages 44-46
- Deep Impact (3/8", 1/2", 3/4", 1" and 1-1/2" drive) – pages 47-49
- Special Extended Depth 4-Point and 6-Point (1/2", 3/4" and 1" drive) – Available upon request

Allen Keys – page 50

Wheel Wrenches – page 51

Pliers – pages 52-53

Screwdrivers – pages 54-55

When ordering, specify:

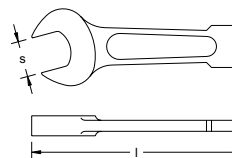
A = Aluminum Bronze

B = Copper Beryllium

Example: Ex200-010UA

or

Ex200-010UB



Ex200 Wrench, Striking, Open End

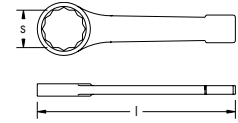
| No. | s inch | l inch | Wt. lbs. |
|------------|-----------|-----------|-------------|
| Ex200-010U | 11/16 | 5-9/16 | 0.40 |
| Ex200-015U | 3/4 | 5-9/16 | 0.42 |
| Ex200-020U | 7/8 | 6 | 0.57 |
| Ex200-025U | 15/16 | 6-3/8 | 0.73 |
| Ex200-030U | 1 | 7-3/16 | 0.95 |
| Ex200-035U | 1-1/16 | 7-3/16 | 0.95 |
| Ex200-040U | 1-1/8 | 7-3/16 | 0.95 |
| Ex200-045U | 1-3/16 | 7-9/16 | 1.17 |
| Ex200-050U | 1-1/4 | 7-9/16 | 1.17 |
| Ex200-055U | 1-5/16 | 7-3/4 | 1.28 |
| Ex200-060U | 1-3/8 | 8-3/8 | 1.87 |
| Ex200-065U | 1-7/16 | 8-3/8 | 1.87 |
| Ex200-070U | 1-1/2 | 8-3/8 | 2.16 |
| Ex200-075U | 1-9/16 | 9 | 2.20 |
| Ex200-080U | 1-5/8 | 9 | 2.29 |
| Ex200-085U | 1-11/16 | 9 | 2.43 |
| Ex200-090U | 1-3/4 | 9 | 2.81 |
| Ex200-095U | 1-13/16 | 9 | 3.26 |
| Ex200-100U | 1-7/8 | 11 | 3.52 |
| Ex200-105U | 2 | 11-3/16 | 3.77 |
| Ex200-110U | 2-1/16 | 11-3/16 | 4.85 |
| Ex200-115U | 2-1/8 | 12-1/4 | 4.85 |
| Ex200-120U | 2-3/16 | 12-3/8 | 4.85 |
| Ex200-125U | 2-1/4 | 12-3/8 | 4.85 |
| Ex200-130U | 2-5/16 | 12-3/4 | 6.08 |
| Ex200-135U | 2-3/8 | 12-3/4 | 6.08 |
| Ex200-140U | 2-7/16 | 14 | 9.61 |
| Ex200-145U | 2-1/2 | 14 | 9.61 |
| Ex200-150U | 2-9/16 | 14 | 9.61 |
| Ex200-155U | 2-5/8 | 15 | 10.69 |
| Ex200-160U | 2-3/4 | 15 | 10.69 |
| Ex200-165U | 2-13/16 | 15 | 10.69 |
| Ex200-170U | 2-15/16 | 15-3/4 | 12.26 |
| Ex200-175U | 3 | 15-3/4 | 12.26 |
| Ex200-180U | 3-1/8 | 15-3/4 | 12.26 |
| Ex200-185U | 3-1/4 | 16-9/16 | 14.33 |
| Ex200-190U | 3-3/8 | 16-9/16 | 14.33 |
| Ex200-195U | 3-1/2 | 16-9/16 | 14.33 |
| Ex200-200U | 3-5/8 | 18 | 17.86 |
| Ex200-205U | 3-3/4 | 18 | 17.86 |
| Ex200-210U | 3-7/8 | 18 | 17.86 |

| No. | s mm | l mm | kg |
|-----------|---------|---------|------|
| Ex200-17 | 17 | 140 | 0.18 |
| Ex200-18 | 18 | 140 | 0.18 |
| Ex200-19 | 19 | 140 | 0.19 |
| Ex200-22 | 22 | 150 | 0.26 |
| Ex200-24 | 24 | 160 | 0.33 |
| Ex200-26 | 26 | 180 | 0.43 |
| Ex200-27 | 27 | 180 | 0.43 |
| Ex200-28 | 28 | 180 | 0.43 |
| Ex200-29 | 29 | 190 | 0.53 |
| Ex200-30 | 30 | 190 | 0.53 |
| Ex200-32 | 32 | 195 | 0.58 |
| Ex200-35 | 35 | 210 | 0.85 |
| Ex200-36 | 36 | 210 | 0.85 |
| Ex200-37 | 37 | 210 | 0.85 |
| Ex200-38 | 38 | 225 | 0.98 |
| Ex200-41 | 41 | 225 | 1.04 |
| Ex200-42 | 42 | 225 | 1.10 |
| Ex200-46 | 46 | 255 | 1.48 |
| Ex200-50 | 50 | 280 | 1.71 |
| Ex200-52 | 52 | 280 | 2.20 |
| Ex200-55 | 55 | 310 | 2.20 |
| Ex200-56 | 56 | 310 | 2.20 |
| Ex200-60 | 60 | 320 | 2.76 |
| Ex200-63 | 63 | 350 | 4.36 |
| Ex200-65 | 65 | 350 | 4.36 |
| Ex200-70 | 70 | 375 | 4.85 |
| Ex200-75 | 75 | 395 | 5.56 |
| Ex200-80 | 80 | 410 | 6.20 |
| Ex200-85 | 85 | 415 | 6.50 |
| Ex200-90 | 90 | 435 | 7.45 |
| Ex200-95 | 95 | 450 | 8.10 |
| Ex200-100 | 100 | 485 | 9.90 |
| Ex200-105 | 105 | 485 | 9.90 |
| Ex200-110 | 110 | 510 | 19.5 |
| Ex200-115 | 115 | 510 | 19.5 |
| Ex200-120 | 120 | 545 | 23.0 |
| Ex200-125 | 125 | 545 | 23.0 |
| Ex200-130 | 130 | 575 | 28.0 |
| Ex200-135 | 135 | 575 | 28.0 |
| Ex200-145 | 145 | 640 | 38.0 |
| Ex200-150 | 150 | 640 | 38.0 |

TIGHTENING

Additional sizes available. See our website for a complete list.

Ex201
Wrench, Box End, Single
12-Point



TIGHTENING

| No. | s inch | l inch | Wt. lbs. |
|------------|-----------|-----------|-------------|
| Ex201-005U | 1/2 | 7 | 0.33 |
| Ex201-010U | 9/16 | 7 | 0.33 |
| Ex201-015U | 19/32 | 7 | 0.33 |
| Ex201-020U | 5/8 | 7 | 0.33 |
| Ex201-025U | 11/16 | 7-1/16 | 0.33 |
| Ex201-030U | 3/4 | 7-3/8 | 0.55 |
| Ex201-035U | 25/32 | 8 | 0.82 |
| Ex201-040U | 13/16 | 8 | 0.82 |
| Ex201-045U | 7/8 | 8 | 0.82 |
| Ex201-050U | 15/16 | 8-3/8 | 1.10 |
| Ex201-055U | 31/32 | 8-3/8 | 1.10 |
| Ex201-060U | 1 | 8-3/8 | 1.10 |
| Ex201-065U | 1-1/16 | 8-3/8 | 1.10 |
| Ex201-070U | 1-1/8 | 8-3/8 | 1.39 |
| Ex201-075U | 1-3/16 | 8-3/8 | 1.39 |
| Ex201-080U | 1-1/4 | 8-9/16 | 1.52 |
| Ex201-085U | 1-5/16 | 9 | 1.74 |
| Ex201-090U | 1-3/8 | 9 | 1.74 |
| Ex201-095U | 1-7/16 | 9 | 1.74 |
| Ex201-100U | 1-1/2 | 9 | 1.74 |
| Ex201-105U | 1-9/16 | 9-9/16 | 2.36 |
| Ex201-110U | 1-5/8 | 9-9/16 | 2.36 |
| Ex201-115U | 1-11/16 | 10-3/16 | 2.43 |
| Ex201-120U | 1-3/4 | 10-3/16 | 2.43 |
| Ex201-125U | 1-13/16 | 10-3/16 | 2.43 |
| Ex201-130U | 1-7/8 | 10-3/16 | 2.43 |
| Ex201-135U | 2 | 10-9/16 | 2.49 |
| Ex201-140U | 2-1/16 | 11-3/16 | 2.91 |
| Ex201-145U | 2-1/8 | 11-3/16 | 2.91 |
| Ex201-150U | 2-3/16 | 11-3/16 | 2.91 |
| Ex201-155U | 2-1/4 | 11-9/16 | 3.24 |
| Ex201-160U | 2-5/16 | 11-9/16 | 3.24 |
| Ex201-165U | 2-3/8 | 11-9/16 | 3.24 |
| Ex201-170U | 2-7/16 | 12-9/16 | 4.21 |
| Ex201-175U | 2-1/2 | 12-9/16 | 4.21 |
| Ex201-180U | 2-9/16 | 12-9/16 | 4.21 |

| No. | s mm | l mm | kg |
|----------|---------|---------|------|
| Ex201-14 | 14 | 177 | 0.15 |
| Ex201-15 | 15 | 177 | 0.15 |
| Ex201-16 | 16 | 177 | 0.15 |
| Ex201-17 | 17 | 185 | 0.15 |
| Ex201-18 | 18 | 185 | 0.25 |
| Ex201-19 | 19 | 200 | 0.25 |
| Ex201-20 | 20 | 200 | 0.37 |
| Ex201-21 | 21 | 200 | 0.37 |
| Ex201-22 | 22 | 200 | 0.37 |
| Ex201-23 | 23 | 210 | 0.50 |
| Ex201-24 | 24 | 210 | 0.50 |
| Ex201-25 | 25 | 210 | 0.50 |
| Ex201-26 | 26 | 210 | 0.50 |
| Ex201-27 | 27 | 210 | 0.50 |
| Ex201-28 | 28 | 210 | 0.63 |
| Ex201-29 | 29 | 210 | 0.63 |
| Ex201-30 | 30 | 210 | 0.63 |
| Ex201-32 | 32 | 215 | 0.69 |
| Ex201-33 | 33 | 225 | 0.79 |
| Ex201-34 | 34 | 225 | 0.79 |
| Ex201-35 | 35 | 225 | 0.79 |
| Ex201-36 | 36 | 225 | 0.79 |
| Ex201-37 | 37 | 240 | 1.07 |
| Ex201-38 | 38 | 240 | 1.07 |
| Ex201-41 | 41 | 240 | 1.07 |
| Ex201-42 | 42 | 240 | 1.07 |
| Ex201-46 | 46 | 255 | 1.10 |
| Ex201-47 | 47 | 265 | 1.13 |
| Ex201-50 | 50 | 265 | 1.13 |
| Ex201-52 | 52 | 280 | 1.32 |
| Ex201-54 | 54 | 280 | 1.32 |
| Ex201-55 | 55 | 280 | 1.32 |
| Ex201-56 | 56 | 280 | 1.32 |
| Ex201-58 | 58 | 290 | 1.47 |
| Ex201-60 | 60 | 290 | 1.47 |
| Ex201-63 | 63 | 315 | 1.91 |

When ordering, specify:

A = Aluminum Bronze

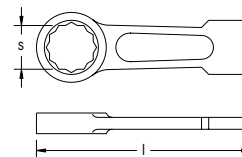
B = Copper Beryllium

Example: Ex201B-001UA

or

Ex201B-001UB

Ex201B
Wrench, Striking, Box
12-Point (DIN 7444)

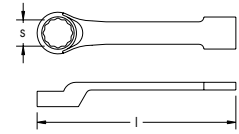


| No. | s inch | l inch | Wt. lbs. |
|-------------|-----------|-----------|-------------|
| Ex201B-001U | 1/2 | 5-9/16 | 0.40 |
| Ex201B-002U | 9/16 | 5-9/16 | 0.40 |
| Ex201B-003U | 5/8 | 5-9/16 | 0.40 |
| Ex201B-005U | 11/16 | 5-9/16 | 0.40 |
| Ex201B-010U | 3/4 | 5-9/16 | 0.40 |
| Ex201B-015U | 7/8 | 6-3/8 | 0.49 |
| Ex201B-017U | 15/16 | 6-3/8 | 0.60 |
| Ex201B-020U | 1 | 6-3/8 | 0.60 |
| Ex201B-025U | 1-1/16 | 7-3/16 | 0.77 |
| Ex201B-030U | 1-1/8 | 7-3/16 | 0.77 |
| Ex201B-035U | 1-3/16 | 7-9/16 | 1.12 |
| Ex201B-040U | 1-1/4 | 7-9/16 | 1.12 |
| Ex201B-045U | 1-5/16 | 7-3/4 | 1.17 |
| Ex201B-050U | 1-3/8 | 8-3/16 | 1.23 |
| Ex201B-055U | 1-7/16 | 8-3/16 | 1.23 |
| Ex201B-060U | 1-1/2 | 9 | 1.79 |
| Ex201B-065U | 1-9/16 | 9 | 1.79 |
| Ex201B-070U | 1-5/8 | 9 | 1.79 |
| Ex201B-075U | 1-11/16 | 9 | 1.79 |
| Ex201B-080U | 1-3/4 | 9-9/16 | 2.71 |
| Ex201B-085U | 1-13/16 | 9-9/16 | 2.71 |
| Ex201B-090U | 1-7/8 | 9-9/16 | 2.71 |
| Ex201B-093U | 1-15/16 | 10 | 2.87 |
| Ex201B-095U | 2 | 10 | 2.87 |
| Ex201B-100U | 2-1/16 | 10 | 3.77 |
| Ex201B-105U | 2-1/8 | 10 | 3.77 |
| Ex201B-110U | 2-3/16 | 10-3/4 | 3.77 |
| Ex201B-115U | 2-1/4 | 10-3/4 | 4.02 |
| Ex201B-120U | 2-5/16 | 10-3/4 | 4.02 |
| Ex201B-125U | 2-3/8 | 10-3/4 | 4.25 |
| Ex201B-130U | 2-7/16 | 11-9/16 | 4.45 |
| Ex201B-135U | 2-1/2 | 11-9/16 | 4.45 |
| Ex201B-140U | 2-9/16 | 11-9/16 | 4.45 |
| Ex201B-145U | 2-5/8 | 12-3/4 | 6.13 |
| Ex201B-150U | 2-3/4 | 12-3/4 | 6.13 |
| Ex201B-155U | 2-13/16 | 13-3/8 | 6.44 |
| Ex201B-157U | 2-7/8 | 13-3/8 | 6.44 |
| Ex201B-160U | 2-15/16 | 13-3/8 | 6.44 |
| Ex201B-165U | 3 | 13-3/8 | 6.44 |
| Ex201B-167U | 3-1/16 | 13-3/4 | 7.23 |
| Ex201B-170U | 3-1/8 | 13-3/4 | 7.23 |
| Ex201B-175U | 3-1/4 | 13-3/4 | 7.23 |
| Ex201B-180U | 3-3/8 | 14 | 9.24 |
| Ex201B-185U | 3-1/2 | 15 | 11.42 |
| Ex201B-190U | 3-5/8 | 15 | 11.42 |
| Ex201B-195U | 3-3/4 | 15-3/8 | 11.60 |
| Ex201B-200U | 3-7/8 | 16-3/8 | 13.89 |
| Ex201B-205U | 4 | 16-3/8 | 13.89 |
| Ex201B-210U | 4-1/8 | 16-9/16 | 14.66 |

| No. | s mm | l mm | kg |
|------------|---------|---------|------|
| Ex201B-17 | 17 | 140 | 0.18 |
| Ex201B-18 | 18 | 140 | 0.18 |
| Ex201B-19 | 19 | 140 | 0.18 |
| Ex201B-20 | 20 | 160 | 0.22 |
| Ex201B-21 | 21 | 160 | 0.22 |
| Ex201B-22 | 22 | 160 | 0.22 |
| Ex201B-23 | 23 | 160 | 0.22 |
| Ex201B-24 | 24 | 160 | 0.27 |
| Ex201B-25 | 25 | 160 | 0.27 |
| Ex201B-26 | 26 | 180 | 0.35 |
| Ex201B-27 | 27 | 180 | 0.35 |
| Ex201B-28 | 28 | 180 | 0.35 |
| Ex201B-29 | 29 | 190 | 0.51 |
| Ex201B-30 | 30 | 190 | 0.51 |
| Ex201B-31 | 31 | 190 | 0.51 |
| Ex201B-32 | 32 | 195 | 0.53 |
| Ex201B-33 | 33 | 195 | 0.53 |
| Ex201B-34 | 34 | 205 | 0.56 |
| Ex201B-35 | 35 | 205 | 0.56 |
| Ex201B-36 | 36 | 205 | 0.56 |
| Ex201B-37 | 37 | 205 | 0.56 |
| Ex201B-38 | 38 | 225 | 0.81 |
| Ex201B-41 | 41 | 225 | 0.81 |
| Ex201B-42 | 42 | 225 | 0.81 |
| Ex201B-46 | 46 | 240 | 1.23 |
| Ex201B-47 | 47 | 240 | 1.23 |
| Ex201B-50 | 50 | 250 | 1.30 |
| Ex201B-52 | 52 | 250 | 1.71 |
| Ex201B-55 | 55 | 270 | 1.71 |
| Ex201B-60 | 60 | 270 | 1.93 |
| Ex201B-65 | 65 | 290 | 2.02 |
| Ex201B-70 | 70 | 320 | 2.78 |
| Ex201B-75 | 75 | 335 | 2.92 |
| Ex201B-80 | 80 | 340 | 3.28 |
| Ex201B-85 | 85 | 345 | 4.19 |
| Ex201B-90 | 90 | 375 | 5.18 |
| Ex201B-95 | 95 | 380 | 5.26 |
| Ex201B-100 | 100 | 405 | 6.30 |
| Ex201B-105 | 105 | 410 | 6.65 |

TIGHTENING

**Additional sizes available.
See our website for
a complete list.**

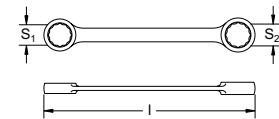


Ex201F
Wrench, Striking, Box, Offset
 12-Point

| No. | s inch | l inch | Wt. lbs. |
|-------------|-----------|-----------|-------------|
| Ex201F-003U | 7/8 | 10-3/4 | 1.65 |
| Ex201F-004U | 1 | 10-3/4 | 1.65 |
| Ex201F-005U | 1-1/16 | 10-3/4 | 1.65 |
| Ex201F-007U | 1-1/8 | 10-3/4 | 1.81 |
| Ex201F-010U | 1-3/16 | 10-3/4 | 1.81 |
| Ex201F-015U | 1-1/4 | 10-3/4 | 1.81 |
| Ex201F-017U | 1-5/16 | 11-3/16 | 2.87 |
| Ex201F-018U | 1-3/8 | 11-3/16 | 2.87 |
| Ex201F-020U | 1-7/16 | 11-3/16 | 2.87 |
| Ex201F-022U | 1-1/2 | 12-3/8 | 2.98 |
| Ex201F-025U | 1-5/8 | 12-3/8 | 2.98 |
| Ex201F-027U | 1-11/16 | 12-3/8 | 2.98 |
| Ex201F-028U | 1-3/4 | 12-3/4 | 4.19 |
| Ex201F-030U | 1-13/16 | 12-3/4 | 4.19 |
| Ex201F-032U | 1-7/8 | 13-3/16 | 4.67 |
| Ex201F-035U | 2 | 13-3/16 | 4.67 |
| Ex201F-040U | 2-3/16 | 13-9/16 | 5.56 |
| Ex201F-045U | 2-3/8 | 14-3/16 | 6.64 |
| Ex201F-050U | 2-9/16 | 15-3/16 | 7.83 |
| Ex201F-055U | 2-3/4 | 16 | 9.48 |

| No. | s mm | l mm | ⚖️ kg |
|-----------|---------|---------|----------|
| Ex201F-27 | 27 | 245 | 0.75 |
| Ex201F-30 | 30 | 270 | 0.82 |
| Ex201F-32 | 32 | 270 | 0.82 |
| Ex201F-36 | 36 | 280 | 1.30 |
| Ex201F-41 | 41 | 310 | 1.35 |
| Ex201F-46 | 46 | 320 | 1.90 |
| Ex201F-50 | 50 | 330 | 2.12 |
| Ex201F-55 | 55 | 340 | 2.52 |
| Ex201F-60 | 60 | 355 | 3.01 |
| Ex201F-65 | 65 | 380 | 3.55 |
| Ex201F-70 | 70 | 400 | 4.30 |

Ex202
Wrench, Box End, Double
 Straight Type, 12-Point



| No. | S ₁ x S ₂ inch | l inch | Wt. lbs. |
|------------|---|-----------|-------------|
| Ex202-005U | 7/32 x 1/4 | 3-3/4 | 0.09 |
| Ex202-010U | 1/4 x 5/16 | 3-3/4 | 0.09 |
| Ex202-015U | 5/16 x 3/8 | 3-3/4 | 0.09 |
| Ex202-020U | 3/8 x 7/16 | 5-3/16 | 0.21 |
| Ex202-030U | 7/16 x 9/16 | 5-3/16 | 0.21 |
| Ex202-040U | 1/2 x 5/8 | 5-3/16 | 0.23 |
| Ex202-045U | 1/2 x 19/32 | 5-3/16 | 0.23 |
| Ex202-055U | 9/16 x 11/16 | 6 | 0.31 |
| Ex202-065U | 5/8 x 25/32 | 6 | 0.31 |
| Ex202-070U | 11/16 x 3/4 | 6 | 0.31 |
| Ex202-080U | 3/4 x 7/8 | 7-3/8 | 0.40 |
| Ex202-090U | 13/16 x 15/16 | 7-3/8 | 0.40 |
| Ex202-095U | 7/8 x 15/16 | 7-9/16 | 0.49 |
| Ex202-120U | 15/16 x 1-1/16 | 8-3/4 | 0.64 |
| Ex202-125U | 1 x 1-1/8 | 8-3/4 | 0.64 |
| Ex202-135U | 1-1/16 x 1-3/16 | 10-3/4 | 0.93 |
| Ex202-150U | 1-3/16 x 1-1/4 | 10-3/4 | 1.06 |
| Ex202-160U | 1-1/4 x 1-7/16 | 12-3/16 | 1.32 |
| Ex202-165U | 1-7/16 x 1-5/8 | 12-3/16 | 1.32 |

| No. | S ₁ x S ₂ mm | l mm | ⚖️ kg |
|-------------|---------------------------------------|---------|----------|
| Ex202-6-7 | 6 x 7 | 80 | 0.03 |
| Ex202-8-10 | 8 x 10 | 95 | 0.04 |
| Ex202-9-11 | 9 x 11 | 105 | 0.06 |
| Ex202-12-14 | 12 x 14 | 130 | 0.10 |
| Ex202-13-15 | 13 x 15 | 130 | 0.10 |
| Ex202-14-15 | 14 x 15 | 130 | 0.09 |
| Ex202-14-17 | 14 x 17 | 150 | 0.14 |
| Ex202-16-17 | 16 x 17 | 150 | 0.14 |
| Ex202-16-18 | 16 x 18 | 150 | 0.14 |
| Ex202-17-19 | 17 x 19 | 150 | 0.14 |
| Ex202-19-22 | 19 x 22 | 185 | 0.18 |
| Ex202-21-23 | 21 x 23 | 190 | 0.22 |
| Ex202-22-24 | 22 x 24 | 190 | 0.22 |
| Ex202-24-27 | 24 x 27 | 220 | 0.29 |
| Ex202-25-28 | 25 x 28 | 270 | 0.42 |
| Ex202-27-30 | 27 x 30 | 270 | 0.42 |
| Ex202-30-32 | 30 x 32 | 270 | 0.48 |
| Ex202-32-36 | 32 x 36 | 305 | 0.60 |

When ordering, specify:

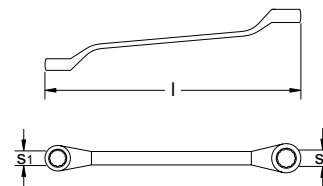
A = Aluminum Bronze

B = Copper Beryllium

Example: Ex202F-005UA

or

Ex202F-005UB



Ex202F

Wrench, Box End, Double

Offset Type, 12-Point

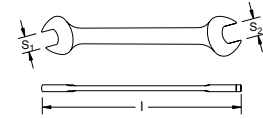
| No. | S ₁ x S ₂ inch | l inch | Wt. lbs. |
|-------------|---|-----------|-------------|
| Ex202F-005U | 7/32 x 1/4 | 4-3/4 | 0.06 |
| Ex202F-010U | 1/4 x 9/32 | 4-3/4 | 0.07 |
| Ex202F-015U | 1/4 x 5/16 | 5-3/16 | 0.07 |
| Ex202F-020U | 1/4 x 3/8 | 5-3/16 | 0.09 |
| Ex202F-025U | 5/16 x 3/8 | 5-3/16 | 0.10 |
| Ex202F-030U | 3/8 x 7/16 | 5-3/16 | 0.18 |
| Ex202F-035U | 3/8 x 9/16 | 7-3/16 | 0.18 |
| Ex202F-040U | 7/16 x 1/2 | 7-3/16 | 0.22 |
| Ex202F-045U | 7/16 x 9/16 | 7-3/16 | 0.22 |
| Ex202F-050U | 1/2 x 9/16 | 7-3/16 | 0.22 |
| Ex202F-055U | 1/2 x 19/32 | 7-3/16 | 0.22 |
| Ex202F-060U | 9/16 x 5/8 | 8-3/4 | 0.33 |
| Ex202F-065U | 5/8 x 11/16 | 8-3/4 | 0.44 |
| Ex202F-070U | 5/8 x 3/4 | 8-3/4 | 0.44 |
| Ex202F-075U | 11/16 x 3/4 | 10 | 0.49 |
| Ex202F-080U | 11/16 x 25/32 | 10 | 0.49 |
| Ex202F-085U | 11/16 x 7/8 | 11-3/16 | 0.62 |
| Ex202F-090U | 3/4 x 13/16 | 11-3/16 | 0.62 |
| Ex202F-095U | 3/4 x 7/8 | 11-3/16 | 0.62 |
| Ex202F-100U | 3/4 x 15/16 | 12-3/8 | 0.93 |
| Ex202F-105U | 13/16 x 7/8 | 12-3/8 | 0.93 |
| Ex202F-110U | 7/8 x 15/16 | 12-3/8 | 0.93 |
| Ex202F-115U | 7/8 x 31/32 | 12-3/8 | 0.93 |
| Ex202F-120U | 7/8 x 1 | 12-3/8 | 0.93 |
| Ex202F-125U | 7/8 x 1-1/16 | 13-9/16 | 1.17 |
| Ex202F-130U | 15/16 x 1 | 13-9/16 | 1.17 |
| Ex202F-135U | 15/16 x 1-1/16 | 13-9/16 | 1.10 |
| Ex202F-140U | 15/16 x 1-3/16 | 14-3/8 | 1.19 |
| Ex202F-145U | 1 x 1-1/16 | 13-9/16 | 1.17 |
| Ex202F-150U | 1 x 1-1/8 | 13-9/16 | 1.17 |
| Ex202F-155U | 1-1/16 x 1-1/8 | 14-3/8 | 1.21 |
| Ex202F-160U | 1-1/16 x 1-1/4 | 15-3/16 | 1.59 |
| Ex202F-165U | 1-1/8 x 1-5/16 | 15-3/16 | 1.59 |
| Ex202F-170U | 1-3/16 x 1-1/4 | 15-3/16 | 1.59 |
| Ex202F-175U | 1-3/16 x 1-7/16 | 16-3/4 | 2.18 |
| Ex202F-180U | 1-1/4 x 1-5/16 | 16-3/4 | 2.18 |
| Ex202F-185U | 1-1/4 x 1-7/16 | 16-3/4 | 2.18 |
| Ex202F-190U | 1-7/16 x 1-5/8 | 18-3/16 | 2.18 |
| Ex202F-195U | 1-5/8 x 1-13/16 | 18-3/4 | 3.53 |
| Ex202F-200U | 1-13/16 x 2 | 19-9/16 | 4.59 |
| Ex202F-205U | 2 x 2-3/16 | 20-3/8 | 5.56 |

| No. | S ₁ x S ₂ mm | l mm | kg |
|--------------|---------------------------------------|---------|------|
| Ex202F-6-7 | 6 x 7 | 120 | 0.03 |
| Ex202F-7-9 | 7 x 9 | 130 | 0.03 |
| Ex202F-8-9 | 8 x 9 | 130 | 0.04 |
| Ex202F-8-10 | 8 x 10 | 130 | 0.04 |
| Ex202F-9-11 | 9 x 11 | 160 | 0.04 |
| Ex202F-10-11 | 10 x 11 | 160 | 0.08 |
| Ex202F-10-12 | 10 x 12 | 160 | 0.08 |
| Ex202F-10-14 | 10 x 14 | 180 | 0.10 |
| Ex202F-11-12 | 11 x 12 | 180 | 0.10 |
| Ex202F-11-14 | 11 x 14 | 180 | 0.10 |
| Ex202F-12-13 | 12 x 13 | 180 | 0.10 |
| Ex202F-12-14 | 12 x 14 | 180 | 0.10 |
| Ex202F-13-15 | 13 x 15 | 200 | 0.14 |
| Ex202F-14-15 | 14 x 15 | 200 | 0.15 |
| Ex202F-14-17 | 14 x 17 | 220 | 0.15 |
| Ex202F-16-17 | 16 x 17 | 220 | 0.20 |
| Ex202F-16-18 | 16 x 18 | 220 | 0.18 |
| Ex202F-17-19 | 17 x 19 | 220 | 0.22 |
| Ex202F-17-22 | 17 x 22 | 280 | 0.28 |
| Ex202F-18-19 | 18 x 19 | 250 | 0.22 |
| Ex202F-19-22 | 19 x 22 | 280 | 0.28 |
| Ex202F-19-24 | 19 x 24 | 310 | 0.42 |
| Ex202F-20-22 | 20 x 22 | 280 | 0.28 |
| Ex202F-21-23 | 21 x 23 | 310 | 0.42 |
| Ex202F-22-24 | 22 x 24 | 310 | 0.42 |
| Ex202F-22-27 | 22 x 27 | 340 | 0.50 |
| Ex202F-24-26 | 24 x 26 | 340 | 0.50 |
| Ex202F-24-27 | 24 x 27 | 340 | 0.50 |
| Ex202F-24-30 | 24 x 30 | 360 | 0.54 |
| Ex202F-25-28 | 25 x 28 | 340 | 0.53 |
| Ex202F-26-29 | 26 x 29 | 360 | 0.55 |
| Ex202F-27-29 | 27 x 29 | 360 | 0.55 |
| Ex202F-27-30 | 27 x 30 | 360 | 0.55 |
| Ex202F-27-32 | 27 x 32 | 380 | 0.72 |
| Ex202F-30-32 | 30 x 32 | 380 | 0.72 |
| Ex202F-30-36 | 30 x 36 | 420 | 0.99 |
| Ex202F-32-36 | 32 x 36 | 420 | 0.99 |
| Ex202F-34-36 | 34 x 36 | 420 | 0.99 |
| Ex202F-36-41 | 36 x 41 | 455 | 1.28 |
| Ex202F-41-46 | 41 x 46 | 470 | 1.60 |
| Ex202F-46-50 | 46 x 50 | 490 | 2.08 |
| Ex202F-50-55 | 50 x 55 | 510 | 2.52 |

TIGHTENING

Ex203

Wrench, Open End, Double



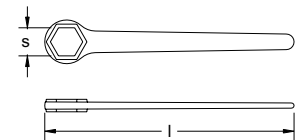
| No. | S ₁ x S ₂ inch | L inch | Wt. lbs. |
|------------|--------------------------------------|--------|----------|
| Ex203-005U | 7/32 x 1/4 | 3-9/16 | 0.07 |
| Ex203-010U | 1/4 x 9/32 | 4 | 0.07 |
| Ex203-015U | 1/4 x 5/16 | 3-9/16 | 0.07 |
| Ex203-020U | 1/4 x 3/8 | 4 | 0.07 |
| Ex203-025U | 5/16 x 3/8 | 4 | 0.09 |
| Ex203-030U | 3/8 x 7/16 | 4-3/4 | 0.13 |
| Ex203-035U | 7/16 x 1/2 | 5-3/16 | 0.14 |
| Ex203-040U | 7/16 x 9/16 | 5-3/16 | 0.14 |
| Ex203-045U | 1/2 x 9/16 | 5-3/8 | 0.22 |
| Ex203-050U | 1/2 x 5/8 | 5-3/8 | 0.31 |
| Ex203-055U | 1/2 x 11/16 | 6 | 0.31 |
| Ex203-060U | 9/16 x 5/8 | 6 | 0.31 |
| Ex203-065U | 9/16 x 11/16 | 6 | 0.31 |
| Ex203-070U | 9/16 x 3/4 | 6-9/16 | 0.31 |
| Ex203-085U | 5/8 x 11/16 | 6-9/16 | 0.31 |
| Ex203-090U | 5/8 x 3/4 | 6-9/16 | 0.42 |
| Ex203-095U | 11/16 x 3/4 | 6-9/16 | 0.42 |
| Ex203-100U | 11/16 x 25/32 | 7-3/16 | 0.42 |
| Ex203-105U | 11/16 x 7/8 | 7-3/16 | 0.51 |
| Ex203-110U | 3/4 x 13/16 | 7-3/16 | 0.51 |
| Ex203-115U | 3/4 x 7/8 | 7-3/16 | 0.51 |
| Ex203-125U | 25/32 x 7/8 | 8-3/8 | 0.57 |
| Ex203-130U | 13/16 x 7/8 | 8-3/8 | 0.57 |
| Ex203-135U | 7/8 x 15/16 | 8-3/8 | 0.64 |
| Ex203-140U | 7/8 x 31/32 | 8-3/8 | 0.64 |
| Ex203-145U | 7/8 x 1 | 9-3/16 | 1.04 |
| Ex203-150U | 15/16 x 1 | 9-3/16 | 1.04 |
| Ex203-155U | 7/8 x 1-1/16 | 9-3/16 | 1.04 |
| Ex203-160U | 15/16 x 1-1/16 | 9-3/16 | 1.04 |
| Ex203-165U | 15/16 x 1-3/16 | 10 | 1.15 |

| No. | S ₁ x S ₂ mm | L mm | kg |
|-------------|------------------------------------|------|------|
| Ex203-6-7 | 6 x 7 | 90 | 0.03 |
| Ex203-6-8 | 6 x 8 | 90 | 0.03 |
| Ex203-7-8 | 7 x 8 | 100 | 0.03 |
| Ex203-7-9 | 7 x 9 | 100 | 0.03 |
| Ex203-8-9 | 8 x 9 | 100 | 0.04 |
| Ex203-8-10 | 8 x 10 | 100 | 0.04 |
| Ex203-9-10 | 9 x 10 | 100 | 0.04 |
| Ex203-9-11 | 9 x 11 | 120 | 0.06 |
| Ex203-10-11 | 10 x 11 | 120 | 0.06 |
| Ex203-10-12 | 10 x 12 | 120 | 0.06 |
| Ex203-11-13 | 11 x 13 | 120 | 0.06 |
| Ex203-12-13 | 12 x 13 | 130 | 0.06 |
| Ex203-12-14 | 12 x 14 | 130 | 0.06 |
| Ex203-13-14 | 13 x 14 | 130 | 0.10 |
| Ex203-13-15 | 13 x 15 | 135 | 0.10 |
| Ex203-14-15 | 14 x 15 | 150 | 0.14 |
| Ex203-14-17 | 14 x 17 | 150 | 0.14 |
| Ex203-16-17 | 16 x 17 | 165 | 0.14 |
| Ex203-16-18 | 16 x 18 | 165 | 0.14 |
| Ex203-17-19 | 17 x 19 | 165 | 0.19 |
| Ex203-17-22 | 17 x 22 | 180 | 0.23 |
| Ex203-18-19 | 18 x 19 | 165 | 0.19 |
| Ex203-18-20 | 18 x 20 | 165 | 0.19 |
| Ex203-19-22 | 19 x 22 | 180 | 0.23 |
| Ex203-19-24 | 19 x 24 | 180 | 0.23 |
| Ex203-20-22 | 20 x 22 | 180 | 0.23 |
| Ex203-21-23 | 21 x 23 | 210 | 0.26 |
| Ex203-22-24 | 22 x 24 | 210 | 0.29 |
| Ex203-22-27 | 22 x 27 | 230 | 0.47 |
| Ex203-23-26 | 23 x 26 | 230 | 0.47 |
| Ex203-24-26 | 24 x 26 | 230 | 0.47 |

Ex204

Wrench, Box End

6-Point



| No. | s inch | L inch | Wt. lbs. |
|------------|---------|--------|----------|
| Ex204-005U | 11/16 | 6-9/16 | 0.26 |
| Ex204-010U | 3/4 | 6-9/16 | 0.42 |
| Ex204-015U | 7/8 | 9-9/16 | 0.71 |
| Ex204-020U | 15/16 | 9-9/16 | 0.71 |
| Ex204-025U | 1 | 9-9/16 | 0.77 |
| Ex204-030U | 1-1/16 | 9-9/16 | 0.84 |
| Ex204-035U | 1-3/16 | 10-3/4 | 1.10 |
| Ex204-040U | 1-1/4 | 10-3/4 | 1.37 |
| Ex204-045U | 1-7/16 | 12-3/8 | 2.43 |
| Ex204-050U | 1-5/8 | 15 | 2.65 |
| Ex204-055U | 1-13/16 | 16-3/8 | 3.75 |
| Ex204-060U | 2 | 16-3/8 | 3.95 |

| No. | s mm | L mm | kg |
|----------|------|------|------|
| Ex204-17 | 17 | 165 | 0.12 |
| Ex204-19 | 19 | 205 | 0.19 |
| Ex204-20 | 20 | 205 | 0.22 |
| Ex204-24 | 24 | 240 | 0.32 |
| Ex204-27 | 27 | 240 | 0.38 |
| Ex204-30 | 30 | 270 | 0.50 |
| Ex204-32 | 32 | 270 | 0.62 |
| Ex204-36 | 36 | 310 | 1.10 |
| Ex204-41 | 41 | 375 | 1.20 |
| Ex204-46 | 46 | 410 | 1.70 |
| Ex204-50 | 50 | 410 | 1.90 |

TIGHTENING

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

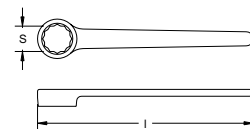
Example: Ex204D-005UA

or

Ex204D-005UB

Ex204D Wrench, Box End

12-Point (DIN 3111)



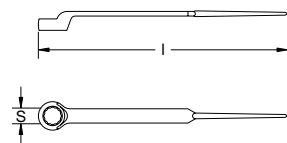
| No. | s inch | l inch | Wt. lbs. |
|-------------|-----------|-----------|-------------|
| Ex204D-005U | 1/2 | 5-1/2 | 0.13 |
| Ex204D-010U | 9/16 | 5-1/2 | 0.13 |
| Ex204D-015U | 19/32 | 5-1/2 | 0.13 |
| Ex204D-020U | 5/8 | 6-3/16 | 0.20 |
| Ex204D-025U | 11/16 | 6-3/16 | 0.20 |
| Ex204D-030U | 3/4 | 6-3/16 | 0.26 |
| Ex204D-035U | 25/32 | 7-9/16 | 0.37 |
| Ex204D-040U | 13/16 | 7-9/16 | 0.37 |
| Ex204D-045U | 7/8 | 7-9/16 | 0.37 |
| Ex204D-050U | 15/16 | 8-9/16 | 0.53 |
| Ex204D-055U | 31/32 | 8-9/16 | 0.53 |
| Ex204D-060U | 1 | 8-9/16 | 0.53 |
| Ex204D-065U | 1-1/16 | 9-3/16 | 0.71 |
| Ex204D-070U | 1-1/8 | 10-1/8 | 0.95 |
| Ex204D-075U | 1-3/16 | 10-1/8 | 0.95 |

| No. | s mm | l mm | Wt. kg |
|-----------|---------|---------|-----------|
| Ex204D-14 | 14 | 138 | 0.06 |
| Ex204D-15 | 15 | 155 | 0.09 |
| Ex204D-16 | 16 | 155 | 0.09 |
| Ex204D-17 | 17 | 155 | 0.09 |
| Ex204D-18 | 18 | 171 | 0.12 |
| Ex204D-19 | 19 | 171 | 0.12 |
| Ex204D-20 | 20 | 190 | 0.17 |
| Ex204D-21 | 21 | 190 | 0.17 |
| Ex204D-22 | 22 | 190 | 0.17 |
| Ex204D-23 | 23 | 215 | 0.24 |
| Ex204D-24 | 24 | 215 | 0.24 |
| Ex204D-25 | 25 | 230 | 0.32 |
| Ex204D-26 | 26 | 230 | 0.32 |
| Ex204D-27 | 27 | 230 | 0.32 |
| Ex204D-28 | 28 | 254 | 0.43 |

TIGHTENING

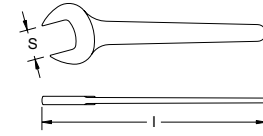
Ex204S Wrench, Construction

With Pin, (Ring End)



| No. | s inch | l inch | Wt. lbs. |
|-------------|-----------|-----------|-------------|
| Ex204S-003U | 13/16 | 14 | 0.86 |
| Ex204S-005U | 7/8 | 14 | 0.86 |
| Ex204S-010U | 15/16 | 14 | 0.86 |
| Ex204S-012U | 1 | 16 | 1.08 |
| Ex204S-015U | 1-1/16 | 16 | 1.08 |
| Ex204S-017U | 1-1/8 | 16 | 1.76 |
| Ex204S-020U | 1-3/16 | 16 | 1.76 |
| Ex204S-025U | 1-1/4 | 16 | 1.72 |
| Ex204S-027U | 1-5/16 | 18 | 2.05 |
| Ex204S-030U | 1-7/16 | 18 | 2.05 |
| Ex204S-035U | 1-1/2 | 18 | 2.05 |
| Ex204S-040U | 1-5/8 | 18 | 3.00 |
| Ex204S-042U | 1-11/16 | 18 | 3.00 |
| Ex204S-045U | 1-13/16 | 20 | 4.54 |
| Ex204S-047U | 1-7/8 | 20 | 4.54 |
| Ex204S-050U | 2 | 22 | 6.15 |

| No. | s mm | l mm | Wt. kg |
|-----------|---------|---------|-----------|
| Ex204S-22 | 22 | 350 | 0.39 |
| Ex204S-24 | 24 | 350 | 0.39 |
| Ex204S-27 | 27 | 400 | 0.49 |
| Ex204S-30 | 30 | 400 | 0.80 |
| Ex204S-32 | 32 | 400 | 0.78 |
| Ex204S-36 | 36 | 450 | 0.93 |
| Ex204S-38 | 38 | 450 | 0.93 |
| Ex204S-41 | 41 | 450 | 1.36 |
| Ex204S-46 | 46 | 500 | 2.06 |
| Ex204S-50 | 50 | 550 | 2.79 |



**Ex205
Wrench, Open End**

TIGHTENING

| No. | s inch | l inch | Wt. lbs. |
|------------|-----------|-----------|-------------|
| Ex205-005U | 1/4 | 3-3/8 | 0.02 |
| Ex205-010U | 5/16 | 3-3/4 | 0.04 |
| Ex205-015U | 11/32 | 4 | 0.06 |
| Ex205-020U | 3/8 | 4-3/16 | 0.09 |
| Ex205-025U | 11/32 | 4-3/8 | 0.10 |
| Ex205-030U | 7/16 | 4-9/16 | 0.11 |
| Ex205-035U | 1/2 | 4-3/4 | 0.13 |
| Ex205-040U | 9/16 | 5 | 0.18 |
| Ex205-045U | 19/32 | 5-1/8 | 0.21 |
| Ex205-050U | 5/8 | 5-3/8 | 0.24 |
| Ex205-055U | 11/16 | 5-9/16 | 0.24 |
| Ex205-060U | 3/4 | 6-3/16 | 0.33 |
| Ex205-065U | 25/32 | 6-5/16 | 0.36 |
| Ex205-070U | 13/16 | 6-15/16 | 0.39 |
| Ex205-075U | 7/8 | 7-3/16 | 0.42 |
| Ex205-080U | 15/16 | 8 | 0.53 |
| Ex205-085U | 31/32 | 8-1/8 | 0.58 |
| Ex205-090U | 1 | 8-3/16 | 0.60 |
| Ex205-095U | 1-1/16 | 9 | 0.73 |
| Ex205-100U | 1-1/8 | 9-1/2 | 0.80 |
| Ex205-105U | 1-3/16 | 10-3/16 | 0.88 |
| Ex205-110U | 1-1/4 | 11 | 1.15 |
| Ex205-115U | 1-5/16 | 11-5/16 | 1.30 |
| Ex205-120U | 1-3/8 | 11-3/4 | 1.46 |
| Ex205-125U | 1-7/16 | 12 | 1.61 |
| Ex205-130U | 1-1/2 | 12-3/8 | 1.74 |
| Ex205-135U | 1-9/16 | 12-7/8 | 2.05 |
| Ex205-140U | 1-5/8 | 13-3/16 | 2.31 |
| Ex205-145U | 1-11/16 | 13-3/4 | 2.46 |
| Ex205-150U | 1-3/4 | 14-3/16 | 2.67 |
| Ex205-155U | 1-13/16 | 14-3/4 | 2.84 |
| Ex205-160U | 1-7/8 | 14-15/16 | 3.24 |
| Ex205-162U | 1-15/16 | 15-3/8 | 3.81 |
| Ex205-165U | 2 | 15-3/16 | 3.81 |
| Ex205-170U | 2-1/16 | 15-3/8 | 4.23 |
| Ex205-175U | 2-1/8 | 15-3/4 | 4.65 |
| Ex205-180U | 2-3/16 | 16 | 5.07 |
| Ex205-185U | 2-1/4 | 16-3/16 | 5.50 |

| No. | s mm | l mm | ⚖ kg |
|----------|---------|---------|---------|
| Ex205-6 | 6 | 85 | 0.01 |
| Ex205-7 | 7 | 90 | 0.02 |
| Ex205-8 | 8 | 95 | 0.02 |
| Ex205-9 | 9 | 100 | 0.03 |
| Ex205-10 | 10 | 105 | 0.04 |
| Ex205-11 | 11 | 110 | 0.04 |
| Ex205-12 | 12 | 115 | 0.05 |
| Ex205-13 | 13 | 120 | 0.06 |
| Ex205-14 | 14 | 125 | 0.08 |
| Ex205-15 | 15 | 130 | 0.10 |
| Ex205-16 | 16 | 135 | 0.11 |
| Ex205-17 | 17 | 140 | 0.11 |
| Ex205-18 | 18 | 150 | 0.13 |
| Ex205-19 | 19 | 155 | 0.15 |
| Ex205-20 | 20 | 160 | 0.16 |
| Ex205-21 | 21 | 165 | 0.18 |
| Ex205-22 | 22 | 180 | 0.19 |
| Ex205-23 | 23 | 190 | 0.21 |
| Ex205-24 | 24 | 200 | 0.24 |
| Ex205-25 | 25 | 205 | 0.27 |
| Ex205-26 | 26 | 215 | 0.30 |
| Ex205-27 | 27 | 225 | 0.33 |
| Ex205-28 | 28 | 235 | 0.36 |
| Ex205-29 | 29 | 245 | 0.38 |
| Ex205-30 | 30 | 255 | 0.40 |
| Ex205-32 | 32 | 275 | 0.52 |
| Ex205-33 | 33 | 280 | 0.57 |
| Ex205-34 | 34 | 285 | 0.62 |
| Ex205-35 | 35 | 295 | 0.67 |
| Ex205-36 | 36 | 300 | 0.73 |
| Ex205-37 | 37 | 305 | 0.75 |
| Ex205-38 | 38 | 310 | 0.79 |
| Ex205-41 | 41 | 330 | 1.05 |
| Ex205-42 | 42 | 340 | 1.10 |
| Ex205-46 | 46 | 370 | 1.29 |
| Ex205-47 | 47 | 375 | 1.35 |
| Ex205-50 | 50 | 380 | 1.73 |

When ordering, specify:

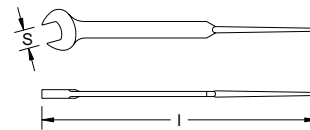
A = Aluminum Bronze

B = Copper Beryllium

Example: Ex205S-005UA

or

Ex205S-005UB



Ex205S

Wrench, Construction

With Pin, (Open End)

| No. | s inch | l inch | Wt. lbs. |
|-------------|-----------|-----------|-------------|
| Ex205S-005U | 11/16 | 14 | 0.95 |
| Ex205S-010U | 3/4 | 14 | 0.97 |
| Ex205S-015U | 25/32 | 14 | 0.98 |
| Ex205S-020U | 13/16 | 14 | 0.98 |
| Ex205S-025U | 7/8 | 14 | 0.95 |
| Ex205S-030U | 15/16 | 14 | 0.97 |
| Ex205S-035U | 31/32 | 14 | 0.98 |
| Ex205S-040U | 1 | 16 | 1.32 |
| Ex205S-045U | 1-1/16 | 16 | 1.32 |
| Ex205S-050U | 1-1/8 | 16 | 2.09 |
| Ex205S-055U | 1-3/16 | 16 | 2.09 |
| Ex205S-060U | 1-1/4 | 16 | 2.09 |
| Ex205S-065U | 1-5/16 | 18 | 2.69 |
| Ex205S-070U | 1-3/8 | 18 | 2.69 |
| Ex205S-075U | 1-7/16 | 18 | 2.69 |
| Ex205S-080U | 1-1/2 | 18 | 2.62 |

| No. | s mm | l mm | kg |
|-----------|---------|---------|------|
| Ex205S-17 | 17 | 350 | 0.41 |
| Ex205S-18 | 18 | 350 | 0.42 |
| Ex205S-19 | 19 | 350 | 0.42 |
| Ex205S-20 | 20 | 350 | 0.43 |
| Ex205S-21 | 21 | 350 | 0.43 |
| Ex205S-22 | 22 | 350 | 0.43 |
| Ex205S-23 | 23 | 350 | 0.44 |
| Ex205S-24 | 24 | 350 | 0.44 |
| Ex205S-25 | 25 | 400 | 0.60 |
| Ex205S-26 | 26 | 400 | 0.60 |
| Ex205S-27 | 27 | 400 | 0.60 |
| Ex205S-28 | 28 | 400 | 0.95 |
| Ex205S-29 | 29 | 400 | 1.22 |
| Ex205S-30 | 30 | 400 | 0.95 |
| Ex205S-32 | 32 | 400 | 0.95 |
| Ex205S-33 | 33 | 400 | 1.22 |

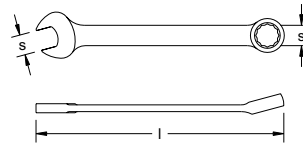
TIGHTENING



Ex212

Wrench, Gas Tube

| No. | l inch | Wt. lbs. | l mm | kg |
|-----------|-----------|-------------|---------|------|
| Ex212-540 | 21-9/16 | 5.09 | 540 | 2.31 |



When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex206-005UA

or

Ex206-005UB

Ex206
Wrench, Combination

Standard

| No. | s inch | l inch | Wt. lbs. |
|------------|-----------|-----------|-------------|
| Ex206-005U | 1/4 | 3-9/16 | 0.05 |
| Ex206-010U | 5/16 | 4-3/16 | 0.07 |
| Ex206-015U | 11/32 | 4-9/16 | 0.10 |
| Ex206-020U | 3/8 | 4-9/16 | 0.10 |
| Ex206-025U | 13/32 | 5-3/8 | 0.15 |
| Ex206-030U | 7/16 | 5-3/8 | 0.15 |
| Ex206-035U | 1/2 | 6 | 0.22 |
| Ex206-040U | 9/16 | 6-3/8 | 0.29 |
| Ex206-045U | 19/32 | 6-3/8 | 0.29 |
| Ex206-050U | 5/8 | 7 | 0.33 |
| Ex206-055U | 11/16 | 7-3/16 | 0.37 |
| Ex206-060U | 3/4 | 8-3/16 | 0.51 |
| Ex206-065U | 25/32 | 8-3/16 | 0.51 |
| Ex206-070U | 13/16 | 9-3/16 | 0.60 |
| Ex206-075U | 7/8 | 9-3/4 | 0.66 |
| Ex206-080U | 15/16 | 10-9/16 | 0.90 |
| Ex206-085U | 31/32 | 11-9/16 | 1.28 |
| Ex206-090U | 1 | 11-9/16 | 1.28 |
| Ex206-095U | 1-1/16 | 11-9/16 | 1.28 |
| Ex206-100U | 1-1/8 | 12-3/4 | 1.39 |
| Ex206-105U | 1-3/16 | 12-3/4 | 1.39 |
| Ex206-110U | 1-1/4 | 13-3/8 | 1.74 |
| Ex206-115U | 1-5/16 | 14 | 2.03 |
| Ex206-120U | 1-3/8 | 14 | 2.03 |
| Ex206-125U | 1-7/16 | 14 | 2.05 |
| Ex206-130U | 1-1/2 | 14-3/8 | 2.73 |
| Ex206-135U | 1-9/16 | 14-3/4 | 3.22 |
| Ex206-140U | 1-5/8 | 14-3/4 | 3.22 |
| Ex206-145U | 1-11/16 | 16-3/16 | 3.70 |
| Ex206-150U | 1-3/4 | 16-3/16 | 3.70 |
| Ex206-155U | 1-13/16 | 16-3/16 | 3.70 |
| Ex206-160U | 1-7/8 | 16-3/16 | 3.70 |
| Ex206-162U | 1-15/16 | 16-3/4 | 4.23 |
| Ex206-165U | 2 | 16-3/4 | 4.23 |

Ex206L
Wrench, Combination

Long

| No. | s inch | l inch | Wt. lbs. |
|-------------|-----------|-----------|-------------|
| Ex206L-005U | 1/4 | 5.91 | 0.11 |
| Ex206L-010U | 5/16 | 5.91 | 0.11 |
| Ex206L-015U | 11/32 | 5.91 | 0.11 |
| Ex206L-020U | 3/8 | 5.91 | 0.11 |
| Ex206L-025U | 13/32 | 6.89 | 0.17 |
| Ex206L-030U | 7/16 | 6.89 | 0.17 |
| Ex206L-035U | 1/2 | 8.07 | 0.25 |
| Ex206L-040U | 9/16 | 8.07 | 0.25 |
| Ex206L-045U | 19/32 | 8.86 | 0.32 |
| Ex206L-050U | 5/8 | 8.86 | 0.32 |
| Ex206L-055U | 11/16 | 10.63 | 0.57 |
| Ex206L-060U | 3/4 | 10.63 | 0.57 |
| Ex206L-065U | 25/32 | 11.61 | 0.66 |
| Ex206L-070U | 13/16 | 11.61 | 0.66 |
| Ex206L-075U | 7/8 | 11.61 | 0.66 |
| Ex206L-080U | 15/16 | 12.80 | 0.88 |
| Ex206L-085U | 31/32 | 12.80 | 0.88 |
| Ex206L-090U | 1 | 13.98 | 1.21 |
| Ex206L-095U | 1-1/16 | 13.98 | 1.21 |
| Ex206L-100U | 1-1/8 | 15.35 | 1.52 |
| Ex206L-105U | 1-3/16 | 15.35 | 1.52 |
| Ex206L-110U | 1-1/4 | 16.93 | 2.20 |
| Ex206L-115U | 1-5/16 | 16.93 | 2.20 |
| Ex206L-120U | 1-3/8 | 18.70 | 2.43 |
| Ex206L-125U | 1-7/16 | 18.70 | 2.43 |
| Ex206L-130U | 1-1/2 | 18.70 | 2.43 |
| Ex206L-135U | 1-9/16 | 20.67 | 3.20 |
| Ex206L-140U | 1-5/8 | 20.67 | 3.20 |
| Ex206L-145U | 1-11/16 | 22.64 | 4.19 |
| Ex206L-150U | 1-3/4 | 22.64 | 4.19 |
| Ex206L-155U | 1-13/16 | 22.64 | 4.41 |
| Ex206L-160U | 1-7/8 | 22.64 | 4.41 |
| Ex206L-162U | 1-15/16 | 22.64 | 4.63 |
| Ex206L-165U | 2 | 22.64 | 4.85 |

| No. | s mm | l mm | kg |
|----------|---------|---------|------|
| Ex206-6 | 6 | 90 | 0.02 |
| Ex206-7 | 7 | 100 | 0.03 |
| Ex206-8 | 8 | 105 | 0.03 |
| Ex206-9 | 9 | 115 | 0.05 |
| Ex206-10 | 10 | 125 | 0.05 |
| Ex206-11 | 11 | 135 | 0.07 |
| Ex206-12 | 12 | 140 | 0.09 |
| Ex206-13 | 13 | 150 | 0.10 |
| Ex206-14 | 14 | 160 | 0.13 |
| Ex206-15 | 15 | 165 | 0.14 |
| Ex206-16 | 16 | 175 | 0.15 |
| Ex206-17 | 17 | 180 | 0.17 |

| No. | s mm | l mm | kg |
|-----------|---------|---------|------|
| Ex206L-6 | 6 | 120 | 0.03 |
| Ex206L-7 | 7 | 120 | 0.03 |
| Ex206L-8 | 8 | 150 | 0.05 |
| Ex206L-9 | 9 | 150 | 0.05 |
| Ex206L-10 | 10 | 175 | 0.08 |
| Ex206L-11 | 11 | 175 | 0.08 |
| Ex206L-12 | 12 | 205 | 0.12 |
| Ex206L-13 | 13 | 205 | 0.12 |
| Ex206L-14 | 14 | 205 | 0.12 |
| Ex206L-15 | 15 | 225 | 0.15 |
| Ex206L-16 | 16 | 225 | 0.15 |
| Ex206L-17 | 17 | 270 | 0.26 |

TIGHTENING

When ordering, specify:

A = Aluminum Bronze

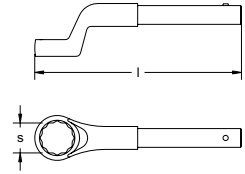
B = Copper Beryllium

Example: Ex215-005UA

or

Ex215-005UB

Ex215 Wrench, Box, For Extension

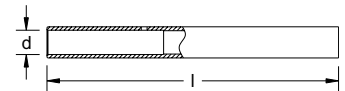


| No. | s inch | l inch | Wt. lbs. | |
|------------|-----------|-----------|-------------|---------------------------------------|
| Ex215-005U | 1-3/16 | 8 | 2.03 | For use with extension Ex216-22 |
| Ex215-010U | 1-1/4 | 9-3/8 | 2.14 | |
| Ex215-015U | 1-5/16 | 9-3/8 | 2.14 | |
| Ex215-020U | 1-3/8 | 9-3/8 | 2.14 | |
| Ex215-025U | 1-7/16 | 9-3/4 | 2.27 | |
| Ex215-030U | 1-1/2 | 10 | 2.51 | |
| Ex215-035U | 1-9/16 | 10-9/16 | 2.78 | |
| Ex215-040U | 1-5/8 | 10-9/16 | 2.78 | |
| Ex215-045U | 1-11/16 | 10-9/16 | 2.78 | For use with extension Ex216-25 |
| Ex215-050U | 1-3/4 | 11-3/16 | 3.53 | |
| Ex215-055U | 1-13/16 | 11-3/16 | 3.53 | |
| Ex215-060U | 1-7/8 | 11-3/16 | 3.53 | |
| Ex215-065U | 2 | 11-3/16 | 3.90 | |
| Ex215-070U | 2-1/16 | 11-3/16 | 3.90 | |
| Ex215-075U | 2-1/8 | 11-9/16 | 4.30 | |
| Ex215-080U | 2-3/16 | 11-9/16 | 4.30 | |
| Ex215-085U | 2-1/4 | 13-3/16 | 6.39 | For use with extension Ex216-30 |
| Ex215-090U | 2-5/16 | 13-3/16 | 6.39 | |
| Ex215-095U | 2-3/8 | 13-3/16 | 6.39 | |
| Ex215-100U | 2-7/16 | 14 | 6.83 | |
| Ex215-105U | 2-1/2 | 14 | 6.83 | |
| Ex215-110U | 2-9/16 | 14 | 6.83 | |
| Ex215-115U | 2-5/8 | 14-3/8 | 7.72 | |
| Ex215-120U | 2-3/4 | 14-3/8 | 7.72 | |
| Ex215-125U | 2-13/16 | 14-3/8 | 7.72 | |

| No. | s mm | l mm | Wt. kg | |
|----------|---------|---------|-----------|---------------------------------------|
| Ex215-30 | 30 | 200 | 0.92 | For use with extension Ex216-22 |
| Ex215-32 | 32 | 235 | 0.97 | |
| Ex215-33 | 33 | 235 | 0.97 | |
| Ex215-34 | 34 | 235 | 0.97 | |
| Ex215-35 | 35 | 245 | 1.03 | |
| Ex215-36 | 36 | 245 | 1.03 | |
| Ex215-37 | 37 | 250 | 1.14 | |
| Ex215-38 | 38 | 250 | 1.14 | |
| Ex215-41 | 41 | 265 | 1.26 | For use with extension Ex216-25 |
| Ex215-42 | 42 | 265 | 1.26 | |
| Ex215-46 | 46 | 280 | 1.60 | |
| Ex215-47 | 47 | 280 | 1.60 | |
| Ex215-50 | 50 | 280 | 1.77 | |
| Ex215-52 | 52 | 280 | 1.77 | |
| Ex215-55 | 55 | 290 | 1.95 | |
| Ex215-58 | 58 | 330 | 2.90 | |
| Ex215-60 | 60 | 330 | 2.90 | |
| Ex215-65 | 65 | 350 | 3.10 | |
| Ex215-70 | 70 | 360 | 3.50 | |

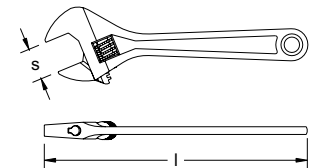
TIGHTENING

Ex216 Extension for Box Wrench

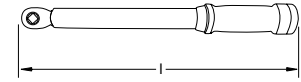


| No. | d inch | l inch | Wt. lbs. | d mm | l mm | Wt. kg |
|----------|-----------|-----------|-------------|---------|---------|-----------|
| Ex216-22 | 7/8 | 24 | 2.43 | 22 | 600 | 1.10 |
| Ex216-25 | 1 | 30 | 4.14 | 25 | 750 | 1.88 |
| Ex216-30 | 1-3/16 | 34 | 6.00 | 30 | 850 | 2.72 |

Ex501 Wrench, Adjustable End



| No. | s max inch | l inch | Wt. lbs. | s max mm | l mm | Wt. kg |
|----------|---------------|-----------|-------------|-------------|---------|-----------|
| Ex501-6 | 3/4 | 6 | 0.29 | 19 | 150 | 0.13 |
| Ex501-8 | 15/16 | 8 | 0.62 | 24 | 200 | 0.28 |
| Ex501-10 | 1-1/8 | 10 | 1.06 | 28 | 250 | 0.48 |
| Ex501-12 | 1-3/8 | 12 | 1.68 | 34 | 300 | 0.76 |
| Ex501-15 | 1-3/4 | 15 | 3.13 | 45 | 375 | 1.42 |
| Ex501-18 | 2-3/16 | 18 | 6.19 | 55 | 450 | 2.81 |
| Ex501-24 | 2-3/8 | 24 | 10.87 | 60 | 600 | 4.93 |



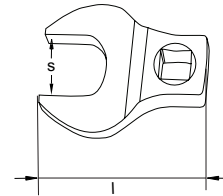
Ex1401TB

Wrench, Torque

Copper Beryllium (CuBe) only

| No. | Drive inch | l inch | Torque Range ft./lbs. | Wt. lbs. | l mm | Torque Range Nm | kg |
|------------|------------|--------|-----------------------|----------|------|-----------------|------|
| Ex1401TB-B | 1/2 | 18-1/4 | 22-110 | 3 | 463 | 30 - 150 | 1.38 |

TIGHTENING



Ex1514B

Wrench, Crowfoot, 1/2" Drive

| No. | s inch | l inch | Wt. lbs. |
|--------------|--------|---------|----------|
| Ex1514B-005U | 1/4 | 1-9/16 | 0.04 |
| Ex1514B-010U | 5/16 | 1-11/16 | 0.04 |
| Ex1514B-015U | 3/8 | 1-11/16 | 0.04 |
| Ex1514B-020U | 7/16 | 1-7/8 | 0.08 |
| Ex1514B-025U | 1/2 | 1-7/8 | 0.08 |
| Ex1514B-030U | 9/16 | 2 | 0.17 |
| Ex1514B-035U | 5/8 | 2 | 0.17 |
| Ex1514B-040U | 11/16 | 2-6/13 | 0.22 |
| Ex1514B-045U | 3/4 | 2-6/13 | 0.22 |
| Ex1514B-047U | 25/32 | 2-6/13 | 0.22 |
| Ex1514B-050U | 13/16 | 2-3/8 | 0.22 |
| Ex1514B-055U | 7/8 | 2-3/8 | 0.22 |
| Ex1514B-060U | 15/16 | 2-1/2 | 0.26 |
| Ex1514B-065U | 1 | 2-5/8 | 0.33 |
| Ex1514B-070U | 1-1/16 | 2-13/16 | 0.44 |
| Ex1514B-075U | 1-1/8 | 2-13/16 | 0.73 |
| Ex1514B-080U | 1-3/16 | 3-5/16 | 0.73 |
| Ex1514B-085U | 1-1/4 | 3-5/16 | 0.73 |
| Ex1514B-090U | 1-5/16 | 3-5/16 | 0.73 |
| Ex1514B-095U | 1-3/8 | 3-5/16 | 0.73 |
| Ex1514B-100U | 1-7/16 | 3-5/16 | 0.73 |
| Ex1514B-110U | 1-1/2 | 3-5/16 | 0.73 |

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

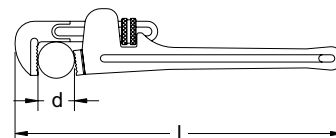
Example: Ex502-6A

or

Ex502-6B

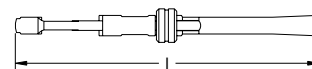
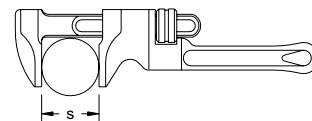
PIPE WRENCHES

Ex502
Wrench, Pipe
American Type



| No. | d max inch | l inch | Wt. lbs. | d max mm | l mm | ⚖ kg |
|----------|---------------|-----------|-------------|-------------|---------|---------|
| Ex502-6 | 3/4 | 6 | 0.66 | 20 | 150 | 0.30 |
| Ex502-8 | 1 | 8 | 1.04 | 25 | 200 | 0.47 |
| Ex502-10 | 1-3/16 | 10 | 2.25 | 30 | 250 | 1.02 |
| Ex502-12 | 1-9/16 | 12 | 3.26 | 40 | 300 | 1.48 |
| Ex502-14 | 2 | 14 | 3.59 | 50 | 350 | 1.63 |
| Ex502-18 | 2-3/8 | 18 | 6.28 | 60 | 450 | 2.85 |
| Ex502-24 | 3 | 24 | 10.67 | 75 | 600 | 4.84 |
| Ex502-36 | 3-3/8 | 36 | 17.17 | 85 | 900 | 7.79 |
| Ex502-48 | 4-3/8 | 48 | 29.92 | 110 | 1200 | 13.57 |

Ex503
Wrench, Monkey



| No. | s max inch | l inch | Wt. lbs. | s max mm | l mm | ⚖ kg |
|----------|---------------|-----------|-------------|-------------|---------|---------|
| Ex503-10 | 1-7/8 | 10-1/8 | 1.83 | 48 | 254 | 0.83 |
| Ex503-12 | 2-5/16 | 12 | 3.33 | 58 | 305 | 1.51 |
| Ex503-15 | 2-3/4 | 15-3/16 | 4.83 | 70 | 380 | 2.19 |
| Ex503-18 | 4 | 18-3/16 | 5.84 | 80 | 460 | 2.65 |

TIGHTENING

Ex208
Wrench, Spanner, Fixed
 (DIN 1810)



| No. | d inch | l inch | Wt. lbs. | d mm | l mm | kg |
|---------------|------------------|----------|----------|---------|------|------|
| Ex208-12/14 | 7/16 – 9/16 | 4-1/8 | 0.07 | 12/14 | 103 | 0.03 |
| Ex208-16/18 | 5/8 – 11/16 | 4-1/8 | 0.07 | 16/18 | 104 | 0.03 |
| Ex208-16/20 | 5/8 – 3/4 | 4-1/8 | 0.07 | 16/20 | 104 | 0.03 |
| Ex208-20/22 | 3/4 – 7/8 | 4-3/16 | 0.07 | 20/22 | 105 | 0.03 |
| Ex208-25/28 | 1 – 1-1/8 | 5-3/64 | 0.11 | 25/28 | 126 | 0.05 |
| Ex208-30/32 | 1-3/16 – 1-1/4 | 5-1/8 | 0.11 | 30/32 | 128 | 0.05 |
| Ex208-34/36 | 1-3/8 – 1-7/16 | 6-3/8 | 0.22 | 34/36 | 160 | 0.10 |
| Ex208-40/42 | 1-9/16 – 1-11/16 | 6-7/16 | 0.22 | 40/42 | 161 | 0.10 |
| Ex208-45/50 | 1-3/4 – 2 | 7-11/16 | 0.40 | 45/50 | 193 | 0.18 |
| Ex208-52/55 | 2-1/16 – 2-3/16 | 7-3/4 | 0.40 | 52/55 | 195 | 0.18 |
| Ex208-58/62 | 2-5/16 – 2-7/16 | 9-1/16 | 0.64 | 58/62 | 227 | 0.29 |
| Ex208-68/75 | 2-11/16 – 3 | 9-3/16 | 0.64 | 68/75 | 230 | 0.29 |
| Ex208-80/90 | 3-3/16 – 3-9/16 | 10-5/8 | 0.99 | 80/90 | 266 | 0.45 |
| Ex208-90/100 | 3-3/4 – 4 | 10-13/16 | 0.97 | 90/100 | 271 | 0.44 |
| Ex208-100/110 | 4-3/8 – 4-9/16 | 12-9/16 | 1.81 | 100/110 | 315 | 0.82 |
| Ex208-110/115 | 4-3/8 – 4-9/16 | 12-9/16 | 1.81 | 110/115 | 315 | 0.82 |
| Ex208-120/130 | 4-3/4 – 5-3/16 | 12-3/4 | 1.81 | 120/130 | 319 | 0.82 |
| Ex208-135/145 | 5-3/8 – 5-3/4 | 14-1/2 | 2.91 | 135/145 | 363 | 1.32 |

Ex208S
Wrench, Spanner, Adjustable



| No. | d inch | l inch | Wt. lbs. | d mm | l mm | kg |
|----------------|----------------|--------|----------|-----------|------|------|
| Ex208S-32/75 | 1-1/4 – 3 | 8-3/16 | 0.46 | 32 – 75 | 205 | 0.21 |
| Ex208S-50/120 | 2 – 4-3/4 | 11-3/8 | 1.06 | 50 – 120 | 285 | 0.48 |
| Ex208S-115/170 | 4-9/16 – 6-3/4 | 12-3/8 | 2.67 | 115 – 170 | 310 | 1.21 |

Ex600
Wrench, Chain Pipe



| No. | d max inch | l inch | Wt. lbs. | d max mm | l mm | kg |
|---------|------------|--------|----------|----------|------|------|
| Ex600-2 | 2 | 24 | 3.53 | 50 | 600 | 1.60 |
| Ex600-4 | 4 | 24 | 3.99 | 100 | 600 | 1.81 |
| Ex600-6 | 6 | 24 | 4.39 | 150 | 600 | 1.99 |

TIGHTENING

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex504S-005UA

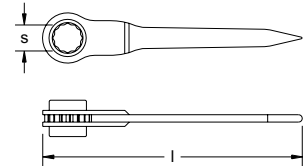
or

Ex504S-005UB

RATCHETS

Ex504S

Wrench, Ratchet



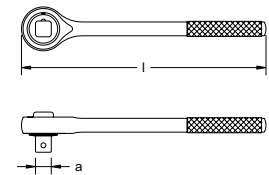
| No. | s inch | l inch | Wt. lbs. |
|-------------|-----------|-----------|-------------|
| Ex504S-005U | 1-5/16 | 9-9/16 | 1.10 |
| Ex504S-010U | 1-1/16 | 10-3/4 | 1.59 |
| Ex504S-015U | 1-3/16 | 12 | 1.96 |
| Ex504S-020U | 1-1/4 | 12-3/4 | 2.20 |
| Ex504S-025U | 1-7/16 | 13-3/16 | 2.65 |
| Ex504S-030U | 15/8 | 13-3/16 | 3.02 |

| No. | s mm | l mm | kg |
|-----------|---------|---------|------|
| Ex504S-24 | 24 | 240 | 0.50 |
| Ex504S-27 | 27 | 270 | 0.72 |
| Ex504S-30 | 30 | 300 | 0.89 |
| Ex504S-32 | 32 | 320 | 1.00 |
| Ex504S-36 | 36 | 330 | 1.20 |
| Ex504S-41 | 41 | 330 | 1.37 |

TIGHTENING

Ex1501S

Wrench, Ratchet



| No. | a inch | l inch | Wt. lbs. | l mm | kg |
|------------|-----------|-----------|-------------|---------|------|
| Ex1501S-AA | 1/4 | 6 | 0.35 | 150 | 0.16 |
| Ex1501S-A | 3/8 | 6 | 0.35 | 150 | 0.16 |
| Ex1501S-B | 1/2 | 10-3/8 | 1.32 | 260 | 0.60 |
| Ex1501S-C | 3/4 | 15-9/16 | 5.03 | 390 | 2.28 |
| Ex1501S-D | 1 | 16 | 5.25 | 410 | 2.40 |

Ex1501D

Square Drive for Ratchet

Copper Beryllium (CuBe) only



| No. | Ex1501D-1/4B | Ex1501D-3/8B | Ex1501D-1/2B | Ex1501D-3/4B | Ex1501D-1B |
|----------------------|--------------|--------------|--------------|--------------|------------|
| Size of Square Drive | 1/4" | 3/8" | 1/2" | 3/4" | 1" |

Ex1510

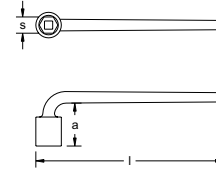
Adapter / Converter



| No. | Ex1510-AAB | Ex1510-BC | Ex1510-CD |
|----------------------|--------------|--------------|------------|
| Size of Square Drive | 1/4" to 1/2" | 1/2" to 3/4" | 3/4" to 1" |

SOCKET WRENCHES

Ex701
Wrench, Socket
L-Type, 6-Point



TIGHTENING

| No. | s inch | a inch | l inch | Wt. lbs. |
|------------|-----------|-----------|-----------|-------------|
| Ex701-005U | 1/4 | 7/8 | 3-3/4 | 0.08 |
| Ex701-010U | 5/16 | 1-7/16 | 4-1/4 | 0.22 |
| Ex701-015U | 11/32 | 1-7/16 | 6-7/16 | 0.33 |
| Ex701-020U | 3/8 | 1-7/16 | 6-7/16 | 0.22 |
| Ex701-025U | 13/32 | 1-7/16 | 6-7/16 | 0.33 |
| Ex701-030U | 7/16 | 1-7/16 | 6-7/16 | 0.33 |
| Ex701-035U | 1/2 | 17/16 | 6-7/16 | 0.37 |
| Ex701-040U | 9/16 | 1-7/16 | 6-7/16 | 0.35 |
| Ex701-045U | 19/32 | 1-7/16 | 6-7/16 | 0.35 |
| Ex701-050U | 5/8 | 2-1/16 | 8-7/16 | 0.66 |
| Ex701-055U | 11/16 | 2-1/16 | 8-7/16 | 0.66 |
| Ex701-060U | 3/4 | 2-1/16 | 8-7/16 | 0.77 |
| Ex701-065U | 25/32 | 2-1/16 | 8-7/16 | 0.81 |
| Ex701-070U | 13/16 | 2-1/4 | 8-7/16 | 0.82 |
| Ex701-075U | 7/8 | 2-1/4 | 8-7/16 | 0.77 |
| Ex701-080U | 15/16 | 2-1/4 | 9-9/16 | 0.88 |
| Ex701-085U | 31/32 | 2-1/4 | 9-9/16 | 0.92 |
| Ex701-090U | 1 | 2-1/4 | 9-9/16 | 0.98 |
| Ex701-095U | 1-1/16 | 2-1/4 | 9-9/16 | 1.04 |
| Ex701-100U | 1-1/8 | 2-1/4 | 9-9/16 | 1.01 |
| Ex701-105U | 1-3/16 | 2-9/16 | 10-3/8 | 1.85 |
| Ex701-110U | 1-1/4 | 2-9/16 | 10-3/8 | 1.79 |

| No. | s mm | a mm | l mm | Wt. kg |
|----------|---------|---------|---------|-----------|
| Ex701-6 | 6 | 23 | 95 | 0.037 |
| Ex701-8 | 8 | 37 | 107 | 0.100 |
| Ex701-9 | 9 | 37 | 107 | 0.100 |
| Ex701-10 | 10 | 37 | 107 | 0.120 |
| Ex701-11 | 11 | 37 | 161 | 0.150 |
| Ex701-12 | 12 | 37 | 161 | 0.150 |
| Ex701-13 | 13 | 37 | 161 | 0.170 |
| Ex701-14 | 14 | 37 | 161 | 0.160 |
| Ex701-15 | 15 | 37 | 161 | 0.160 |
| Ex701-16 | 16 | 52 | 211 | 0.300 |
| Ex701-17 | 17 | 52 | 211 | 0.300 |
| Ex701-18 | 18 | 52 | 211 | 0.350 |
| Ex701-19 | 19 | 52 | 211 | 0.350 |
| Ex701-20 | 20 | 57 | 211 | 0.350 |
| Ex701-21 | 21 | 57 | 211 | 0.370 |
| Ex701-22 | 22 | 57 | 211 | 0.350 |
| Ex701-23 | 23 | 57 | 240 | 0.410 |
| Ex701-24 | 24 | 57 | 240 | 0.400 |
| Ex701-25 | 25 | 57 | 240 | 0.470 |
| Ex701-26 | 26 | 57 | 240 | 0.470 |
| Ex701-27 | 27 | 57 | 240 | 0.470 |
| Ex701-28 | 28 | 57 | 240 | 0.460 |
| Ex701-29 | 29 | 57 | 240 | 0.460 |
| Ex701-30 | 30 | 65 | 260 | 0.840 |
| Ex701-32 | 32 | 65 | 260 | 0.810 |

When ordering, specify:

A = Aluminum Bronze

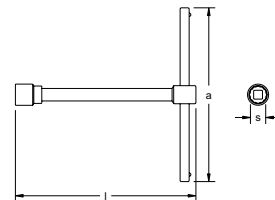
B = Copper Beryllium

Example: Ex702-005UA

or

Ex702-005UB

Ex702
Wrench, Socket
T-Type, 12-Point

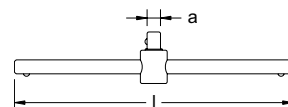


| No. | s inch | a inch | l inch | Wt. lbs. |
|------------|-----------|-----------|-----------|-------------|
| Ex702-005U | 5/16 | 8 | 6-3/4 | 1.28 |
| Ex702-010U | 11/32 | 8 | 6-3/4 | 1.28 |
| Ex702-015U | 3/8 | 8 | 6-3/4 | 1.28 |
| Ex702-020U | 13/32 | 8 | 6-3/4 | 1.28 |
| Ex702-025U | 7/16 | 8 | 6-3/4 | 1.28 |
| Ex702-030U | 1/2 | 8 | 6-3/4 | 1.28 |
| Ex702-035U | 9/16 | 8 | 6-3/4 | 1.28 |
| Ex702-040U | 19/32 | 10 | 10-3/8 | 1.59 |
| Ex702-045U | 5/8 | 10 | 10-3/8 | 1.59 |
| Ex702-050U | 11/16 | 10 | 10-3/8 | 1.59 |
| Ex702-055U | 3/4 | 8 | 9-3/16 | 1.59 |
| Ex702-060U | 25/32 | 10 | 10-3/8 | 1.59 |
| Ex702-065U | 13/16 | 10 | 10-3/8 | 1.59 |
| Ex702-070U | 7/8 | 10 | 10-3/8 | 2.14 |
| Ex702-075U | 15/16 | 10 | 10-3/8 | 2.09 |
| Ex702-080U | 31/32 | 10-3/8 | 10-3/8 | 2.14 |
| Ex702-085U | 1 | 10-3/8 | 10-3/8 | 2.14 |
| Ex702-090U | 1-1/16 | 10-3/8 | 10-3/8 | 2.14 |
| Ex702-095U | 1-1/8 | 10-3/8 | 10-3/8 | 2.14 |
| Ex702-100U | 1-3/16 | 10-3/8 | 10-3/8 | 2.29 |
| Ex702-105U | 1-1/4 | 11-3/16 | 11-3/16 | 2.47 |
| Ex702-110U | 1-5/16 | 11-3/16 | 11-3/16 | 2.47 |

| No. | s mm | a mm | l mm | Wt. kg |
|----------|---------|---------|---------|-----------|
| Ex702-8 | 8 | 200 | 170 | 0.58 |
| Ex702-9 | 9 | 200 | 170 | 0.58 |
| Ex702-10 | 10 | 200 | 170 | 0.58 |
| Ex702-11 | 11 | 200 | 170 | 0.58 |
| Ex702-12 | 12 | 200 | 170 | 0.58 |
| Ex702-13 | 13 | 200 | 170 | 0.58 |
| Ex702-14 | 14 | 200 | 170 | 0.58 |
| Ex702-15 | 15 | 200 | 230 | 0.72 |
| Ex702-16 | 16 | 200 | 230 | 0.72 |
| Ex702-17 | 17 | 200 | 230 | 0.72 |
| Ex702-18 | 18 | 200 | 230 | 0.72 |
| Ex702-19 | 19 | 200 | 230 | 0.72 |
| Ex702-20 | 20 | 250 | 260 | 0.97 |
| Ex702-21 | 21 | 250 | 260 | 0.97 |
| Ex702-22 | 22 | 250 | 260 | 0.97 |
| Ex702-23 | 23 | 250 | 260 | 0.97 |
| Ex702-24 | 24 | 250 | 260 | 0.95 |
| Ex702-25 | 25 | 260 | 260 | 1.04 |
| Ex702-26 | 26 | 260 | 260 | 1.04 |
| Ex702-27 | 27 | 260 | 260 | 1.04 |
| Ex702-28 | 28 | 260 | 260 | 1.04 |
| Ex702-29 | 29 | 260 | 260 | 1.04 |

TIGHTENING

Ex1502
Bar, Sliding

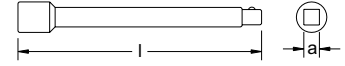


| No. | a inch | l inch | Wt. lbs. | l mm | Wt. kg |
|-----------|-----------|-----------|-------------|---------|-----------|
| Ex1502-AA | 1/4 | 6 | 0.15 | 150 | 0.068 |
| Ex1502-A | 3/8 | 7-3/16 | 0.49 | 180 | 0.22 |
| Ex1502-B | 1/2 | 10 | 0.82 | 250 | 0.37 |
| Ex1502-C | 3/4 | 16 | 2.89 | 400 | 1.31 |
| Ex1502-D | 1 | 16 | 3.57 | 400 | 1.62 |

Bar, Extension Ex1504
 Driver Handle Ex1504S
 Wrench Handle, Speed Ex1505

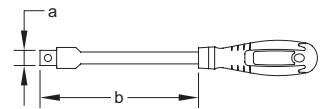
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
 Example: Ex1504AA-100AA
 or
 Ex1504AA-100AB

**Ex1504
 Bar, Extension**



| No. | a inch | l inch | Wt. lbs. | l mm | kg |
|---------------|--------|--------|----------|------|------|
| Ex1504AA-100A | 1/4 | 4 | 0.12 | 100 | 0.05 |
| Ex1504AA-200A | 1/4 | 8 | 0.21 | 200 | 0.10 |
| Ex1504A-75A | 3/8 | 3 | 0.15 | 75 | 0.07 |
| Ex1504A-150A | 3/8 | 6 | 0.33 | 150 | 0.15 |
| Ex1504A-100A | 3/8 | 4 | 0.21 | 100 | 0.10 |
| Ex1504B-100A | 1/2 | 4 | 0.57 | 100 | 0.26 |
| Ex1504B-200A | 1/2 | 8 | 0.90 | 200 | 0.41 |
| Ex1504B-250A | 1/2 | 10 | 1.06 | 250 | 0.48 |
| Ex1504C-100A | 3/4 | 4 | 1.28 | 100 | 0.58 |
| Ex1504C-200A | 3/4 | 8 | 2.12 | 200 | 0.96 |
| Ex1504C-250A | 3/4 | 10 | 2.51 | 250 | 1.14 |
| Ex1504D-100A | 1 | 4 | 2.20 | 100 | 1.00 |
| Ex1504D-250A | 1 | 10 | 4.28 | 250 | 1.95 |

**Ex1504S
 Driver Handle**



| No. | a inch | l inch | Wt. lbs. | l mm | kg |
|------------|--------|--------|----------|------|-------|
| Ex1504S-AA | 1/4 | 2-3/4 | 0.057 | 70 | 0.026 |
| Ex1504S-A | 3/8 | 4-9/16 | 0.19 | 115 | 0.087 |

**Ex1505
 Wrench Handle, Speed**



| No. | a inch | l inch | Wt. lbs. | l mm | kg |
|----------|--------|---------|----------|------|------|
| Ex1505AA | 1/4 | 13 | 1.10 | 325 | 0.50 |
| Ex1505A | 3/8 | 14 | 1.21 | 350 | 0.55 |
| Ex1505B | 1/2 | 15-3/16 | 1.28 | 380 | 0.58 |
| Ex1505C | 3/4 | 16 | 3.19 | 400 | 1.45 |
| Ex1505D | 1 | 17 | 3.42 | 425 | 1.55 |

TIGHTENING

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex1506AAA

or

Ex1506AAB

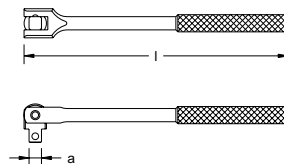
Wrench Handle, Hinged Ex1506

Universal Joint Ex1507

Offset Grip Handle Ex1508

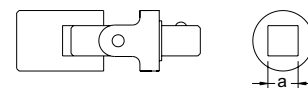
Adapter/Converter Ex1509

Ex1506 Wrench Handle, Hinged



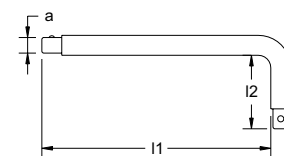
| No. | a inch | l inch | Wt. lbs. | l mm | kg |
|----------|-----------|-----------|-------------|---------|------|
| Ex1506AA | 1/4 | 5-3/4 | 0.29 | 145 | 0.13 |
| Ex1506A | 3/8 | 8 | 0.49 | 200 | 0.22 |
| Ex1506B | 1/2 | 12 | 2.2 | 300 | 1.00 |
| Ex1506C | 3/4 | 14-3/8 | 2.65 | 360 | 1.20 |
| Ex1506D | 1 | 14-3/8 | 4.12 | 360 | 1.87 |

Ex1507 Universal Joint



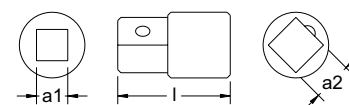
| No. | a inch | Wt. lbs. | kg |
|----------|-----------|-------------|------|
| Ex1507AA | 1/4 | 0.07 | 0.03 |
| Ex1507A | 3/8 | 0.18 | 0.08 |
| Ex1507B | 1/2 | 0.35 | 0.16 |
| Ex1507C | 3/4 | 1.26 | 0.57 |
| Ex1507D | 1 | 2.43 | 1.10 |

Ex1508 Offset Grip Handle *Copper Beryllium (CuBe) only*



| No. | a inch | l ₁ inch | l ₂ inch | Wt. lbs. | l ₁ mm | l ₂ mm | kg |
|-----------|-----------|------------------------|------------------------|-------------|----------------------|----------------------|------|
| Ex1508A-B | 3/8 | 6-11/16 | 2 | 0.66 | 168 | 50 | 0.30 |
| Ex1508B-B | 1/2 | 7-3/8 | 2-3/16 | 0.93 | 184 | 55 | 0.42 |
| Ex1508C-B | 3/4 | 9-9/16 | 2-3/8 | 1.65 | 240 | 60 | 0.75 |
| Ex1508D-B | 1 | 11 | 2-9/16 | 2.47 | 275 | 65 | 1.12 |

Ex1509 Adapter/Converter

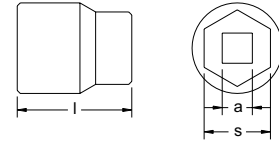


| No. | a ₁ inch | a ₂ inch | l inch | Wt. lbs. | l mm | kg |
|----------|------------------------|------------------------|-----------|-------------|---------|-------|
| Ex1509AB | 3/8 | 1/2 | 1-7/16 | 0.16 | 36 | 0.072 |
| Ex1509BC | 1/2 | 3/4 | 1-3/4 | 0.31 | 44 | 0.14 |
| Ex1509CB | 3/4 | 1/2 | 1-7/8 | 0.44 | 47 | 0.20 |
| Ex1509CD | 3/4 | 1 | 2-3/8 | 0.71 | 60 | 0.32 |
| Ex1509DC | 1 | 3/4 | 2-7/16 | 0.97 | 62 | 0.44 |

TIGHTENING

SOCKETS

Ex1503AA Socket 1/4" Drive 6-Point



TIGHTENING

| No. | a inch | s inch | l inch | Wt. lbs. |
|---------------|--------|--------|--------|----------|
| Ex1503AA-005U | 1/4 | 1/8 | 7/8 | 0.02 |
| Ex1503AA-010U | 1/4 | 3/16 | 7/8 | 0.02 |
| Ex1503AA-012U | 1/4 | 7/32 | 7/8 | 0.02 |
| Ex1503AA-015U | 1/4 | 1/4 | 7/8 | 0.02 |
| Ex1503AA-017U | 1/4 | 9/32 | 7/8 | 0.04 |
| Ex1503AA-020U | 1/4 | 5/16 | 7/8 | 0.04 |
| Ex1503AA-022U | 1/4 | 11/32 | 7/8 | 0.04 |
| Ex1503AA-025U | 1/4 | 3/8 | 7/8 | 0.04 |
| Ex1503AA-030U | 1/4 | 7/16 | 1 | 0.04 |
| Ex1503AA-035U | 1/4 | 1/2 | 1 | 0.07 |
| Ex1503AA-040U | 1/4 | 9/16 | 1 | 0.07 |

| No. | a inch | s mm | l mm | kg |
|--------------|--------|------|------|------|
| Ex1503AA-3 | 1/4 | 3 | 23 | 0.01 |
| Ex1503AA-4 | 1/4 | 4 | 23 | 0.01 |
| Ex1503AA-4.5 | 1/4 | 4.5 | 23 | 0.01 |
| Ex1503AA-5 | 1/4 | 5 | 23 | 0.01 |
| Ex1503AA-5.5 | 1/4 | 5.5 | 23 | 0.01 |
| Ex1503AA-6 | 1/4 | 6 | 23 | 0.01 |
| Ex1503AA-7 | 1/4 | 7 | 23 | 0.01 |
| Ex1503AA-8 | 1/4 | 8 | 23 | 0.02 |
| Ex1503AA-9 | 1/4 | 9 | 23 | 0.02 |
| Ex1503AA-10 | 1/4 | 10 | 23 | 0.02 |
| Ex1503AA-11 | 1/4 | 11 | 25 | 0.02 |
| Ex1503AA-12 | 1/4 | 12 | 25 | 0.03 |
| Ex1503AA-13 | 1/4 | 13 | 25 | 0.03 |
| Ex1503AA-14 | 1/4 | 14 | 25 | 0.03 |

Ex1503A Socket 3/8" Drive 6-Point

| No. | a inch | s inch | l inch | Wt. lbs. |
|--------------|--------|--------|--------|----------|
| Ex1503A-005U | 3/8 | 1/4 | 1-1/4 | 0.04 |
| Ex1503A-010U | 3/8 | 5/16 | 1-1/4 | 0.04 |
| Ex1503A-015U | 3/8 | 3/8 | 1-1/4 | 0.04 |
| Ex1503A-020U | 3/8 | 7/16 | 1-1/4 | 0.09 |
| Ex1503A-025U | 3/8 | 1/2 | 1-1/4 | 0.09 |
| Ex1503A-030U | 3/8 | 9/16 | 1-1/4 | 0.11 |
| Ex1503A-035U | 3/8 | 5/8 | 1-3/8 | 0.13 |
| Ex1503A-040U | 3/8 | 11/16 | 1-3/8 | 0.13 |
| Ex1503A-045U | 3/8 | 3/4 | 1-3/8 | 0.15 |
| Ex1503A-050U | 3/8 | 13/16 | 1-1/2 | 0.18 |
| Ex1503A-055U | 3/8 | 7/8 | 1-1/2 | 0.20 |

| No. | a inch | s mm | l mm | kg |
|------------|--------|------|------|------|
| Ex1503A-6 | 3/8 | 6 | 31 | 0.02 |
| Ex1503A-7 | 3/8 | 7 | 31 | 0.02 |
| Ex1503A-8 | 3/8 | 8 | 31 | 0.02 |
| Ex1503A-9 | 3/8 | 9 | 31 | 0.02 |
| Ex1503A-10 | 3/8 | 10 | 31 | 0.03 |
| Ex1503A-11 | 3/8 | 11 | 31 | 0.04 |
| Ex1503A-12 | 3/8 | 12 | 31 | 0.04 |
| Ex1503A-13 | 3/8 | 13 | 31 | 0.04 |
| Ex1503A-14 | 3/8 | 14 | 31 | 0.05 |
| Ex1503A-15 | 3/8 | 15 | 34 | 0.06 |
| Ex1503A-16 | 3/8 | 16 | 34 | 0.06 |
| Ex1503A-17 | 3/8 | 17 | 34 | 0.06 |
| Ex1503A-18 | 3/8 | 18 | 34 | 0.07 |
| Ex1503A-19 | 3/8 | 19 | 34 | 0.07 |
| Ex1503A-20 | 3/8 | 20 | 38 | 0.08 |
| Ex1503A-21 | 3/8 | 21 | 38 | 0.08 |
| Ex1503A-22 | 3/8 | 22 | 38 | 0.09 |

When ordering, specify:

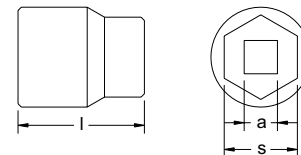
A = Aluminum Bronze

B = Copper Beryllium

Example: Ex1503B-005UA

or

Ex1503B-005UB



**Ex1503B
Socket 1/2" Drive**

6-Point

| No. | a inch | s inch | l inch | Wt. lbs. |
|--------------|-----------|-----------|-----------|-------------|
| Ex1503B-005U | 1/2 | 1/4 | 1-1/2 | 0.15 |
| Ex1503B-010U | 1/2 | 5/16 | 1-1/2 | 0.18 |
| Ex1503B-015U | 1/2 | 3/8 | 1-1/2 | 0.18 |
| Ex1503B-020U | 1/2 | 7/16 | 1-1/2 | 0.18 |
| Ex1503B-025U | 1/2 | 1/2 | 1-1/2 | 0.18 |
| Ex1503B-030U | 1/2 | 9/16 | 1-1/2 | 0.18 |
| Ex1503B-033U | 1/2 | 19/32 | 1-1/2 | 0.20 |
| Ex1503B-035U | 1/2 | 5/8 | 1-1/2 | 0.20 |
| Ex1503B-040U | 1/2 | 11/16 | 1-1/2 | 0.22 |
| Ex1503B-045U | 1/2 | 3/4 | 1-1/2 | 0.24 |
| Ex1503B-047U | 1/2 | 25/32 | 1-1/2 | 0.24 |
| Ex1503B-050U | 1/2 | 13/16 | 1-1/2 | 0.24 |
| Ex1503B-055U | 1/2 | 7/8 | 1-1/2 | 0.26 |
| Ex1503B-060U | 1/2 | 15/16 | 1-1/2 | 0.31 |
| Ex1503B-065U | 1/2 | 1 | 1-1/2 | 0.31 |
| Ex1503B-070U | 1/2 | 1-1/16 | 1-9/16 | 0.40 |
| Ex1503B-075U | 1/2 | 1-1/8 | 1-9/16 | 0.44 |
| Ex1503B-080U | 1/2 | 1-3/16 | 1-11/16 | 0.46 |
| Ex1503B-085U | 1/2 | 1-1/4 | 1-11/16 | 0.51 |
| Ex1503B-090U | 1/2 | 1-5/16 | 1-11/16 | 0.55 |
| Ex1503B-095U | 1/2 | 1-3/8 | 1-11/16 | 0.60 |
| Ex1503B-100U | 1/2 | 1-7/16 | 1-11/16 | 0.64 |
| Ex1503B-110U | 1/2 | 1-1/2 | 1-11/16 | 0.69 |

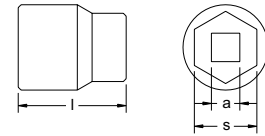
| No. | a inch | s mm | l mm | Wt. kg |
|------------|-----------|---------|---------|-----------|
| Ex1503B-6 | 1/2 | 6 | 38 | 0.07 |
| Ex1503B-7 | 1/2 | 7 | 38 | 0.07 |
| Ex1503B-8 | 1/2 | 8 | 38 | 0.08 |
| Ex1503B-9 | 1/2 | 9 | 38 | 0.08 |
| Ex1503B-10 | 1/2 | 10 | 38 | 0.08 |
| Ex1503B-11 | 1/2 | 11 | 38 | 0.08 |
| Ex1503B-12 | 1/2 | 12 | 38 | 0.08 |
| Ex1503B-13 | 1/2 | 13 | 38 | 0.08 |
| Ex1503B-14 | 1/2 | 14 | 38 | 0.08 |
| Ex1503B-15 | 1/2 | 15 | 38 | 0.08 |
| Ex1503B-16 | 1/2 | 16 | 38 | 0.09 |
| Ex1503B-17 | 1/2 | 17 | 38 | 0.10 |
| Ex1503B-18 | 1/2 | 18 | 38 | 0.11 |
| Ex1503B-19 | 1/2 | 19 | 38 | 0.11 |
| Ex1503B-20 | 1/2 | 20 | 38 | 0.11 |
| Ex1503B-21 | 1/2 | 21 | 38 | 0.11 |
| Ex1503B-22 | 1/2 | 22 | 38 | 0.12 |
| Ex1503B-23 | 1/2 | 23 | 38 | 0.13 |
| Ex1503B-24 | 1/2 | 24 | 38 | 0.14 |
| Ex1503B-25 | 1/2 | 25 | 38 | 0.14 |
| Ex1503B-26 | 1/2 | 26 | 38 | 0.16 |
| Ex1503B-27 | 1/2 | 27 | 40 | 0.18 |
| Ex1503B-28 | 1/2 | 28 | 40 | 0.20 |
| Ex1503B-29 | 1/2 | 29 | 40 | 0.20 |
| Ex1503B-30 | 1/2 | 30 | 42 | 0.21 |
| Ex1503B-32 | 1/2 | 32 | 42 | 0.23 |

TIGHTENING

Socket Kits – see pages 77-80

40

Ex1503C
Socket 3/4" Drive
6-Point



| No. | a inch | s inch | l inch | Wt. lbs. |
|--------------|--------|---------|---------|----------|
| Ex1503C-005U | 3/4 | 3/4 | 1-5/16 | 0.53 |
| Ex1503C-010U | 3/4 | 13/16 | 1-5/16 | 0.53 |
| Ex1503C-015U | 3/4 | 7/8 | 1-5/16 | 0.55 |
| Ex1503C-020U | 3/4 | 15/16 | 1-5/16 | 0.57 |
| Ex1503C-025U | 3/4 | 1 | 1-5/16 | 0.57 |
| Ex1503C-030U | 3/4 | 1-1/16 | 2 | 0.57 |
| Ex1503C-035U | 3/4 | 1-1/8 | 2 | 0.57 |
| Ex1503C-040U | 3/4 | 1-3/16 | 2 | 0.62 |
| Ex1503C-045U | 3/4 | 1-1/4 | 2-1/8 | 0.68 |
| Ex1503C-050U | 3/4 | 1-5/16 | 2-1/8 | 0.71 |
| Ex1503C-055U | 3/4 | 1-3/8 | 2-1/8 | 0.84 |
| Ex1503C-060U | 3/4 | 1-7/16 | 2-1/4 | 1.01 |
| Ex1503C-065U | 3/4 | 1-1/2 | 2-1/4 | 1.12 |
| Ex1503C-070U | 3/4 | 1-9/16 | 2-1/4 | 1.28 |
| Ex1503C-075U | 3/4 | 1-5/8 | 2-3/8 | 1.37 |
| Ex1503C-080U | 3/4 | 1-11/16 | 2-3/8 | 1.37 |
| Ex1503C-085U | 3/4 | 1-3/4 | 2-5/8 | 1.50 |
| Ex1503C-090U | 3/4 | 1-13/16 | 2-5/8 | 1.81 |
| Ex1503C-095U | 3/4 | 1-7/8 | 2-5/8 | 1.85 |
| Ex1503C-100U | 3/4 | 1-15/16 | 2-11/16 | 1.98 |
| Ex1503C-105U | 3/4 | 2 | 2-11/16 | 2.03 |

| No. | a inch | s mm | l mm | Wt. kg |
|------------|--------|------|------|--------|
| Ex1503C-19 | 3/4 | 19 | 49 | 0.24 |
| Ex1503C-20 | 3/4 | 20 | 49 | 0.24 |
| Ex1503C-21 | 3/4 | 21 | 49 | 0.24 |
| Ex1503C-22 | 3/4 | 22 | 49 | 0.25 |
| Ex1503C-23 | 3/4 | 23 | 49 | 0.26 |
| Ex1503C-24 | 3/4 | 24 | 49 | 0.26 |
| Ex1503C-25 | 3/4 | 25 | 49 | 0.26 |
| Ex1503C-26 | 3/4 | 26 | 50 | 0.26 |
| Ex1503C-27 | 3/4 | 27 | 50 | 0.26 |
| Ex1503C-28 | 3/4 | 28 | 50 | 0.26 |
| Ex1503C-29 | 3/4 | 29 | 50 | 0.28 |
| Ex1503C-30 | 3/4 | 30 | 50 | 0.28 |
| Ex1503C-31 | 3/4 | 31 | 54 | 0.31 |
| Ex1503C-32 | 3/4 | 32 | 54 | 0.32 |
| Ex1503C-34 | 3/4 | 34 | 54 | 0.38 |
| Ex1503C-35 | 3/4 | 35 | 54 | 0.46 |
| Ex1503C-36 | 3/4 | 36 | 56 | 0.46 |
| Ex1503C-37 | 3/4 | 37 | 56 | 0.51 |
| Ex1503C-38 | 3/4 | 38 | 56 | 0.51 |
| Ex1503C-39 | 3/4 | 39 | 56 | 0.58 |
| Ex1503C-40 | 3/4 | 40 | 60 | 0.62 |
| Ex1503C-41 | 3/4 | 41 | 60 | 0.62 |
| Ex1503C-42 | 3/4 | 42 | 60 | 0.62 |
| Ex1503C-43 | 3/4 | 43 | 60 | 0.68 |
| Ex1503C-44 | 3/4 | 44 | 66 | 0.68 |
| Ex1503C-45 | 3/4 | 45 | 66 | 0.80 |
| Ex1503C-46 | 3/4 | 46 | 66 | 0.82 |
| Ex1503C-47 | 3/4 | 47 | 66 | 0.84 |
| Ex1503C-48 | 3/4 | 48 | 68 | 0.87 |
| Ex1503C-49 | 3/4 | 49 | 68 | 0.90 |
| Ex1503C-50 | 3/4 | 50 | 68 | 0.92 |

Ex1503D
Socket 1" Drive
6-Point

| No. | a inch | s inch | l inch | Wt. lbs. |
|--------------|--------|---------|---------|----------|
| Ex1503D-005U | 1 | 1-1/16 | 2-3/4 | 1.15 |
| Ex1503D-010U | 1 | 1-1/8 | 2-3/4 | 1.15 |
| Ex1503D-015U | 1 | 1-3/16 | 2-3/4 | 1.15 |
| Ex1503D-020U | 1 | 1-1/4 | 2-3/4 | 1.15 |
| Ex1503D-025U | 1 | 1-5/16 | 2-3/4 | 1.46 |
| Ex1503D-030U | 1 | 1-3/8 | 2-3/4 | 1.46 |
| Ex1503D-035U | 1 | 1-7/16 | 2-3/4 | 1.46 |
| Ex1503D-040U | 1 | 1-1/2 | 2-3/4 | 1.46 |
| Ex1503D-045U | 1 | 1-5/8 | 2-3/4 | 1.70 |
| Ex1503D-050U | 1 | 1-11/16 | 2-3/4 | 1.70 |
| Ex1503D-055U | 1 | 1-3/4 | 2-3/4 | 1.70 |
| Ex1503D-060U | 1 | 1-13/16 | 2-3/4 | 1.96 |
| Ex1503D-065U | 1 | 1-7/8 | 2-3/4 | 1.70 |
| Ex1503D-070U | 1 | 1-15/16 | 2-3/4 | 1.96 |
| Ex1503D-075U | 1 | 2 | 2-3/4 | 2.12 |
| Ex1503D-080U | 1 | 2-1/16 | 2-15/16 | 2.69 |
| Ex1503D-085U | 1 | 2-1/18 | 2-15/16 | 2.69 |
| Ex1503D-090U | 1 | 2-3/16 | 2-15/16 | 2.69 |
| Ex1503D-095U | 1 | 2-1/4 | 3-1/8 | 3.13 |

| No. | a inch | s mm | l mm | Wt. kg |
|------------|--------|------|------|--------|
| Ex1503D-32 | 1 | 32 | 70 | 0.52 |
| Ex1503D-36 | 1 | 36 | 70 | 0.66 |
| Ex1503D-41 | 1 | 41 | 70 | 0.77 |
| Ex1503D-46 | 1 | 46 | 70 | 0.89 |
| Ex1503D-50 | 1 | 50 | 70 | 0.96 |
| Ex1503D-55 | 1 | 55 | 70 | 1.22 |
| Ex1503D-60 | 1 | 60 | 78 | 1.42 |
| Ex1503D-65 | 1 | 65 | 78 | 1.68 |
| Ex1503D-70 | 1 | 70 | 78 | 2.10 |
| Ex1503D-75 | 1 | 75 | 78 | 2.36 |
| Ex1503D-80 | 1 | 80 | 78 | 2.68 |

TIGHTENING

When ordering, specify:

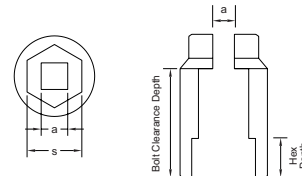
A = Aluminum Bronze

B = Copper Beryllium

Example: Ex1610-005UA

or

Ex1610-005UB



Ex1610 Socket, Standard Deep 1/4" Drive

6-Point

| No. | a inch | s inch | Bolt Clearance Depth inch | Hex Depth inch |
|-------------|--------|--------|---------------------------|----------------|
| Ex1610-005U | 1/4 | 1/8 | 1.54 | 0.4 |
| Ex1610-010U | 1/4 | 3/16 | 1.54 | 0.4 |
| Ex1610-012U | 1/4 | 7/32 | 1.54 | 0.4 |
| Ex1610-015U | 1/4 | 1/4 | 1.54 | 0.4 |
| Ex1610-017U | 1/4 | 9/32 | 1.54 | 0.4 |
| Ex1610-020U | 1/4 | 5/16 | 1.54 | 0.4 |
| Ex1610-022U | 1/4 | 11/32 | 1.54 | 0.4 |
| Ex1610-025U | 1/4 | 3/8 | 1.54 | 0.4 |
| Ex1610-030U | 1/4 | 7/16 | 1.54 | 0.4 |
| Ex1610-035U | 1/4 | 1/2 | 1.54 | 0.4 |
| Ex1610-040U | 1/4 | 9/16 | 1.54 | 0.4 |

| No. | a inch | s mm | Bolt Clearance Depth mm | Hex Depth mm |
|------------|--------|------|-------------------------|--------------|
| Ex1610-3 | 1/4 | 3 | 39 | 10 |
| Ex1610-4 | 1/4 | 4 | 39 | 10 |
| Ex1610-4.5 | 1/4 | 4.5 | 39 | 10 |
| Ex1610-5 | 1/4 | 5 | 39 | 10 |
| Ex1610-5.5 | 1/4 | 5.5 | 39 | 10 |
| Ex1610-6 | 1/4 | 6 | 39 | 10 |
| Ex1610-7 | 1/4 | 7 | 39 | 10 |
| Ex1610-8 | 1/4 | 8 | 39 | 10 |
| Ex1610-9 | 1/4 | 9 | 39 | 10 |
| Ex1610-10 | 1/4 | 10 | 39 | 10 |
| Ex1610-11 | 1/4 | 11 | 39 | 10 |
| Ex1610-12 | 1/4 | 12 | 39 | 10 |
| Ex1610-13 | 1/4 | 13 | 39 | 10 |
| Ex1610-14 | 1/4 | 14 | 39 | 10 |

TIGHTENING

Ex1620 Socket, Standard Deep 3/8" Drive

6-Point

| No. | a inch | s inch | Bolt Clearance Depth inch | Hex Depth inch |
|-------------|--------|--------|---------------------------|----------------|
| Ex1620-005U | 3/8 | 1/4 | 1.85 | 0.67 |
| Ex1620-010U | 3/8 | 5/16 | 1.85 | 0.67 |
| Ex1620-015U | 3/8 | 3/8 | 2.05 | 0.67 |
| Ex1620-020U | 3/8 | 7/16 | 2.05 | 0.67 |
| Ex1620-025U | 3/8 | 1/2 | 2.05 | 0.67 |
| Ex1620-030U | 3/8 | 9/16 | 2.05 | 0.67 |
| Ex1620-035U | 3/8 | 5/8 | 2.25 | 0.87 |
| Ex1620-040U | 3/8 | 11/16 | 2.25 | 0.87 |
| Ex1620-045U | 3/8 | 3/4 | 2.25 | 0.87 |
| Ex1620-050U | 3/8 | 13/16 | 2.13 | 0.87 |
| Ex1620-055U | 3/8 | 7/8 | 2.13 | 0.87 |
| Ex1620-060U | 3/8 | 15/16 | 2.13 | 0.87 |
| Ex1620-065U | 3/8 | 1 | 2.13 | 0.87 |

| No. | a inch | s mm | Bolt Clearance Depth mm | Hex Depth mm |
|-----------|--------|------|-------------------------|--------------|
| Ex1620-6 | 3/8 | 6 | 47 | 17 |
| Ex1620-7 | 3/8 | 7 | 47 | 17 |
| Ex1620-8 | 3/8 | 8 | 47 | 17 |
| Ex1620-9 | 3/8 | 9 | 52 | 17 |
| Ex1620-10 | 3/8 | 10 | 52 | 17 |
| Ex1620-11 | 3/8 | 11 | 52 | 17 |
| Ex1620-12 | 3/8 | 12 | 52 | 17 |
| Ex1620-13 | 3/8 | 13 | 52 | 17 |
| Ex1620-14 | 3/8 | 14 | 52 | 17 |
| Ex1620-15 | 3/8 | 15 | 57 | 22 |
| Ex1620-16 | 3/8 | 16 | 57 | 22 |
| Ex1620-17 | 3/8 | 17 | 57 | 22 |
| Ex1620-18 | 3/8 | 18 | 57 | 22 |
| Ex1620-19 | 3/8 | 19 | 57 | 22 |
| Ex1620-20 | 3/8 | 20 | 54 | 22 |
| Ex1620-21 | 3/8 | 21 | 54 | 22 |
| Ex1620-22 | 3/8 | 22 | 54 | 22 |
| Ex1620-23 | 3/8 | 23 | 54 | 22 |
| Ex1620-24 | 3/8 | 24 | 54 | 22 |
| Ex1620-25 | 3/8 | 25 | 54 | 22 |



When ordering, specify:

A = Aluminum Bronze

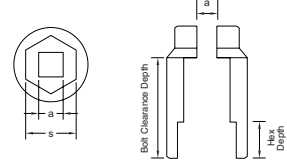
B = Copper Beryllium

Example: Ex1630-005UA

or

Ex1630-005UB

Ex1630
Socket, Standard Deep 1/2" Drive
6-Point



TIGHTENING

| No. | a inch | s inch | Bolt Clearance Depth inch | Hex Depth inch |
|-------------|--------|--------|---------------------------|----------------|
| Ex1630-005U | 1/2 | 1/4 | 2.67 | 0.98 |
| Ex1630-010U | 1/2 | 5/16 | 2.67 | 0.98 |
| Ex1630-015U | 1/2 | 3/8 | 2.67 | 0.98 |
| Ex1630-020U | 1/2 | 7/16 | 2.67 | 0.98 |
| Ex1630-025U | 1/2 | 1/2 | 2.67 | 0.98 |
| Ex1630-030U | 1/2 | 9/16 | 2.67 | 0.98 |
| Ex1630-032U | 1/2 | 19/32 | 2.67 | 0.98 |
| Ex1630-035U | 1/2 | 5/8 | 2.67 | 0.98 |
| Ex1630-040U | 1/2 | 11/16 | 2.67 | 0.98 |
| Ex1630-045U | 1/2 | 3/4 | 2.67 | 0.98 |
| Ex1630-047U | 1/2 | 25/32 | 2.67 | 0.98 |
| Ex1630-050U | 1/2 | 13/16 | 2.67 | 0.98 |
| Ex1630-055U | 1/2 | 7/8 | 2.67 | 0.98 |
| Ex1630-060U | 1/2 | 15/16 | 2.67 | 0.98 |
| Ex1630-065U | 1/2 | 1 | 2.67 | 0.98 |
| Ex1630-070U | 1/2 | 1-1/16 | 2.67 | 0.98 |
| Ex1630-075U | 1/2 | 1-1/8 | 2.67 | 0.98 |
| Ex1630-080U | 1/2 | 1-3/16 | 2.67 | 0.98 |
| Ex1630-085U | 1/2 | 1-1/4 | 2.67 | 0.98 |
| Ex1630-090U | 1/2 | 1-5/16 | 2.67 | 0.98 |
| Ex1630-095U | 1/2 | 1-3/8 | 2.67 | 0.98 |
| Ex1630-100U | 1/2 | 1-7/16 | 2.67 | 0.98 |
| Ex1630-110U | 1/2 | 1-1/2 | 2.67 | 0.98 |
| Ex1630-115U | 1/2 | 1-9/16 | 2.67 | 0.98 |
| Ex1630-120U | 1/2 | 1-5/8 | 2.67 | 0.98 |

| No. | a inch | s mm | Bolt Clearance Depth mm | Hex Depth mm |
|-----------|--------|------|-------------------------|--------------|
| Ex1630-6 | 1/2 | 6 | 68 | 25 |
| Ex1630-7 | 1/2 | 7 | 68 | 25 |
| Ex1630-8 | 1/2 | 8 | 68 | 25 |
| Ex1630-9 | 1/2 | 9 | 68 | 25 |
| Ex1630-10 | 1/2 | 10 | 68 | 25 |
| Ex1630-11 | 1/2 | 11 | 68 | 25 |
| Ex1630-12 | 1/2 | 12 | 68 | 25 |
| Ex1630-13 | 1/2 | 13 | 68 | 25 |
| Ex1630-14 | 1/2 | 14 | 68 | 25 |
| Ex1630-15 | 1/2 | 15 | 68 | 25 |
| Ex1630-16 | 1/2 | 16 | 68 | 25 |
| Ex1630-17 | 1/2 | 17 | 68 | 25 |
| Ex1630-18 | 1/2 | 18 | 68 | 25 |
| Ex1630-19 | 1/2 | 19 | 68 | 25 |
| Ex1630-20 | 1/2 | 20 | 68 | 28 |
| Ex1630-21 | 1/2 | 21 | 68 | 28 |
| Ex1630-22 | 1/2 | 22 | 68 | 28 |
| Ex1630-23 | 1/2 | 23 | 68 | 28 |
| Ex1630-24 | 1/2 | 24 | 68 | 28 |
| Ex1630-25 | 1/2 | 25 | 68 | 28 |
| Ex1630-26 | 1/2 | 26 | 68 | 28 |
| Ex1630-27 | 1/2 | 27 | 68 | 28 |
| Ex1630-28 | 1/2 | 28 | 68 | 28 |
| Ex1630-29 | 1/2 | 29 | 68 | 28 |
| Ex1630-30 | 1/2 | 30 | 68 | 28 |
| Ex1630-32 | 1/2 | 32 | 68 | 28 |

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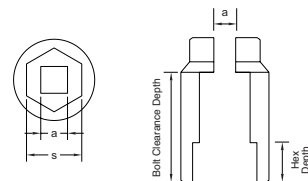
A = Aluminum Bronze

B = Copper Beryllium

Example: Ex1640-005UA

or

Ex1640-005UB



Ex1640 Socket, Standard Deep 3/4" Drive

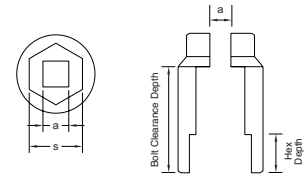
6-Point

| No. | a inch | s inch | Bolt Clearance Depth inch | Hex Depth inch |
|-------------|-----------|-----------|------------------------------------|----------------------|
| Ex1640-005U | 3/4 | 3/4 | 2.67 | 1.02 |
| Ex1640-010U | 3/4 | 13/16 | 2.67 | 1.02 |
| Ex1640-015U | 3/4 | 7/8 | 2.67 | 1.02 |
| Ex1640-020U | 3/4 | 15/16 | 2.67 | 1.02 |
| Ex1640-025U | 3/4 | 1 | 2.56 | 1.10 |
| Ex1640-030U | 3/4 | 1-1/16 | 2.56 | 1.10 |
| Ex1640-035U | 3/4 | 1-1/8 | 2.56 | 1.10 |
| Ex1640-040U | 3/4 | 1-3/16 | 2.56 | 1.10 |
| Ex1640-045U | 3/4 | 1-1/4 | 2.56 | 1.10 |
| Ex1640-050U | 3/4 | 1-5/16 | 2.56 | 1.10 |
| Ex1640-055U | 3/4 | 1-3/8 | 2.56 | 1.10 |
| Ex1640-060U | 3/4 | 1-7/16 | 2.95 | 1.26 |
| Ex1640-065U | 3/4 | 1-1/2 | 2.87 | 1.26 |
| Ex1640-070U | 3/4 | 1-9/16 | 2.87 | 1.26 |
| Ex1640-075U | 3/4 | 1-5/8 | 2.87 | 1.26 |
| Ex1640-080U | 3/4 | 1-11/16 | 2.87 | 1.26 |
| Ex1640-085U | 3/4 | 1-3/4 | 2.87 | 1.26 |
| Ex1640-090U | 3/4 | 1-13/16 | 2.87 | 1.26 |
| Ex1640-095U | 3/4 | 1-7/8 | 2.87 | 1.26 |
| Ex1640-100U | 3/4 | 1-15/16 | 2.87 | 1.26 |
| Ex1640-105U | 3/4 | 2 | 2.87 | 1.26 |
| Ex1640-110U | 3/4 | 2-1/16 | 2.87 | 1.26 |
| Ex1640-115U | 3/4 | 2-1/8 | 2.87 | 1.26 |
| Ex1640-120U | 3/4 | 2-3/16 | 2.87 | 1.26 |
| Ex1640-125U | 3/4 | 2-1/4 | 2.87 | 1.26 |
| Ex1640-130U | 3/4 | 2-5/16 | 2.87 | 1.26 |
| Ex1640-135U | 3/4 | 2-3/8 | 2.87 | 1.26 |

| No. | a inch | s mm | Bolt Clearance Depth mm | Hex Depth mm |
|-----------|-----------|---------|----------------------------------|--------------------|
| Ex1640-19 | 3/4 | 19 | 68 | 26 |
| Ex1640-20 | 3/4 | 20 | 68 | 26 |
| Ex1640-21 | 3/4 | 21 | 68 | 26 |
| Ex1640-22 | 3/4 | 22 | 68 | 26 |
| Ex1640-23 | 3/4 | 23 | 68 | 26 |
| Ex1640-24 | 3/4 | 24 | 65 | 28 |
| Ex1640-25 | 3/4 | 25 | 65 | 28 |
| Ex1640-26 | 3/4 | 26 | 65 | 28 |
| Ex1640-27 | 3/4 | 27 | 65 | 32 |
| Ex1640-28 | 3/4 | 28 | 65 | 32 |
| Ex1640-29 | 3/4 | 29 | 65 | 32 |
| Ex1640-30 | 3/4 | 30 | 65 | 32 |
| Ex1640-31 | 3/4 | 31 | 65 | 32 |
| Ex1640-32 | 3/4 | 32 | 65 | 32 |
| Ex1640-33 | 3/4 | 33 | 65 | 32 |
| Ex1640-34 | 3/4 | 34 | 65 | 32 |
| Ex1640-35 | 3/4 | 35 | 65 | 32 |
| Ex1640-36 | 3/4 | 36 | 65 | 32 |
| Ex1640-37 | 3/4 | 37 | 73 | 32 |
| Ex1640-38 | 3/4 | 38 | 73 | 32 |
| Ex1640-39 | 3/4 | 39 | 73 | 32 |
| Ex1640-40 | 3/4 | 40 | 73 | 32 |
| Ex1640-41 | 3/4 | 41 | 73 | 32 |
| Ex1640-42 | 3/4 | 42 | 73 | 32 |
| Ex1640-43 | 3/4 | 43 | 73 | 32 |
| Ex1640-44 | 3/4 | 44 | 73 | 32 |
| Ex1640-45 | 3/4 | 45 | 73 | 32 |
| Ex1640-46 | 3/4 | 46 | 73 | 32 |
| Ex1640-47 | 3/4 | 47 | 73 | 32 |
| Ex1640-48 | 3/4 | 48 | 73 | 32 |
| Ex1640-49 | 3/4 | 49 | 73 | 32 |
| Ex1640-50 | 3/4 | 50 | 73 | 32 |

TIGHTENING

Ex1650
Socket, Standard Deep 1" Drive
 6-Point

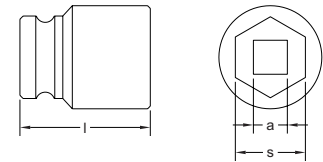


| No. | a inch | s inch | Bolt Clearance Depth inch | Hex Depth inch |
|-------------|--------|---------|---------------------------|----------------|
| Ex1650-005U | 1 | 1-1/16 | 2.76 | 1.26 |
| Ex1650-010U | 1 | 1-1/8 | 2.76 | 1.26 |
| Ex1650-015U | 1 | 1-3/16 | 2.76 | 1.26 |
| Ex1650-020U | 1 | 1-1/4 | 2.76 | 1.26 |
| Ex1650-025U | 1 | 1-5/16 | 2.76 | 1.26 |
| Ex1650-030U | 1 | 1-3/8 | 2.76 | 1.26 |
| Ex1650-035U | 1 | 1-7/16 | 2.76 | 1.26 |
| Ex1650-040U | 1 | 1-1/2 | 2.76 | 1.26 |
| Ex1650-045U | 1 | 1-5/8 | 2.76 | 1.26 |
| Ex1650-050U | 1 | 1-11/16 | 2.76 | 1.26 |
| Ex1650-055U | 1 | 1-3/4 | 2.76 | 1.26 |
| Ex1650-060U | 1 | 1-13/16 | 2.76 | 1.26 |
| Ex1650-065U | 1 | 1-7/8 | 2.76 | 1.26 |
| Ex1650-070U | 1 | 1-15/16 | 2.76 | 1.26 |
| Ex1650-075U | 1 | 2 | 2.76 | 1.26 |
| Ex1650-080U | 1 | 2-1/16 | 2.76 | 1.26 |
| Ex1650-085U | 1 | 2-1/8 | 2.76 | 1.26 |
| Ex1650-090U | 1 | 2-3/16 | 2.76 | 1.26 |
| Ex1650-095U | 1 | 2-1/4 | 2.76 | 1.26 |
| Ex1650-100U | 1 | 2-5/16 | 2.76 | 1.26 |
| Ex1650-105U | 1 | 2-3/8 | 2.76 | 1.26 |
| Ex1650-110U | 1 | 2-7/16 | 2.76 | 1.26 |
| Ex1650-115U | 1 | 2-1/2 | 2.76 | 1.26 |
| Ex1650-120U | 1 | 2-9/16 | 2.76 | 1.26 |
| Ex1650-125U | 1 | 2-5/8 | 2.76 | 1.26 |

| No. | a inch | s mm | Bolt Clearance Depth mm | Hex Depth mm |
|-----------|--------|------|-------------------------|--------------|
| Ex1650-32 | 1 | 32 | 70 | 32 |
| Ex1650-36 | 1 | 36 | 70 | 32 |
| Ex1650-41 | 1 | 41 | 70 | 32 |
| Ex1650-46 | 1 | 46 | 70 | 32 |
| Ex1650-50 | 1 | 50 | 70 | 32 |
| Ex1650-55 | 1 | 55 | 70 | 32 |
| Ex1650-60 | 1 | 60 | 70 | 32 |
| Ex1650-65 | 1 | 65 | 70 | 32 |
| Ex1650-70 | 1 | 70 | 70 | 32 |
| Ex1650-75 | 1 | 75 | 70 | 32 |
| Ex1650-80 | 1 | 80 | 70 | 32 |

TIGHTENING

Ex1720
Socket, Impact 3/8" Drive
 Copper Beryllium (CuBe) only
 6-Point



| No. | a inch | s inch | l inch | Wt. lbs. |
|--------------|--------|--------|--------|----------|
| Ex1720-005UB | 3/8 | 1/4 | 1-1/4 | 0.11 |
| Ex1720-010UB | 3/8 | 5/16 | 1-1/4 | 0.11 |
| Ex1720-015UB | 3/8 | 3/8 | 1-1/4 | 0.11 |
| Ex1720-020UB | 3/8 | 7/16 | 1-1/4 | 0.11 |
| Ex1720-025UB | 3/8 | 1/2 | 1-1/4 | 0.15 |
| Ex1720-030UB | 3/8 | 9/16 | 1-1/4 | 0.15 |
| Ex1720-035UB | 3/8 | 5/8 | 1-3/8 | 0.17 |
| Ex1720-040UB | 3/8 | 11/16 | 1-3/8 | 0.18 |
| Ex1720-045UB | 3/8 | 3/4 | 1-3/8 | 0.20 |

| No. | a inch | s mm | l mm | kg |
|------------|--------|------|------|-------|
| Ex1720-7B | 3/8 | 7 | 31 | 0.049 |
| Ex1720-8B | 3/8 | 8 | 31 | 0.049 |
| Ex1720-9B | 3/8 | 9 | 31 | 0.049 |
| Ex1720-10B | 3/8 | 10 | 31 | 0.049 |
| Ex1720-11B | 3/8 | 11 | 31 | 0.048 |
| Ex1720-12B | 3/8 | 12 | 31 | 0.046 |
| Ex1720-13B | 3/8 | 13 | 31 | 0.066 |
| Ex1720-14B | 3/8 | 14 | 31 | 0.066 |
| Ex1720-15B | 3/8 | 15 | 34 | 0.068 |
| Ex1720-16B | 3/8 | 16 | 34 | 0.077 |
| Ex1720-17B | 3/8 | 17 | 34 | 0.082 |
| Ex1720-18B | 3/8 | 18 | 34 | 0.087 |
| Ex1720-19B | 3/8 | 19 | 34 | 0.092 |

When ordering, specify:

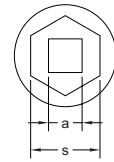
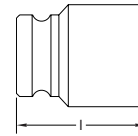
B = Copper Beryllium

Example: Ex1730-005UB

Ex1730 Socket, Impact 1/2" Drive

Copper Beryllium (CuBe) only

6-Point



| No. | a inch | s inch | l inch | Wt. lbs. |
|--------------|--------|--------|--------|----------|
| Ex1730-005UB | 1/2 | 5/16 | 1-9/16 | 0.24 |
| Ex1730-010UB | 1/2 | 3/8 | 1-9/16 | 0.24 |
| Ex1730-015UB | 1/2 | 7/16 | 1-9/16 | 0.24 |
| Ex1730-020UB | 1/2 | 1/2 | 1-9/16 | 0.24 |
| Ex1730-025UB | 1/2 | 9/16 | 1-9/16 | 0.24 |
| Ex1730-030UB | 1/2 | 5/8 | 1-9/16 | 0.37 |
| Ex1730-035UB | 1/2 | 11/16 | 1-9/16 | 0.37 |
| Ex1730-040UB | 1/2 | 3/4 | 1-9/16 | 0.37 |
| Ex1730-045UB | 1/2 | 13/16 | 1-9/16 | 0.40 |
| Ex1730-050UB | 1/2 | 7/8 | 1-9/16 | 0.44 |
| Ex1730-055UB | 1/2 | 15/16 | 1-9/16 | 0.44 |
| Ex1730-060UB | 1/2 | 1 | 1-9/16 | 0.44 |
| Ex1730-065UB | 1/2 | 1-1/16 | 1-9/16 | 0.46 |
| Ex1730-070UB | 1/2 | 1-1/8 | 1-9/16 | 0.49 |
| Ex1730-075UB | 1/2 | 1-3/16 | 1-9/16 | 0.53 |

| No. | a inch | s mm | l mm | kg |
|------------|--------|------|------|------|
| Ex1730-8B | 1/2 | 8 | 40 | 0.11 |
| Ex1730-9B | 1/2 | 9 | 40 | 0.11 |
| Ex1730-10B | 1/2 | 10 | 40 | 0.11 |
| Ex1730-11B | 1/2 | 11 | 40 | 0.11 |
| Ex1730-12B | 1/2 | 12 | 40 | 0.11 |
| Ex1730-13B | 1/2 | 13 | 40 | 0.11 |
| Ex1730-14B | 1/2 | 14 | 40 | 0.11 |
| Ex1730-15B | 1/2 | 15 | 40 | 0.17 |
| Ex1730-16B | 1/2 | 16 | 40 | 0.17 |
| Ex1730-17B | 1/2 | 17 | 40 | 0.17 |
| Ex1730-18B | 1/2 | 18 | 40 | 0.16 |
| Ex1730-19B | 1/2 | 19 | 40 | 0.17 |
| Ex1730-21B | 1/2 | 21 | 40 | 0.18 |
| Ex1730-22B | 1/2 | 22 | 40 | 0.20 |
| Ex1730-24B | 1/2 | 24 | 40 | 0.19 |
| Ex1730-27B | 1/2 | 27 | 40 | 0.21 |
| Ex1730-28B | 1/2 | 28 | 40 | 0.22 |
| Ex1730-29B | 1/2 | 29 | 40 | 0.22 |
| Ex1730-30B | 1/2 | 30 | 40 | 0.24 |

TIGHTENING

Ex1740 Socket, Impact 3/4" Drive

Copper Beryllium (CuBe) only

6-Point

| No. | a inch | s inch | l inch | Wt. lbs. |
|--------------|--------|--------|---------|----------|
| Ex1740-005UB | 3/4 | 3/4 | 1-15/16 | 1.04 |
| Ex1740-010UB | 3/4 | 13/16 | 1-15/16 | 1.04 |
| Ex1740-015UB | 3/4 | 7/8 | 1-15/16 | 1.04 |
| Ex1740-020UB | 3/4 | 15/16 | 1-15/16 | 1.04 |
| Ex1740-030UB | 3/4 | 1-1/16 | 2 | 1.06 |
| Ex1740-035UB | 3/4 | 1-1/8 | 2 | 1.04 |
| Ex1740-040UB | 3/4 | 1-3/16 | 2 | 1.10 |
| Ex1740-045UB | 3/4 | 1-1/4 | 2-1/8 | 1.26 |
| Ex1740-047UB | 3/4 | 1-5/16 | 2-1/8 | 1.32 |
| Ex1740-050UB | 3/4 | 1-3/8 | 2-1/8 | 1.32 |
| Ex1740-055UB | 3/4 | 1-7/16 | 2-1/4 | 1.46 |
| Ex1740-070UB | 3/4 | 1-5/8 | 2-5/16 | 1.72 |

| No. | a inch | s mm | l mm | kg |
|------------|--------|------|------|------|
| Ex1740-19B | 3/4 | 19 | 49 | 0.47 |
| Ex1740-21B | 3/4 | 21 | 49 | 0.47 |
| Ex1740-22B | 3/4 | 22 | 49 | 0.47 |
| Ex1740-23B | 3/4 | 23 | 49 | 0.47 |
| Ex1740-24B | 3/4 | 24 | 49 | 0.51 |
| Ex1740-27B | 3/4 | 27 | 50 | 0.48 |
| Ex1740-29B | 3/4 | 29 | 50 | 0.47 |
| Ex1740-30B | 3/4 | 30 | 50 | 0.50 |
| Ex1740-32B | 3/4 | 32 | 54 | 0.57 |
| Ex1740-34B | 3/4 | 34 | 54 | 0.60 |
| Ex1740-36B | 3/4 | 36 | 56 | 0.66 |
| Ex1740-41B | 3/4 | 41 | 58 | 0.78 |
| Ex1740-46B | 3/4 | 46 | 63 | 0.96 |

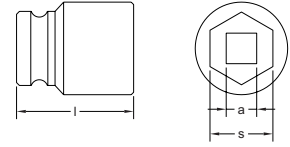


**Impact Wrenches – Pneumatic and Hydraulic
1/2", 3/4", 1" and 1-1/2" Sq. Drive
ATEX Classified for use in Ex Zones
Ex II 2 GcT6 and Ex II 2 GcT5
See page 89**

**Ex1750
 Socket, Impact 1" Drive**

Copper Beryllium (CuBe) only

6-Point



TIGHTENING

| No. | a inch | s inch | l inch | Wt. lbs. |
|--------------|--------|---------|---------|----------|
| Ex1750-005UB | 1 | 7/8 | 2-3/8 | 1.76 |
| Ex1750-010UB | 1 | 15/16 | 2-3/8 | 1.79 |
| Ex1750-013UB | 1 | 1 | 2-3/8 | 1.79 |
| Ex1750-015UB | 1 | 1-1/16 | 2-3/8 | 1.79 |
| Ex1750-017UB | 1 | 1-1/8 | 2-1/2 | 1.90 |
| Ex1750-020UB | 1 | 1-3/16 | 2-1/2 | 1.90 |
| Ex1750-025UB | 1 | 1-1/4 | 2-1/2 | 1.90 |
| Ex1750-030UB | 1 | 1-3/8 | 2-1/2 | 1.85 |
| Ex1750-035UB | 1 | 1-7/16 | 2-11/16 | 2.12 |
| Ex1750-040UB | 1 | 1-1/2 | 2-11/16 | 2.23 |
| Ex1750-045UB | 1 | 1-5/8 | 2-3/4 | 2.49 |
| Ex1750-050UB | 1 | 1-11/16 | 2-3/4 | 2.78 |
| Ex1750-053UB | 1 | 1-3/4 | 2-3/4 | 2.78 |
| Ex1750-055UB | 1 | 1-13/16 | 2-3/4 | 2.78 |
| Ex1750-058UB | 1 | 1-7/8 | 2-3/4 | 3.00 |
| Ex1750-060UB | 1 | 2 | 2-3/4 | 3.00 |
| Ex1750-063UB | 1 | 2-1/8 | 2-15/16 | 3.48 |
| Ex1750-065UB | 1 | 2-3/16 | 2-15/16 | 3.48 |
| Ex1750-067UB | 1 | 2-1/4 | 2-15/16 | 3.48 |
| Ex1750-070UB | 1 | 2-3/8 | 3-1/8 | 4.01 |
| Ex1750-075UB | 1 | 2-9/16 | 3-1/8 | 4.34 |
| Ex1750-080UB | 1 | 2-3/4 | 3-1/8 | 4.63 |

| No. | a inch | s mm | l mm | kg |
|------------|--------|------|------|------|
| Ex1750-22B | 1 | 22 | 60 | 0.80 |
| Ex1750-24B | 1 | 24 | 60 | 0.81 |
| Ex1750-27B | 1 | 27 | 60 | 0.81 |
| Ex1750-30B | 1 | 30 | 63 | 0.86 |
| Ex1750-32B | 1 | 32 | 63 | 0.86 |
| Ex1750-34B | 1 | 34 | 63 | 0.84 |
| Ex1750-36B | 1 | 36 | 67 | 0.96 |
| Ex1750-38B | 1 | 38 | 67 | 1.01 |
| Ex1750-41B | 1 | 41 | 70 | 1.13 |
| Ex1750-42B | 1 | 42 | 70 | 1.20 |
| Ex1750-43B | 1 | 43 | 70 | 1.26 |
| Ex1750-46B | 1 | 46 | 70 | 1.26 |
| Ex1750-50B | 1 | 50 | 70 | 1.36 |
| Ex1750-55B | 1 | 55 | 74 | 1.58 |
| Ex1750-60B | 1 | 60 | 78 | 1.82 |
| Ex1750-65B | 1 | 65 | 78 | 1.97 |
| Ex1750-70B | 1 | 70 | 78 | 2.10 |

**Ex1760
 Socket, Impact 1-1/2" Drive**

Copper Beryllium (CuBe) only

6-Point

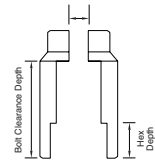
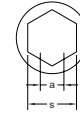
| No. | a inch | s inch | l inch | Wt. lbs. |
|--------------|--------|---------|--------|----------|
| Ex1760-005UB | 1-1/2 | 1-7/16 | 3-1/8 | 5.84 |
| Ex1760-010UB | 1-1/2 | 1-5/8 | 3-3/16 | 6.00 |
| Ex1760-015UB | 1-1/2 | 1-13/16 | 3-3/8 | 6.26 |
| Ex1760-020UB | 1-1/2 | 2 | 3-7/16 | 6.40 |
| Ex1760-025UB | 1-1/2 | 2-3/16 | 3-9/16 | 6.51 |
| Ex1760-030UB | 1-1/2 | 2-3/8 | 3-3/4 | 6.71 |
| Ex1760-035UB | 1-1/2 | 2-9/16 | 4 | 8.34 |
| Ex1760-040UB | 1-1/2 | 2-3/4 | 4-3/16 | 9.55 |

| No. | a inch | s mm | l mm | kg |
|------------|--------|------|------|------|
| Ex1760-36B | 1-1/2 | 36 | 78 | 2.65 |
| Ex1760-41B | 1-1/2 | 41 | 80 | 2.72 |
| Ex1760-46B | 1-1/2 | 46 | 84 | 2.84 |
| Ex1760-50B | 1-1/2 | 50 | 87 | 2.90 |
| Ex1760-55B | 1-1/2 | 55 | 90 | 2.95 |
| Ex1760-60B | 1-1/2 | 60 | 95 | 3.04 |
| Ex1760-65B | 1-1/2 | 65 | 100 | 3.79 |
| Ex1760-70B | 1-1/2 | 70 | 105 | 4.33 |

When ordering, specify:

B = Copper Beryllium

Example: Ex1820-005UB



Ex1820
Socket, Deep Impact 3/8" Drive *Copper Beryllium (CuBe) only*
6-Point

| No. | a inch | s inch | Bolt Clearance Depth inch | Hex Depth inch |
|--------------|--------|--------|---------------------------|----------------|
| Ex1820-005UB | 3/8 | 1/4 | 1.85 | 0.67 |
| Ex1820-010UB | 3/8 | 5/16 | 1.85 | 0.67 |
| Ex1820-015UB | 3/8 | 3/8 | 2.05 | 0.67 |
| Ex1820-020UB | 3/8 | 7/16 | 2.05 | 0.67 |
| Ex1820-025UB | 3/8 | 1/2 | 2.05 | 0.67 |
| Ex1820-030UB | 3/8 | 9/16 | 2.05 | 0.67 |
| Ex1820-035UB | 3/8 | 5/8 | 2.25 | 0.87 |
| Ex1820-040UB | 3/8 | 11/16 | 2.25 | 0.87 |
| Ex1820-045UB | 3/8 | 3/4 | 2.25 | 0.87 |

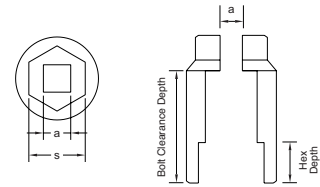
| No. | a inch | s mm | Bolt Clearance Depth mm | Hex Depth mm |
|------------|--------|------|-------------------------|--------------|
| Ex1820-7B | 3/8 | 7 | 47 | 17 |
| Ex1820-8B | 3/8 | 8 | 47 | 17 |
| Ex1820-9B | 3/8 | 9 | 52 | 17 |
| Ex1820-10B | 3/8 | 10 | 52 | 17 |
| Ex1820-11B | 3/8 | 11 | 52 | 17 |
| Ex1820-12B | 3/8 | 12 | 52 | 17 |
| Ex1820-13B | 3/8 | 13 | 52 | 17 |
| Ex1820-14B | 3/8 | 14 | 52 | 17 |
| Ex1820-15B | 3/8 | 15 | 57 | 22 |
| Ex1820-16B | 3/8 | 16 | 57 | 22 |
| Ex1820-17B | 3/8 | 17 | 57 | 22 |
| Ex1820-18B | 3/8 | 18 | 57 | 22 |
| Ex1820-19B | 3/8 | 19 | 57 | 22 |

Ex1830
Socket, Deep Impact 1/2" Drive *Copper Beryllium (CuBe) only*
6-Point

| No. | a inch | s inch | Bolt Clearance Depth inch | Hex Depth inch |
|--------------|--------|--------|---------------------------|----------------|
| Ex1830-005UB | 1/2 | 1/4 | 2.67 | 0.98 |
| Ex1830-010UB | 1/2 | 5/16 | 2.67 | 0.98 |
| Ex1830-015UB | 1/2 | 3/8 | 2.67 | 0.98 |
| Ex1830-020UB | 1/2 | 7/16 | 2.67 | 0.98 |
| Ex1830-025UB | 1/2 | 1/2 | 2.67 | 0.98 |
| Ex1830-030UB | 1/2 | 9/16 | 2.67 | 0.98 |
| Ex1830-032UB | 1/2 | 19/32 | 2.67 | 0.98 |
| Ex1830-035UB | 1/2 | 5/8 | 2.67 | 0.98 |
| Ex1830-040UB | 1/2 | 11/16 | 2.67 | 0.98 |
| Ex1830-045UB | 1/2 | 3/4 | 2.67 | 0.98 |
| Ex1830-047UB | 1/2 | 25/32 | 2.67 | 0.98 |
| Ex1830-050UB | 1/2 | 13/16 | 2.67 | 0.98 |
| Ex1830-055UB | 1/2 | 7/8 | 2.67 | 0.98 |
| Ex1830-060UB | 1/2 | 15/16 | 2.67 | 0.98 |
| Ex1830-065UB | 1/2 | 1 | 2.67 | 0.98 |
| Ex1830-070UB | 1/2 | 1-1/16 | 2.67 | 0.98 |
| Ex1830-075UB | 1/2 | 1-1/8 | 2.67 | 0.98 |
| Ex1830-080UB | 1/2 | 1-3/16 | 2.67 | 0.98 |
| Ex1830-085UB | 1/2 | 1-1/4 | 2.67 | 0.98 |
| Ex1830-090UB | 1/2 | 1-5/16 | 2.67 | 0.98 |
| Ex1830-095UB | 1/2 | 1-3/8 | 2.67 | 0.98 |
| Ex1830-100UB | 1/2 | 1-7/16 | 2.67 | 0.98 |
| Ex1830-110UB | 1/2 | 1-1/2 | 2.67 | 0.98 |
| Ex1830-115UB | 1/2 | 1-9/16 | 2.67 | 0.98 |
| Ex1830-120UB | 1/2 | 1-5/8 | 2.67 | 0.98 |

| No. | a inch | s mm | Bolt Clearance Depth mm | Hex Depth mm |
|------------|--------|------|-------------------------|--------------|
| Ex1830-6B | 1/2 | 6 | 68 | 25 |
| Ex1830-7B | 1/2 | 7 | 68 | 25 |
| Ex1830-8B | 1/2 | 8 | 68 | 25 |
| Ex1830-9B | 1/2 | 9 | 68 | 25 |
| Ex1830-10B | 1/2 | 10 | 68 | 25 |
| Ex1830-11B | 1/2 | 11 | 68 | 25 |
| Ex1830-12B | 1/2 | 12 | 68 | 25 |
| Ex1830-13B | 1/2 | 13 | 68 | 25 |
| Ex1830-14B | 1/2 | 14 | 68 | 25 |
| Ex1830-15B | 1/2 | 15 | 68 | 25 |
| Ex1830-16B | 1/2 | 16 | 68 | 25 |
| Ex1830-17B | 1/2 | 17 | 68 | 25 |
| Ex1830-18B | 1/2 | 18 | 68 | 25 |
| Ex1830-19B | 1/2 | 19 | 68 | 25 |
| Ex1830-20B | 1/2 | 20 | 68 | 28 |
| Ex1830-21B | 1/2 | 21 | 68 | 28 |
| Ex1830-22B | 1/2 | 22 | 68 | 28 |
| Ex1830-23B | 1/2 | 23 | 68 | 28 |
| Ex1830-24B | 1/2 | 24 | 68 | 28 |
| Ex1830-25B | 1/2 | 25 | 68 | 28 |
| Ex1830-26B | 1/2 | 26 | 68 | 28 |
| Ex1830-27B | 1/2 | 27 | 68 | 28 |
| Ex1830-28B | 1/2 | 28 | 68 | 28 |
| Ex1830-29B | 1/2 | 29 | 68 | 28 |
| Ex1830-30B | 1/2 | 30 | 68 | 28 |
| Ex1830-32B | 1/2 | 32 | 68 | 28 |

Extended Depth 4-Point and 6-Point Impact Sockets with 1/2", 3/4" and 1" Drives – available upon request.



Ex1840

Socket, Deep Impact 3/4" Drive *Copper Beryllium (CuBe) only*

6-Point

| No. | a inch | s inch | Bolt Clearance Depth inch | Hex Depth inch |
|--------------|--------|---------|---------------------------|----------------|
| Ex1840-005UB | 3/4 | 3/4 | 2.67 | 1.02 |
| Ex1840-010UB | 3/4 | 13/16 | 2.67 | 1.02 |
| Ex1840-015UB | 3/4 | 7/8 | 2.67 | 1.02 |
| Ex1840-020UB | 3/4 | 15/16 | 2.67 | 1.02 |
| Ex1840-025UB | 3/4 | 1 | 2.56 | 1.10 |
| Ex1840-030UB | 3/4 | 1-1/16 | 2.56 | 1.10 |
| Ex1840-035UB | 3/4 | 1-1/8 | 2.56 | 1.10 |
| Ex1840-040UB | 3/4 | 1-3/16 | 2.56 | 1.10 |
| Ex1840-045UB | 3/4 | 1-1/4 | 2.56 | 1.10 |
| Ex1840-047UB | 3/4 | 1-5/16 | 2.56 | 1.10 |
| Ex1840-050UB | 3/4 | 1-3/8 | 2.56 | 1.10 |
| Ex1840-055UB | 3/4 | 1-7/16 | 2.95 | 1.26 |
| Ex1840-060UB | 3/4 | 1-1/2 | 2.87 | 1.26 |
| Ex1840-065UB | 3/4 | 1-9/16 | 2.87 | 1.26 |
| Ex1840-070UB | 3/4 | 1-5/8 | 2.87 | 1.26 |
| Ex1840-075UB | 3/4 | 1-11/16 | 2.87 | 1.26 |
| Ex1840-080UB | 3/4 | 1-3/4 | 2.87 | 1.26 |
| Ex1840-085UB | 3/4 | 1-13/16 | 2.87 | 1.26 |
| Ex1840-090UB | 3/4 | 1-7/8 | 2.87 | 1.26 |
| Ex1840-095UB | 3/4 | 1-15/16 | 2.87 | 1.26 |
| Ex1840-100UB | 3/4 | 2 | 2.87 | 1.26 |

| No. | a inch | s mm | Bolt Clearance Depth mm | Hex Depth mm |
|------------|--------|------|-------------------------|--------------|
| Ex1840-19B | 3/4 | 19 | 68 | 26 |
| Ex1840-21B | 3/4 | 21 | 68 | 26 |
| Ex1840-22B | 3/4 | 22 | 68 | 26 |
| Ex1840-23B | 3/4 | 23 | 68 | 26 |
| Ex1840-24B | 3/4 | 24 | 65 | 28 |
| Ex1840-27B | 3/4 | 27 | 65 | 32 |
| Ex1840-29B | 3/4 | 29 | 65 | 32 |
| Ex1840-30B | 3/4 | 30 | 65 | 32 |
| Ex1840-32B | 3/4 | 32 | 65 | 32 |
| Ex1840-34B | 3/4 | 34 | 65 | 32 |
| Ex1840-36B | 3/4 | 36 | 65 | 32 |
| Ex1840-41B | 3/4 | 41 | 75 | 32 |
| Ex1840-46B | 3/4 | 46 | 75 | 32 |

Extended Depth 4-Point and 6-Point Impact Sockets with 1/2", 3/4" and 1" Drives – available upon request.

Ex1850

Socket, Deep Impact 1" Drive

Copper Beryllium (CuBe) only

6-Point

| No. | a inch | s inch | Bolt Clearance Depth inch | Hex Depth inch |
|--------------|--------|---------|---------------------------|----------------|
| Ex1850-005UB | 1 | 7/8 | 2.56 | 1.26 |
| Ex1850-010UB | 1 | 15/16 | 2.56 | 1.26 |
| Ex1850-013UB | 1 | 1 | 2.56 | 1.26 |
| Ex1850-015UB | 1 | 1-1/16 | 2.76 | 1.26 |
| Ex1850-020UB | 1 | 1-3/16 | 2.76 | 1.26 |
| Ex1850-025UB | 1 | 1-1/4 | 2.76 | 1.26 |
| Ex1850-030UB | 1 | 1-3/8 | 2.76 | 1.26 |
| Ex1850-035UB | 1 | 1-7/16 | 2.76 | 1.26 |
| Ex1850-040UB | 1 | 1-1/2 | 2.76 | 1.26 |
| Ex1850-045UB | 1 | 1-5/8 | 2.76 | 1.26 |
| Ex1850-050UB | 1 | 1-11/16 | 2.76 | 1.26 |
| Ex1850-053UB | 1 | 1-3/4 | 2.76 | 1.26 |
| Ex1850-055UB | 1 | 1-13/16 | 2.76 | 1.26 |
| Ex1850-057UB | 1 | 1-7/8 | 2.76 | 1.26 |
| Ex1850-060UB | 1 | 2 | 2.76 | 1.26 |
| Ex1850-065UB | 1 | 2-3/16 | 2.76 | 1.26 |
| Ex1850-070UB | 1 | 2-3/8 | 2.76 | 1.26 |
| Ex1850-075UB | 1 | 2-9/16 | 2.76 | 1.26 |
| Ex1850-080UB | 1 | 2-3/4 | 2.76 | 1.26 |

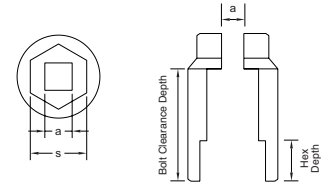
| No. | a inch | s mm | Bolt Clearance Depth mm | Hex Depth mm |
|------------|--------|------|-------------------------|--------------|
| Ex1850-30B | 1 | 30 | 70 | 32 |
| Ex1850-32B | 1 | 32 | 70 | 32 |
| Ex1850-34B | 1 | 34 | 70 | 32 |
| Ex1850-36B | 1 | 36 | 70 | 32 |
| Ex1850-38B | 1 | 38 | 70 | 32 |
| Ex1850-41B | 1 | 41 | 70 | 32 |
| Ex1850-42B | 1 | 42 | 70 | 32 |
| Ex1850-43B | 1 | 43 | 70 | 32 |
| Ex1850-46B | 1 | 46 | 70 | 32 |
| Ex1850-50B | 1 | 50 | 70 | 32 |
| Ex1850-55B | 1 | 55 | 70 | 32 |
| Ex1850-60B | 1 | 60 | 70 | 32 |
| Ex1850-65B | 1 | 65 | 70 | 32 |
| Ex1850-70B | 1 | 70 | 70 | 32 |

TIGHTENING

When ordering, specify:

B = Copper Beryllium

Example: Ex1860-005UB



Ex1860
Socket, Deep Impact 1-1/2" Drive
Copper Beryllium (CuBe) only
6-Point

| No. | a inch | s inch |
|--------------|-----------|-----------|
| Ex1860-005UB | 1-1/2 | 1-7/16 |
| Ex1860-010UB | 1-1/2 | 1-5/8 |
| Ex1860-015UB | 1-1/2 | 1-13/16 |
| Ex1860-017UB | 1-1/2 | 1-7/8 |
| Ex1860-020UB | 1-1/2 | 2 |
| Ex1860-023UB | 1-1/2 | 2-1/4 |
| Ex1860-025UB | 1-1/2 | 2-3/16 |
| Ex1860-030UB | 1-1/2 | 2-3/8 |
| Ex1860-035UB | 1-1/2 | 2-9/16 |
| Ex1860-040UB | 1-1/2 | 2-3/4 |

| No. | a inch | s mm |
|------------|-----------|---------|
| Ex1860-36B | 1-1/2 | 36 |
| Ex1860-41B | 1-1/2 | 41 |
| Ex1860-46B | 1-1/2 | 46 |
| Ex1860-50B | 1-1/2 | 50 |
| Ex1860-55B | 1-1/2 | 55 |
| Ex1860-60B | 1-1/2 | 60 |
| Ex1860-65B | 1-1/2 | 65 |
| Ex1860-70B | 1-1/2 | 70 |

TIGHTENING

CS Unitec offers special extended depth 4-Point and 6-Point Impact Sockets with 1/2", 3/4" and 1" Drives. Call 1-800-700-5919 for more information.



Impact Wrenches – Pneumatic and Hydraulic
1/2", 3/4", 1" and 1-1/2" Sq. Drive
ATEX Classified for use in Ex Zones
Ex II 2 GcT6 and Ex II 2 GcT5

See page 89

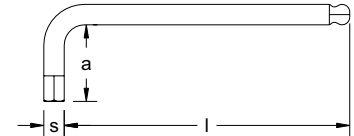


ALLEN KEYS

Ex209

Wrench, Allen / Hex Key (DIN 911)

Copper Beryllium (CuBe) only



| No. | s inch | a inch | l inch | Wt. lbs. |
|-------------|-----------|-----------|-----------|-------------|
| Ex209-005UB | 1/16 | 9/16 | 1-3/4 | 0.0035 |
| Ex209-010UB | 5/64 | 5/8 | 2 | 0.0084 |
| Ex209-015UB | 3/32 | 11/16 | 2-1/4 | 0.0097 |
| Ex209-020UB | 1/8 | 3/4 | 2-1/2 | 0.0180 |
| Ex209-025UB | 9/64 | 1 | 2-3/4 | 0.0400 |
| Ex209-030UB | 5/32 | 1 | 2-3/4 | 0.0310 |
| Ex209-035UB | 3/16 | 1-1/8 | 3-3/16 | 0.0530 |
| Ex209-040UB | 7/32 | 1-1/4 | 3-9/16 | 0.0840 |
| Ex209-045UB | 1/4 | 1-3/8 | 3-3/4 | 0.1100 |
| Ex209-050UB | 5/16 | 1-7/16 | 4 | 0.1900 |
| Ex209-055UB | 3/8 | 1-3/4 | 5 | 0.4700 |
| Ex209-060UB | 7/16 | 1-3/4 | 5 | 0.4700 |
| Ex209-065UB | 1/2 | 2-1/4 | 5-9/16 | 0.7700 |
| Ex209-070UB | 9/16 | 2-1/4 | 5-9/16 | 0.7700 |
| Ex209-075UB | 5/8 | 2-3/4 | 7-3/16 | 1.6800 |
| Ex209-080UB | 11/16 | 2-3/4 | 7-3/16 | 1.6800 |
| Ex209-085UB | 3/4 | 2-3/4 | 7-3/16 | 1.6800 |
| Ex209-087UB | 13/16 | 3-3/16 | 8 | 2.7600 |
| Ex209-090UB | 7/8 | 3-3/16 | 8 | 2.7600 |
| Ex209-095UB | 1 | 4 | 10 | 5.2200 |
| Ex209-100UB | 1-1/16 | 4 | 10 | 9.3000 |
| Ex209-105UB | 1-1/8 | 5 | 12-9/16 | 9.3000 |
| Ex209-110UB | 1-1/4 | 5 | 12-9/16 | 9.3000 |

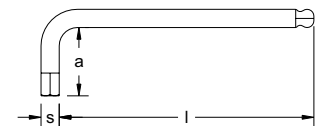
| No. | s mm | a mm | l mm | kg |
|------------|---------|---------|---------|--------|
| Ex209-1.5B | 1.5 | 14 | 45 | 0.0016 |
| Ex209-2B | 2 | 16 | 50 | 0.0038 |
| Ex209-2.5B | 2.5 | 18 | 56 | 0.0044 |
| Ex209-3B | 3 | 20 | 63 | 0.0080 |
| Ex209-4B | 4 | 25 | 70 | 0.0140 |
| Ex209-5B | 5 | 28 | 80 | 0.0240 |
| Ex209-6B | 6 | 32 | 90 | 0.0380 |
| Ex209-7B | 7 | 34 | 95 | 0.0520 |
| Ex209-8B | 8 | 36 | 100 | 0.0840 |
| Ex209-9B | 9 | 38 | 105 | 0.1090 |
| Ex209-10B | 10 | 40 | 112 | 0.1340 |
| Ex209-11B | 11 | 42 | 120 | 0.1740 |
| Ex209-12B | 12 | 45 | 125 | 0.2140 |
| Ex209-14B | 14 | 56 | 140 | 0.3480 |
| Ex209-17B | 17 | 63 | 160 | 0.5600 |
| Ex209-19B | 19 | 70 | 180 | 0.7600 |
| Ex209-22B | 22 | 80 | 200 | 1.2500 |
| Ex209-24B | 24 | 90 | 224 | 1.6300 |
| Ex209-27B | 27 | 100 | 250 | 2.3700 |
| Ex209-30B | 30 | 118 | 290 | 3.4500 |
| Ex209-32B | 32 | 125 | 315 | 4.2200 |
| Ex209-36B | 36 | 140 | 355 | 5.8200 |

Ex209L

Wrench, Allen / Hex Key

Ball Point, Long Type

Copper Beryllium (CuBe) only



| No. | s inch | a inch | l inch | Wt. lbs. |
|--------------|-----------|-----------|-----------|-------------|
| Ex209L-005UB | 1/16 | 9/16 | 3-1/2 | 0.006 |
| Ex209L-010UB | 5/64 | 5/8 | 3-15/16 | 0.014 |
| Ex209L-015UB | 3/32 | 11/16 | 4-3/8 | 0.016 |
| Ex209L-020UB | 1/8 | 3/4 | 5 | 0.031 |
| Ex209L-025UB | 5/32 | 1 | 5-9/16 | 0.057 |
| Ex209L-030UB | 3/16 | 1-1/8 | 6-3/16 | 0.093 |
| Ex209L-035UB | 7/32 | 1-1/4 | 7 | 0.15 |
| Ex209L-040UB | 1/4 | 1-3/8 | 7-1/2 | 0.20 |
| Ex209L-045UB | 5/16 | 1-7/16 | 8 | 0.32 |
| Ex209L-047UB | 3/8 | 1-3/4 | 10-5/16 | 0.82 |
| Ex209L-050UB | 7/16 | 1-3/4 | 10-5/16 | 0.82 |
| Ex209L-055UB | 1/2 | 2-1/4 | 11 | 1.39 |

| No. | s mm | a mm | l mm | kg |
|-------------|---------|---------|---------|--------|
| Ex209L-1.5B | 1.5 | 14 | 88 | 0.0027 |
| Ex209L-2B | 2 | 16 | 99 | 0.0064 |
| Ex209L-2.5B | 2.5 | 18 | 109 | 0.0072 |
| Ex209L-3B | 3 | 20 | 125 | 0.014 |
| Ex209L-4B | 4 | 25 | 139 | 0.026 |
| Ex209L-5B | 5 | 28 | 155 | 0.042 |
| Ex209L-6B | 6 | 32 | 176 | 0.066 |
| Ex209L-7B | 7 | 34 | 188 | 0.09 |
| Ex209L-8B | 8 | 36 | 201 | 0.14 |
| Ex209L-10B | 10 | 40 | 228 | 0.25 |
| Ex209L-12B | 12 | 45 | 258 | 0.37 |
| Ex209L-14B | 14 | 56 | 276 | 0.63 |
| Ex209L-17B | 17 | 63 | 299 | 0.92 |

TIGHTENING

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

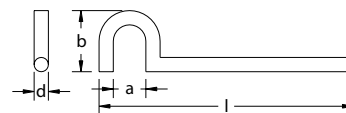
Example: Ex207-30A

or

Ex207-30B

WHEEL WRENCHES

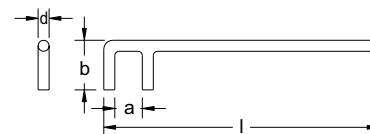
Ex207 Wrench, Valve



| No. | a inch | b inch | d inch | l inch | Wt. lbs. | a mm | b mm | d mm | l mm | Δ kg |
|----------|--------|--------|--------|--------|----------|------|------|------|------|------|
| Ex207-30 | 1-3/16 | 2-1/4 | 1/2 | 8 | 0.66 | 30 | 56 | 13 | 200 | 0.30 |
| Ex207-32 | 1-1/4 | 2-3/8 | 9/16 | 10 | 0.93 | 32 | 60 | 14 | 250 | 0.42 |
| Ex207-36 | 1-7/16 | 2-5/8 | 9/16 | 10-3/4 | 1.15 | 36 | 66 | 15 | 270 | 0.52 |
| Ex207-41 | 1-5/8 | 2-7/8 | 5/8 | 12 | 1.46 | 41 | 73 | 16 | 300 | 0.66 |
| Ex207-50 | 2 | 3-7/16 | 11/16 | 12-3/4 | 2.02 | 50 | 86 | 18 | 320 | 0.92 |

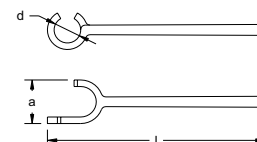
TIGHTENING

Ex207F Valve Wheel Hook



| No. | a inch | b inch | d inch | l inch | Wt. lbs. | a mm | b mm | d mm | l mm | Δ kg |
|-----------|--------|--------|--------|--------|----------|------|------|------|------|------|
| Ex207F-30 | 1-3/16 | 2-1/4 | 1/2 | 12 | 0.96 | 30 | 56 | 13 | 300 | 0.44 |
| Ex207F-35 | 1-3/8 | 2-7/16 | 1/2 | 14 | 1.11 | 35 | 61 | 13 | 350 | 0.50 |
| Ex207F-40 | 1-9/16 | 2-7/8 | 5/8 | 16 | 1.93 | 40 | 72 | 16 | 400 | 0.87 |
| Ex207F-45 | 1-3/4 | 3-1/16 | 5/8 | 18 | 2.15 | 45 | 77 | 16 | 450 | 0.98 |
| Ex207F-50 | 2 | 3-1/2 | 3/4 | 20 | 3.39 | 50 | 88 | 19 | 500 | 1.54 |
| Ex207F-60 | 2-3/8 | 4-1/8 | 7/8 | 24 | 5.44 | 60 | 104 | 22 | 600 | 2.47 |
| Ex207F-70 | 2-3/4 | 4-3/4 | 1 | 28 | 8.18 | 70 | 120 | 25 | 700 | 3.71 |
| Ex207F-80 | 3-3/16 | 5-7/16 | 1-1/8 | 32 | 11.72 | 80 | 136 | 28 | 800 | 5.31 |

Ex207S Wrench, Valve Wheel (DIN 87311)



| No. | d inch | a inch | l inch | Wt. lbs. | d mm | a mm | l mm | Δ kg |
|------------|--------|--------|---------|----------|------|------|------|------|
| Ex207S-215 | 1-1/4 | 2-1/4 | 8-9/16 | 0.86 | 32 | 56 | 215 | 0.39 |
| Ex207S-290 | 1-7/16 | 2-1/4 | 11-9/16 | 2.27 | 36 | 56 | 290 | 1.03 |
| Ex207S-400 | 1-7/8 | 3-3/16 | 16 | 1.90 | 48 | 80 | 400 | 0.86 |
| Ex207S-490 | 2-3/8 | 4 | 19-9/16 | 4.30 | 60 | 100 | 490 | 1.95 |
| Ex207S-800 | 2-3/8 | 4-3/8 | 32 | 12.57 | 60 | 110 | 800 | 5.70 |

Pliers, Swedish (DIN ISO 5234) Ex505
 Pliers, Pipe Ex602
 Pliers, Groove Joint Ex604
 Pliers, Adjustable Combination Ex605

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

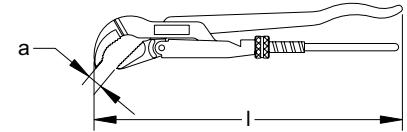
Example: Ex505-005UA

or

Ex505-005UB

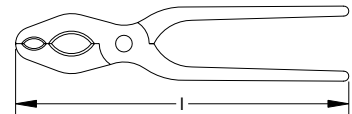
PLIERS

Ex505 Pliers, Swedish (DIN ISO 5234)



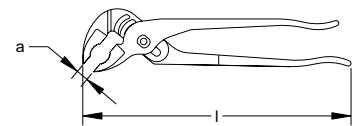
| No. | a max inch | l inch | Wt. lbs. | a max mm | l mm | kg |
|------------|---------------|-----------|-------------|-------------|---------|------|
| Ex505-005U | 1-9/16 | 12 | 1.52 | 40 | 300 | 0.69 |
| Ex505-010U | 2-3/16 | 16-3/4 | 3.28 | 55 | 420 | 1.49 |
| Ex505-015U | 2-11/16 | 20-13/16 | 7.14 | 67 | 530 | 3.24 |

Ex602 Pliers, Pipe



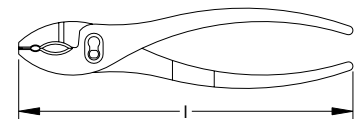
| No. | l inch | Wt. lbs. | l mm | kg |
|-----------|-----------|-------------|---------|------|
| Ex602-200 | 8 | 0.99 | 200 | 0.45 |

Ex604 Pliers, Groove Joint



| No. | a max inch | l inch | Wt. lbs. | a max mm | l mm | kg |
|----------|---------------|-----------|-------------|-------------|---------|------|
| Ex604-10 | 1-1/8 | 10 | 0.75 | 28 | 250 | 0.34 |
| Ex604-12 | 1-7/8 | 12 | 1.21 | 48 | 300 | 0.55 |
| Ex604-14 | 2-3/16 | 14 | 2.60 | 55 | 350 | 1.18 |
| Ex604-16 | 3-3/16 | 17-3/16 | 3.66 | 80 | 430 | 1.66 |

Ex605 Pliers, Adjustable Combination



| No. | l inch | Wt. lbs. | l mm | kg |
|---------|-----------|-------------|---------|------|
| Ex605-8 | 8 | 0.46 | 200 | 0.21 |

TIGHTENING

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex606-6A

or

Ex606-6B

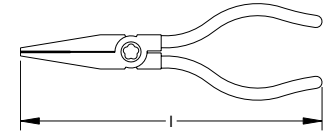
Pliers, Flat Nose (DIN ISO 5745) Ex606

Pliers, Round Nose (DIN ISO 5745) Ex607

Pliers, Long-Nose w/Side Cutter (DIN ISO 5745) Ex611

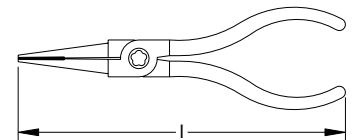
Pliers, Lineman's, Side Cutting Ex612

Ex606
Pliers, Flat Nose
(DIN ISO 5745)



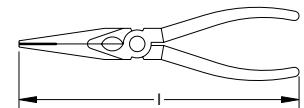
| No. | l inch | Wt. lbs. | l mm | kg |
|---------|-----------|-------------|---------|------|
| Ex606-6 | 6 | 0.37 | 150 | 0.17 |

Ex607
Pliers, Round Nose
(DIN ISO 5745)



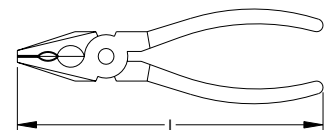
| No. | l inch | Wt. lbs. | l mm | kg |
|---------|-----------|-------------|---------|------|
| Ex607-6 | 6 | 0.31 | 150 | 0.14 |

Ex611
**Pliers, Long-Nose
w/Side Cutter**
(DIN ISO 5745)



| No. | l inch | Wt. lbs. | l mm | kg |
|---------|-----------|-------------|---------|------|
| Ex611-6 | 6 | 0.35 | 150 | 0.16 |
| Ex611-7 | 7-3/16 | 0.46 | 180 | 0.21 |

Ex612
**Pliers, Lineman's,
Side Cutting**

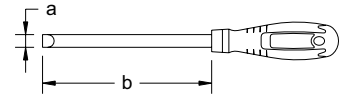


| No. | l inch | Wt. lbs. | l mm | kg |
|---------|-----------|-------------|---------|------|
| Ex612-6 | 6-3/8 | 0.55 | 160 | 0.25 |
| Ex612-7 | 7-3/16 | 0.57 | 180 | 0.26 |
| Ex612-8 | 8 | 1.01 | 200 | 0.46 |

TIGHTENING

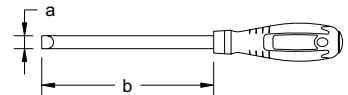
SCREWDRIVERS

Ex801
Screwdriver, Standard
Copper Beryllium (CuBe) only



| No. | a inch | b inch | Wt. lbs. | a mm | b mm | kg |
|------------|-----------|-----------|-------------|---------|---------|--------|
| Ex801-3B | 1/8 | 3 | 0.02 | 3 | 75 | 0.0075 |
| Ex801-4B | 3/16 | 4 | 0.04 | 4 | 100 | 0.016 |
| Ex801-6SB | 1/4 | 4 | 0.08 | 6 | 100 | 0.038 |
| Ex801-6B | 1/4 | 6 | 0.11 | 6 | 150 | 0.048 |
| Ex801-8B | 5/16 | 6 | 0.21 | 8 | 150 | 0.092 |
| Ex801-10SB | 3/8 | 8 | 0.38 | 10 | 200 | 0.17 |
| Ex801-10B | 3/8 | 12 | 0.55 | 10 | 300 | 0.25 |

Ex801S
Screwdriver, Striking
Copper Beryllium (CuBe) only



| No. | a inch | b inch | Wt. lbs. | a mm | b mm | kg |
|-----------|-----------|-----------|-------------|---------|---------|------|
| Ex801S-8B | 5/16 | 6 | 0.51 | 8 | 150 | 0.23 |

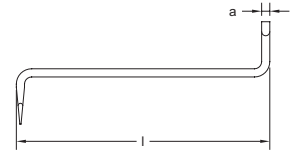
TIGHTENING

When ordering, specify:

B = Copper Beryllium

Example: Ex802-010UB

Ex802
Screwdriver, Offset
Copper Beryllium (CuBe) only

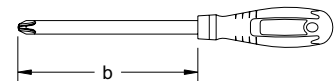


| No. | a inch | b inch | Wt. lbs. |
|-------------|-----------|-----------|-------------|
| Ex802-010UB | 1/8 | 4 | 0.02 |
| Ex802-020UB | 1/4 | 5-9/16 | 0.11 |
| Ex802-030UB | 3/8 | 7-3/16 | 0.42 |
| Ex802-040UB | 9/16 | 10 | 1.10 |

| No. | a mm | b mm | ⚖️ kg |
|----------|---------|---------|----------|
| Ex802-3 | 3 | 100 | 0.0078 |
| Ex802-4 | 4 | 110 | 0.016 |
| Ex802-6 | 6 | 140 | 0.048 |
| Ex802-8 | 8 | 160 | 0.098 |
| Ex802-10 | 10 | 180 | 0.19 |
| Ex802-12 | 12 | 200 | 0.30 |
| Ex802-14 | 14 | 250 | 0.50 |

TIGHTENING

Ex803
Screwdriver, Phillips
Copper Beryllium (CuBe) only



| No. | b inch | Wt. lbs. | b mm | ⚖️ kg |
|----------|-----------|-------------|---------|----------|
| Ex803-0B | 2-3/8 | 0.015 | 60 | 0.0066 |
| Ex803-1B | 3-3/16 | 0.048 | 80 | 0.022 |
| Ex803-2B | 4 | 0.079 | 100 | 0.036 |
| Ex803-3B | 6 | 0.19 | 150 | 0.085 |
| Ex803-4B | 8 | 0.37 | 200 | 0.17 |

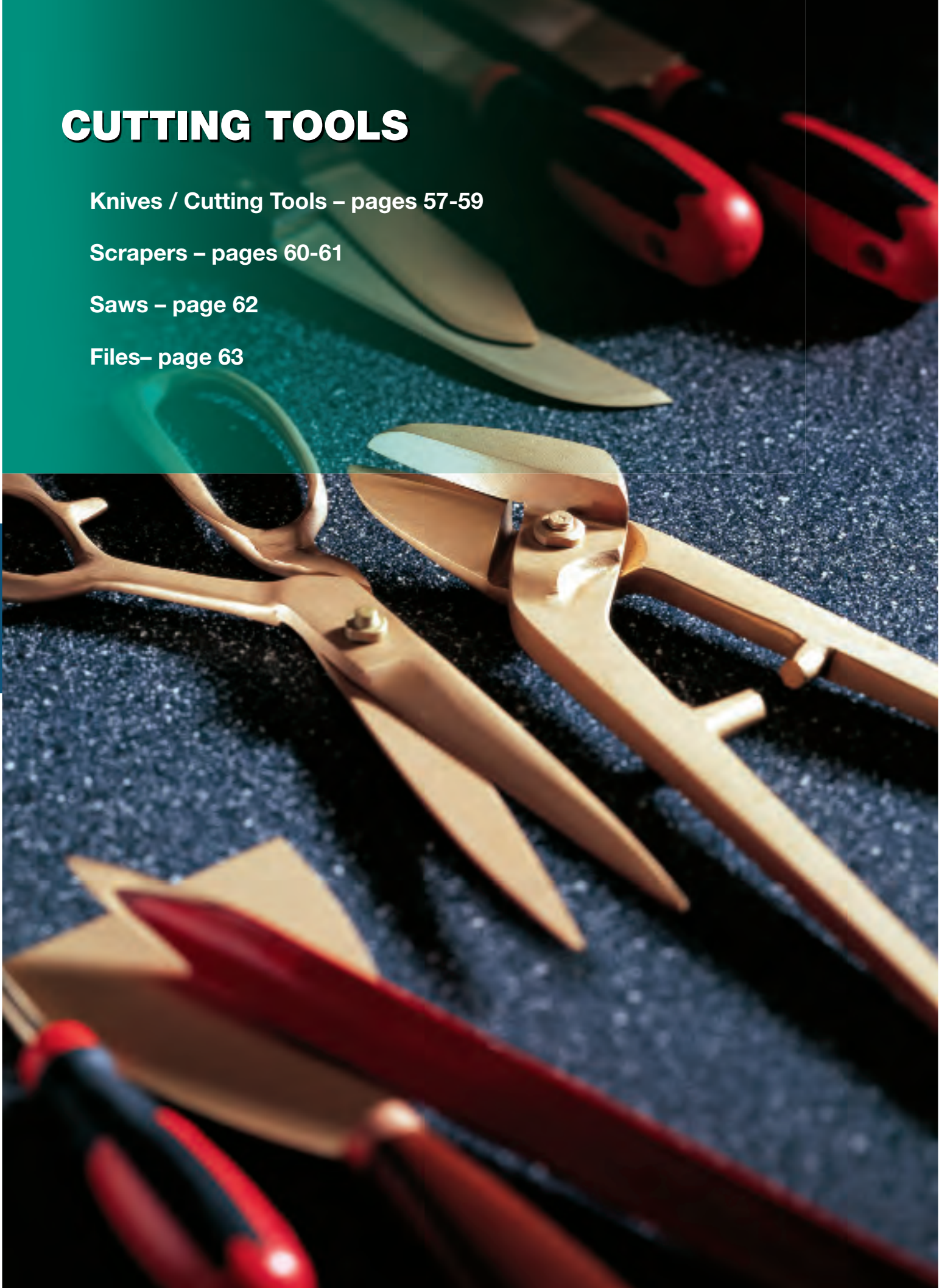
CUTTING TOOLS

Knives / Cutting Tools – pages 57-59

Scrapers – pages 60-61

Saws – page 62

Files– page 63



When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex409-200A

or

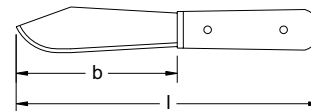
Ex409-200B

Knife, Common Ex409

Knife, Common Ex410

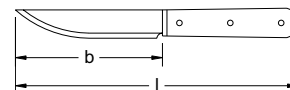
Knife, Common Ex410S

**Ex409
Knife, Common**



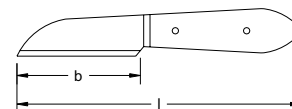
| No. | b inch | l inch | Wt. lbs. | b mm | l mm | kg |
|-----------|-----------|-----------|-------------|---------|---------|-------|
| Ex409-200 | 4-1/4 | 8 | 0.15 | 106 | 200 | 0.067 |

**Ex410
Knife, Common**



| No. | b inch | l inch | Wt. lbs. | b mm | l mm | kg |
|-----------|-----------|-----------|-------------|---------|---------|-------|
| Ex410-250 | 5-3/16 | 10 | 0.16 | 130 | 250 | 0.074 |

**Ex410S
Knife, Common**



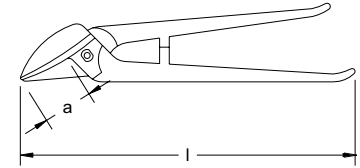
| No. | b inch | l inch | Wt. lbs. | b mm | l mm | kg |
|------------|-----------|-----------|-------------|---------|---------|-------|
| Ex410S-180 | 3-3/16 | 7-3/16 | 0.13 | 80 | 180 | 0.059 |

CUTTING

Shears, Cutting Ex608
 Scissors Ex609
 Pliers, Diagonal Cutting Ex601
 Pliers, Diagonal Cutting, Heavy Duty Ex601HD

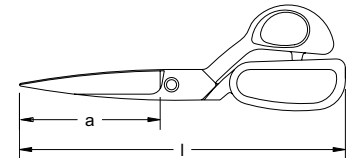
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
 Example: Ex608-275A
 or
 Ex608-275B

**Ex608
 Shears, Cutting**



| No. | a inch | l inch | Wt. lbs. | a mm | l mm | kg |
|-----------|-----------|-----------|-------------|---------|---------|------|
| Ex608-275 | 1-11/16 | 11 | 1.21 | 43 | 275 | 0.55 |

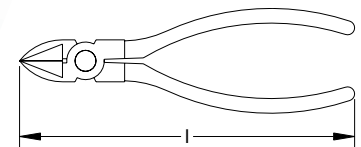
**Ex609
 Scissors**



| No. | a inch | l inch | Wt. lbs. | a mm | l mm | kg |
|-----------|-----------|-----------|-------------|---------|---------|------|
| Ex609-225 | 3-7/8 | 9 | 0.81 | 97 | 225 | 0.37 |

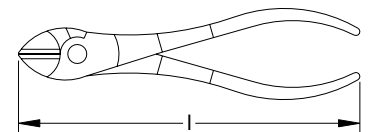
CUTTING

**Ex601
 Pliers, Diagonal Cutting**
Copper Beryllium (CuBe) only



| No. | l inch | Wt. lbs. | l mm | kg |
|----------|-----------|-------------|---------|------|
| Ex601-6B | 6-3/8 | 0.40 | 160 | 0.18 |
| Ex601-8B | 8 | 0.53 | 200 | 0.24 |

**Ex601HD
 Pliers, Diagonal Cutting,
 Heavy Duty**
Copper Beryllium (CuBe) only



| No. | l inch | Wt. lbs. | l mm | kg |
|------------|-----------|-------------|---------|------|
| Ex601HD-6B | 6-3/8 | 0.37 | 160 | 0.17 |
| Ex601HD-7B | 7-3/16 | 0.46 | 180 | 0.21 |

When ordering, specify:

A = Aluminum Bronze

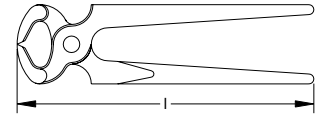
B = Copper Beryllium

Example: Ex603-7A

or

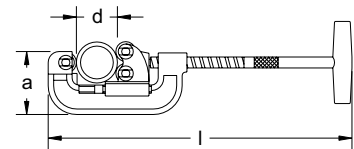
Ex603-7B

Ex603 Pliers, Cutting



| No. | l inch | Wt. lbs. | l mm | kg |
|---------|-----------|-------------|---------|------|
| Ex603-7 | 7-3/16 | 0.71 | 180 | 0.32 |
| Ex603-8 | 8 | 1.15 | 200 | 0.52 |

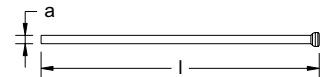
Ex1512 Pipe Cutter



| No. | a inch | d max inch | l inch | Wt. lbs. | a mm | d max mm | l mm | kg |
|-----------|-----------|---------------|-----------|-------------|---------|-------------|---------|------|
| Ex1512-60 | 3-11/16 | 2-3/8 | 17-3/4 | 7.21 | 92 | 60 | 445 | 3.27 |

Ex308 Non-Sparking Needle For Air Needle Scalers

Copper Beryllium (CuBe) only



| No. | Qty. | a inch | l inch | Wt. lbs. | a mm | l mm | kg |
|-------------|------|-----------|-----------|-------------|---------|---------|------|
| Ex308-3B | 1 | 1/8 | 7 | 0.02 | 3 | 175 | 0.01 |
| Ex308-319B | 19 | 1/8 | 7 | 0.02 | 3 | 175 | 0.01 |
| Ex308-3100B | 100 | 1/8 | 7 | 0.02 | 3 | 175 | 0.01 |



Pneumatic Needle Scalers
ATEX Classified for use in Ex Zones
Ex II 2Gc IIA T4

See page 88

Scraper, Flat Ex401
 Scraper, Angle Ex402
 Scraper, Triangular Ex403
 Scraper, Deck Ex405

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

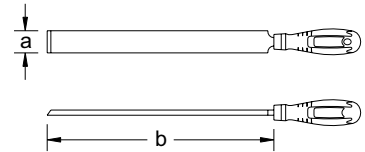
Example: Ex401-18A

or

Ex401-18B

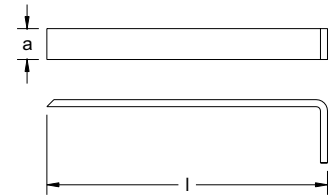
SCRAPERS

**Ex401
Scraper, Flat**



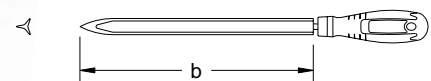
| No. | a inch | b inch | Wt. lbs. | a mm | b mm | kg |
|----------|-----------|-----------|-------------|---------|---------|------|
| Ex401-18 | 11/16 | 12 | 0.73 | 18 | 300 | 0.33 |
| Ex401-30 | 1-3/16 | 12 | 1.17 | 30 | 300 | 0.53 |

**Ex402
Scraper, Angle**



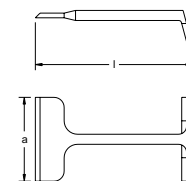
| No. | a inch | l inch | Wt. lbs. | a mm | l mm | kg |
|----------|-----------|-----------|-------------|---------|---------|------|
| Ex402-22 | 7/8 | 8 | 0.48 | 22 | 200 | 0.22 |
| Ex402-25 | 1 | 12 | 0.78 | 25 | 300 | 0.36 |
| Ex402-45 | 1-3/4 | 9 | 1.10 | 45 | 225 | 0.50 |
| Ex402-50 | 2 | 12 | 1.57 | 50 | 300 | 0.71 |

**Ex403
Scraper, Triangular**



| No. | b inch | Wt. lbs. | b mm | kg |
|-----------|-----------|-------------|---------|------|
| Ex403-300 | 12 | 0.68 | 300 | 0.31 |

**Ex405
Scraper, Deck**



| No. | a inch | l inch | Wt. lbs. | a mm | l mm | kg |
|-----------|-----------|-----------|-------------|---------|---------|------|
| Ex405-75 | 3 | 6 | 0.79 | 75 | 150 | 0.36 |
| Ex405-125 | 5 | 9-3/8 | 2.18 | 125 | 235 | 0.99 |

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

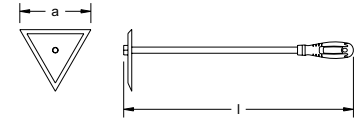
Example: Ex406-150A

or

Ex406-150B

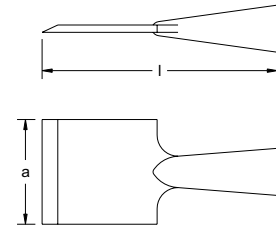
Scraper, Plate Ex406
 Scraper, Long Blade, Handle Not Included Ex407
 Knife, Putty/Hand Scraper Ex408
 Spatula Ex408S

**Ex406
 Scraper, Plate**



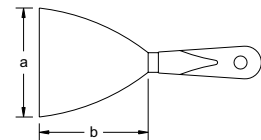
| No. | a inch | l inch | Wt. lbs. | a mm | l mm | kg |
|-----------|-----------|-----------|-------------|---------|---------|------|
| Ex406-150 | 6 | 19-3/8 | 2.01 | 150 | 485 | 0.91 |

**Ex407
 Scraper, Long Blade
 (Handle Not Included)**



| No. | a inch | l inch | Wt. lbs. | a mm | l mm | kg |
|-----------|-----------|-----------|-------------|---------|---------|------|
| Ex407-60 | 2-3/8 | 7-3/8 | 1.10 | 60 | 185 | 0.50 |
| Ex407-100 | 4 | 9 | 2.82 | 100 | 225 | 1.28 |
| Ex407-125 | 5 | 9 | 3.24 | 125 | 225 | 1.47 |
| Ex407-150 | 6 | 7-3/16 | 2.45 | 150 | 180 | 1.11 |

**Ex408
 Knife, Putty / Hand Scraper**



| No. | a inch | b inch | Wt. lbs. | a mm | b mm | kg |
|-----------|-----------|-----------|-------------|---------|---------|------|
| Ex408-25 | 1 | 4 | 0.11 | 25 | 100 | 0.05 |
| Ex408-30 | 1-3/16 | 4 | 0.12 | 30 | 100 | 0.05 |
| Ex408-40 | 1-9/16 | 4 | 0.14 | 40 | 100 | 0.07 |
| Ex408-50 | 2 | 4 | 0.17 | 50 | 100 | 0.08 |
| Ex408-60 | 2-3/8 | 4 | 0.19 | 60 | 100 | 0.09 |
| Ex408-75 | 3 | 4 | 0.22 | 75 | 100 | 0.10 |
| Ex408-80 | 3-3/16 | 4 | 0.24 | 80 | 100 | 0.11 |
| Ex408-100 | 4 | 4 | 0.28 | 100 | 100 | 0.13 |

**Ex408S
 Spatula**



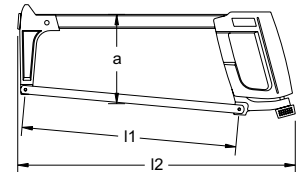
| No. | b inch | l inch | Wt. lbs. | b mm | l mm | kg |
|----------|-----------|-----------|-------------|---------|---------|------|
| Ex408S-6 | 5-3/4 | 9-3/4 | 0.25 | 146 | 248 | 0.11 |

CUTTING

Hacksaw Frame Ex118A
 Hacksaw Blade Ex118B
 Saw, Hand (8 teeth/inch) Ex119

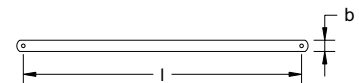
SAWS

Ex118A
Hacksaw Frame
Aluminum Bronze (AlBr) only



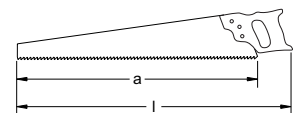
| No. | a inch | l1 inch | l2 inch | Wt. lbs. | a mm | l1 mm | l2 mm | ⚖️ kg |
|-------------|-----------|------------|------------|-------------|---------|----------|----------|----------|
| Ex118A-395A | 5-1/8 | 12 | 15-3/4 | 1.19 | 128 | 300 | 395 | 0.54 |

Ex118B
Hacksaw Blade
Copper Beryllium (CuBe) only



| No. | b inch | l inch | Wt. lbs. | b mm | l mm | ⚖️ kg |
|-------------|-----------|-----------|-------------|---------|---------|----------|
| Ex118B-300B | 7/16 | 12 | 0.04 | 12 | 300 | 0.017 |

Ex119
Saw, Hand (8 teeth/inch)
Copper Beryllium (CuBe) only



| No. | a inch | l inch | Wt. lbs. | a mm | l mm | ⚖️ kg |
|------------|-----------|-----------|-------------|---------|---------|----------|
| Ex119-600B | 24 | 27-3/16 | 1.12 | 600 | 680 | 0.51 |

CUTTING

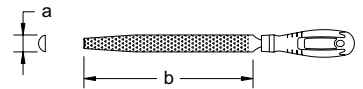
When ordering, specify:

B = Copper Beryllium

Example: Ex411-200B

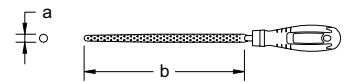
FILES

Ex411
File, Half Round, Bastard
Copper Beryllium (CuBe) only



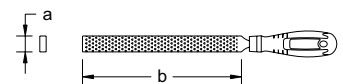
| No. | a inch | b inch | Wt. lbs. | a mm | b mm | kg |
|------------|--------|--------|----------|------|------|------|
| Ex411-200B | 3/4 | 8 | 0.41 | 20 | 200 | 0.19 |
| Ex411-250B | 15/16 | 10 | 0.73 | 24 | 250 | 0.33 |

Ex411R
File, Round
Copper Beryllium (CuBe) only



| No. | a inch | b inch | Wt. lbs. | a mm | b mm | kg |
|-------------|--------|--------|----------|------|------|------|
| Ex411R-100B | 9/64 | 4 | 0.02 | 3.5 | 100 | 0.01 |
| Ex411R-200B | 9/32 | 8 | 0.15 | 7 | 200 | 0.07 |

Ex411F
File, Flat, Bastard
Copper Beryllium (CuBe) only



| No. | a inch | b inch | Wt. lbs. | a mm | b mm | kg |
|-------------|--------|--------|----------|------|------|------|
| Ex411F-200B | 3/4 | 8 | 0.41 | 20 | 200 | 0.19 |

CUTTING

UTILITY TOOLS

Shovels – page 65

Hatchets / Axes – page 66

Bars – pages 66-67

Picks/Forks – pages 68-69



When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex1005-250A

or

Ex1005-250B

Dust Pan Ex1004

Shovel, Square Point with Long Handle Ex1005

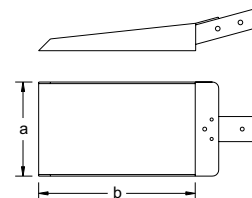
Shovel, Round Point with Long Handle Ex1006

Spade, Edging with D-Grip Ex1007

Ex1004

Dust Pan

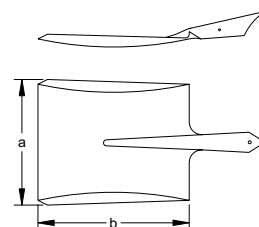
Copper Beryllium (CuBe) only



| No. | a inch | b inch | Wt. lbs. | a mm | b mm | kg | Handle Length |
|-------------|-----------|-----------|-------------|---------|---------|------|------------------|
| Ex1004-120B | 4-3/4 | 8 | 0.79 | 120 | 200 | 0.36 | 12.5"/320mm |

Ex1005 / Ex1005D

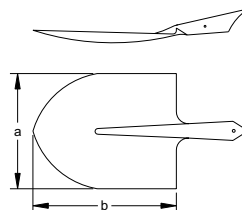
Shovel, Square Point



| No. | Handle Type | a inch | b inch | Wt. lbs. | a mm | b mm | kg | Handle Length |
|-------------|----------------|-----------|-----------|-------------|---------|---------|------|------------------|
| Ex1005-250 | Straight | 9.1 | 10.6 | 5.16 | 230 | 270 | 2.34 | 29.5"/750mm |
| Ex1005D-250 | D | 9.1 | 10.6 | 6.26 | 230 | 270 | 2.84 | 45"/1143mm |

Ex1006 / Ex1006D

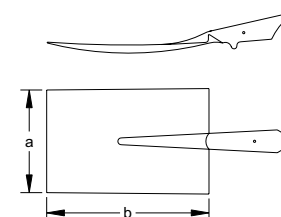
Shovel, Round Point



| No. | Handle Type | a inch | b inch | Wt. lbs. | a mm | b mm | kg | Handle Length |
|-------------|----------------|-----------|-----------|-------------|---------|---------|------|------------------|
| Ex1006-243 | Straight | 9.45 | 11 | 5.93 | 240 | 280 | 2.69 | 29.5"/750mm |
| Ex1006D-243 | D | 9.45 | 11 | 4.83 | 240 | 280 | 2.19 | 45"/1143mm |

Ex1007

Spade, Edging with D-Grip



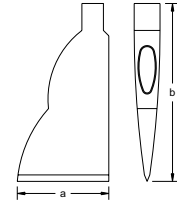
| No. | a inch | b inch | Wt. lbs. | a mm | b mm | kg | Handle Length |
|------------|-----------|-----------|-------------|---------|---------|------|------------------|
| Ex1007-180 | 7-3/16 | 11-3/8 | 2.62 | 180 | 285 | 1.19 | 31.5"/800mm |

Hatchet Ex1202
 Axe, Pick Head Ex1203
 Caulking Tool Ex308B

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
 Example: Ex1202-85A
 or
 Ex1202-85B

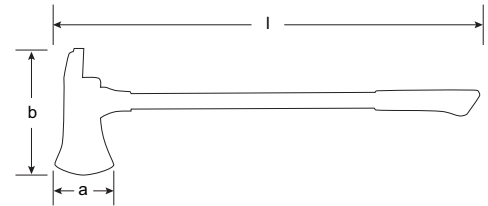
HATCHETS / AXES

Ex1202
Hatchet
w/ Nupla Handle



| No. | a inch | b inch | Wt. lbs. | a mm | b mm | kg | Handle Length |
|-----------|-----------|-----------|-------------|---------|---------|------|------------------|
| Ex1202-85 | 3-13/32 | 6-19/32 | 2.71 | 85 | 165 | 1.23 | 14"/360mm |

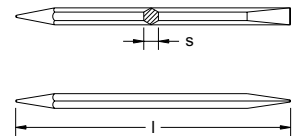
Ex1203
Axe, Pick Head
w/ Nupla Handle



| No. | a inch | b inch | l inch | Wt. lbs. | a mm | b mm | l mm | kg |
|-------------|-----------|-----------|-----------|-------------|---------|---------|---------|------|
| Ex1203-1850 | 5 | 12 | 36-7/23 | 4.00 | 125 | 300 | 920 | 1.85 |
| Ex1203-2950 | 5 | 12 | 36-7/23 | 6.50 | 125 | 300 | 920 | 2.95 |

BARS

Ex308B
Caulking Tool



| No. | s inch | l inch | Wt. lbs. | s mm | l mm | kg |
|--------------|-----------|-----------|-------------|---------|---------|-------|
| Ex308B-32/10 | 1-1/4 | 40 | 15.06 | 32 | 1000 | 6.83 |
| Ex308B-36/12 | 1-7/16 | 48 | 23.16 | 36 | 1200 | 10.51 |
| Ex308B-36/15 | 1-7/16 | 60 | 28.72 | 36 | 1500 | 13.03 |
| Ex308B-50/10 | 2 | 40 | 36.13 | 50 | 1000 | 16.39 |
| Ex308B-50/12 | 2 | 48 | 44.25 | 50 | 1200 | 20.07 |

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex1013-310A

or

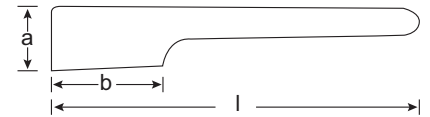
Ex1013-310B

Drum Opener, Carbide Ex1013

Bar, Pinch Ex1301

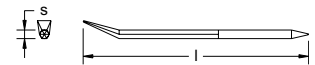
Angle Tracing Point Ex1302

Bar, Crow Ex1303



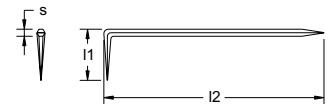
Ex1013 Drum Opener, Carbide

| No. | a inch | b inch | l inch | Wt. lbs. | a mm | b mm | l mm | kg |
|------------|-----------|-----------|-----------|-------------|---------|---------|---------|------|
| Ex1013-310 | 1-3/4 | 3 | 12-3/8 | 1.58 | 45 | 75 | 310 | 0.71 |



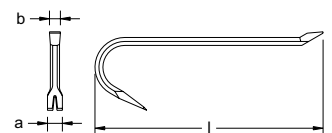
Ex1301 Bar, Pinch

| No. | s inch | l inch | Wt. lbs. | s mm | l mm | kg |
|--------------|-----------|-----------|-------------|---------|---------|------|
| Ex1301-500 | 3/4 | 20 | 2.69 | 19 | 500 | 1.22 |
| Ex1301-800 | 7/8 | 32 | 5.56 | 23 | 800 | 2.52 |
| Ex1301-1000 | 1-1/8 | 40 | 11.04 | 28 | 1000 | 5.01 |
| Ex1301-1000L | 1-3/16 | 40 | 12.50 | 30 | 1000 | 5.67 |



Ex1302 Angle Tracing Point

| No. | s inch | l ₁ inch | l ₂ inch | Wt. lbs. | s mm | l ₁ mm | l ₂ mm | kg |
|------------|-----------|------------------------|------------------------|-------------|---------|----------------------|----------------------|------|
| Ex1302-300 | 5/8 | 4-5/8 | 12 | 1.28 | 16 | 116 | 300 | 0.58 |
| Ex1302-500 | 5/8 | 4-5/8 | 20 | 2.11 | 16 | 116 | 500 | 0.96 |
| Ex1302-600 | 3/4 | 5-9/16 | 24 | 3.93 | 20 | 140 | 600 | 1.78 |
| Ex1302-800 | 7/8 | 6-7/16 | 32 | 6.30 | 22 | 162 | 800 | 2.86 |

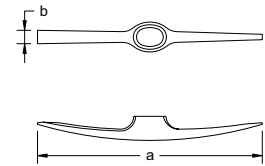


Ex1303 Bar, Crow

| No. | a inch | b inch | l inch | Wt. lbs. | a mm | b mm | l mm | kg |
|------------|-----------|-----------|-----------|-------------|---------|---------|---------|------|
| Ex1303-460 | 1-3/16 | 7/8 | 18-3/8 | 3.06 | 30 | 22 | 460 | 1.39 |
| Ex1303-600 | 1-3/8 | 1-1/8 | 24 | 5.07 | 35 | 28 | 600 | 2.30 |
| Ex1303-760 | 1-3/8 | 1-1/8 | 30-3/8 | 7.09 | 35 | 28 | 760 | 3.22 |
| Ex1303-900 | 1-3/8 | 1-1/8 | 36 | 7.76 | 35 | 28 | 900 | 3.52 |

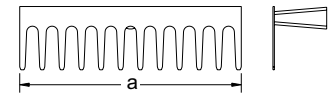
PICKS / FORKS

Ex1008
Pick, Railroad or Clay
 (Handle Included)



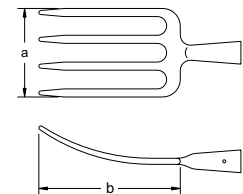
| No. | a inch | b inch | Wt. lbs. | a mm | b mm | kg | Handle Length |
|------------|---------|--------|----------|------|------|------|---------------|
| Ex1008-420 | 16-3/4 | 1 | 2.65 | 420 | 25 | 1.20 | 36"/920mm |
| Ex1008-560 | 22-3/8 | 1-3/16 | 4.54 | 560 | 30 | 2.06 | 36"/920mm |
| Ex1008-640 | 25-9/16 | 1-3/8 | 9.85 | 640 | 35 | 4.47 | 36"/920mm |

Ex1009
Rake
 (Handle Included)



| No. | a inch | Wt. lbs. | a mm | kg | Handle Length |
|------------|--------|----------|------|------|---------------|
| Ex1009-300 | 12 | 0.73 | 300 | 0.33 | 53"/1350mm |

Ex1010
Fork, Garden
 (Single Cast, Handle Included)



| No. | a inch | b inch | Wt. lbs. | a mm | b mm | kg | Handle Length |
|------------|--------|---------|----------|------|------|------|---------------|
| Ex1010-175 | 7 | 11-3/16 | 4.10 | 175 | 280 | 1.86 | 47"/1200mm |

UTILITY

When ordering, specify:

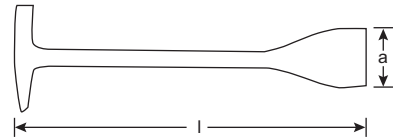
A = Aluminum Bronze

B = Copper Beryllium

Example: Ex1014-400A

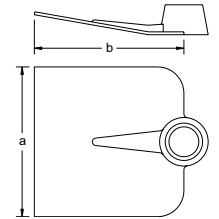
or

Ex1014-400B



Ex1014
Scraper, Pick and Scaler

| No. | a inch | l inch | Wt. lbs. | a mm | l mm | kg |
|------------|-----------|-----------|-------------|---------|---------|------|
| Ex1014-400 | 3 | 16 | 3.44 | 75 | 400 | 1.56 |
| Ex1014-450 | 3 | 17-23/32 | 2.43 | 75 | 450 | 1.10 |



Ex1015
Hoe, Planters' / Mixing
Angled Blade

(Handle Included)

| No. | a inch | b inch | Wt. lbs. | a mm | b mm | kg | Handle Length |
|------------|-----------|-----------|-------------|---------|---------|------|------------------|
| Ex1015-200 | 4 | 4 | 4.14 | 200 | 200 | 1.88 | 36"/920mm |

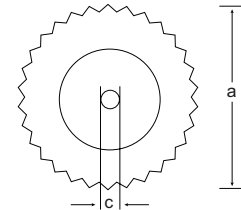
MISCELLANEOUS TOOLS

Brushes – pages 70-71

Bung Wrenches – page 72

Clamps – page 73

Special Tools – pages 73-75

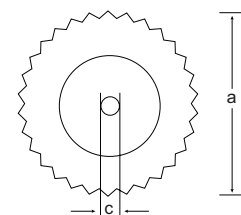


Ex998

Cup Brush, Knot Wire

| No. | a inch | c inch | Wt. lbs. |
|----------|-----------|-----------|-------------|
| Ex998-3U | 3 | 5/8 | 0.66 |
| Ex998-4U | 4 | 5/8 | 1.23 |
| Ex998-6U | 6 | 5/8 | 1.98 |

| No. | a inch | c inch | kg |
|-----------|-----------|-----------|------|
| Ex998-75 | 75 | M14 | 0.30 |
| Ex998-100 | 100 | M14 | 0.56 |
| Ex998-150 | 150 | M14 | 0.90 |



Ex1000

Brush, Cup

| No. | a inch | c inch | Wt. lbs. |
|-----------|-----------|-----------|-------------|
| Ex1000-3U | 3 | 5/8 | 0.66 |
| Ex1000-4U | 4 | 5/8 | 1.14 |
| Ex1000-6U | 6 | 5/8 | 2.05 |

| No. | a inch | c inch | kg |
|------------|-----------|-----------|------|
| Ex1000-75 | 75 | M14 | 0.29 |
| Ex1000-100 | 100 | M14 | 0.42 |
| Ex1000-150 | 150 | M14 | 0.57 |

MISCELLANEOUS

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex1003-125A

or

Ex1003-125B

Brush, Wheel Ex1003

Brush, Spark Plug Cleaning Ex996

Brush, Straight Handle, Scratch Ex1001

Brush, Flat Back, Scratch Ex1002

Ex1003 Brush, Wheel



| No. | a inch | b inch | Wt. lbs. | c | a mm | b mm | kg |
|------------|-----------|-----------|-------------|-----|---------|---------|------|
| Ex1003-125 | 5 | 3/4 | 0.79 | M14 | 125 | 20 | 0.36 |

Ex996 Brush, Spark Plug Cleaning

Phosphorous Copper only



| No. | Description | a inch | l inch |
|-----------|--------------------|-----------|-----------|
| Ex996-3PC | 3 rows of bristles | 1/2 | 7 |

Ex1001 Brush, Straight Handle, Scratch

Aluminum Bronze (AlBr) only



| No. | Rows | b inch | Wt. lbs. | b mm | kg |
|-----------|------|-----------|-------------|---------|------|
| Ex1001-3A | 3 | 11-3/16 | 0.33 | 280 | 0.15 |
| Ex1001-4A | 4 | 11-3/16 | 0.44 | 280 | 0.20 |

Ex1002 Brush, Flat Back, Scratch

Aluminum Bronze (AlBr) only



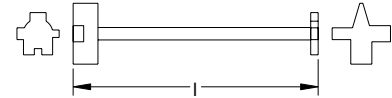
| No. | Rows | b inch | Wt. lbs. | b mm | kg |
|-----------|------|-----------|-------------|---------|-----|
| Ex1002-5A | 5 | 7-3/8 | 0.66 | 185 | 0.3 |

Wrench, Bung Ex110
 Wrench, Bung (Fits 3/4" & 2" Bungs) Ex110ES
 Wrench, Bung (For 22 Different Bungs) Ex110S
 Wrench, Bung Ex213

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
 Example: Ex110-400A
 or
 Ex110-400B

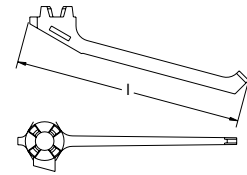
BUNG WRENCHES

**Ex110
Wrench, Bung**



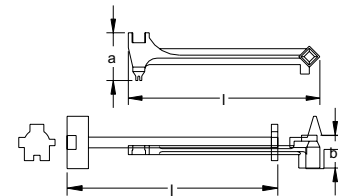
| No. | l inch | Wt. lbs. | l mm | ⚖ kg |
|-----------|-----------|-------------|---------|---------|
| Ex110-400 | 15-3/4 | 4.28 | 400 | 1.94 |

**Ex110ES
Wrench, Bung**
 Fits 3/4" & 2" Bungs



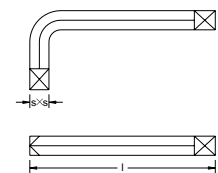
| No. | l inch | Wt. lbs. | l mm | ⚖ kg |
|-------------|-----------|-------------|---------|---------|
| Ex110ES-305 | 12-3/16 | 1.65 | 305 | 0.75 |

**Ex110S
Wrench, Bung**
 For 22 Different Bungs



| No. | a inch | b inch | l inch | Wt. lbs. | a mm | b mm | l mm | ⚖ kg |
|------------|-----------|-----------|-----------|-------------|---------|---------|---------|---------|
| Ex110S-385 | 3-13/16 | 2-5/8 | 15-3/8 | 4.01 | 96 | 66 | 385 | 1.82 |

**Ex213
Wrench, Bung**



| No. | s inch | l inch | Wt. lbs. | s mm | l mm | ⚖ kg |
|----------|-----------|-----------|-------------|---------|---------|---------|
| Ex213-22 | 7/8 | 10-3/16 | 1.41 | 22 | 255 | 0.64 |
| Ex213-24 | 15/16 | 10-3/16 | 1.75 | 24 | 255 | 0.78 |
| Ex213-27 | 1-1/16 | 12-3/8 | 2.65 | 27 | 310 | 1.20 |
| Ex213-32 | 1-1/4 | 12-3/8 | 3.78 | 32 | 310 | 1.71 |

MISCELLANEOUS

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex211-160A

or

Ex211-160B

Clamp, Grounding Ex211

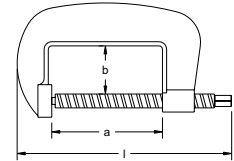
Clamp, C-Type Ex901

Parallel Vise Ex902

Flange Spreader Ex1102

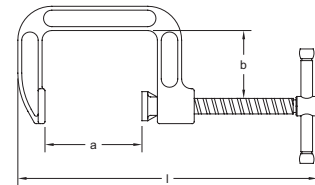
CLAMPS

Ex211
Clamp, Grounding



| No. | a inch | b inch | l inch | Wt. lbs. | a mm | b mm | l mm | kg |
|-----------|--------|--------|--------|----------|------|------|------|------|
| Ex211-160 | 6-3/8 | 2-3/4 | 12-3/8 | 7.87 | 160 | 69.5 | 310 | 3.57 |

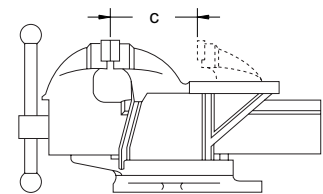
Ex901
Clamp, C-Type



| No. | a max inch | b inch | l inch | Wt. lbs. | a max mm | b mm | l mm | kg |
|-----------|------------|--------|--------|----------|----------|------|------|------|
| Ex901-100 | 4 | 2-3/4 | 12-3/8 | 3.77 | 100 | 70 | 309 | 1.71 |

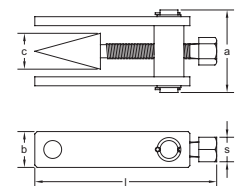
SPECIAL TOOLS

Ex902
Parallel Vise



| No. | c max inch | Wt. lbs. | c max mm | kg |
|-----------|------------|----------|----------|-------|
| Ex902-100 | 4 | 37.21 | 100 | 16.88 |
| Ex902-125 | 5 | 43.30 | 125 | 19.64 |

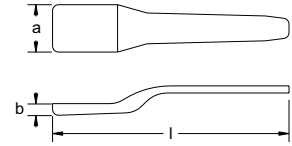
Ex1102
Flange Spreader



| No. | a inch | b inch | c inch | s inch | l inch | Wt. lbs. | a mm | b mm | c mm | s mm | l mm | kg |
|-----------|--------|--------|--------|---------|---------|----------|------|------|------|------|------|------|
| Ex1102-60 | 5-9/16 | 2-3/8 | 2-3/8 | 1-13/16 | 12-3/16 | 14.53 | 140 | 60 | 60 | 46 | 305 | 6.59 |

MISCELLANEOUS

**Ex308A
 Caulking Tool**



| No. | a inch | b inch | l inch | Wt. lbs. | a mm | b mm | l mm | ⚖️ kg |
|------------|-----------|-----------|-----------|-------------|---------|---------|---------|----------|
| Ex308A-200 | 1-9/16 | 3/8 | 8 | 0.87 | 40 | 10 | 200 | 0.40 |

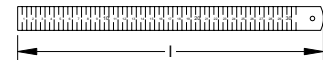
**Ex1017
 Bucket**

Aluminum Bucket with Brass Handle



| No. | volume gallon | dia. x ht. inch | Wt. lbs. | volume l | dia. x ht. mm | ⚖️ kg |
|------------|------------------|--------------------|-------------|-------------|------------------|----------|
| Ex1017-300 | 2.6 | 10-5/8 x 11 | 6.61 | 10 | 270 x 280 | 3.0 |

**Ex1601
 Ruler**



| No. | l inch | Wt. lbs. | l mm | ⚖️ kg |
|------------|-----------|-------------|---------|----------|
| Ex1601-300 | 13-3/8 | 0.15 | 335 | 0.07 |
| Ex1601-500 | 21-11/16 | 0.24 | 543 | 0.11 |

MISCELLANEOUS

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex302-3A

or

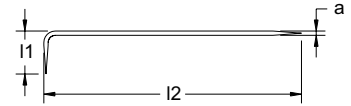
Ex302-3B

Scriber/Marking Tool Ex302

Tweezer Ex610

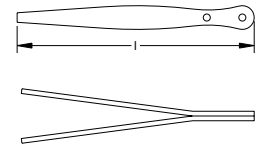
Tweezer Ex610S

Ex302 Scriber / Marking Tool



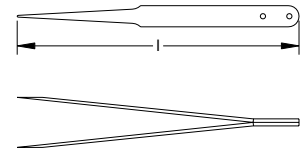
| No. | a inch | l ₁ inch | l ₂ inch | Wt. lbs. | a mm | l ₁ mm | l ₂ mm | kg |
|---------|-----------|------------------------|------------------------|-------------|---------|----------------------|----------------------|-------|
| Ex302-3 | 1/8 | 1-3/6 | 7-3/16 | 0.02 | 3 | 30 | 180 | 0.011 |
| Ex302-4 | 5/32 | 1-3/8 | 7-3/4 | 0.04 | 4 | 35 | 195 | 0.02 |
| Ex302-5 | 3/16 | 1-9/16 | 8-3/8 | 0.09 | 5 | 40 | 210 | 0.04 |
| Ex302-6 | 1/4 | 1-3/4 | 9 | 0.13 | 6 | 45 | 225 | 0.06 |

Ex610 Tweezer Copper Beryllium (CuBe) only



| No. | l inch | Wt. lbs. | l mm | kg |
|------------|-----------|-------------|---------|-------|
| Ex610-100B | 4 | 0.05 | 100 | 0.022 |
| Ex610-200B | 8 | 0.13 | 200 | 0.061 |

Ex610S Tweezer Copper Beryllium (CuBe) only



| No. | l inch | Wt. lbs. | l mm | kg |
|-------------|-----------|-------------|---------|-------|
| Ex610S-155B | 6-3/16 | 0.10 | 155 | 0.046 |

CS Unitec Tool Kits

- Screwdriver Kit
- Combination Wrench Kit
- Allen Wrench Kit
- Socket Sets
- Custom-Designed Kits



When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex206-KitA

or

Ex206-KitB

Ex801-KitB

Screwdriver Kit *Copper Beryllium (CuBe) only*

(Pouch Included)

| No. | Dimensions | Quantity |
|-----------|------------|----------|
| Ex801-6B | 1/4" x 6" | 1 |
| Ex801-8B | 5/16" x 6" | 1 |
| Ex801-10B | 3/8" x 12" | 1 |
| Ex803-1B | No. 1 x 3" | 1 |
| Ex803-2B | No. 2 x 4" | 1 |
| Ex803-3B | No. 3 x 6" | 1 |



Ex206-Kit

Combination Wrench Kit

(Pouch Included)

| No. | Dimensions | Quantity |
|------------|------------|----------|
| Ex206-020U | 3/8" | 1 |
| Ex206-030U | 7/16" | 1 |
| Ex206-035U | 1/2" | 1 |
| Ex206-040U | 9/16" | 1 |
| Ex206-050U | 5/8" | 1 |
| Ex206-060U | 3/4" | 1 |
| Ex206-075U | 7/8" | 1 |



Ex209-KitB

Allen Wrench Kit *Copper Beryllium (CuBe) only*

(Pouch Included)

| No. | Dimensions | Quantity |
|-------------|------------|----------|
| Ex209-005UB | 1/16" | 1 |
| Ex209-010UB | 5/64" | 1 |
| Ex209-015UB | 3/32" | 1 |
| Ex209-020UB | 1/8" | 1 |
| Ex209-030UB | 5/32" | 1 |
| Ex209-035UB | 3/16" | 1 |
| Ex209-040UB | 7/32" | 1 |
| Ex209-045UB | 1/4" | 1 |
| Ex209-050UB | 5/16" | 1 |
| Ex209-055UB | 3/8" | 1 |



Sockets 1/4" Drive (Case Included)

Ex1520-Kit

| No. | Dimensions | Quantity | Description |
|---------------|------------|----------|--------------------|
| Ex1503AA-010U | 3/16" | 1 | Socket, 1/4" drive |
| Ex1503AA-012U | 7/32" | 1 | Socket, 1/4" drive |
| Ex1503AA-015U | 1/4" | 1 | Socket, 1/4" drive |
| Ex1503AA-017U | 9/32" | 1 | Socket, 1/4" drive |
| Ex1503AA-020U | 5/16" | 1 | Socket, 1/4" drive |
| Ex1503AA-022U | 11/32" | 1 | Socket, 1/4" drive |
| Ex1503AA-025U | 3/8" | 1 | Socket, 1/4" drive |
| Ex1503AA-030U | 7/16" | 1 | Socket, 1/4" drive |
| Ex1503AA-035U | 1/2" | 1 | Socket, 1/4" drive |
| Ex1503AA-040U | 9/16" | 1 | Socket, 1/4" drive |
| Ex1501S-A | 1/4" drive | 1 | Ratchet |
| Ex1502-AA | 1/4" drive | 1 | Sliding Bar |
| Ex1504AA-100U | 1/4" drive | 1 | Extension Bar |
| Ex1506AA | 1/4" drive | 1 | Hinged Handle |

Ex1520-Met Kit

| No. | Dimensions | Quantity | Description |
|---------------|------------|----------|--------------------|
| Ex1503AA-4 | 4mm | 1 | Socket, 1/4" drive |
| Ex1503AA-5 | 5mm | 1 | Socket, 1/4" drive |
| Ex1503AA-6 | 6mm | 1 | Socket, 1/4" drive |
| Ex1503AA-7 | 7mm | 1 | Socket, 1/4" drive |
| Ex1503AA-8 | 8mm | 1 | Socket, 1/4" drive |
| Ex1503AA-9 | 9mm | 1 | Socket, 1/4" drive |
| Ex1503AA-10 | 10mm | 1 | Socket, 1/4" drive |
| Ex1503AA-11 | 11mm | 1 | Socket, 1/4" drive |
| Ex1503AA-12 | 12mm | 1 | Socket, 1/4" drive |
| Ex1503AA-13 | 13mm | 1 | Socket, 1/4" drive |
| Ex1501S-A | 1/4" drive | 1 | Ratchet |
| Ex1502-AA | 1/4" drive | 1 | Sliding Bar |
| Ex1504AA-100U | 1/4" drive | 1 | Extension Bar |
| Ex1506AA | 1/4" drive | 1 | Hinged Handle |

TOOL KITS

Sockets Kits – 1/2" Drive

Ex1500-Kit 28-Piece Kit (Case Included)

| No. | Dimensions | Quantity | Description |
|--------------|------------|----------|--------------------|
| Ex1503B-005U | 1/4" | 1 | Socket, 1/2" drive |
| Ex1503B-010U | 5/16" | 1 | Socket, 1/2" drive |
| Ex1503B-015U | 3/8" | 1 | Socket, 1/2" drive |
| Ex1503B-020U | 7/16" | 1 | Socket, 1/2" drive |
| Ex1503B-025U | 1/2" | 1 | Socket, 1/2" drive |
| Ex1503B-030U | 9/16" | 1 | Socket, 1/2" drive |
| Ex1503B-035U | 5/8" | 1 | Socket, 1/2" drive |
| Ex1503B-040U | 11/16" | 1 | Socket, 1/2" drive |
| Ex1503B-045U | 3/4" | 1 | Socket, 1/2" drive |
| Ex1503B-050U | 13/16" | 1 | Socket, 1/2" drive |
| Ex1503B-055U | 7/8" | 1 | Socket, 1/2" drive |
| Ex1503B-060U | 15/16" | 1 | Socket, 1/2" drive |
| Ex1503B-065U | 1" | 1 | Socket, 1/2" drive |
| Ex1503B-070U | 1-1/16" | 1 | Socket, 1/2" drive |
| Ex1503B-075U | 1-1/8" | 1 | Socket, 1/2" drive |
| Ex1503B-080U | 1-3/16" | 1 | Socket, 1/2" drive |
| Ex1503B-085U | 1-1/4" | 1 | Socket, 1/2" drive |
| Ex1503B-090U | 1-5/16" | 1 | Socket, 1/2" drive |
| Ex1503B-095U | 1-3/8" | 1 | Socket, 1/2" drive |
| Ex1503B-100U | 1-7/16" | 1 | Socket, 1/2" drive |
| Ex1503B-110U | 1-1/2" | 1 | Socket, 1/2" drive |
| Ex1501S-B | 1/2" drive | 1 | Ratchet |
| Ex1502-B | 1/2" drive | 1 | Sliding Bar |
| Ex1504B-100 | 1/2" drive | 1 | Extension Bar |
| Ex1504B-250 | 1/2" drive | 1 | Extension Bar |
| Ex1506B | 1/2" drive | 1 | Hinged Handle |
| Ex1507B | 1/2" drive | 1 | Universal Joint |

Ex1535-Kit 10-Piece Kit (Case Included)

| No. | Dimensions | Quantity | Description |
|--------------|------------|----------|--------------------|
| Ex1503B-025U | 1/2" | 1 | Socket, 1/2" drive |
| Ex1503B-040U | 11/16" | 1 | Socket, 1/2" drive |
| Ex1503B-055U | 7/8" | 1 | Socket, 1/2" drive |
| Ex1503B-070U | 1-1/16" | 1 | Socket, 1/2" drive |
| Ex1503B-085U | 1-1/4" | 1 | Socket, 1/2" drive |
| Ex1501S-B | 1/2" drive | 1 | Ratchet |
| Ex1502-B | 1/2" drive | 1 | Sliding Bar |
| Ex1504B-250 | 1/2" drive | 1 | Extension Bar |
| Ex1506B | 1/2" drive | 1 | Hinged Handle |

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex1530-KitA

or

Ex1530-KitB

Ex1530-Kit

20-Piece Kit (Case Included)

| No. | Dimensions | Quantity | Description |
|--------------|------------|----------|--------------------|
| Ex1503B-010U | 5/16" | 1 | Socket, 1/2" drive |
| Ex1503B-015U | 3/8" | 1 | Socket, 1/2" drive |
| Ex1503B-020U | 7/16" | 1 | Socket, 1/2" drive |
| Ex1503B-025U | 1/2" | 1 | Socket, 1/2" drive |
| Ex1503B-030U | 9/16" | 1 | Socket, 1/2" drive |
| Ex1503B-035U | 5/8" | 1 | Socket, 1/2" drive |
| Ex1503B-040U | 11/16" | 1 | Socket, 1/2" drive |
| Ex1503B-045U | 3/4" | 1 | Socket, 1/2" drive |
| Ex1503B-050U | 13/16" | 1 | Socket, 1/2" drive |
| Ex1503B-055U | 7/8" | 1 | Socket, 1/2" drive |
| Ex1503B-060U | 15/16" | 1 | Socket, 1/2" drive |
| Ex1503B-065U | 1" | 1 | Socket, 1/2" drive |
| Ex1503B-070U | 1-1/16" | 1 | Socket, 1/2" drive |
| Ex1503B-075U | 1-1/8" | 1 | Socket, 1/2" drive |
| Ex1503B-085U | 1-1/4" | 1 | Socket, 1/2" drive |
| Ex1501S-B | 1/2" drive | 1 | Ratchet |
| Ex1502-B | 1/2" drive | 1 | Sliding Bar |
| Ex1504B-250 | 1/2" drive | 1 | Extension Bar |
| Ex1506B | 1/2" drive | 1 | Hinged Handle |

Ex1530-Met Kit

28-Piece Kit (Case Included)

| No. | Dimensions | Quantity | Description |
|-------------|------------|----------|--------------------|
| Ex1503B-8 | 8mm | 1 | Socket, 1/2" drive |
| Ex1503B-10 | 10mm | 1 | Socket, 1/2" drive |
| Ex1503B-11 | 11mm | 1 | Socket, 1/2" drive |
| Ex1503B-12 | 12mm | 1 | Socket, 1/2" drive |
| Ex1503B-13 | 13mm | 1 | Socket, 1/2" drive |
| Ex1503B-14 | 14mm | 1 | Socket, 1/2" drive |
| Ex1503B-15 | 15mm | 1 | Socket, 1/2" drive |
| Ex1503B-16 | 16mm | 1 | Socket, 1/2" drive |
| Ex1503B-17 | 17mm | 1 | Socket, 1/2" drive |
| Ex1503B-18 | 18mm | 1 | Socket, 1/2" drive |
| Ex1503B-19 | 19mm | 1 | Socket, 1/2" drive |
| Ex1503B-20 | 20mm | 1 | Socket, 1/2" drive |
| Ex1503B-21 | 21mm | 1 | Socket, 1/2" drive |
| Ex1503B-22 | 22mm | 1 | Socket, 1/2" drive |
| Ex1503B-23 | 23mm | 1 | Socket, 1/2" drive |
| Ex1503B-24 | 24mm | 1 | Socket, 1/2" drive |
| Ex1503B-26 | 26mm | 1 | Socket, 1/2" drive |
| Ex1503B-27 | 27mm | 1 | Socket, 1/2" drive |
| Ex1503B-28 | 28mm | 1 | Socket, 1/2" drive |
| Ex1503B-30 | 30mm | 1 | Socket, 1/2" drive |
| Ex1503B-32 | 32mm | 1 | Socket, 1/2" drive |
| Ex1501S-B | 1/2" drive | 1 | Ratchet |
| Ex1502-B | 1/2" drive | 1 | Sliding Bar |
| Ex1504B-100 | 1/2" drive | 1 | Extension Bar |
| Ex1504B-250 | 1/2" drive | 1 | Extension Bar |
| Ex1506B | 1/2" drive | 1 | Hinged Handle |
| Ex1507B | 1/2" drive | 1 | Universal Joint |

Sockets Kits – 3/4" Drive

Ex1540-Kit

16-Piece Kit (Case Included)

| No. | Dimensions | Quantity | Description |
|--------------|------------|----------|--------------------|
| Ex1503C-050U | 1-5/16" | 1 | Socket, 3/4" drive |
| Ex1503C-055U | 1-3/8" | 1 | Socket, 3/4" drive |
| Ex1503C-060U | 1-7/16" | 1 | Socket, 3/4" drive |
| Ex1503C-065U | 1-1/2" | 1 | Socket, 3/4" drive |
| Ex1503C-070U | 1-9/16" | 1 | Socket, 3/4" drive |
| Ex1503C-075U | 1-5/8" | 1 | Socket, 3/4" drive |
| Ex1503C-080U | 1-11/16" | 1 | Socket, 3/4" drive |
| Ex1503C-085U | 1-3/4" | 1 | Socket, 3/4" drive |
| Ex1503C-090U | 1-13/16" | 1 | Socket, 3/4" drive |
| Ex1503C-095U | 1-7/8" | 1 | Socket, 3/4" drive |
| Ex1503C-105U | 2" | 1 | Socket, 3/4" drive |
| Ex1501S-C | 3/4" drive | 1 | Ratchet |
| Ex1502-C | 3/4" drive | 1 | Sliding Bar |
| Ex1504C-250 | 3/4" drive | 1 | Extension Bar |
| Ex1506C | 3/4" drive | 1 | Hinged Handle |

Ex1540-Met Kit

14-Piece Kit (Case Included)

| No. | Dimensions | Quantity | Description |
|-------------|------------|----------|--------------------|
| Ex1503C-22 | 22mm | 1 | Socket, 3/4" drive |
| Ex1503C-24 | 24mm | 1 | Socket, 3/4" drive |
| Ex1503C-27 | 27mm | 1 | Socket, 3/4" drive |
| Ex1503C-30 | 30mm | 1 | Socket, 3/4" drive |
| Ex1503C-32 | 32mm | 1 | Socket, 3/4" drive |
| Ex1503C-36 | 36mm | 1 | Socket, 3/4" drive |
| Ex1503C-41 | 41mm | 1 | Socket, 3/4" drive |
| Ex1503C-46 | 46mm | 1 | Socket, 3/4" drive |
| Ex1503C-50 | 50mm | 1 | Socket, 3/4" drive |
| Ex1501S-C | 3/4" drive | 1 | Ratchet |
| Ex1502-C | 3/4" drive | 1 | Sliding Bar |
| Ex1504C-100 | 3/4" drive | 1 | Extension Bar |
| Ex1506C | 3/4" drive | 1 | Hinged Handle |

When ordering, specify:

A = Aluminum Bronze

B = Copper Beryllium

Example: Ex2211-KitA

or

Ex2211-KitB

Ex2000-KitB

24-Piece Kit *Copper Beryllium (CuBe) only*

(Case Included)

| No. | Dimensions | Quantity | Description |
|--------------|-------------------|----------|-----------------------|
| Ex101U-0100B | 1 lb. | 1 | Ball Peen Hammer |
| Ex104U-0500B | 5 lb. | 1 | Sledge Hammer |
| Ex106U-0100B | 1 lb. | 2 | Scaling Hammers |
| Ex207-50B | 2" | 1 | Valve Wrench |
| Ex301C-030UB | 3/8" x 6" x 9/16" | 1 | Drift Pin Barrel |
| Ex304-200B | 7/8" x 8" | 1 | Flat Chisel |
| Ex402-45B | 1-3/4" x 9" | 2 | Angle Scraper |
| Ex403-300B | 12" | 1 | Triangle Scraper |
| Ex407-60B | 2-3/8" | 2 | Long Blade Scraper |
| Ex501-10B | 10" | 1 | Adjustable End Wrench |
| Ex501-15B | 15" | 1 | Adjustable End Wrench |
| Ex502-12B | 12" | 1 | Pipe Wrench |
| Ex604-10B | 10" | 1 | Groove Joint Pliers |
| Ex801-8B | 5/16" x 6" | 1 | Screwdriver - Flat |
| Ex801-10SB | 3/8" x 8" | 1 | Screwdriver - Flat |
| Ex1001-3A | 3 Rows | 2 | Brass Brush |
| Ex1004-120B | 8" | 2 | Dust Pan |
| Ex1301-500B | 3/4" x 20" | 1 | Pinch Bar |

Ex2211-Kit

11-Piece Kit (Case Included)

| No. | Dimensions | Quantity | Description |
|-------------|------------|----------|------------------------|
| Ex408-30 | 1-3/16" | 1 | Putty Knife |
| Ex501-6 | 6" | 1 | Adjustable End Wrench |
| Ex501-10 | 10" | 1 | Adjustable End Wrench |
| Ex502-10 | 10" | 1 | Pipe Wrench |
| Ex604-10 | 10" | 1 | Groove Joint Pliers |
| Ex605-8 | 8" | 1 | Adjustable Pliers |
| Ex122U-0100 | 1 lb. | 1 | Claw Hammer |
| Ex803-2B | No. 2 x 4" | 1 | Screwdriver - Phillips |
| Ex801-6B | 1/4" x 6" | 1 | Screwdriver - Standard |
| Ex1001-4A | 4 Rows | 1 | Brass Brush |



CS Unitec Non-Sparking Tools Certifications

CS UNITEC SAFETY TOOLS are covered by a certification delivered by the BAM Berlin, Germany.

What does BAM stand for?

The BAM is the federal institute for material and research based in Berlin, Germany. BAM issues testing programs, achieves tests and certifies materials according to specific protocols.

Why choose the BAM for non-sparking tools?

BAM is a government agency created in 1954 and is the most known and trusted laboratory in Europe to achieve tests on materials' safety.

How is a spark created?

A spark is an incandescent particle of metal generated when detached from the main part of metal. The energy produced by this particle depends on the hardness of the material. Steel creates incandescent sparks when softer materials do not.

*The materials used by **CS UNITEC SAFETY TOOLS** to manufacture the tools must combine enough strength for working in difficult conditions while keeping its non-sparking property.*

How does BAM relate to **CS UNITEC SAFETY TOOLS**?

*Materials used to manufacture **CS UNITEC SAFETY TOOLS** have been tested and approved by the BAM to be non-sparking. Therefore, the tools made from the tested materials help fulfill the requirements indicated by the European ATEX directive 1999/92/EC.*

For more information on BAM and Non-sparking tools certifications, visit:
www.csunitec.com/nonsparking



BAM Type Approved

Certification No. BAM/ZBF/004/14

The BAM certificate relates only to the properties of the material pairings



ATEX Classified Power Tools Ensure a High Level of Safety in Explosive Atmospheres

ATEX Directive 94/9/EC defines requirements for controlling explosive atmospheres, as well as the standards for the equipment used in them. An explosive atmosphere is an atmosphere where enough flammable gas, mist, vapor or dust is mixed with air to cause an explosion if ignition occurs.

What is ATEX?

ATEX (ATmospheres EXplosibles) is a directive for those who design, manufacture or sell any equipment intended for use in potentially explosive atmospheres. Technical and quality objectives must be certified by a third-party certification association. The ATEX directive has been a legal requirement for all European Union States since July 2003. The ATEX symbol is recognized internationally, providing assurance to users around the world that the product was manufactured to high levels of safety.

How are ATEX tools classified?

Five elements are used to ensure that a specific piece of equipment is appropriate for its intended purpose and can be safely used in a particular application. These five elements are: 1. Industrial or Mining Application; 2. Equipment Category; 3. Atmosphere; 4. Gas; and 5. Temperature (see chart below).

What types of tools receive ATEX certification?

Pneumatic, hydraulic and electric power tools for construction and industry can be ATEX certified. CS Unitec offers a comprehensive line of power tools for the oil, gas and energy industries. ATEX certified power tools from our line include select models of reciprocating saws, hacksaws, rotary hammer drills, impact wrenches, portable band saws, nut runners, magnetic drills, axial fans and more.

How can I tell if my tool is ATEX certified?

The tool will be marked with the appropriate ATEX classification label and Ex symbol

| Equipment Group | Equipment Category | Atmosphere | Gas Groups | Temperature <i>(tool surface temp. does not exceed)</i> |
|--|--|--|--|--|
| II Surface Industry | 1 Very High Level of Protection <i>[Zone 0, 1, 2 or 20, 21, 22]</i> | Gc Atmosphere Containing Gas, Vapors or Mist | IIA Propane (acetone, petroleum fuel, ammonia, ethane, methanol, carbon monoxide, propane, n-butane, ethanol, diesel fuel, kerosene, avgas fuel, ethyl nitrite) | T1 842°F/450°C |
| | 2 High Level of Protection <i>[Zone 1, 2 or 21, 22]</i> | Dc Atmosphere Containing Dust | | T2 572°F/300°C |
| | 3 Normal Level of Protection <i>[Zone 2 or 22]</i> | | | T3 392°F/200°C |
| IM Mining Applications (underground and above-ground facilities) | 1 Very High Level of Protection <i>[Zone 0, 1, 2 or 20, 21, 22]</i> | Dc Atmosphere Containing Dust | IIB* Ethylene (coal gas, ethylene, ethyl oxide, hydrogen sulphide) | T4 275°F/135°C |
| | 2 High Level of Protection <i>[Zone 1, 2 or 21, 22]</i> | | | T5 212°F/100°C |
| | 3 Normal Level of Protection <i>[Zone 2 or 22]</i> | | | T6 185°F/85°C |

CAUTION: The user is responsible for following all safety regulations (OSHA, etc.) when choosing the appropriate tool for the hazards present.

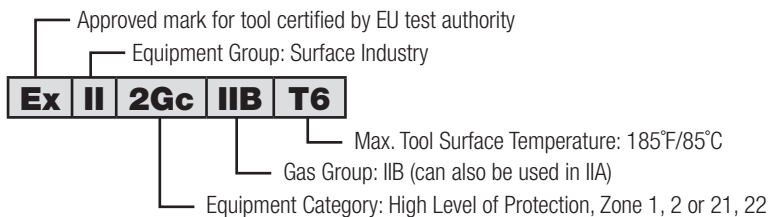
For ATEX information, visit: <http://ec.europa.eu/growth/sectors/mechanical-engineering/atex/>

For more information and product specifications on CS Unitec's ATEX classified industrial power tools, call 1-800-700-5919 (203-853-9522 international) or email info@csunitec.com.

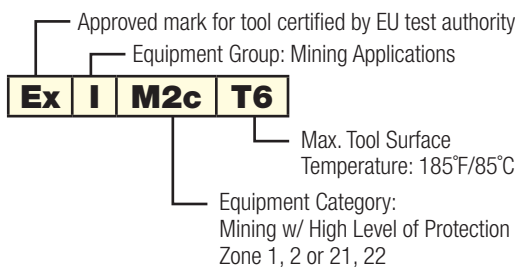
For a FREE poster explaining Ex zones, visit www.csunitec.com/poster.

Tool Classification Examples:

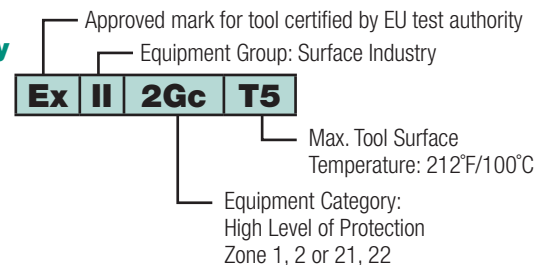
Industry with explosion group for specified types of gas:



Mining:



Industry for all types of gas:



ATEX Classified Power Tools for Ex and Hot Work Zones – Air & Hydraulic

| Classification | Industry | Level of Protection | Atmosphere | Temperature |
|------------------|----------|----------------------------|-------------------------------|-------------------------------------|
| Ex II 2Gc T6 | Surface | High (Zone 1, 2 or 21, 22) | Contains gas, vapors or mists | Surface does not exceed 185°F/85°C |
| Ex II 2Gc IIB T6 | Surface | High (Zone 1, 2 or 21, 22) | Contains gas, vapors or mists | Surface does not exceed 185°F/85°C |
| Ex II 2Gc T5 | Surface | High (Zone 1, 2 or 21, 22) | Contains gas, vapors or mists | Surface does not exceed 212°F/100°C |
| Ex II 2Gc IIA T4 | Surface | High (Zone 1, 2 or 21, 22) | Contains gas, vapors or mists | Surface does not exceed 275°F/135°C |
| Ex II 2Gc IIB T5 | Surface | High (Zone 1, 2 or 21, 22) | Contains gas, vapors or mists | Surface does not exceed 212°F/100°C |
| Ex II 2Gc IIB T3 | Surface | High (Zone 1, 2 or 21, 22) | Contains gas, vapors or mists | Surface does not exceed 392°F/200°C |
| Ex I M2c T6 | Mining | High (Zone 1, 2 or 21, 22) | | Surface does not exceed 185°F/85°C |
| Ex I M2c T5 | Mining | High (Zone 1, 2 or 21, 22) | | Surface does not exceed 212°F/100°C |

Drills & Drive Units: Pneumatic



| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|---|---------------------|
| 2 2089 0010 | Pneumatic | Drill, MT3 Lever Throttle, 1-1/4" in steel, Reversible, 250 RPM, 1.7 HP | Ex II 2Gc T6 |
| 2 2085 0010 | Pneumatic | Drill, MT2 Lever Throttle, 1.7 HP | Ex II 2Gc T6 |
| 2 2082 0010 | Pneumatic | Drill, MT3 Lever Throttle, 1.7 HP, 20 RPM | Ex II 2Gc T6 |
| 2 2084 0010 | Pneumatic | Drill, MT2 Lever Throttle, 1.7 HP, 200 RPM | Ex II 2Gc T6 |
| 2 1266 0010 | Pneumatic | Drill, 1/2", Pistol Grip | Ex II 2Gc T6 |
| 2 1260 0010 | Pneumatic | Drill, 3/8", Pistol Grip | Ex I M2c T6 |
| 2 1261 0010 | Pneumatic | Drill, 1/2", Pistol Grip | Ex I M2c T6 |
| 2 1310 0010 | Pneumatic | Drill, 1/2" Geared Chuck & Key, D-Handle | Ex I M2c T6 |
| 2 1310 0020 | Pneumatic | Drill, 1/2", Quick Chuck, D-Handle | Ex I M2c T6 |
| 2 1311 0010 | Pneumatic | Drill, MT1, D-Handle | Ex I M2c T6 |

Rotary Hammer Drills: Pneumatic



| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|--|---------------------|
| 2 2404 0010 | Pneumatic | Rotary Hammer Drill, 1", SDS Plus, 0-2000 Blows per Minute | Ex II 2Gc T6 |
| 2 2408 0010 | Pneumatic | Rotary Hammer Drill, 1", SDS Plus, For Underground Mining | Ex I M2c T6 |

Corner Drills: Pneumatic



| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|-----------------------------------|---------------------|
| 2 1701 0010 | Pneumatic | Corner Drill, MT2, Lever Throttle | Ex I M2c T6 |
| 2 1701 0030 | Pneumatic | Corner Drill, MT2, Roll Throttle | Ex I M2c T6 |
| 2 1801 0010 | Pneumatic | Corner Drill, MT3, Lever Throttle | Ex I M2c T6 |
| 2 1801 0030 | Pneumatic | Corner Drill, MT3, Roll Throttle | Ex I M2c T6 |

Nut Runners: Pneumatic



| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|-------------------------------------|---------------------|
| 6 1014 0010 | Pneumatic | Nut Runner, 1/2" Sq. Drive, 180 RPM | Ex I M2c T6 |
| 6 1055 0010 | Pneumatic | Nut Runner, 3/4" Sq. Drive, 22 RPM | Ex I M2c T6 |
| 6 1056 0010 | Pneumatic | Nut Runner, 3/4" Sq. Drive, 120 RPM | Ex I M2c T6 |
| 6 1057 0010 | Pneumatic | Nut Runner, 3/4" Sq. Drive, 125 RPM | Ex I M2c T6 |
| 6 1061 0010 | Pneumatic | Nut Runner, 7/8" Sq. Drive, 22 RPM | Ex I M2c T6 |

**ATEX Classified Power Tools for Ex and Hot Work Zones – Air & Hydraulic**

See page 89 for more information on Impact Wrenches

Impact Wrenches: Pneumatic & Hydraulic

| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|---|---------------------|
| 6 1034 0010 | Pneumatic | Impact Wrench, 1/2", 450 ft-lbs Torque | Ex II 2Gc T6 |
| 6 1316 0040 | Pneumatic | Impact Wrench, 1", 995 ft-lbs Torque | Ex II 2Gc T6 |
| 6 1316 0050 | Pneumatic | Impact Wrench, 3/4", 995 ft-lbs Torque | Ex II 2Gc T6 |
| 6 1410 0010 | Pneumatic | Impact Wrench, 1", 1620 ft-lbs Torque | Ex II 2Gc T6 |
| 6 1417 0040 | Pneumatic | Impact Wrench, 1-1/2", 3240 ft-lbs Torque | Ex II 2Gc T6 |
| 6 1515 0010 | Hydraulic | Impact Wrench, 3/4", 1220 ft-lbs Torque | Ex II 2Gc T5 |
| 6 1514 0010 | Hydraulic | Impact Wrench, 1", 1220 ft-lbs Torque | Ex II 2Gc T5 |
| 6 1035 0010 | Pneumatic | Impact Wrench, 1/2", 450 ft-lbs Torque | Ex I M2c T6 |
| 6 1312 0010 | Pneumatic | Impact Wrench, 3/4", 1327 ft-lbs Torque | Ex I M2c T6 |
| 6 1316 0010 | Pneumatic | Impact Wrench, 1", 995 ft-lbs Torque | Ex I M2c T6 |
| 6 1316 0020 | Pneumatic | Impact Wrench, 3/4", 995 ft-lbs Torque | Ex I M2c T6 |
| 6 1411 0020 | Pneumatic | Impact Wrench, 1", 1620 ft-lbs Torque | Ex I M2c T6 |
| 6 1417 0010 | Pneumatic | Impact Wrench, 1-1/2", 3240 ft-lbs Torque | Ex I M2c T6 |
| 6 1412 0010 | Pneumatic | Impact Wrench, 1", 1364 ft-lbs Torque | Ex I M2c T6 |
| 6 1430 0010 | Pneumatic | Impact Wrench, 1", 1900 ft-lbs Torque | Ex I M2c T6 |
| 6 1518 0010 | Hydraulic | Impact Wrench, 3/4", 1220 ft-lbs Torque | Ex I M2c T5 |
| 6 1519 0010 | Hydraulic | Impact Wrench, 1", 1220 ft-lbs Torque | Ex I M2c T5 |

**Portable Magnetic Drills: Pneumatic & Hydraulic**

| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|---|---------------------|
| AB 4300-2 | Pneumatic | AIRBOR Mag Drill, (2 1330 0010), 2-1/16" dia. | Ex II 2Gc T6 |
| AB 4300-2R | Pneumatic | AIRBOR Mag Drill Extend Rack, (2 1330 0030), 2-1/16" dia. | Ex II 2Gc T6 |
| 2 1345 0010 | Hydraulic | Mag Drill, 4" dia. | Ex II 2Gc IIB T5 |

**Core Drill: Pneumatic**

| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|---------------------|---------------------|
| 2 1336 0010 | Pneumatic | Core Drill, 3.75 HP | Ex I M2c T6 |



ATEX Classified Power Tools for Ex and Hot Work Zones – Air & Hydraulic

| Classification | Industry | Level of Protection | Atmosphere | Temperature |
|------------------|----------|----------------------------|-------------------------------|-------------------------------------|
| Ex II 2Gc T6 | Surface | High (Zone 1, 2 or 21, 22) | Contains gas, vapors or mists | Surface does not exceed 185°F/85°C |
| Ex II 2Gc IIB T6 | Surface | High (Zone 1, 2 or 21, 22) | Contains gas, vapors or mists | Surface does not exceed 185°F/85°C |
| Ex II 2Gc T5 | Surface | High (Zone 1, 2 or 21, 22) | Contains gas, vapors or mists | Surface does not exceed 212°F/100°C |
| Ex II 2Gc IIA T4 | Surface | High (Zone 1, 2 or 21, 22) | Contains gas, vapors or mists | Surface does not exceed 275°F/135°C |
| Ex II 2Gc IIB T5 | Surface | High (Zone 1, 2 or 21, 22) | Contains gas, vapors or mists | Surface does not exceed 212°F/100°C |
| Ex II 2Gc IIB T3 | Surface | High (Zone 1, 2 or 21, 22) | Contains gas, vapors or mists | Surface does not exceed 392°F/200°C |
| Ex I M2c T6 | Mining | High (Zone 1, 2 or 21, 22) | | Surface does not exceed 185°F/85°C |
| Ex I M2c T5 | Mining | High (Zone 1, 2 or 21, 22) | | Surface does not exceed 212°F/100°C |



Mixers: Pneumatic

| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|---|---------------------|
| 7 1114 0010 | Pneumatic | Mixer, 0-440 RPM, M14 connection, Twist Throttle, 51 CFM @ 90 PSI | Ex I M2c T6 |
| 7 1114 0020 | Pneumatic | Mixer, 0-440 RPM, M14 connection, Lever Throttle, 51 CFM @ 90 PSI | Ex I M2c T6 |



Chain Saws: Pneumatic & Hydraulic

| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|---|---------------------|
| 5 1026 0010 | Pneumatic | Chain Saw, Air, Aluminum Housing With Brake | Ex II 2Gc T5 |
| 5 1027 0010 | Pneumatic | Chain Saw, Air, For Plastic With Brake | Ex II 2Gc T5 |
| 5 1028 0010 | Pneumatic | Underwater Chain Saw, Air, With Brake | Ex II 2Gc T5 |
| 5 1029 0010 | Pneumatic | Chain Saw, Air, with Chain Brake | Ex I M2c T5 |
| 5 1030 0010 | Hydraulic | Underwater Chain Saw, Hydraulic, with Chain Brake | Ex II 2Gc IIB T5 |



Band Saws: Pneumatic

| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|--|---------------------|
| 5 6003 0010 | Pneumatic | AirBand Saw, Air | Ex II 2Gc T6 |
| 5 6030 0010 | Pneumatic | AirBand Saw, Air, 4" x 4" Cutting, Stainless Steel Frame | Ex I M2c T6 |
| 5 6031 0010 | Pneumatic | AirBand Saw, Air, 7" x 7" Cutting, Stainless Steel Frame | Ex I M2c T6 |
| 5 6032 0010 | Pneumatic | AirBand Saw, Air, 4" x 7" Cutting, Stainless Steel Frame | Ex I M2c T6 |



Dry Cutting Circular Saw: Pneumatic

| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|-----------------------|---------------------|
| 5 1115 0020 | Pneumatic | Circular Saw, 9" Dia. | Ex II 2Gc T5 |



Vacuum: Pneumatic

| Model No. | Power Type | Description | ATEX Classification |
|-----------|------------|-------------|---------------------|
| KAV30 | Pneumatic | Vacuum | Ex II 2Gc T6 |



ATEX Classified Power Tools for Ex and Hot Work Zones – Air & Hydraulic



Hacksaws: Pneumatic & Hydraulic

| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|--------------------------------------|---------------------|
| 5 1212 0010 | Pneumatic | Hacksaw, Roll Throttle | Ex II 2Gc T5 |
| 5 1212 0050 | Pneumatic | Hacksaw, Lever Throttle | Ex II 2Gc T5 |
| 5 1220 0010 | Hydraulic | Hacksaw, Roll Throttle | Ex II 2Gc T5 |
| 5 1213 0010 | Hydraulic | Hacksaw, Roll Throttle, ZAMAK | Ex I M2c T5 |
| 5 1213 9500 | | Magnetic Clamping Device for Hacksaw | Ex I M2c T5 |

Reciprocating Saws: Pneumatic & Hydraulic



| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|---------------------------|---------------------|
| 5 1217 0020 | Pneumatic | Reciprocating Saw, 1.3 HP | Ex II 2Gc T5 |
| 5 1219 0010 | Hydraulic | Reciprocating Saw | Ex II 2Gc T5 |
| PL905 | Pneumatic | Reciprocating Saw, 1 HP | Ex II 2Gc T5 |
| CL50 | Pneumatic | Reciprocating Saw, 1 HP | Ex II 2Gc T5 |
| CL75 | Pneumatic | Reciprocating Saw, 1 HP | Ex II 2Gc T5 |
| JP901 | Pneumatic | Reciprocating Saw, 1 HP | Ex II 2Gc T5 |



Pipe Cutting Machines: Pneumatic & Hydraulic

| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|---------------------------------|---------------------|
| 5 8002 7000 | Pneumatic | Pipe Cutting Drive Unit, 2.4 HP | Ex II 2Gc T6 |
| 5 8010 0050 | Pneumatic | Pipe Cutting Drive Unit, 4 HP | Ex II 2Gc T6 |
| 5 8006 7000 | Hydraulic | Pipe Cutting Drive Unit, 4 HP | Ex II 2Gc T6 |

Needle Scalers: Pneumatic



See page 88 for more information on Needle Scalers

| Model No. | Power Type | Description | ATEX Classification |
|-----------|------------|--|---------------------|
| 139.2103 | Pneumatic | Needle Scaler, 2400 BPM, 4 CFM @ 90 PSI, dust shroud | Ex II 2Gc IIA T4 |
| 139.2303 | Pneumatic | Needle Scaler, 2400 BPM, 4 CFM @ 90 PSI, dust shroud | Ex II 2Gc IIA T4 |
| 139.2433 | Pneumatic | Needle Scaler, 3000 BPM, 5 CFM @ 90 PSI, dust shroud | Ex II 2Gc IIA T4 |

Axial Fans: Pneumatic and Electric



See pages 90-91 for more information on Axial Fans



| Model No. | Power Type | Description | ATEX Classification |
|-------------|------------|---|---------------------|
| 8 1611 0300 | Pneumatic | Axial Fan, 12" Dia. | Ex II 2Gc IIB T6 |
| 8 1531 0300 | Pneumatic | Axial Fan, 12" Dia. | Ex II 2Gc IIB T6 |
| 8 1533 0300 | Pneumatic | Axial Fan, 20" Dia. | Ex II 2Gc IIB T6 |
| 8 1534 0300 | Pneumatic | Axial Fan, 24" Dia. | Ex II 2Gc IIB T6 |
| 8 1020 0840 | Electric | Axial Fan, 12" Dia., 110 Volt, 50 Hz, Single Phase | Ex II 2Gc IIB T3 |
| 8 1020 0140 | Electric | Axial Fan, 12" Dia., 230/440 V 50 Hz, 3-Phase | Ex II 2Gc IIB T3 |
| 8 1020 0870 | Electric | Axial Fan, 12" Dia., 230 Volt, 50 Hz, Single Phase | Ex II 2Gc IIB T3 |
| 8 1020 0850 | Electric | Axial Fan, 12" Dia., 110 Volt, 50 Hz, Single Phase | Ex II 2Gc IIB T3 |
| 8 1020 0860 | Electric | Axial Fan, 12" Dia., 110 Volt, 50/60 Hz, Single Phase | Ex II 2Gc IIB T3 |



Specially-designed for use in hazardous environments – equipped with Vibro-Lo™ low vibration technology

ATEX Certified

For use in hazardous environments and ATEX and Ex Zones

These specially engineered Trelawny VL203Ex, VL223Ex and VL303Ex needle scalers are:

- Fully certified to the classification: EX II 2Gc IIA T4 under the European Directive 94/9/EC
- Ideal for use in oil, gas & petrochemical industries such as refineries, offshore platforms, LPG terminals and all chemical processing environments.



See page 59 for Non-Sparking Copper Beryllium (CuBe) replacement needles



| Grip | Description | Model Number | Needle Qty./Dia. | Weight (lbs.) | Blows per min. | CFM @ 90 PSI | Noise Level db(A) | Vibration Levels m/s ² |
|--------|--|--------------|------------------|---------------|----------------|--------------|-------------------|-----------------------------------|
| Inline | VL223Ex Needle Scaler with dust shroud | 139.2103 | 19 / 3mm | 5.25 | 2400 | 4 | 90.7 | 2.56 |
| Pistol | VL203Ex Needle Scaler with dust shroud | 139.2303 | 19 / 3mm | 6 | 2400 | 4 | 90.7 | 2.75 |
| | VL303Ex Needle Scaler with dust shroud | 139.2433 | 28 / 3mm | 7.75 | 3000 | 5 | 109.5 | 2.3 |



VL233Ex

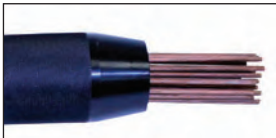


VL203Ex



VL303Ex

Standard Features



Copper Beryllium needles – high strength with non-sparking and non-magnetic properties



Dust shroud to protect user from hazardous dust and debris



Fall arrestor eliminates the risk of dropping the tool causing injury or equipment damage



Kit includes ATEX-Certified needle scaler, extra set of Copper Beryllium needles, dust shroud, corner cuff, edge cuff, flat cuff and fall arrestor.

Optional Accessory

Anti-static lanyard available for use with the fall arrestor (P/N 415.3003)



Vibro-Lo™ technology operates with 7x less vibration than standard models.



ATEX Models for use in Ex Zones and Hazardous Environments.

IMPACT WRENCHES

Pneumatic- and hydraulic-powered impact wrenches, ideal for tightening and removing bolts and screws up to 2-1/8"

CS Unitec's pneumatic and hydraulic impact wrenches are ideal for industrial, mining, assembly and subsea applications.

- High torque
- Best power-to-weight ratio



ATEX Certified

Ex II 2 GcT6
(Model Nos 6 1034 0010, 6 1316 0040, 6 1316 0050, 6 1410 0010 and 6 1417 0040)

Ex II 2 GcT5
(Model No 6 1515 0010)



6 1034 0010
1/2" Pneumatic Impact Wrench
450 ft.-lbs. torque
Multi-step throttle valve



Caution: User must follow all appropriate safety regulations when choosing a tool for their particular working environment.

Pneumatic Impact Wrenches

| Order No. | Description | Max. Bolt Size | Tightening Torque (Hard) | Weight | ATEX Class | Subsea Models |
|--------------|---------------------|----------------|--------------------------|-----------|--------------|----------------------|
| 6 1034 0010 | 1/2" Square Drive | 3/4" (M 20) | 450 ft.-lbs. | 5.5 lbs. | Ex II 2 GcT6 | |
| 6 1316 0050 | 3/4" Square Drive | 1-1/8" (M 30) | 995 ft.-lbs. | 12.3 lbs. | Ex II 2 GcT6 | |
| 6 1316 0070* | 3/4" Square Drive | 1-1/8" (M 30) | 995 ft.-lbs. | 12.3 lbs. | | * For Underwater Use |
| 6 1316 0040 | 1" Square Drive | 1-1/8" (M 30) | 995 ft.-lbs. | 12.6 lbs. | Ex II 2 GcT6 | |
| 6 1316 0060* | 1" Square Drive | 1-1/8" (M 30) | 995 ft.-lbs. | 12.6 lbs. | | * For Underwater Use |
| 6 1410 0010 | 1" Square Drive | 1-3/8" (M 36) | 1620 ft.-lbs. | 24.3 lbs. | Ex II 2 GcT6 | |
| 6 1417 0040 | 1-1/2" Square Drive | 2-1/8" (M 56) | 3240 ft.-lbs. | 26.9 lbs. | Ex II 2 GcT6 | |

Hydraulic Impact Wrenches

| Order No. | Description | Max. Bolt Size | Tightening Torque (Hard) | Weight | ATEX Class | Subsea Models |
|--------------|-------------------|----------------|--------------------------|-----------|--------------|---------------------|
| 6 1515 0010* | 3/4" Square Drive | 1" (M 27) | 1220 ft.-lbs. | 18.1 lbs. | Ex II 2 GcT5 | *For Underwater Use |
| 6 1520 0010* | 1" Square Drive | 1-3/8" (M 36) | 1840 ft.-lbs. | 25.0 lbs. | | *For Underwater Use |



6 1316 0050
3/4" Pneumatic Impact Wrench
995 ft.-lbs. torque

6 1316 0040
1" Pneumatic Impact Wrench
995 ft.-lbs. torque



6 1410 0010
1" Pneumatic Impact Wrench
1620 ft.-lbs. torque

6 1417 0040
1-1/2" Pneumatic Impact Wrench
3240 ft.-lbs. torque



6 1515 0010
3/4" Hydraulic Impact Wrench
1220 ft.-lbs. torque



6 1520 0010*
1" Hydraulic Impact Wrench
1840 ft.-lbs. torque

See page 83 for information on ATEX

AXIAL FANS AND AIR MOVERS

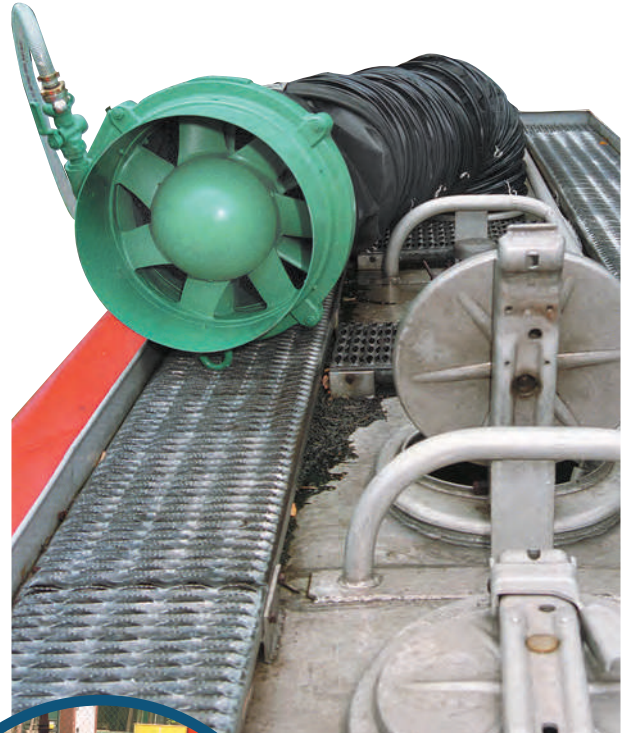
Highly efficient, explosion-proof pneumatic- and electric-powered units for ventilating, exhausting and cooling.

CS Unitec's pneumatic and electric axial fans and air movers are ideal for ventilating, exhausting and cooling in applications such as ship holds, underground mining, shipyards, refineries, petrochemical plants, oil platforms, power plants, tunneling, construction and more.

Explosion Proof

For use in Ex Zones and Hazardous Environments

Electric fan motors are intrinsically safe, Ex.



Caution: User must follow all appropriate safety regulations when choosing a tool for their particular working environment.

Explosion-Proof Axial Fans, Pneumatic and Electric, 12" to 24" diameter



8 1020 Series Electric Axial Fans with protective grille on inlet side
2118 cfm output



8 1524 0300 Pneumatic Axial Fan, 24" dia.
12,353 cfm output @ 90 psi



8 1620 0010 Pneumatic Air Mover, 7" dia.
2366 cfm output @ 90 psi



W 70 Pneumatic Air Mover, 6" dia.
3000 cfm output @ 90 psi

Explosion-Proof Pneumatic Axial Fans and Air Movers

| Order No. | Description | Diameter | Power | Volume Output | Air Pressure | Weight | dBA | Air Consumption @ 90 psi |
|-------------|-------------|----------|-----------|---------------|--------------|------------|-----|--------------------------|
| 8 1521 0300 | Axial Fan | 12" | Pneumatic | 3240 cfm | 90 psi | 48.5 lbs. | 101 | 46 |
| 8 1522 0300 | Axial Fan | 16" | Pneumatic | 5720 cfm | 90 psi | 70.4 lbs. | 92 | 75 |
| 8 1523 0300 | Axial Fan | 20" | Pneumatic | 9170 cfm | 90 psi | 101.2 lbs. | 90 | 97 |
| 8 1524 0300 | Axial Fan | 24" | Pneumatic | 12,353 cfm | 90 psi | 127.6 lbs. | 86 | 136 |
| 8 1603 0300 | Axial Fan | 12" | Pneumatic | 2119 cfm | 90 psi | 28.6 lbs. | 85 | 20 |
| W 40 | Air Mover | 4" | Pneumatic | 1140 cfm | 90 psi | 11 lbs. | 91 | 85 |
| W 70 | Air Mover | 6" | Pneumatic | 3000 cfm | 90 psi | 22 lbs. | 91 | 166 |
| 8 1620 0010 | Air Mover | 7" | Pneumatic | 2366 cfm | 90 psi | 8 lbs. | 104 | 158 |

Explosion-Proof Electric Axial Fans

| Order No. | Description | Diameter | Power | Volume Output | Weight | dBA | ATEX Class |
|--------------|-------------|----------|-----------------------------|---------------|---------|-----|--------------|
| 8 1020 0140 | Axial Fan | 12" | 230/400 V 50 Hz 3-phase | 2118 cfm | 44 lbs. | 86 | Ex II 2 GcT3 |
| 8 1020 0840 | Axial Fan | 12" | 110 V 50 Hz single phase | 2118 cfm | 45 lbs. | 85 | Ex II 2 GcT3 |
| 8 1020 0850* | Axial Fan | 12" | 110 V 50 Hz single phase | 2118 cfm | 45 lbs. | 85 | Ex II 2 GcT3 |
| 8 1020 0860* | Axial Fan | 12" | 110 V 50/60 Hz single phase | 2118 cfm | 45 lbs. | 85 | Ex II 2 GcT3 |
| 8 1020 0870 | Axial Fan | 12" | 230 V 50 Hz single phase | 2118 cfm | 45 lbs. | 85 | Ex II 2 GcT3 |

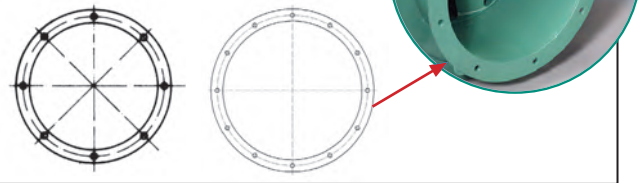
* with switch and cable

Optional Accessories

| | |
|-------------|--|
| 9 3001 0010 | Mounting Flange for 12" Axial Fans, DIN 21603 (1 or 2 per fan) |
| 9 3001 0020 | Mounting Flange for 16" Axial Fans, DIN 21603 (1 or 2 per fan) |
| 9 3001 0030 | Mounting Flange for 20" Axial Fans, DIN 21603 (1 or 2 per fan) |
| 9 3001 0040 | Mounting Flange for 24" Axial Fans, DIN 21603 (1 or 2 per fan) |
| 8 1501 7010 | Protective Grille for 12" Axial Fan (1 or 2 per fan) |
| 8 1502 9010 | Protective Grille for 16" Axial Fan (1 or 2 per fan) |
| 8 1503 9010 | Protective Grille for 20" Axial Fan (1 or 2 per fan) |
| 8 1504 7010 | Protective Grille for 24" Axial Fan (1 or 2 per fan) |
| 8 1601 2070 | Protective Grille for 8 1020 Fans (1 or 2 per fan) |
| 9 3707 0020 | Grounding Cable |
| 9 3709 0260 | Connecting Piece, Antistatic, for 12" Axial Fan (dwg 1) |
| 9 3709 0270 | Connecting Piece, Antistatic, for 16" Axial Fan (dwg 1) |
| 9 3709 0280 | Connecting Piece, Antistatic, for 20" Axial Fan (dwg 1) |
| 9 3709 0290 | Connecting Piece, Antistatic, for 24" Axial Fan (dwg 1) |
| 9 3709 0300 | Quick-seal Coupling, Antistatic, for 12" Axial Fan (dwg 2) |
| 9 3709 0310 | Quick-seal Coupling, Antistatic, for 16" Axial Fan (dwg 2) |
| 9 3709 0320 | Quick-seal Coupling, Antistatic, for 20" Axial Fan (dwg 2) |
| 9 3709 0330 | Quick-seal Coupling, Antistatic, for 24" Axial Fan (dwg 2) |
| 9 3709 0220 | Plastic Ducting, 16' long, Antistatic, for 12" Axial Fan (dwg 3) |
| 9 3709 0230 | Plastic Ducting, 16' long, Antistatic, for 16" Axial Fan (dwg 3) |
| 9 3709 0240 | Plastic Ducting, 16' long, Antistatic, for 20" Axial Fan (dwg 3) |
| 9 3709 0250 | Plastic Ducting, 16' long, Antistatic, for 24" Axial Fan (dwg 3) |
| 9 3703 0050 | Adapter, dia. 12"/8" (dwg 4) |
| 9 3709 0130 | Plastic Hose, dia. 8", 15' long (dwg 5) |
| 9 3702 0030 | Suction Nozzle, 12"/8" (dwg 6) |

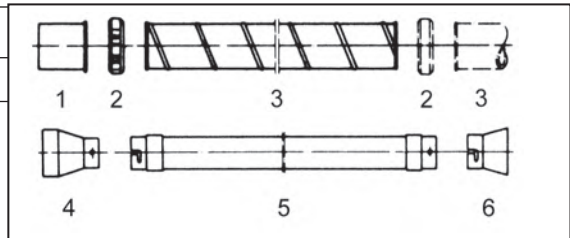
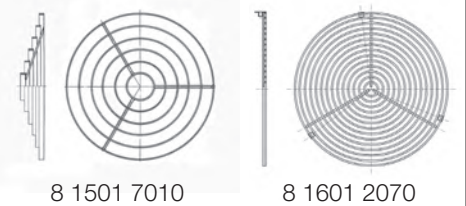
Mounting Flanges

For fitting fans to flanged pipes for suction or discharge



Protective Grilles

For use on non-ducted fans.



Caution: User must follow all appropriate safety regulations when choosing a tool for their particular working environment.

SPECIAL TOOLS FOR UNDERWATER USE

Hydraulic- and pneumatic-powered tools for use in subsea applications

Chain Saws – Hydraulic and Pneumatic

- 5 1008 0030 Underwater Air Chain Saw**, 21", 4HP, 90 PSI / 92 CFM
- 5 1008 0040 Underwater Air Chain Saw**, 25", 4HP, 90 PSI / 92 CFM
- 5 1028 0020 Underwater Air Chain Saw w/Brake**, 21", 4HP, 90 PSI / 92 CFM
- 5 1030 0020 Underwater Hydraulic Chain Saw w/Brake**, 21", 10HP, 12 GPM, 2000 PSI

Hacksaws – Hydraulic

- 5 1220 0050 Underwater Hydraulic Hacksaw with Lever Throttle**, 3.8HP, 100-300 Strokes per minute, 13.5 lbs.

Reciprocating Saws - Hydraulic and Pneumatic

- 5 1219 0010 Underwater Hydraulic Reciprocating Saw**, 2 HP, 1700 Strokes per minute, 6 GPM, 2000 PSI, 13.2 lbs.
- 5 1217 0020 Underwater Pneumatic Reciprocating Saw**, 1.3 HP, 0-1800 Strokes per minute, 90 PSI / 46 CFM, 9 lbs.

Grinders - Hydraulic

- 1 1580 0060 Underwater Hydraulic Horizontal Grinder**, 1.3 HP, 7000 RPM, Twist throttle, straight grinding wheels
- 1 1585 0010 Underwater Hydraulic Angle Grinder**, 1.3 HP, 5500 RPM, Lever throttle, grinding wheels up to 7"
- 1 5080 0020 Underwater Hydraulic Peanut Die Grinder**, 1.0 HP, 11,500 RPM, Lever throttle, 1/4" collet
- 1 2060 0010 Underwater Hydraulic Vertical Grinder**, 4.75 HP, 3600 RPM, Lever throttle, grinding wheels up to 9"

Rotary Hammer Drills - Hydraulic and Pneumatic

- 2 2404 0030 Underwater Air Rotary Hammer Drill, SDS Plus**, 1" cap. in concrete, 0-3000 BPM, .5 HP, 90 PSI / 21 CFM
- 2 2417 0010 Underwater Air Rotary Hammer Drill, SDS Max**, 2" cap. in concrete, 0-2500 BPM, 1.2 HP, 90 PSI / 21 CFM
- 2 2406 0010 Underwater Hydraulic Rotary Hammer Drill, SDS Plus**, 1" cap. in concrete, 0-3400 BPM, .8 HP
- 2 2418 0010 Underwater Hydraulic Rotary Hammer Drill, SDS Max**, 2" cap. in concrete, 2500 BPM, 1.75 HP

* Pressure Reducing Valves available for hydraulic rotary hammer drills. Contact CS Unitec for more information.

Core Drills - Hydraulic and Pneumatic

- 2 1317 0030 Underwater Hydraulic Core Drill**, 3" max. dia., 3.6 HP, 380/900/1800 RPM, 18.7 lbs.
- 2 1335 0010 Underwater Pneumatic Core Drill**, 3" max. dia., 3.8 HP, 300/700/1350 RPM, 21 lbs.

Portable Magnetic Drills – Hydraulic

- HB 4400 Underwater Hydraulic Magnetic Drill**, 2-1/16" max. dia. with cutters, 1/2" max. dia. with twist drills, 0-630 RPM, 1.5 HP, 48.5 lbs.
- 2 1345 0010 Underwater Hydraulic Magnetic Drill**, 4" max. dia. with cutters, 1-1/4" max. dia. with twist drills, 40-250 RPM, 3.4 HP, 50 lbs.

Impact Wrenches – Hydraulic and Pneumatic

We offer a full line of Hydraulic and Pneumatic Underwater Impact Wrenches for bolts and screws up to 2-1/8" dia.

Caution: User must follow all appropriate safety regulations when choosing a tool for their particular working environment.



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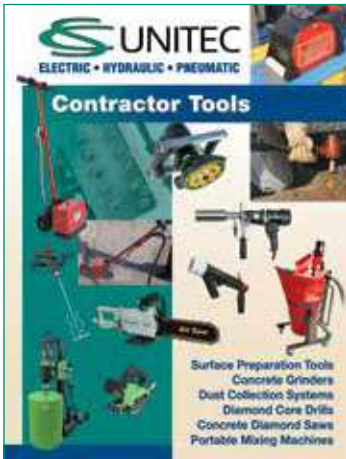
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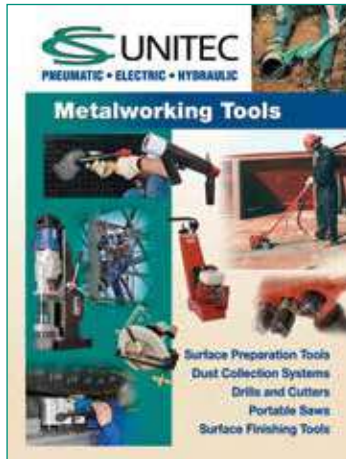


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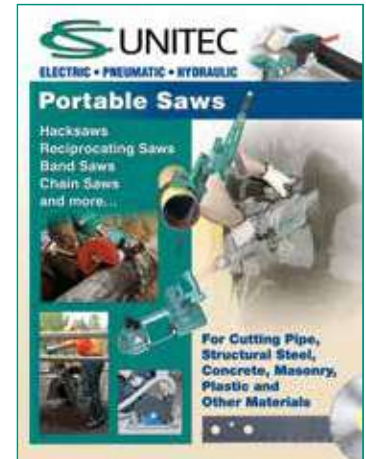
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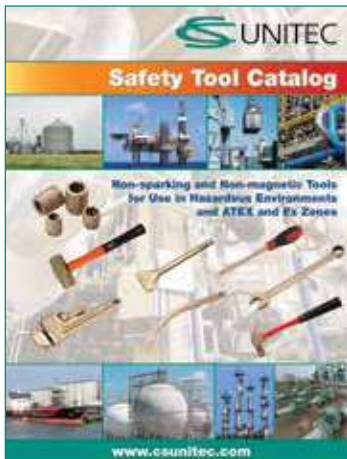
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