

**IDEMCO**

**UNITEC**  
High-Performance Power Tools & Accessories

**NON-SPARKING  
NON-MAGNETIC  
CORROSION RESISTANT  
ATEX TOOLS**

# Safety Tools

## for Hazardous and Explosive Environments

### STRIKING



### TIGHTENING



### CUTTING



### UTILITY



### SPECIALTY POWER TOOLS

Including NEW Hydrogen Generation Tools



**Electric**



**Pneumatic**



**Hydraulic**



**DRILL • SAW • SAFETY TOOLS • FINISH • PREP • MIX**

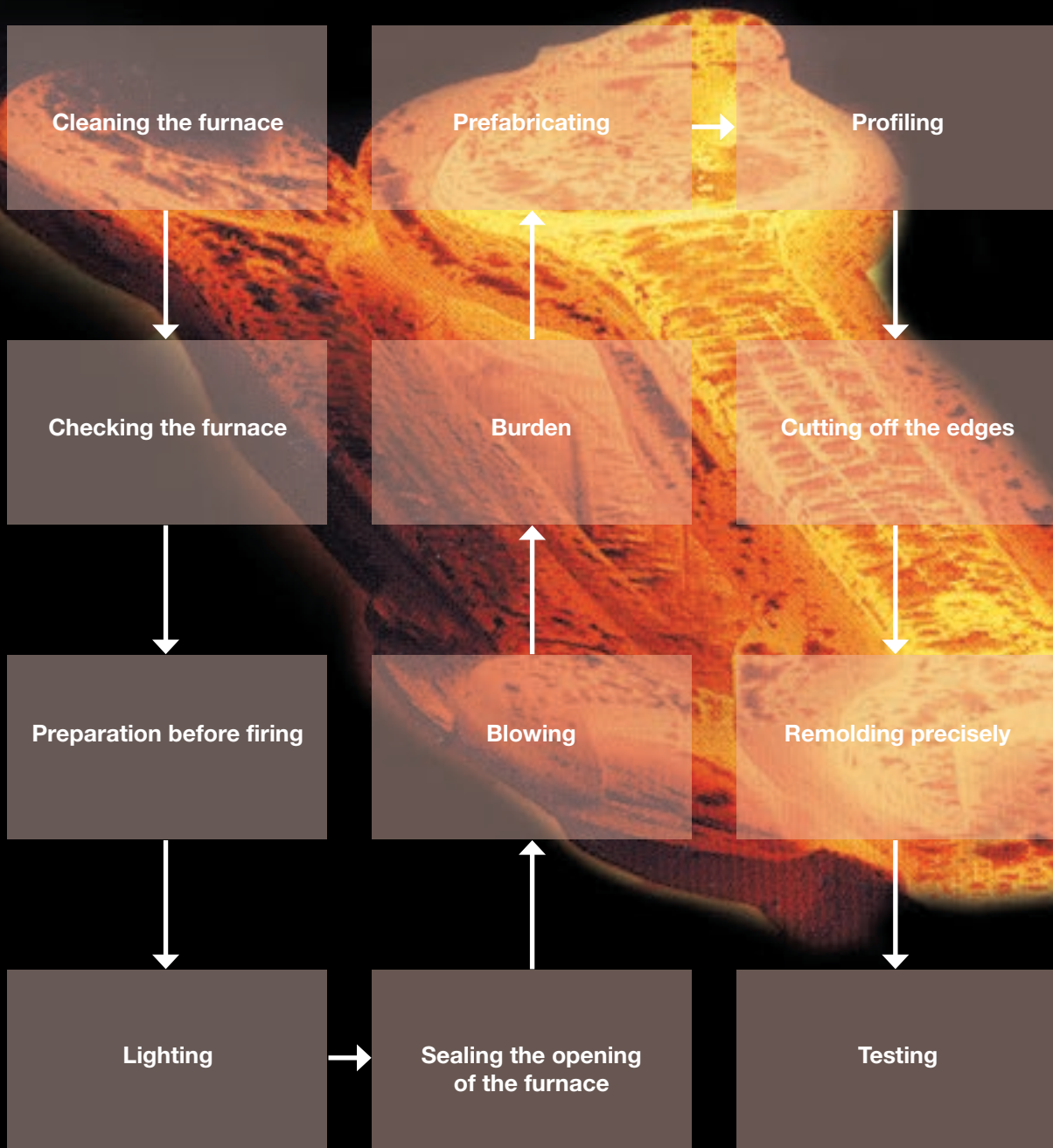
**CSunitec.com**

# UNITEC Safety Tools

Make your workplace safer...  
with the right tools

**Non-Sparking Safety Tools**  
**Aluminum Bronze (AlBr) or**  
**Copper Beryllium (CuBe<sub>2</sub>)**

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 (CuBe<sub>2</sub>)**

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.

CS Unitec's Aluminum Bronze (AlBr) and Copper Beryllium (CuBe<sub>2</sub>) tools are TÜV certified.

The materials used to manufacture the **Non-Sparking Safety Tools** are tested and certified by the TÜV as non-sparking. They can be used in explosive environment as defined by the ATEX directive 1999/92/EC to avoid the risk of explosion. See page 82 for more information.

STANAG-compliant tools available upon request. Contact CS Unitec for more information.



Lloyd's  
Register

ISO 9001:2015 Certified  
Certification Number 00009225

We also offer ATEX Classified air and hydraulic power tools and other equipment for use in Ex zones. See pages 82-95 for more information.

**NEW** ATEX Classified air power tools manufactured for Hydrogen Processing applications are available. See pages 91-95 for more information.

**Visit our web site: [CSunitec.com](http://CSunitec.com) for more information**

**CS Unitec, Inc.**  
22 Harbor Avenue, Norwalk, CT 06850, USA  
4330 Center Street, Deer Park, TX 77536, USA

**1-800-700-5919 (USA and Canada)**  
**Tel: (203) 853-9522 • Fax: (203) 853-9921**  
**info@csunitec.com**

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

**Toll-Free in U.S. 1-800-700-5919 • +1-203-853-9522 • Fax: +1-203-853-9921 • CSunitec.com**

## 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 where applicable.

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 (CuBe<sub>2</sub>) and a Special Aluminum-Bronze Alloy (AlBr).

CS Unitec's Copper-Beryllium Tools (CuBe<sub>2</sub>) and Aluminum-Bronze Tools (AlBr) are TÜV certified. TÜV 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

- n 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.
- n 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.
- n 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

- n Zone 20 - An atmosphere where a cloud of combustible dust in the air is present frequently, continuously or for long periods.
- n Zone 21 - An atmosphere where a cloud of combustible dust in the air is likely to occur in normal operation occasionally.
- n 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 ISO9001:2015 certified, and our Tools are recommended and certified by several international organizations.

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 (CuBe<sub>2</sub>) 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.

Most of the 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:

- n Socket Sets
- n Wall-mounted CS Unitec Tool Kit
- n 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: [CSunitec.com](http://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 CSunitec.com for safety information.**

Exact appearance and/or specifications subject to change without notice.

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

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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 (CuBe<sub>2</sub>) and Aluminum-Bronze Tools (AlBr) fulfill the demand in the ATEX Directive 1999/92/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's Aluminum Bronze (AlBr) and Copper Beryllium (CuBe<sub>2</sub>) tools are TÜV certified. They have met the requirements of TÜV 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 (CuBe <sub>2</sub> ) Alloy                                                   |
|----------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Zone Compatibility</b>  | Fulfill demand in ATEX Directive 1999/92/EC for work in Zones 0, 1, 2, 20, 21 and 22, M1 & M2            | Fulfill demand in ATEX Directive 1999/92/EC for work in Zones 0, 1, 2, 20, 21 and 22, M1 & M2 |
| <b>Hardness</b>            | 27 HRC                                                                                                   | 38 HRC                                                                                        |
| <b>Durability</b>          | Not as durable as CuBe <sub>2</sub> .                                                                    | Very durable due to high hardness and tensile strength.                                       |
| <b>Magnetic Properties</b> | Low magnetism due to minimal ferrous components. Appropriate for non-critical non-magnetic applications. | Non-ferrous components; safer for applications demanding non-magnetic properties.             |
| <b>Composition</b>         | Al: 10.3%<br>Fe: 4.5%<br>Ni: 4.5%<br>Other: 0.5%<br>Cu: Balance                                          | Be: 1.9%<br>Co + Ni: 0.4%<br>Other: 0.5%<br>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:

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

#### Transportation Industries and their Maintenance, Cleaning & Service Companies:

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

#### Government Agencies:

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

#### Other Industries:

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

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

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

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

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

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

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**STRIKING TOOLS Pgs. 9-18**

| Description                                 | Part#      | Page |
|---------------------------------------------|------------|------|
| <b>Hammers</b>                              |            |      |
| Hammer, Ball Peen                           | Ex101U     | 10   |
| Hammer, Cross Peen Engineers'               | Ex102U     | 10   |
| Hammer, Double-face Machinists'             | Ex103U     | 10   |
| Hammer, Sledge                              | Ex104U     | 10   |
| Brass Shackle for Drop Protection           | Ex100      | 11   |
| Hammer, Cutoff                              | Ex105U     | 11   |
| Hammer, Scaling                             | Ex106U     | 11   |
| Wedge, Stone                                | Ex107      | 11   |
| Hammer, Club                                | Ex108U     | 12   |
| Hammer, Bricklayers'                        | Ex112U     | 12   |
| Crate Opener                                | Ex113S     | 12   |
| Hammer, Plastic                             | Ex121      | 12   |
| Hammer, Claw                                | Ex122U     | 13   |
| Hammer, Cross Peen, Engineers'/Blacksmiths' | Ex1041     | 13   |
| <b>Punches</b>                              |            |      |
| Punch, Pin                                  | Ex301P     | 13   |
| Punch, Center                               | Ex303      | 14   |
| Drift, Cylindrical                          | Ex301      | 14   |
| Drift Pin, Straight Type                    | Ex301C     | 14   |
| <b>Chisels</b>                              |            |      |
| Chisel, Hand                                | Ex304      | 15   |
| Chisel, 6-Point                             | Ex304A     | 15   |
| Chisel, 8-Point                             | Ex304S     | 15   |
| Chisel, Cape                                | Ex305      | 15   |
| Chisel, Bull Point                          | Ex306      | 16   |
| Chisel, Diamond Point                       | Ex307      | 16   |
| Chisel, Pneumatic                           | Ex309AH    | 16   |
| Chisel, Pneumatic                           | Ex310AH    | 16   |
| Chisel, Scaling                             | Ex312      | 16   |
| Chisel, Chipping Hammer                     | Ex314      | 17   |
| Chisel, Paving Breaker                      | Ex318F     | 17   |
| Chisel, Bull Point                          | Ex318R     | 17   |
| Chisel, Paving Breaker                      | Ex320F     | 17   |
| Chisel, Bull Point                          | Ex320R     | 17   |
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| Wedge, Banana with Lanyard Hole             | Ex1101BH   | 18   |

**TIGHTENING TOOLS Pgs. 19-55**

| Description                                      | Part#    | Page | Description                                    | Part#    | Page |
|--------------------------------------------------|----------|------|------------------------------------------------|----------|------|
| <b>Wrenches</b>                                  |          |      | <b>Sockets – 6-Point</b>                       |          |      |
| Wrench, Striking, Open End                       | Ex200    | 20   | Socket, 1/4" Drive                             | Ex1503AA | 38   |
| Wrench, Striking, Box, 12-Point (DIN 7444)       | Ex201B   | 21   | Socket, 3/8" Drive                             | Ex1503A  | 38   |
| Wrench, Striking, Box, Offset, 12-Point          | Ex201F   | 22   | Socket, 1/2" Drive                             | Ex1503B  | 39   |
| Wrench, Box End, Double, Straight Type, 12-Point | Ex202    | 22   | Socket, 3/4" Drive                             | Ex1503C  | 40   |
| Wrench, Box End, Double, Offset Type, 12-Point   | Ex202F   | 23   | Socket, 1" Drive                               | Ex1503D  | 40   |
| Wrench, Open End, Double                         | Ex203    | 24   | Socket, Standard Deep, 1/4" Drive              | Ex1610   | 41   |
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| Wrench, Box End, 12-Point (DIN 3111)             | Ex204D   | 25   | Socket, Standard Deep, 1/2" Drive              | Ex1630   | 42   |
| Wrench, Construction with Pin (Ring End)         | Ex204S   | 25   | Socket, Standard Deep, 3/4" Drive              | Ex1640   | 43   |
| Wrench, Open End                                 | Ex205    | 26   | Socket, Standard Deep, 1" Drive                | Ex1650   | 44   |
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| Wrench, Gas Tube                                 | Ex212    | 27   | Socket, Impact, 1/2" Drive                     | Ex1730   | 45   |
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| Wrench, Box, for Extension                       | Ex215    | 30   | Socket, Impact, 1-1/2" Drive                   | Ex1760   | 46   |
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| Wrench, Crowfoot, 1/2" Drive                     | Ex1514B  | 31   | Socket, Deep Impact, 1" Drive                  | Ex1850   | 48   |
| <b>Pipe Wrenches</b>                             |          |      | Socket, Deep Impact, 1-1/2" Drive              | Ex1860   | 49   |
| Wrench, Pipe (American Type)                     | Ex502    | 31   | <b>Allen Keys</b>                              |          |      |
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| Wrench, Spanner, Fixed (DIN 1810)                | Ex208    | 32   | Wrench, Allen/Hex Key, Ball Point, Long Type   | Ex209L   | 50   |
| Wrench, Spanner, Adjustable                      | Ex208S   | 32   | <b>Wheel Wrenches</b>                          |          |      |
| Wrench, Chain Pipe                               | Ex600    | 32   | Wrench, Valve                                  | Ex207    | 51   |
| <b>Ratchets</b>                                  |          |      | Valve Wheel Hook                               | Ex207F   | 51   |
| Wrench, Ratchet                                  | Ex504S   | 33   | Wrench, Valve Wheel (DIN 87311)                | Ex207S   | 51   |
| Wrench, Ratchet                                  | Ex1501S  | 33   | <b>Pliers</b>                                  |          |      |
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**CAUTION:** The user is responsible for following all safety regulations (OSHA, etc.) when choosing the appropriate tool for the hazards present.

**TIGHTENING TOOLS Pgs. 19-55**

| Description           | Part#  | Page |
|-----------------------|--------|------|
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**UTILITY TOOLS Pgs. 64-69**

| Description                        | Part#  | Page |
|------------------------------------|--------|------|
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| Hatchet                            | Ex1202 | 66   |
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|                  |       |    |
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| Clamp, C-Type    | Ex901 | 72 |

**Special Tools**

|                      |        |    |
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| Caulking Tool        | Ex308A | 74 |
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**CAUTION:** The user is responsible for following all safety regulations (OSHA, etc.) when choosing the appropriate tool for the hazards present.

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# SPECIAL POWER TOOLS FOR POTENTIALLY EXPLOSIVE ATMOSPHERES

CS Unitec offers a variety of ATEX-certified power tools for use in potentially explosive atmospheres, as well as a line of tools engineered specifically for use in hydrogen processing applications.

## ATEX Certified

**For use in hazardous environments and ATEX and Ex Zones. See page 82 for more information.**

### Hacksaws

**Air • Hydraulic**

- Cut up to 30" dia. pipe
- Fully-sealed hydraulic model – safer for use in nuclear power plants and sensitive jobsites



### Reciprocating Saws

**Air • Hydraulic**

- For cutting steel and pipe up to 6" dia.



### Magnetic Drills

**Air • Hydraulic**

- Drill holes up to 4" dia.
- Tap holes up to 1" dia.



### Band Saws

**Hydraulic • Air**

- Cut up to 9"



### Axial Fans

**Air**

- Explosion-proof
- 12" to 24" models



### Needle/Chisel Scalars

**Air**

- Low vibration
- Kits available



### Rotary Hammer Drills

**Air • Hydraulic**

- SDS Plus and SDS Max models



### Pipe Cutting Machines

**Air • Hydraulic**

- Cut pipe up to 96" dia.
- Cut underground with minimal excavation



## Special Tools for Hydrogen Generation Applications

Pneumatic power tools used in and around highly flammable applications such as hydrogen generation and storage facilities.

## ATEX Certified

**See page 91-95 for more information.**



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

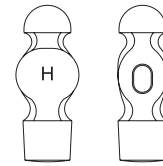
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# Striking Tools

- Hammers – pages 10-13
  - Hammers now provided with heavy-duty pultrusion-manufactured fiberglass handle with polyamide cover.
- Punches – pages 13-14
- Chisels – pages 15-18
- Wedges – page 18

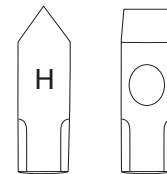
Drop forging ensures long tool life.

## Ex101U Hammer, Ball Peen



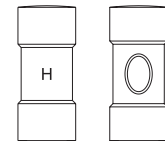
| No.           | Ex101U-0025 | Ex101U-0075  | Ex101U-0100  | Ex101U-0150 | Ex101U-0200 | Ex101U-0225 | Ex101U-0275 |
|---------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|
| H lbs.        | 0.25        | 0.75         | 1.00         | 1.50        | 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'



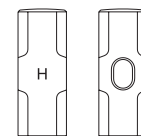
| No.           | Ex102U-0150 | Ex102U-0250 | Ex102U-0350 |
|---------------|-------------|-------------|-------------|
| H lbs.        | 1.50        | 2.50        | 3.50        |
| H kg          | 0.68        | 1.14        | 1.59        |
| Handle length | 14"/355mm   | 15"/380mm   | 15"/380mm   |

## Ex103U Hammer, Double-face Machinists'



| 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



| No.           | Ex104U-0200 | Ex104U-0300 | Ex104U-0400 | Ex104U-0500 | Ex104U-0750 | Ex104U-1000 | Ex104U-1200 | Ex104U-1500 | Ex104U-1800 | Ex104U-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.

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

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When ordering, specify:

A = Aluminum Bronze

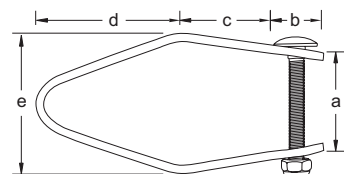
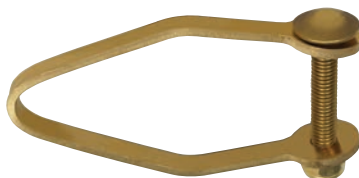
B = Copper Beryllium

Example: Ex105U-0300A

or

Ex105U-0300B

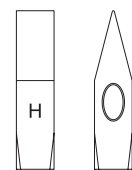
Shackle, Brass Ex100  
Hammer, Cutoff Ex105U  
Hammer, Scaling Ex106U  
Wedge, Stone Ex107



## Ex100 Brass Shackles for Drop Protection

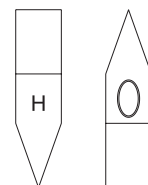
Brass alloy

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



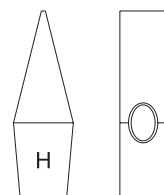
## Ex105U Hammer, Cutoff

| 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

| No.           | Ex106U-0100 | Ex106U-0150 | Ex106U-0300 |
|---------------|-------------|-------------|-------------|
| H lbs.        | 1.00        | 1.50        | 3.00        |
| H kg          | 0.46        | 0.68        | 1.36        |
| Handle length | 10"/255mm   | 10"/255mm   | 15"/380mm   |



## Ex107 Wedge, Stone

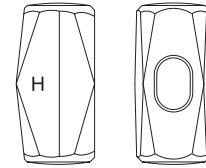
| No.           | Ex107-1000   |
|---------------|--------------|
| H lbs.        | 2.20         |
| H kg          | 1.0          |
| Handle length | 13.75"/350mm |

Hammer handle appearance may vary from photos shown.

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

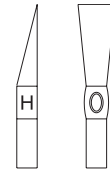
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## Ex108U Hammer, Club



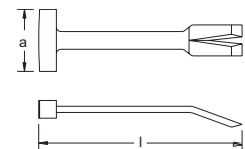
| No.           | Ex108U-0200 | Ex108U-0400 | Ex108U-0700 |
|---------------|-------------|-------------|-------------|
| H lbs.        | 2.00        | 4.00        | 7.00        |
| H kg          | 0.91        | 1.82        | 3.15        |
| Handle length | 8"/203mm    | 8"/203mm    | 33"/840mm   |

## Ex112U Hammer, Bricklayers'



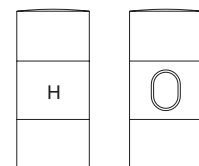
| No.           | Ex112U-0150  |
|---------------|--------------|
| H lbs.        | 1.50         |
| H kg          | 0.68         |
| Handle length | 14.25"/360mm |

## 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



| No.           | Ex121-0099 | 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.*

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

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When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex122U-0075A

or

Ex122U-0075B

Hammer, Claw

Hammer, Cross Peen Engineers' / Blacksmiths'

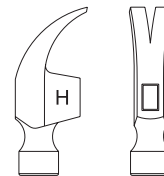
Punch, Pin

Ex122U

Ex1041

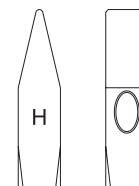
Ex301P

## Ex122U Hammer, Claw



| 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'



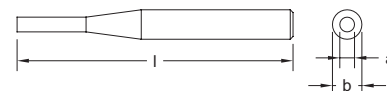
| No.           | Ex1041-0100 | Ex1041-0200 | Ex1041-0300 | Ex1041-0500 | Ex1041-0800 | Ex1041-1000 | Ex1041-1500 | Ex1041-2000 |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| H lbs.        | 0.22        | 0.44        | 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<br>inch | b<br>inch | l<br>inch | Wt.<br>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        |

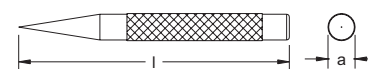
| No.         | a<br>mm | b<br>mm | l<br>mm | Wt.<br>kg |
|-------------|---------|---------|---------|-----------|
| Ex301P-1.4B | 1.4     | 10      | 110     | 0.05      |
| Ex301P-1.8B | 1.8     | 10      | 110     | 0.05      |
| Ex301P-2B   | 2       | 10      | 150     | 0.07      |
| Ex301P-2.4B | 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      |

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

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## Ex303

### Punch, Center



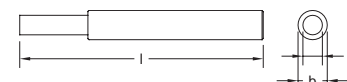
| No.        | a inch | l inch  | Wt. lbs. |
|------------|--------|---------|----------|
| Ex303-005U | 3/8    | 4       | 0.11     |
| Ex303-010U | 7/16   | 6       | 0.25     |
| Ex303-015U | 15/16  | 9-9/16  | 1.58     |
| Ex303-020U | 1      | 10-3/8  | 1.95     |
| Ex303-025U | 1-1/8  | 11-3/16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

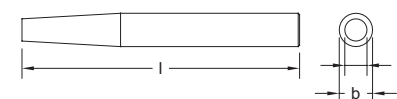


| No.         | a inch | b inch | l inch | Wt. lbs. |
|-------------|--------|--------|--------|----------|
| Ex301-005UB | 1/8    | 3/8    | 4-3/8  | 0.11     |
| Ex301-010UB | 1/4    | 7/16   | 4-3/8  | 0.18     |
| Ex301-015UB | 5/16   | 9/16   | 4-3/4  | 0.26     |
| Ex301-020UB | 3/8    | 5/8    | 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

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

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When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex304-100A

or

Ex304-100B

Chisel, Hand

Chisel, 6-Point

Chisel, 8-Point

Chisel, Cape

Ex304

Ex304A

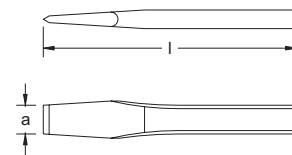
Ex304S

Ex305

# CHISELS

Ex304

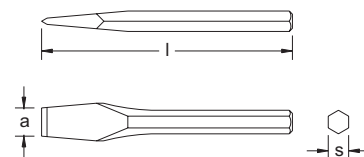
**Chisel, Hand**



| No.       | a<br>inch | l<br>inch | Wt.<br>lbs. | a<br>mm | l<br>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

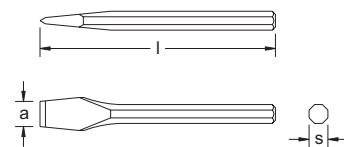
**Chisel, 6-Point**



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

Ex304S

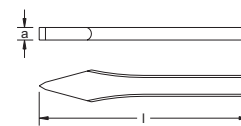
**Chisel, 8-Point**



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

Ex305

**Chisel, Cape**



| No.       | a<br>inch | l<br>inch | Wt.<br>lbs. | a<br>mm | l<br>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 |

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

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Chisel, Bull Point  
Chisel, Diamond Point  
Chisel, Pneumatic  
Chisel, Pneumatic  
Chisel, Scaling

Ex306  
Ex307  
Ex309AH  
Ex310AH  
Ex312

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

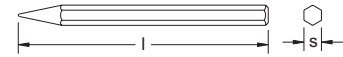
Example: Ex306-200A

or

Ex306-200B

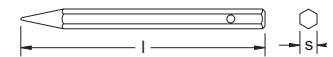
16

## Ex306 Chisel, Bull Point



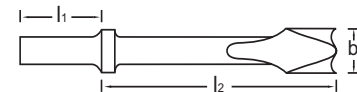
| No.       | s<br>inch | l<br>inch | Wt.<br>lbs. | s<br>mm | l<br>mm | kg   |
|-----------|-----------|-----------|-------------|---------|---------|------|
| Ex306-200 | 9/16      | 8         | 0.57        | 14      | 200     | 0.26 |
| Ex306-250 | 5/8       | 10        | 0.94        | 16      | 250     | 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



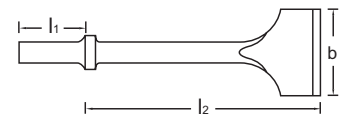
| No.       | s<br>inch | l<br>inch | Wt.<br>lbs. | s<br>mm | l<br>mm | kg   |
|-----------|-----------|-----------|-------------|---------|---------|------|
| Ex307-200 | 9/16      | 8         | 0.58        | 14      | 200     | 0.26 |
| Ex307-250 | 5/8       | 10        | 0.94        | 16      | 250     | 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



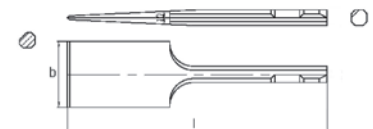
| No.        | b<br>inch | l1<br>inch | l2<br>inch | Wt.<br>lbs. | b<br>mm | kg   | Shank                          |
|------------|-----------|------------|------------|-------------|---------|------|--------------------------------|
| Ex309AH-20 | 13/16     | 1-9/16     | 4-1/2      | 0.40        | 21      | 0.18 | .401 round collar, round shank |

## Ex310AH Chisel, Pneumatic



| No.        | b<br>inch | l1<br>inch | l2<br>inch | Wt.<br>lbs. | b<br>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<br>inch | l<br>inch | Wt.<br>lbs. | b<br>mm | l<br>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 |

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

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When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex314-40A

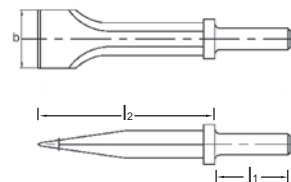
or

Ex314-40B

Chisel, Chipping Hammer  
Chisel, Paving Breaker  
Chisel, Bull Point  
Chisel, Paving Breaker  
Chisel, Bull Point

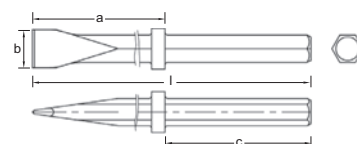
Ex314  
Ex318F  
Ex318R  
Ex320F  
Ex320R

## Ex314 Chisel, Chipping Hammer



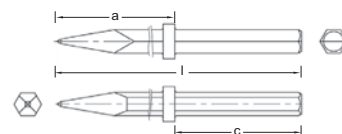
| No.      | b<br>inch | l <sub>1</sub><br>inch | l <sub>2</sub><br>inch | Wt.<br>lbs. | b<br>mm | kg   | Shank                          |
|----------|-----------|------------------------|------------------------|-------------|---------|------|--------------------------------|
| Ex314-40 | 1-1/2     | 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



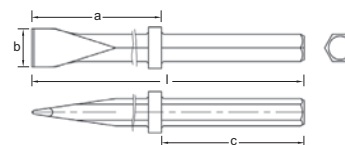
| No.       | b<br>inch | l<br>inch | a<br>inch | c<br>inch | Wt.<br>lbs. | b<br>mm | l<br>mm | kg   | Shank      |
|-----------|-----------|-----------|-----------|-----------|-------------|---------|---------|------|------------|
| Ex318F-75 | 3         | 18-13/16  | 12-13/16  | 6         | 5.75  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

## Ex318R Chisel, Bull Point



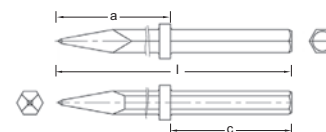
| No.       | l<br>inch | a<br>inch | c<br>inch | Wt.<br>lbs. | l<br>mm | kg   | Shank      |
|-----------|-----------|-----------|-----------|-------------|---------|------|------------|
| Ex318R-14 | 19-5/16   | 13-5/16   | 6         | 6           | 490     | 2.72 | 1-1/8" Hex |

## Ex320F Chisel, Paving Breaker



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

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

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Chisel, Clay Spade Ex340  
 Chisel, Scaling Ex380SH  
 Chisel, Angle Scaling Ex390  
 Wedge, Flange with Lanyard Hole Ex1101U  
 Wedge, Banana with Lanyard Hole Ex1101BH

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

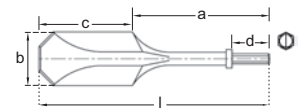
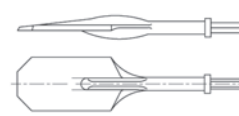
Example: Ex340-100A

or

Ex340-100B

18

## Ex340 Chisel, Clay Spade



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

## Ex380SH Chisel, Scaling



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

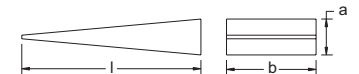
## Ex390-180B Chisel, Angle Scaling



| No.        | l<br>inch | a<br>inch | b<br>inch | Wt.<br>lbs. | l<br>mm | kg   | Shank       |
|------------|-----------|-----------|-----------|-------------|---------|------|-------------|
| Ex390-180B | 7         | 3/4"      | 1-1/2     | 4.7         | 177     | 2.15 | .374" round |

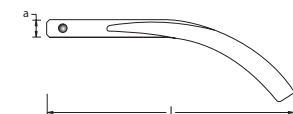
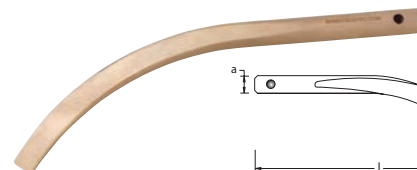
## WEDGES

### Ex1101U Wedge, Flange with Lanyard Hole



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

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

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# Tightening Tools

**Wrenches – pages 20-31**

**Pipe Wrenches – pages 31- 32**

**Ratchets – pages 33**

**Socket Wrenches – pages 34-37**

**Sockets:**

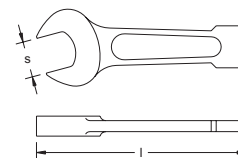
- Standard (1/4", 3/8", 1/2", 3/4" and 1" drive) – pages 38-40
- Standard Deep (1/4", 3/8", 1/2", 3/4" and 1" drive) – pages 41-44
- Impact (3/8", 1/2", 3/4", 1" and 1-1/2" drive) – pages 44-46
- Deep Impact (3/8", 1/2", 3/4", 1" and 1-1/2" drive) – pages 47-49
- Special Extended Depth 4-Point and 6-Point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



Ex200

## Wrench, Striking, Open End

| No.        | s<br>inch | l<br>inch | Wt.<br>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<br>mm | l<br>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 |

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

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

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**When ordering, specify:**

**A = Aluminum Bronze**

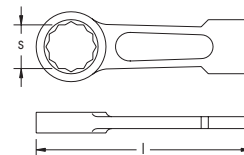
**B = Copper Beryllium**

Example: Ex201B-001UA

or

Ex201B-001UB

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



| No.         | s<br>inch | l<br>inch | Wt.<br>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       |

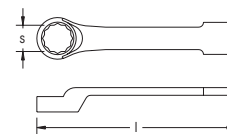
| No.        | s<br>mm | l<br>mm | kg   |
|------------|---------|---------|------|
| Ex201B-17  | 17      | 140     | 0.18 |
| Ex201B-18  | 18      | 140     | 0.18 |
| Ex201B-19  | 19      | 140     | 0.18 |
| Ex201B-20  | 20      | 160     | 0.22 |
| Ex201B-21  | 21      | 160     | 0.22 |
| Ex201B-22  | 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.**

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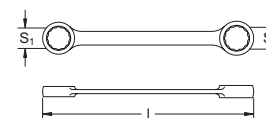
## Ex201F

### Wrench, Striking, Box, Offset

12-Point

| No.         | s<br>inch | l<br>inch | Wt.<br>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<br>mm | l<br>mm | Wt.<br>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 <sub>1</sub> x S <sub>2</sub><br>inch | l<br>inch | Wt.<br>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 <sub>1</sub> x S <sub>2</sub><br>mm | l<br>mm | Wt.<br>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      |

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When ordering, specify:

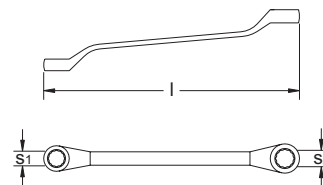
**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex202F-005UA

or

Ex202F-005UB



**Ex202F**

## Wrench, Box End, Double

Offset Type, 12-Point

| No.         | S <sub>1</sub> x S <sub>2</sub><br>inch | l<br>inch | Wt.<br>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        |

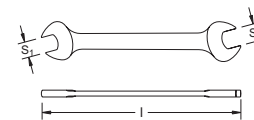
| No.          | S <sub>1</sub> x S <sub>2</sub><br>mm | l<br>mm | Wt.<br>kg |
|--------------|---------------------------------------|---------|-----------|
| Ex202F-6-7   | 6 x 7                                 | 120     | 0.03      |
| Ex202F-7-9   | 7 x 9                                 | 130     | 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      |

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## Ex203

# Wrench, Open End, Double



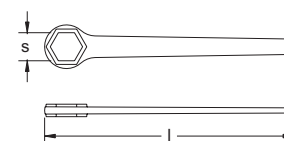
| No.        | S <sub>1</sub> x S <sub>2</sub><br>inch | L<br>inch | Wt.<br>lbs. |
|------------|-----------------------------------------|-----------|-------------|
| Ex203-005U | 7/32 x 1/4                              | 3-9/16    | 0.07        |
| Ex203-010U | 1/4 x 9/32                              | 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 <sub>1</sub> x S <sub>2</sub><br>mm | L<br>mm | Wt.<br>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<br>inch | L<br>inch | Wt.<br>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<br>mm | L<br>mm | Wt.<br>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      |

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

When ordering, specify:

**A** = Aluminum Bronze

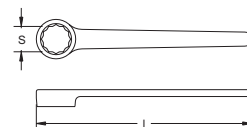
**B** = Copper Beryllium

Example: Ex204D-005UA

or

Ex204D-005UB

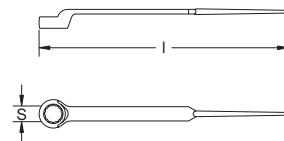
## Ex204D Wrench, Box End 12-Point (DIN 3111)



| No.         | s<br>inch | l<br>inch | Wt.<br>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<br>mm | l<br>mm | 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 |

## Ex204S Wrench, Construction With Pin, (Ring End)



| No.         | s<br>inch | l<br>inch | Wt.<br>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        |

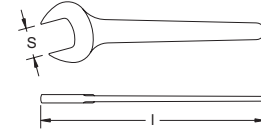
| No.       | s<br>mm | l<br>mm | kg   |
|-----------|---------|---------|------|
| Ex204S-22 | 22      | 350     | 0.39 |
| Ex204S-24 | 24      | 350     | 0.39 |
| Ex204S-27 | 27      | 400     | 0.49 |
| Ex204S-30 | 30      | 400     | 0.80 |
| Ex204S-32 | 32      | 400     | 0.78 |
| Ex204S-36 | 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 |

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

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## Ex205

## Wrench, Open End



| No.        | s<br>inch | l<br>inch | Wt.<br>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<br>mm | l<br>mm | Wt.<br>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      |

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

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When ordering, specify:

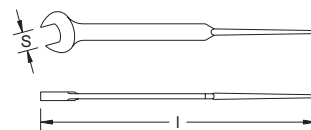
**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex205S-005UA

or

Ex205S-005UB



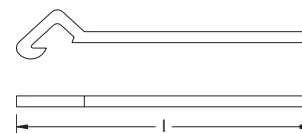
**Ex205S**

## Wrench, Construction

With Pin, (Open End)

| No.         | s<br>inch | l<br>inch | Wt.<br>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<br>mm | l<br>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 |



**Ex212**

## Wrench, Gas Tube

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

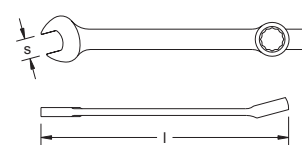
**CAUTION:** The user is responsible for following all safety regulations (OSHA, etc.) when choosing the appropriate tool for the hazards present.

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## Ex206

## Wrench, Combination

## Standard



| No.        | s<br>inch | l<br>inch | Wt.<br>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        | 2.03        |
| 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        |
| Ex206-165U | 2         | 16-3/4    | 4.23        |
| Ex206-170U | 2-3/16    | 17-3/8    | 5.11        |
| Ex206-175U | 2-3/8     | 18-9/16   | 5.71        |
| Ex206-180U | 2-9/16    | 18-3/4    | 6.35        |
| Ex206-185U | 2-3/4     | 19-3/16   | 7.47        |
| Ex206-190U | 2-5/8     | 19-3/16   | 7.47        |

| No.      | s<br>mm | l<br>mm | Wt.<br>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      |
| Ex206-18 | 18      | 195     | 0.21      |
| Ex206-19 | 19      | 205     | 0.23      |
| Ex206-20 | 20      | 205     | 0.25      |
| Ex206-21 | 21      | 230     | 0.27      |
| Ex206-22 | 22      | 245     | 0.30      |
| Ex206-23 | 23      | 245     | 0.36      |
| Ex206-24 | 24      | 265     | 0.41      |
| Ex206-25 | 25      | 290     | 0.58      |
| Ex206-26 | 26      | 290     | 0.58      |
| Ex206-27 | 27      | 290     | 0.58      |
| Ex206-28 | 28      | 320     | 0.63      |
| Ex206-30 | 30      | 320     | 0.63      |
| Ex206-32 | 32      | 335     | 0.79      |
| Ex206-34 | 34      | 350     | 0.92      |
| Ex206-36 | 36      | 350     | 0.93      |
| Ex206-38 | 38      | 360     | 1.24      |
| Ex206-41 | 41      | 370     | 1.46      |
| Ex206-46 | 46      | 405     | 1.68      |
| Ex206-50 | 50      | 420     | 1.92      |
| Ex206-55 | 55      | 435     | 2.32      |
| Ex206-60 | 60      | 465     | 2.59      |
| Ex206-65 | 65      | 470     | 2.88      |
| Ex206-70 | 70      | 480     | 3.39      |

When ordering, specify:

**A = Aluminum Bronze**

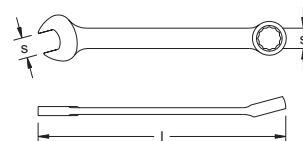
**B = Copper Beryllium**

Example: Ex206L-005UA

or

Ex206L-005UB

# Ex206L Wrench, Combination Long



| No.         | s<br>inch | l<br>inch | Wt.<br>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-161U | 1-15/16   | 22.64     | 4.63        |
| Ex206L-162U | 1-15/16   | 22.64     | 4.63        |
| Ex206L-165U | 2         | 22.64     | 4.85        |
| Ex206L-167U | 2-1/16    | 22.64     | 4.85        |
| Ex206L-168U | 2-1/8     | 22.64     | 5.73        |
| Ex206L-170U | 2-3/16    | 22.64     | 5.73        |
| Ex206L-172U | 2-1/4     | 22.64     | 5.73        |
| Ex206L-173U | 2-5/16    | 22.64     | 6.94        |
| Ex206L-175U | 2-3/8     | 22.64     | 6.94        |
| Ex206L-177U | 2-7/16    | 22.64     | 6.94        |
| Ex206L-178U | 2-1/12    | 22.64     | 10.10       |
| Ex206L-180U | 2-9/16    | 22.64     | 6.35        |
| Ex206L-185U | 2-5/8     | 22.64     | 7.47        |
| Ex206L-187U | 2-11/16   | 22.64     | 9.82        |
| Ex206L-190U | 2-3/4     | 22.64     | 9.82        |
| Ex206L-205U | 2-13/16   | 22.64     | 9.82        |
| Ex206L-210U | 2-7/8     | 22.64     | 9.82        |
| Ex206L-215U | 2-15/16   | 25.20     | 12.74       |
| Ex206L-220U | 3         | 25.20     | 12.74       |
| Ex206L-230U | 3-1/8     | 25.20     | 12.74       |

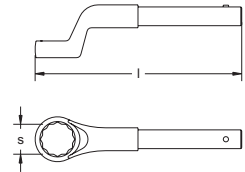
| No.        | s<br>mm | l<br>mm | kg   |
|------------|---------|---------|------|
| x206L-6    | 6       | 120     | 0.03 |
| Ex206L-7   | 7       | 120     | 0.03 |
| Ex206L-8   | 8       | 150     | 0.05 |
| Ex206L-9   | 9       | 150     | 0.05 |
| Ex206L-10  | 10      | 175     | 0.05 |
| Ex206L-11  | 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 |
| Ex206L-18  | 18      | 270     | 0.26 |
| Ex206L-19  | 19      | 270     | 0.26 |
| Ex206L-20  | 20      | 295     | 0.30 |
| Ex206L-21  | 21      | 295     | 0.30 |
| Ex206L-22  | 22      | 295     | 0.30 |
| Ex206L-23  | 23      | 325     | 0.40 |
| Ex206L-24  | 24      | 325     | 0.40 |
| Ex206L-25  | 25      | 355     | 0.55 |
| Ex206L-26  | 26      | 355     | 0.55 |
| Ex206L-27  | 27      | 355     | 0.55 |
| Ex206L-28  | 28      | 390     | 0.69 |
| Ex206L-29  | 29      | 390     | 0.69 |
| Ex206L-30  | 30      | 390     | 0.69 |
| Ex206L-31  | 31      | 390     | 0.69 |
| Ex206L-32  | 32      | 430     | 1.00 |
| Ex206L-33  | 33      | 430     | 1.00 |
| Ex206L-34* | 34      | 430     | 1.00 |
| Ex206L-35  | 35      | 430     | 1.00 |
| Ex206L-36  | 36      | 475     | 1.10 |
| Ex206L-38  | 38      | 475     | 1.10 |
| Ex206L-40  | 40      | 475     | 1.10 |
| Ex206L-41  | 41      | 525     | 1.45 |
| Ex206L-42  | 42      | 525     | 1.45 |
| Ex206L-46  | 46      | 550     | 1.90 |
| Ex206L-47  | 47      | 550     | 1.90 |
| Ex206L-48  | 48      | 550     | 1.90 |
| Ex206L-50  | 50      | 575     | 2.20 |
| Ex206L-55  | 55      | 575     | 2.60 |
| Ex206L-60  | 60      | 575     | 3.15 |
| Ex206L-65  | 65      | 575     | 4.58 |
| Ex206L-70  | 70      | 575     | 4.58 |
| Ex206L-75  | 75      | 635     | 5.80 |
| Ex206L-80  | 80      | 635     | 5.80 |

\*AlBr Only

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

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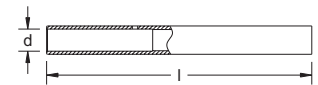
## Ex215 Wrench, Box, For Extension



| No.        | s<br>inch | l<br>inch | Wt.<br>lbs. |                                          |
|------------|-----------|-----------|-------------|------------------------------------------|
| Ex215-005U | 1-3/16    | 8         | 2.03        | For use with extension<br>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        | For use with extension<br>Ex216-25       |
| Ex215-045U | 1-11/16   | 10-9/16   | 2.78        |                                          |
| 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        | For use with<br>extension<br>Ex216-30    |
| Ex215-080U | 2-3/16    | 11-9/16   | 4.30        |                                          |
| Ex215-085U | 2-1/4     | 13-3/16   | 6.39        |                                          |
| 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        | For use<br>with<br>extension<br>Ex216-30 |
| 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        |                                          |

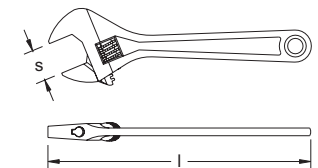
| No.      | s<br>mm | l<br>mm | kg   |                                          |
|----------|---------|---------|------|------------------------------------------|
| Ex215-30 | 30      | 200     | 0.92 | For use with extension<br>Ex216-22       |
| Ex215-32 | 32      | 235     | 0.97 |                                          |
| 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 | For use with<br>extension<br>Ex216-25    |
| Ex215-41 | 41      | 265     | 1.26 |                                          |
| Ex215-42 | 42      | 265     | 1.26 |                                          |
| Ex215-46 | 46      | 280     | 1.60 |                                          |
| Ex215-47 | 47      | 280     | 1.60 | For use<br>with<br>extension<br>Ex216-30 |
| Ex215-50 | 50      | 280     | 1.77 |                                          |
| Ex215-52 | 52      | 280     | 1.77 |                                          |
| Ex215-55 | 55      | 290     | 1.95 |                                          |
| Ex215-58 | 58      | 330     | 2.90 | For use<br>with<br>extension<br>Ex216-30 |
| Ex215-60 | 60      | 330     | 2.90 |                                          |
| Ex215-65 | 65      | 350     | 3.10 |                                          |
| Ex215-70 | 70      | 360     | 3.50 |                                          |

## Ex216 Extension for Box Wrench



| No.      | d<br>inch | l<br>inch | Wt.<br>lbs. | d<br>mm | l<br>mm | 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<br>inch | l<br>inch | Wt. lbs. | s max<br>mm | l<br>mm | 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 |

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

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex1514B-005UA

or

Ex1514B-005UB

Wrench, Torque

Wrench, Crowfoot, 1/2" Drive

Wrench, Pipe (American Type)

Ex1401TB

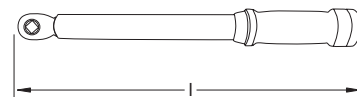
Ex1514B

Ex502

Ex1401TB

**Wrench, Torque**

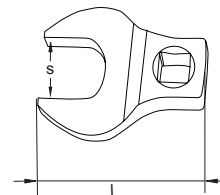
*Copper Beryllium (CuBe) only*



| No.                           | Drive inch | L inch | Torque Range ft./lbs. | Wt. lbs. | L mm | Torque Range Nm | kg   |
|-------------------------------|------------|--------|-----------------------|----------|------|-----------------|------|
| Ex1401TB-B (slight magnetism) | 1/2        | 20-1/2 | 22-110                | 3        | 521  | 30 - 150        | 1.38 |
| Ex1401NM-B (non-magnetic)     | 1/2        | 20-1/2 | 22-110                | 3        | 521  | 30 - 150        | 1.38 |

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     |

| No.          | s inch | L inch  | Wt. lbs. |
|--------------|--------|---------|----------|
| 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     |

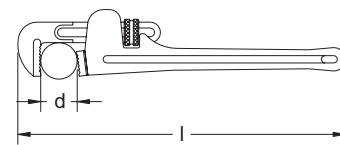
**TIGHTENING**

## PIPE WRENCHES

Ex502

**Wrench, Pipe**

*American Type*



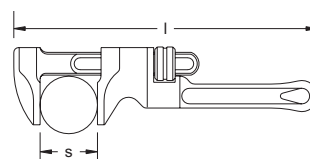
| No.      | d max inch | L inch | Wt. lbs. | d max mm | L mm | kg    |
|----------|------------|--------|----------|----------|------|-------|
| Ex502-6  | 3/4        | 6      | 0.66     | 20       | 150  | 0.30  |
| Ex502-8  | 1          | 8      | 1.04     | 25       | 200  | 0.47  |
| Ex502-10 | 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 |

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

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## Ex503

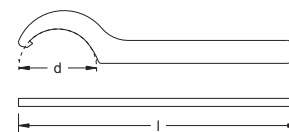
### Wrench, Monkey



| No.      | s max<br>inch | l<br>inch | Wt.<br>lbs. | s max<br>mm | l<br>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 |

## Ex208

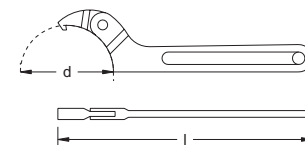
### Wrench, Spanner, Fixed (DIN 1810)



| No.           | d<br>inch        | l<br>inch | Wt.<br>lbs. | d<br>mm | l<br>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

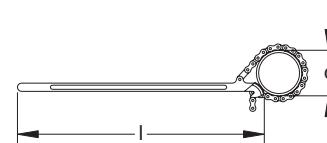
### Wrench, Spanner, Adjustable



| No.            | d<br>inch      | l<br>inch | Wt.<br>lbs. | d<br>mm   | l<br>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<br>inch | l<br>inch | Wt.<br>lbs. | d max<br>mm | l<br>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 |

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

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When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex504S-005UA

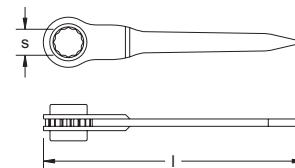
or

Ex504S-005UB

## RATCHETS

Ex504S

Wrench, Ratchet

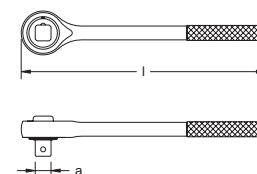


| No.         | s<br>inch | l<br>inch | Wt.<br>lbs. |
|-------------|-----------|-----------|-------------|
| Ex504S-005U | 1-15/16   | 9-9/16    | 1.10        |
| Ex504S-010U | 1-1/16    | 10-3/4    | 1.59        |
| Ex504S-015U | 1-3/16    | 12        | 1.96        |
| Ex504S-020U | 1-1/4     | 12-3/4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

| No.       | s<br>mm | l<br>mm | Wt.<br>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      |

Ex1501S

Wrench, Ratchet



| No.        | a<br>inch | l<br>inch | Wt.<br>lbs. | l<br>mm | Wt.<br>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



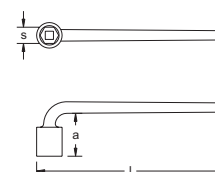
| No.                  | Ex1510-AAB   | Ex1510-BC    | Ex1510-CD  |
|----------------------|--------------|--------------|------------|
| Size of Square Drive | 1/4" to 1/2" | 1/2" to 3/4" | 3/4" to 1" |

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

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# SOCKET WRENCHES

## Ex701 Wrench, Socket L-Type, 6-Point



| No.        | s<br>inch | a<br>inch | l<br>inch | Wt.<br>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<br>mm | a<br>mm | l<br>mm | Wt.<br>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     |

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

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When ordering, specify:

**A** = Aluminum Bronze

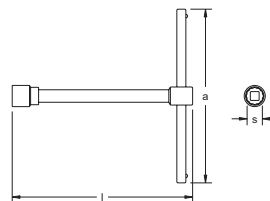
**B** = Copper Beryllium

Example: Ex702-005UA

or

Ex702-005UB

## Ex702 Wrench, Socket T-Type, 12-Point

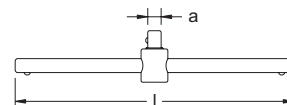


| No.        | s<br>inch | a<br>inch | l<br>inch | Wt.<br>lbs. |
|------------|-----------|-----------|-----------|-------------|
| Ex702-005U | 5/16      | 8         | 6-3/4     | 1.28        |
| Ex702-010U | 11/32     | 8         | 6-3/4     | 1.28        |
| Ex702-015U | 3/8       | 8         | 6-3/4     | 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<br>mm | a<br>mm | l<br>mm | Wt.<br>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

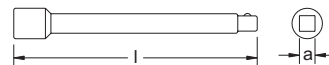


| No.       | a<br>inch | l<br>inch | Wt.<br>lbs. | l<br>mm | Wt.<br>kg |
|-----------|-----------|-----------|-------------|---------|-----------|
| Ex1502-AA | 1/4       | 6         | 0.15        | 150     | 0.068     |
| Ex1502-A  | 3/8       | 7-3/16    | 0.49        | 180     | 0.22      |
| Ex1502-B  | 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      |

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

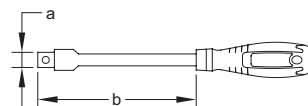
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## Ex1504 Bar, Extension



| No.           | a<br>inch | l<br>inch | Wt.<br>lbs. | l<br>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<br>inch | l<br>inch | Wt.<br>lbs. | l<br>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<br>inch | l<br>inch | Wt.<br>lbs. | l<br>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 |

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

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When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex1506AAA

or

Ex1506AAB

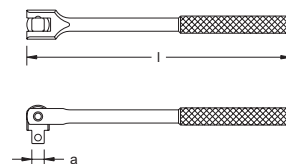
Wrench Handle, Hinged Ex1506

Universal Joint Ex1507

Offset Grip Handle Ex1508

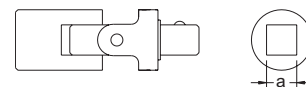
Adapter/Converter Ex1509

## Ex1506 Wrench Handle, Hinged



| No.      | a<br>inch | l<br>inch | Wt.<br>lbs. | l<br>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 |

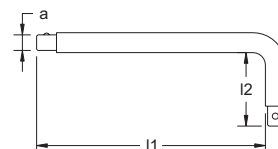
## Ex1507 Universal Joint



| No.      | a<br>inch | Wt.<br>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 |

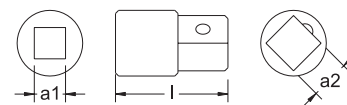
## Ex1508 Offset Grip Handle

Copper Beryllium (CuBe) only



| No.       | a<br>inch | l <sub>1</sub><br>inch | l <sub>2</sub><br>inch | Wt.<br>lbs. | l <sub>1</sub><br>mm | l <sub>2</sub><br>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



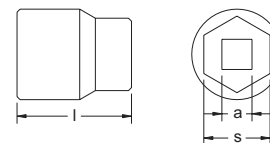
| No.      | a <sub>1</sub><br>inch | a <sub>2</sub><br>inch | l<br>inch | Wt.<br>lbs. | l<br>mm | kg    |
|----------|------------------------|------------------------|-----------|-------------|---------|-------|
| Ex1509AB | 3/8                    | 1/2                    | 1-7/16    | 0.16        | 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  |

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

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## SOCKETS

### Ex1503AA Socket 1/4" Drive 6-Point



| No.           | a<br>inch | s<br>inch | l<br>inch | Wt.<br>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<br>inch | s<br>mm | l<br>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<br>inch | s<br>inch | l<br>inch | Wt.<br>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<br>inch | s<br>mm | l<br>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 |

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

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When ordering, specify:

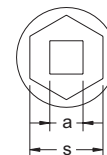
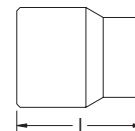
**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex1503B-005UA

or

Ex1503B-005UB



## Ex1503B Socket 1/2" Drive

6-Point

| No.          | a<br>inch | s<br>inch | l<br>inch | Wt.<br>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<br>inch | s<br>mm | l<br>mm | Wt.<br>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      |

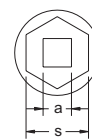
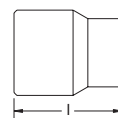
**TIGHTENING**

**Socket Kits – see pages 77-80**

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

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## Ex1503C Socket 3/4" Drive 6-Point



When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex1503C-005UA

or

Ex1503C-005UB

| No.          | a<br>inch | s<br>inch | l<br>inch | Wt.<br>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<br>inch | s<br>mm | l<br>mm | Wt.<br>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<br>inch | s<br>inch | l<br>inch | Wt.<br>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         | 2-1/8     | 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<br>inch | s<br>mm | l<br>mm | Wt.<br>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      |

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

When ordering, specify:

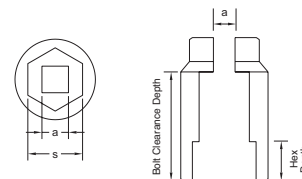
**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex1610-005UA

or

Ex1610-005UB



## Ex1610 Socket, Standard Deep 1/4" Drive 6-Point

| No.         | a<br>inch | s<br>inch | Bolt<br>Clearance<br>Depth inch | Hex<br>Depth<br>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<br>inch | s<br>mm | Bolt<br>Clearance<br>Depth mm | Hex<br>Depth<br>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                 |

## Ex1620 Socket, Standard Deep 3/8" Drive 6-Point

| No.         | a<br>inch | s<br>inch | Bolt<br>Clearance<br>Depth inch | Hex<br>Depth<br>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<br>inch | s<br>mm | Bolt<br>Clearance<br>Depth mm | Hex<br>Depth<br>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                 |

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

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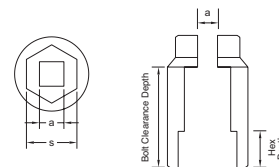
**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex1630-005UA

or

Ex1630-005UB



Ex1630

Socket, Standard Deep 1/2" Drive

6-Point

| No.         | a<br>inch | s<br>inch | Bolt<br>Clearance<br>Depth inch | Hex<br>Depth<br>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<br>inch | s<br>mm | Bolt<br>Clearance<br>Depth mm | Hex<br>Depth<br>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                 |

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

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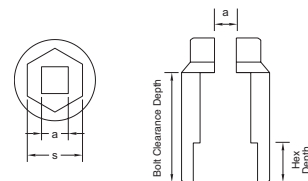
**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex1640-005UA

or

Ex1640-005UB



**Ex1640**

## Socket, Standard Deep 3/4" Drive

6-Point

| No.         | a<br>inch | s<br>inch | Bolt<br>Clearance<br>Depth inch | Hex<br>Depth<br>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                 |

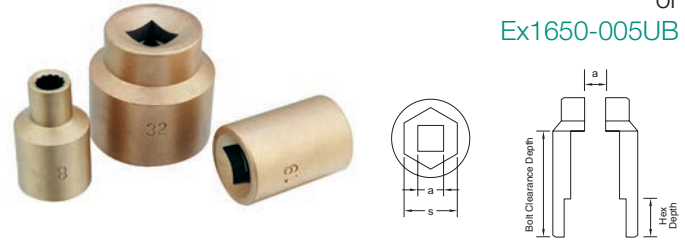
| No.       | a<br>inch | s<br>mm | Bolt<br>Clearance<br>Depth mm | Hex<br>Depth<br>mm |
|-----------|-----------|---------|-------------------------------|--------------------|
| Ex1640-19 | 3/4       | 19      | 68                            | 26                 |
| Ex1640-20 | 3/4       | 20      | 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**

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

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## Ex1650 Socket, Standard Deep 1" Drive 6-Point

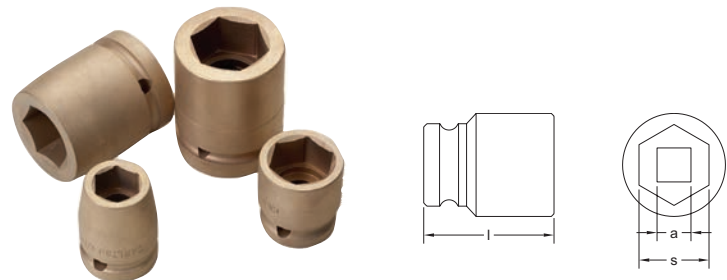


| No.         | a<br>inch | s<br>inch | Bolt<br>Clearance<br>Depth inch | Hex<br>Depth<br>inch |
|-------------|-----------|-----------|---------------------------------|----------------------|
| Ex1650-005U | 1         | 1-1/16    | 2.76                            | 1.26                 |
| Ex1650-010U | 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<br>inch | s<br>mm | Bolt<br>Clearance<br>Depth mm | Hex<br>Depth<br>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<br>inch | s<br>inch | l<br>inch | Wt.<br>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<br>inch | s<br>mm | l<br>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 |

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

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When ordering, specify:

**B = Copper Beryllium**

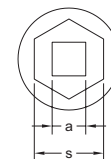
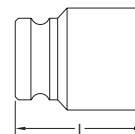
Example: Ex1730-005UB

## Ex1730

# Socket, Impact 1/2" Drive

Copper Beryllium (CuBe) only

6-Point



| No.          | a<br>inch | s<br>inch | l<br>inch | Wt.<br>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<br>inch | s<br>mm | l<br>mm | Wt.<br>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      |

## Ex1740

# Socket, Impact 3/4" Drive

Copper Beryllium (CuBe) only

6-Point

| No.          | a<br>inch | s<br>inch | l<br>inch | Wt.<br>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<br>inch | s<br>mm | l<br>mm | Wt.<br>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**

See page 89

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

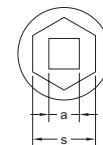
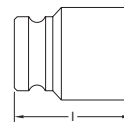
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## Ex1750

# Socket, Impact 1" Drive

Copper Beryllium (CuBe) only

6-Point



| No.          | a<br>inch | s<br>inch | l<br>inch | Wt.<br>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<br>inch | s<br>mm | l<br>mm | Wt.<br>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<br>inch | s<br>inch | l<br>inch | Wt.<br>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<br>inch | s<br>mm | l<br>mm | Wt.<br>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      |

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

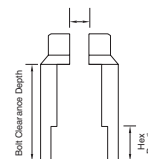
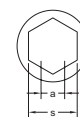
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When ordering, specify:

**B = Copper Beryllium**

Example: Ex1820-005UB

Socket, Deep Impact 3/8" Drive Ex1820  
Socket, Deep Impact 1/2" Drive Ex1830



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**Ex1820**

## Socket, Deep Impact 3/8" Drive

*Copper Beryllium (CuBe) only*

6-Point

| No.          | a<br>inch | s<br>inch | Bolt<br>Clearance<br>Depth inch | Hex<br>Depth<br>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<br>inch | s<br>mm | Bolt<br>Clearance<br>Depth mm | Hex<br>Depth<br>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

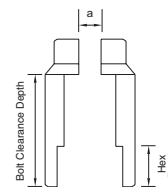
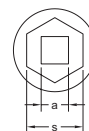
| No.          | a<br>inch | s<br>inch | Bolt<br>Clearance<br>Depth inch | Hex<br>Depth<br>inch |
|--------------|-----------|-----------|---------------------------------|----------------------|
| Ex1830-005UB | 1/2       | 1/4       | 2.67                            | 0.98                 |
| Ex1830-010UB | 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<br>inch | s<br>mm | Bolt<br>Clearance<br>Depth mm | Hex<br>Depth<br>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.**

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

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## Ex1840

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

6-Point

| No.          | a<br>inch | s<br>inch | Bolt<br>Clearance<br>Depth inch | Hex<br>Depth<br>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<br>inch | s<br>mm | Bolt<br>Clearance<br>Depth mm | Hex<br>Depth<br>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*

*Copper Beryllium (CuBe) only*

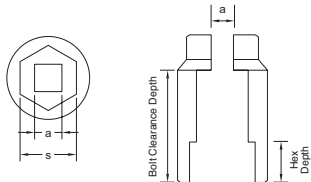
6-Point

| No.          | a<br>inch | s<br>inch | Bolt<br>Clearance<br>Depth inch | Hex<br>Depth<br>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<br>inch | s<br>mm | Bolt<br>Clearance<br>Depth mm | Hex<br>Depth<br>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                 |

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

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<br>inch | s<br>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<br>inch | s<br>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      |

*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**  
See page 89



**TIGHTENING**

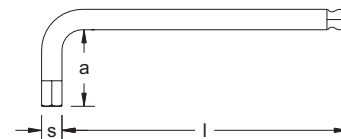
## ALLEN KEYS

Ex209

### Wrench, Allen / Hex Key

(DIN 911)

Copper Beryllium (CuBe) only



| No.         | s<br>inch | a<br>inch | l<br>inch | Wt.<br>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      |

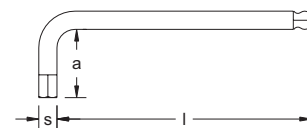
| No.        | s<br>mm | a<br>mm | l<br>mm | Wt.<br>kg |
|------------|---------|---------|---------|-----------|
| Ex209-1.5B | 1.5     | 14      | 45      | 0.0016    |
| Ex209-2B   | 2       | 16      | 50      | 0.0038    |
| Ex209-2.5B | 2.5     | 18      | 56      | 0.0044    |
| Ex209-3B   | 3       | 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<br>inch | a<br>inch | l<br>inch | Wt.<br>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<br>mm | a<br>mm | l<br>mm | Wt.<br>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      |

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

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

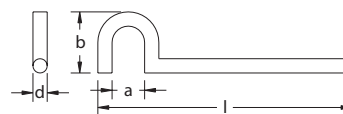
Example: Ex207-30A

or

Ex207-30B

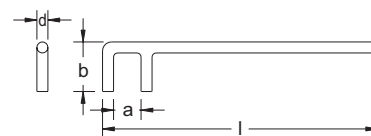
## WHEEL WRENCHES

### Ex207 Wrench, Valve



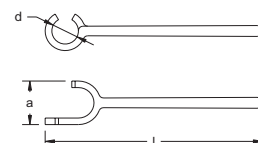
| No.      | a<br>inch | b<br>inch | d<br>inch | l<br>inch | Wt.<br>lbs. | a<br>mm | b<br>mm | d<br>mm | l<br>mm | kg   |
|----------|-----------|-----------|-----------|-----------|-------------|---------|---------|---------|---------|------|
| Ex207-30 | 1-3/16    | 2-1/4     | 1/2       | 8         | 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 |

### Ex207F Valve Wheel Hook



| No.       | a<br>inch | b<br>inch | d<br>inch | l<br>inch | Wt.<br>lbs. | a<br>mm | b<br>mm | d<br>mm | l<br>mm | 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)



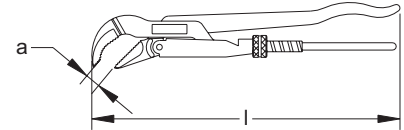
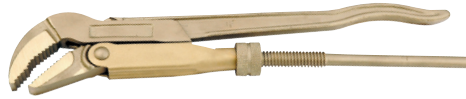
| No.        | d<br>inch | a<br>inch | l<br>inch | Wt.<br>lbs. | d<br>mm | a<br>mm | l<br>mm | kg   |
|------------|-----------|-----------|-----------|-------------|---------|---------|---------|------|
| Ex207S-215 | 1-1/4     | 2-1/4     | 8-9/16    | 0.86        | 32      | 56      | 215     | 0.39 |
| 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 |

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

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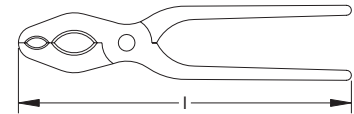
## PLIERS

### Ex505 Pliers, Swedish (DIN ISO 5234)



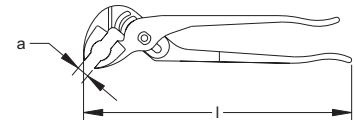
| No.        | a max<br>inch | l<br>inch | Wt.<br>lbs. | a max<br>mm | l<br>mm | kg   |
|------------|---------------|-----------|-------------|-------------|---------|------|
| Ex505-005U | 1-9/16        | 12        | 1.52        | 40          | 300     | 0.69 |
| Ex505-010U | 2-3/16        | 16-3/4    | 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<br>inch | Wt.<br>lbs. | l<br>mm | kg   |
|-----------|-----------|-------------|---------|------|
| Ex602-200 | 8         | 0.99        | 200     | 0.45 |

### Ex604 Pliers, Groove Joint



| No.      | a max<br>inch | l<br>inch | Wt.<br>lbs. | a max<br>mm | l<br>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<br>inch | Wt.<br>lbs. | l<br>mm | kg   |
|---------|-----------|-------------|---------|------|
| Ex605-8 | 8         | 0.46        | 200     | 0.21 |

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

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**When ordering, specify:**

**A = Aluminum Bronze**

**B = Copper Beryllium**

Example: Ex606-6A

or

Ex606-6B

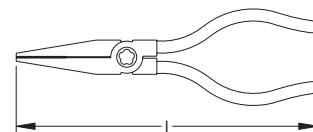
Pliers, Flat Nose (DIN ISO 5745) Ex606

Pliers, Round Nose (DIN ISO 5745) Ex607

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

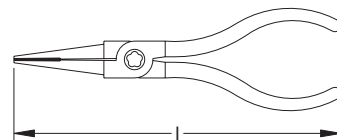
Pliers, Lineman's, Side Cutting Ex612

## Ex606 Pliers, Flat Nose (DIN ISO 5745)



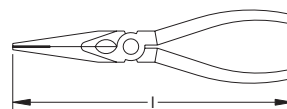
| No.     | l<br>inch | Wt.<br>lbs. | l<br>mm | kg   |
|---------|-----------|-------------|---------|------|
| Ex606-6 | 6         | 0.37        | 150     | 0.17 |

## Ex607 Pliers, Round Nose (DIN ISO 5745)



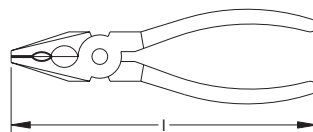
| No.     | l<br>inch | Wt.<br>lbs. | l<br>mm | kg   |
|---------|-----------|-------------|---------|------|
| Ex607-6 | 6         | 0.31        | 150     | 0.14 |

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



| No.     | l<br>inch | Wt.<br>lbs. | l<br>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<br>inch | Wt.<br>lbs. | l<br>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 |

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

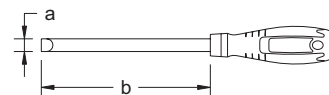
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# SCREWDRIVERS

## Ex801 Screwdriver, Standard *Copper Beryllium (CuBe) only*



Cushion grip handle, 0.194" lanyard hole

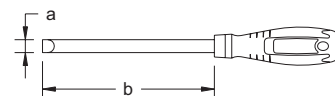


| No.        | a inch<br>Flathead | b inch | Wt.<br>lbs. | a mm | b mm | kg     |
|------------|--------------------|--------|-------------|------|------|--------|
| Ex801-3B   | 1/8                | 3      | 0.02        | 3    | 75   | 0.0075 |
| Ex801-4B   | 3/16               | 4      | 0.04        | 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*



Cushion grip handle, 0.194" lanyard hole



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

When ordering, specify:

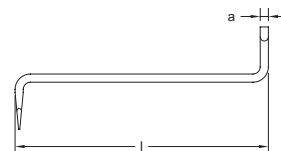
**B = Copper Beryllium**

Example: Ex802-010UB

Ex802

## Screwdriver, Offset

Copper Beryllium (CuBe) only



| No.         | a<br>inch | b<br>inch | Wt.<br>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<br>mm | b<br>mm | Wt.<br>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**

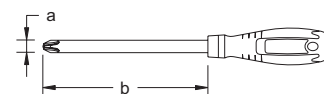
Ex803

## Screwdriver, Phillips

Copper Beryllium (CuBe) only



Cushion grip handle, 0.194" lanyard hole



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

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

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# CUTTING TOOLS

Knives / Cutting Tools – pages 57-59

Scrapers – pages 60-61

Saws – page 62

Files– page 63



When ordering, specify:

**A** = Aluminum Bronze

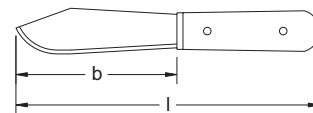
**B** = Copper Beryllium

Example: Ex409-200A

or

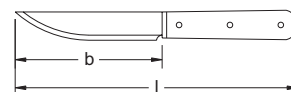
Ex409-200B

## Ex409 Knife, Common



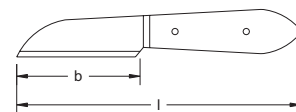
| No.       | b<br>inch | l<br>inch | Wt.<br>lbs. | b<br>mm | l<br>mm | kg    |
|-----------|-----------|-----------|-------------|---------|---------|-------|
| Ex409-200 | 4-1/4     | 8         | 0.15        | 106     | 200     | 0.067 |

## Ex410 Knife, Common



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

## Ex410S Knife, Common

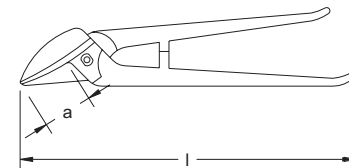


| No.        | b<br>inch | l<br>inch | Wt.<br>lbs. | b<br>mm | l<br>mm | kg    |
|------------|-----------|-----------|-------------|---------|---------|-------|
| Ex410S-180 | 3-3/16    | 7-9/16    | 0.13        | 80      | 180     | 0.059 |

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

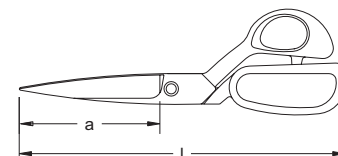
Toll-Free in U.S. 1-800-700-5919 • +1-203-853-9522 • Fax: +1-203-853-9921 • CSunitec.com

## Ex608 Shears, Cutting



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

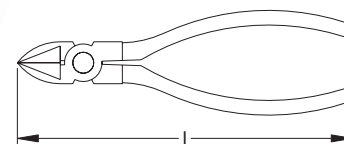
## Ex609 Scissors



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

## Ex601 Pliers, Diagonal Cutting

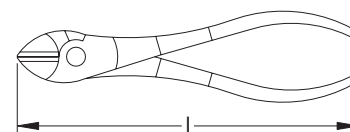
*Copper Beryllium (CuBe) only*



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

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

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When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex603-7A

or

Ex603-7B

Pliers, Cutting Ex603

Pipe Cutter Ex1512

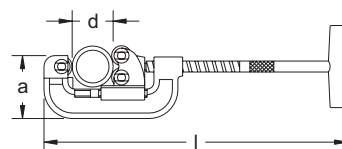
Non-Sparking Needle for Air Needle Scalers Ex308

## Ex603 Pliers, Cutting



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

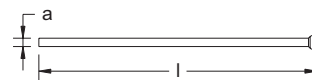
## Ex1512 Pipe Cutter



| No.       | a<br>inch | d max<br>inch | l<br>inch | Wt.<br>lbs. | a<br>mm | d max<br>mm | l<br>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<br>inch | l<br>inch | Wt.<br>lbs. | a<br>mm | l<br>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**

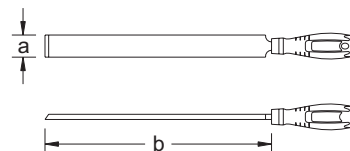
See page 88

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

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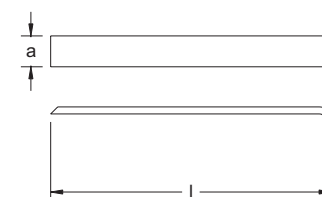
## SCRAPERS

### Ex401 Scraper, Flat



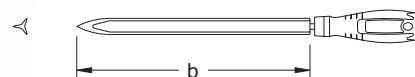
| No.      | a<br>inch | b<br>inch | Wt.<br>lbs. | a<br>mm | b<br>mm | kg   |
|----------|-----------|-----------|-------------|---------|---------|------|
| Ex401-18 | 11/16     | 12        | 0.73        | 18      | 300     | 0.33 |
| Ex401-30 | 1-3/16    | 12        | 1.17        | 30      | 300  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

### Ex402 Scraper, Angle



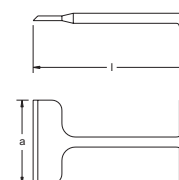
| No.      | a<br>inch | l<br>inch | Wt.<br>lbs. | a<br>mm | l<br>mm | kg   |
|----------|-----------|-----------|-------------|---------|---------|------|
| Ex402-22 | 7/8       | 8         | 0.48        | 22      | 200     | 0.22 |
| Ex402-25 | 1         | 12        | 0.78        | 25      | 300     | 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<br>inch | Wt.<br>lbs. | b<br>mm | kg   |
|-----------|-----------|-------------|---------|------|
| Ex403-300 | 12        | 0.68        | 300     | 0.31 |

### Ex405 Scraper, Deck



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

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

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When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

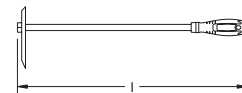
Example: Ex406-150A

or

Ex406-150B

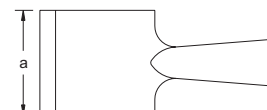
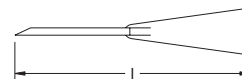
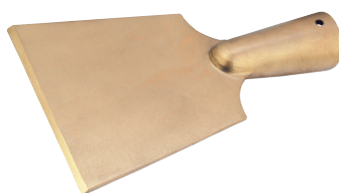
Scraper, Plate Ex406  
Scraper, Long Blade, Handle Not Included Ex407  
Knife, Putty/Hand Scraper Ex408  
Spatula Ex408S

## Ex406 Scraper, Plate



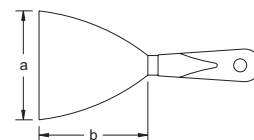
| No.       | a<br>inch | l<br>inch | Wt.<br>lbs. | a<br>mm | l<br>mm | kg   |
|-----------|-----------|-----------|-------------|---------|---------|------|
| Ex406-150 | 6         | 19-3/8    | 2.01        | 150     | 485     | 0.91 |

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



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

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

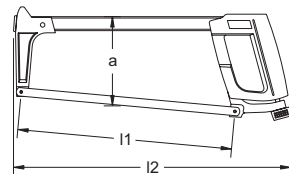
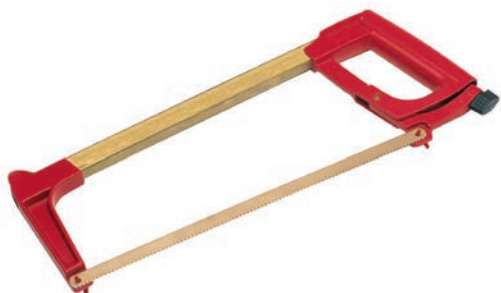
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# SAWS

Ex118A

## Hacksaw Frame

Aluminum Bronze (AlBr) only\*



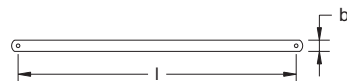
| No.         | a<br>inch | l1<br>inch | l2<br>inch | Wt.<br>lbs. | a<br>mm | l1<br>mm | l2<br>mm | kg   |
|-------------|-----------|------------|------------|-------------|---------|----------|----------|------|
| Ex118A-395A | 5-1/8     | 12         | 15-3/4     | 1.19        | 128     | 300     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

\* Frame only

Ex118B

## Hacksaw Blade

Copper Beryllium (CuBe) only

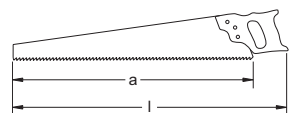


| No.         | b<br>inch | l<br>inch | Wt.<br>lbs. | b<br>mm | l<br>mm | kg    |
|-------------|-----------|-----------|-------------|---------|---------|-------|
| Ex118B-300B | 7/16      | 12        | 0.04        | 12      | 300     | 0.017 |

Ex119

## Saw, Hand (8 teeth/inch)

Copper Beryllium (CuBe) only



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

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

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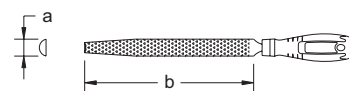
When ordering, specify:

**B = Copper Beryllium**

Example: Ex411-200B

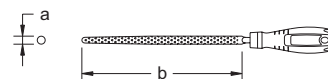
## FILES

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



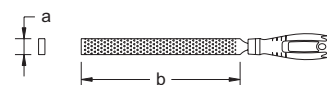
| No.        | a<br>inch | b<br>inch | Wt.<br>lbs. | a<br>mm | b<br>mm | kg   |
|------------|-----------|-----------|-------------|---------|---------|------|
| Ex411-200B | 3/4       | 8         | 0.41        | 20      | 200     | 0.19 |
| Ex411-250B | 15/16     | 10        | 0.73        | 24     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

### Ex411R File, Round *Copper Beryllium (CuBe) only*



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

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

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# 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

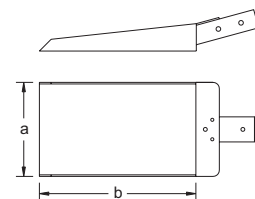
Shovel, Round Point with Long Handle Ex1006

Spade, Edging with D-Grip Ex1007

Ex1004

## Dust Pan

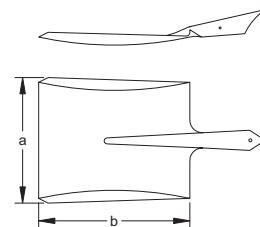
*Copper Beryllium (CuBe) only*



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

Ex1005 / Ex1005D

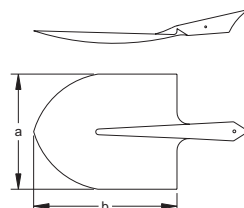
## Shovel, Square Point



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

Ex1006 / Ex1006D

## Shovel, Round Point



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

**Shovel  
Aluminum-  
Bronze  
(AlBr) Alloy**

**Zone Compatibility** Fulfill demand in ATEX Directive 94/9/EC for work in Zones 1, 2, 21 and 22

**Hardness** 27 HRC

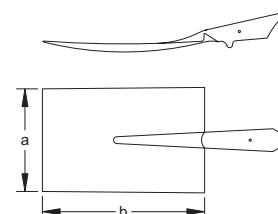
**Magnetic Properties** Low magnetism due to minimal ferrous components. Appropriate for non-critical non-magnetic applications.

**Composition** Al: 8-10% Ni: 0.5% max. Sn: 0.1% max. Mn: 0.1% max. Fe: 2-4% Cu: Balance

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

Ex1007

## Spade, Edging with D-Grip

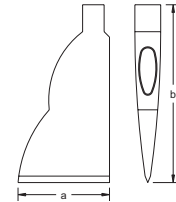


| No.        | a<br>inch | b<br>inch | Wt.<br>lbs. | a<br>mm | b<br>mm | kg   | Handle<br>Length |
|------------|-----------|-----------|-------------|---------|---------|------|------------------|
| Ex1007-180 | 7-3/16    | 11-3/8    | 2.62        | 180     | 285     | 1.19 | 31.5"/800mm      |

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

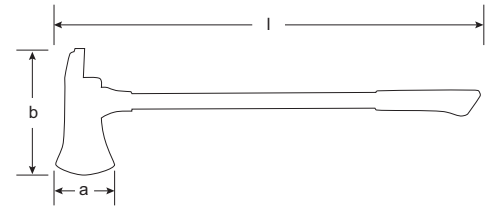
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## HATCHETS / AXES



Ex1202  
Hatchet

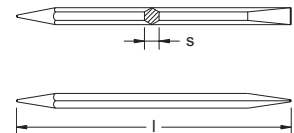
| No.       | a<br>inch | b<br>inch | Wt.<br>lbs. | a<br>mm | b<br>mm | kg   | Handle<br>Length |
|-----------|-----------|-----------|-------------|---------|---------|------|------------------|
| Ex1202-85 | 3-13/32   | 6-19/32   | 2.71        | 85      | 165     | 1.23 | 14"/360mm        |



Ex1203  
Axe, Pick Head

| No.         | a<br>inch | b<br>inch | l<br>inch | Wt.<br>lbs. | a<br>mm | b<br>mm | l<br>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<br>inch | l<br>inch | Wt.<br>lbs. | s<br>mm | l<br>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

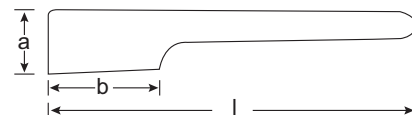
Bar, Pinch Ex1301

Angle Tracing Point Ex1302

Bar, Crow Ex1303

## Ex1013

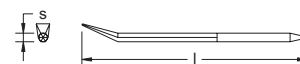
### Drum Opener, Carbide



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

## Ex1301

### Bar, Pinch



| No.          | s<br>inch | l<br>inch | Wt.<br>lbs. | s<br>mm | l<br>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

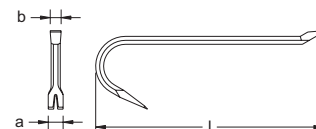
### Angle Tracing Point



| No.        | s<br>inch | l1<br>inch | l2<br>inch | Wt.<br>lbs. | s<br>mm | l1<br>mm | l2<br>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



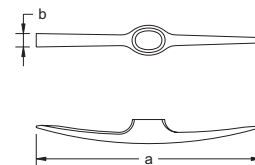
| No.        | a<br>inch | b<br>inch | l<br>inch | Wt.<br>lbs. | a<br>mm | b<br>mm | l<br>mm | kg   |
|------------|-----------|-----------|-----------|-------------|---------|---------|---------|------|
| Ex1303-460 | 1-3/16    | 7/8       | 18-3/8    | 3.06        | 30      | 22      | 460     | 1.39 |
| 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 |

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

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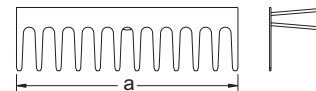
## PICKS / FORKS

### Ex1008 Pick, Railroad or Clay (Handle Included)



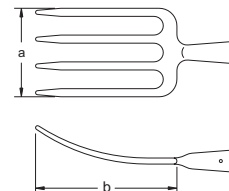
| No.        | a<br>inch | b<br>inch | Wt.<br>lbs. | a<br>mm | b<br>mm | kg   | Handle<br>Length |
|------------|-----------|-----------|-------------|---------|---------|------|------------------|
| Ex1008-420 | 16-3/4    | 1         | 2.65        | 420     | 25      | 1.20 | 36"/920mm        |
| Ex1008-560 | 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<br>inch | Wt.<br>lbs. | a<br>mm | kg   | Handle<br>Length |
|------------|-----------|-------------|---------|------|------------------|
| Ex1009-300 | 12        | 0.73        | 300     | 0.33 | 53"/1350mm       |

### Ex1010 Fork, Garden (Single Cast, Handle Included)



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

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

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When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex1014-400A

or

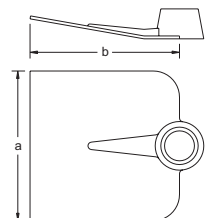
Ex1014-400B

## Ex1014 Scraper, Pick and Scaler



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

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

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# MISCELLANEOUS TOOLS

Brushes – pages 70

Bung Wrenches – page 71

Clamps – page 72

Special Tools – pages 73-75

Ex996

**Brush, Spark Plug Cleaning**

*Phosphorous Copper only*



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

Ex1001

**Brush, Straight Handle, Scratch**

*Aluminum Bronze (AlBr) only*



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

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

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When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex110-400A

or

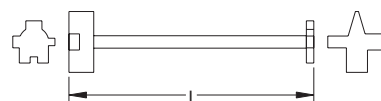
Ex110-400B

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

Ex110  
Ex110ES  
Ex110S  
Ex213

## BUNG WRENCHES

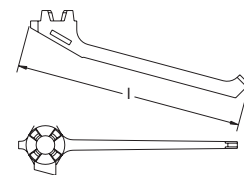
### Ex110 Wrench, Bung



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

### Ex110ES Wrench, Bung

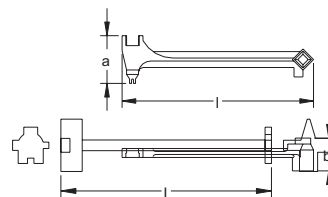
Fits 3/4" & 2" Bungs



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

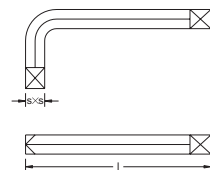
### Ex110S Wrench, Bung

For 22 Different Bungs



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

### Ex213 Wrench, Bung



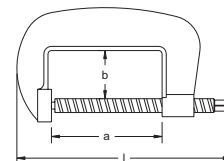
| No.      | s<br>inch | l<br>inch | Wt.<br>lbs. | s<br>mm | l<br>mm | kg   |
|----------|-----------|-----------|-------------|---------|---------|------|
| Ex213-22 | 7/8       | 10-3/16   | 1.41        | 22      | 255     | 0.64 |
| Ex213-24 | 15/16     | 10-3/16   | 1.75        | 24      | 255     | 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 |

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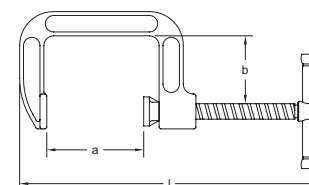
## CLAMPS

### Ex211 Clamp, Grounding



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

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

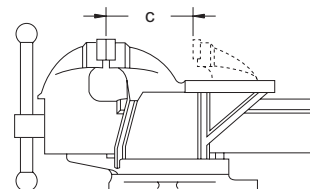
Example: Ex902-100A

or

Ex902-100B

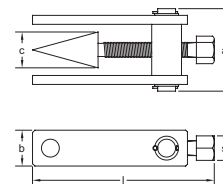
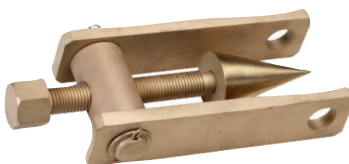
## SPECIAL TOOLS

### Ex902 Parallel Vise



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

### Ex1102 Flange Spreader

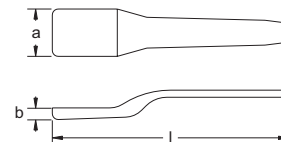


| No.       | a<br>inch | b<br>inch | c<br>inch | s<br>inch | l<br>inch | Wt.<br>lbs. | a<br>mm | b<br>mm | c<br>mm | s<br>mm | l<br>mm | kg   |
|-----------|-----------|-----------|-----------|-----------|-----------|-------------|---------|---------|---------|---------|---------|------|
| Ex1102-60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

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## Ex308A Caulking Tool



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

## Ex1601 Ruler



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

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When ordering, specify:

**A** = Aluminum Bronze

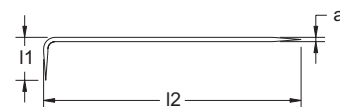
**B** = Copper Beryllium

Example: Ex302-3A

or

Ex302-3B

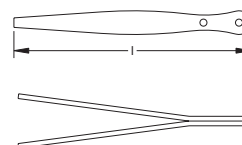
## Ex302 Scriber / Marking Tool



| No.     | a<br>inch | l <sub>1</sub><br>inch | l <sub>2</sub><br>inch | Wt.<br>lbs. | a<br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>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

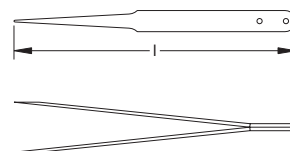
*Copper Beryllium (CuBe) only*



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

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# 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      |

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

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## 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      |

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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    |

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## 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      |

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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            |

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

ATEX Directive 2014/34/EU 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.

## 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 .

| ATEX                                                                                            |     | II                                                                                                                 | 2G                                    | Ex                                        | h                                                                                                                                                                                                                                                             | IIC                                       | T6                             | Gb                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|-----------------------------|
| Marking according to the directive 2014/34/EU                                                                                                                                    |     | Equipment Group                                                                                                    | Category                              | Norm                                      | Non-electrical equipment                                                                                                                                                                                                                                      | Explosion Group                           | Temperature Class              | Equipment Protection Level  |
| Equipment Group I (mining)                                                                                                                                                       |     |                                                                                                                    | Equipment Group II (surface industry) |                                           |                                                                                                                                                                                                                                                               |                                           |                                |                             |
| Category M1                                                                                                                                                                      |     | Category M2                                                                                                        |                                       | Category 1G                               |                                                                                                                                                                                                                                                               | Category 2G                               |                                | Category 3G                 |
| very high safety level, in the event of two independent incidents                                                                                                                |     | high safety level                                                                                                  |                                       | safe, also in the event of rare incidents |                                                                                                                                                                                                                                                               | safe, also in the event of rare incidents |                                | safe in normal operation    |
| Equipment Protection Level                                                                                                                                                       |     |                                                                                                                    |                                       |                                           |                                                                                                                                                                                                                                                               |                                           |                                |                             |
| Ma                                                                                                                                                                               |     | Mb                                                                                                                 |                                       | Ga                                        |                                                                                                                                                                                                                                                               | Gb                                        |                                | Gc                          |
| Permissible Ex Zone (0=constantly, 1=sometimes, 2=infrequently)                                                                                                                  |     |                                                                                                                    |                                       |                                           |                                                                                                                                                                                                                                                               |                                           |                                |                             |
|                                                                                                                                                                                  |     |                                                                                                                    | 0                                     | 1                                         | 2                                                                                                                                                                                                                                                             | 1                                         | 2                              | 2                           |
| Gases and Vapors                                                                                                                                                                 |     |                                                                                                                    |                                       |                                           |                                                                                                                                                                                                                                                               |                                           |                                |                             |
| Explosion Groups                                                                                                                                                                 |     |                                                                                                                    |                                       |                                           | Temperature Classes                                                                                                                                                                                                                                           |                                           |                                |                             |
| IIA                                                                                                                                                                              |     | IIB                                                                                                                |                                       | IIC                                       | Ignition Temperature                                                                                                                                                                                                                                          | Temperature Class                         | Max. Permissible Surface Temp. | Permissible Equipment Group |
| Acetone, Ammonia Benzol - pure, Acetic acid, Ethane, Ethyl acetate, Ethyl chloride, Carbon monoxide, Methane, Methanol, Methylene chloride, Naphthalene, Phenol, Propane, Toluol |     | Illuminating gas<br>Composition:<br>e.g. Hydrogen (51%)<br>Methane (21%)<br>Nitrogen (15%)<br>Carbon monoxide (9%) |                                       | Hydrogen                                  | >450°C                                                                                                                                                                                                                                                        | T1                                        | 450°C                          | T1 to T6                    |
| Ethyl alcohol, i-Amyl acetate, n-Butane, n-Butyl alcohol, Cyclohexane, Acetic anhydride                                                                                          |     | Ethylene, Ethylene oxide                                                                                           |                                       | Ethine (Acetylene)                        | > 300°C to < 450°C                                                                                                                                                                                                                                            | T2                                        | 300°C                          | T2 to T6                    |
| Petrol - general, diesel fuel, jet fuel, heating oil DIN 51603, n-Hexane                                                                                                         |     | Ethylene glycol, Hydrogen sulphide                                                                                 |                                       |                                           | > 200°C to < 300°C                                                                                                                                                                                                                                            | T3                                        | 200°C                          | T3 to T6                    |
| Acetaldehyde                                                                                                                                                                     |     | Ethyl ether                                                                                                        |                                       |                                           | > 135°C to < 200°C                                                                                                                                                                                                                                            | T4                                        | 135°C                          | T4 to T6                    |
|                                                                                                                                                                                  |     |                                                                                                                    |                                       |                                           | > 100°C to < 135°C                                                                                                                                                                                                                                            | T5                                        | 100°C                          | T5 to T6                    |
|                                                                                                                                                                                  |     |                                                                                                                    |                                       | Sulphide of carbon                        | > 85°C to < 100°C                                                                                                                                                                                                                                             | T6                                        | 85°C                           | T6 only                     |
| Permissible Equipment Groups                                                                                                                                                     |     |                                                                                                                    |                                       |                                           | <b>Example:</b> Tool with II 2G Ex h IIB T4 Gb can be used in all Zone 1 and 2 areas with IIA and IIB - T1/T2/T3/T4. Tool with II 2G Ex h IIC T6 Gb can be used in all Zone 1 and 2 areas (IIC T6 is the highest classification).<br><i>Subject to change</i> |                                           |                                |                             |
| IIA                                                                                                                                                                              | IIB | IIC                                                                                                                | IIB                                   | IIC                                       | Only IIC                                                                                                                                                                                                                                                      |                                           |                                |                             |

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

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



### Axial Fans: Pneumatic and Electric

| Model No.   | Power Type | Description                                        | ATEX Classification |
|-------------|------------|----------------------------------------------------|---------------------|
| 8 1020 0870 | Electric   | Axial Fan, 12" Dia., 230 Volt, 50 Hz, Single Phase | II2GExhIIBT3Gb      |
| 8 1531 0300 | Pneumatic  | Axial Fan, 12" Dia.                                | II2GExhIIBT6Gb      |
| 8 1533 0300 | Pneumatic  | Axial Fan, 20" Dia.                                | II2GExhIIBT6Gb      |
| 8 1534 0300 | Pneumatic  | Axial Fan, 24" Dia.                                | II2GExhIIBT6Gb      |
| 8 1611 0300 | Pneumatic  | Axial Fan, 12" Dia.                                | II2GExhIIBT6Gb      |
| 8 1616 0010 | Pneumatic  | Axial Fan, 5" Dia.                                 | II2GExhIIBT6Gb      |
| 8 1620 0010 | Pneumatic  | Air Mover, 7"                                      | II2GExhIIBT6Gb      |



### Band Saws: Pneumatic and Hydraulic

| Model No.   | Power Type | Description                                      | ATEX Classification |
|-------------|------------|--------------------------------------------------|---------------------|
| 5 6030 0010 | Pneumatic  | Band Saw, 4" x 4" Cutting, Stainless Steel Frame | IM2ExhIMbT6         |
| 5 6032 0010 | Pneumatic  | Band Saw, 4" x 7" Cutting, Stainless Steel Frame | IM2ExhIMbT6         |
| 5 6041 0010 | Hydraulic  | Band Saw, 7" x 7" Cutting                        | II2GExhIIBT6Gb      |
| 5 6043 0010 | Hydraulic  | Band Saw, 4-3/4" Cutting                         | II2GExhIIBT6Gb      |
| 5 6054 0010 | Hydraulic  | Band Saw, 9" W x 8" D Cutting                    | II2GExhIIBT6Gb      |
| 5 6062 0010 | Pneumatic  | Band Saw, 9" W x 8" D Cutting                    | IM2ExhIMbT6         |
| 5 6093 0010 | Pneumatic  | Band Saw, 4-3/4" Cutting with table              | II2GExhIIBT6Gb      |
| 5 6093 0100 | Pneumatic  | Band Saw, 4-3/4" Cutting                         | II2GExhIIBT6Gb      |



### Chain Saws: Pneumatic

| Model No.   | Power Type | Description                            | ATEX Classification |
|-------------|------------|----------------------------------------|---------------------|
| 5 1026 0010 | Pneumatic  | Chain Saw, Aluminum Housing with Brake | II2GExhIIBT5Gb      |
| 5 1027 0010 | Pneumatic  | Chain Saw, For Plastic with Brake      | II2GExhIIBT5Gb      |
| 5 1028 0010 | Pneumatic  | Underwater Chain Saw, with Brake       | II2GExhIIBT5Gb      |
| 5 1029 0010 | Pneumatic  | Chain Saw, with Chain Brake            | IM2ExhIMbT5         |



### Core Drills: Pneumatic and Hydraulic

| Model No.   | Power Type | Description                         | ATEX Classification |
|-------------|------------|-------------------------------------|---------------------|
| 2 1317 0030 | Hydraulic  | Core Drill, 3.6 HP                  | II2GExhIIBT5Gb      |
| 2 1327 0010 | Hydraulic  | Core Drill, 4.2 HP                  | II2GExhIIBT5Gb      |
| 2 1328 0050 | Pneumatic  | Core Drill, 3.8 HP                  | II2GExhIIBT6Gb      |
| 2 1333 0010 | Pneumatic  | Core Drill, 2.1 HP                  | II2GExhIIBT6Gb      |
| 2 1335 0010 | Pneumatic  | Core Drill, 3.8 HP                  | II2GExhIIBT6Gb      |
| 2 1336 0010 | Pneumatic  | Core Drill, 3.75 HP                 | IM2ExhIMbT6         |
| 2 1353 0010 | Pneumatic  | Core Drill, up to 82mm, 160mm w/rig | II2GExhIIBT6Gb      |
| 2 1355 0010 | Pneumatic  | Core Drill, up to 82mm, 160mm w/rig | II2GExhIIBT6Gb      |

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



### Corner Drills: Pneumatic

| Model No.   | Power Type | Description                      | ATEX Classification |
|-------------|------------|----------------------------------|---------------------|
| 2 1701 0030 | Pneumatic  | Corner Drill, MT2, Roll Throttle | IM2ExhIMbT6         |
| 2 1801 0030 | Pneumatic  | Corner Drill, MT3, Roll Throttle | IM2ExhIMbT6         |



### Drills & Drive Units: Pneumatic

| Model No.   | Power Type | Description                                                             | ATEX Classification         |
|-------------|------------|-------------------------------------------------------------------------|-----------------------------|
| 2 1260 0010 | Pneumatic  | Drill, 3/8", Pistol Grip                                                | IM2ExhIMb<br>II2GExhIIBT6Gb |
| 2 1261 0010 | Pneumatic  | Drill, 1/2", Pistol Grip                                                | IM2ExhIMb<br>II2GExhIIBT6Gb |
| 2 1266 0010 | Pneumatic  | Drill, 1/2", Pistol Grip                                                | II2GExhIIBT6Gb              |
| 2 1267 0010 | Pneumatic  | Drill, 3/8", Pistol Grip, for underwater use                            | II2GExhIIBT6Gb              |
| 2 1268 0010 | Pneumatic  | Drill, 13mm, Pistol Grip                                                | II2GExhIIBT6Gb              |
| 2 1310 0010 | Pneumatic  | Drill, 1/2" Geared Chuck & Key, D-Handle                                | IM2ExhIMbT6                 |
| 2 1310 0020 | Pneumatic  | Drill, 1/2", Quick Chuck, D-Handle                                      | IM2ExhIMbT6                 |
| 2 1311 0010 | Pneumatic  | Drill, MT1, D-Handle                                                    | IM2ExhIMbT6                 |
| 2 1362 0010 | Pneumatic  | Pistol Drill, up to 13mm, reversible                                    | II2GExhIIBT5Gb              |
| 2 2081 0010 | Pneumatic  | Drive Unit, 13/16" sq. dr.                                              | II2GExhIIBT6Gb              |
| 2 2082 0010 | Pneumatic  | Drill, MT3 Lever Throttle, 1.7 HP, 20 RPM                               | II2GExhIIBT6Gb              |
| 2 2085 0010 | Pneumatic  | Drill, MT2 Lever Throttle, 1.7 HP                                       | II2GExhIIBT6Gb              |
| 2 2087 0010 | Pneumatic  | Drive Unit, 7/8" sq. dr., reversible, lever throttle                    | II2GExhIIBT6Gb              |
| 2 2087 0030 | Pneumatic  | Drive Unit, 7/8" sq. dr., reversible, twist throttle                    | II2GExhIIBT6Gb              |
| 2 2088 0010 | Pneumatic  | Drive Unit, 7/8" sq. dr., reversible, lever throttle                    | II2GExhIIBT6Gb              |
| 2 2088 0030 | Pneumatic  | Drive Unit, 7/8" sq. dr., reversible, twist throttle                    | II2GExhIIBT6Gb              |
| 2 2089 0010 | Pneumatic  | Drill, MT3 Lever Throttle, 1-1/4" in steel, reversible, 250 RPM, 1.7 HP | II2GExhIIBT6Gb              |
| 2 2089 0030 | Pneumatic  | Drill, MT3 Twist Throttle, 1-1/4" in steel, reversible, 250 RPM, 1.7 HP | II2GExhIIBT6Gb              |
| 2 2502 0010 | Pneumatic  | Drill, MT4 Lever Throttle, 2" in steel                                  | II2GExhIIBT6Gb              |
| 2 2502 0030 | Pneumatic  | Drill, MT4 Twist Throttle, 2" in steel                                  | II2GExhIIBT6Gb              |
| 2 2506 0010 | Pneumatic  | Drill, MT3 Lever Throttle, 1-1/4" in steel                              | II2GExhIIBT6Gb              |
| 2 2506 0030 | Pneumatic  | Drill, MT3 Twist Throttle, 1-1/4" in steel                              | II2GExhIIBT6Gb              |
| 2 2804 0010 | Pneumatic  | Drive Unit, 1-1/8" female sq. dr.                                       | II2GExhIIBT6Gb              |



### Dry Cut Saws: Pneumatic and Hydraulic

| Model No.     | Power Type | Description                | ATEX Classification |
|---------------|------------|----------------------------|---------------------|
| 5 1115 0020 N | Pneumatic  | Circular Saw, 9" Dia.      | II2GExhIIBT5Gb      |
| 5 1127 0010   | Hydraulic  | Circular Saw, 12-5/8" Dia. | II3GExhIIBT5Gc      |
| 5 1128 0010   | Hydraulic  | Circular Saw, 7-1/2" Dia.  | II2GExhIIBT5Gb      |



### Hacksaws: Pneumatic and Hydraulic

| Model No.    | Power Type | Description                                                            | ATEX Classification |
|--------------|------------|------------------------------------------------------------------------|---------------------|
| 5 1212 0050A | Pneumatic  | Hacksaw, Lever Throttle                                                | II2GExhIIBT5Gb      |
| 5 1213 0010  | Hydraulic  | Hacksaw, Roll Throttle, ZAMAK                                          | IM2ExhIMbT5         |
| 5 1213 9500  | Accessory  | Magnetic Clamping Device for Hacksaw                                   |                     |
| 5 1220 0050  | Hydraulic  | Hacksaw, Lever Throttle                                                | II2GExhIIBT5Gb      |
| 5 1230 0050  | Hydraulic  | Hacksaw, Lever Throttle, for Nuclear/Underwater w/fully-sealed gearbox | II2GExhIIBT5Gb      |

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

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

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## Impact Wrenches: Pneumatic and Hydraulic

| Model No.   | Power Type | Description                                            | ATEX Classification |
|-------------|------------|--------------------------------------------------------|---------------------|
| 6 1034 0010 | Pneumatic  | Impact Wrench, 1/2", 450 ft-lbs Torque                 | II2GExhIIBT6Gb      |
| 6 1312 0010 | Pneumatic  | Impact Wrench, 3/4", 1327 ft-lbs Torque                | IM2ExhIMbT6         |
| 6 1313 0010 | Pneumatic  | Impact Wrench, 3/4"                                    | II2GExhIIBT6Gb      |
| 6 1316 0010 | Pneumatic  | Impact Wrench, 1", 995 ft-lbs Torque                   | IM2ExhIMbT6         |
| 6 1316 0020 | Pneumatic  | Impact Wrench, 3/4", 995 ft-lbs Torque                 | IM2ExhIMbT6         |
| 6 1316 0040 | Pneumatic  | Impact Wrench, 1", 995 ft-lbs Torque                   | II2GExhIIBT6Gb      |
| 6 1316 0050 | Pneumatic  | Impact Wrench, 3/4", 995 ft-lbs Torque                 | II2GExhIIBT6Gb      |
| 6 1316 0060 | Pneumatic  | Impact Wrench, 1", 995 ft-lbs Torque, underwater use   | II2GExhIIBT6Gb      |
| 6 1316 0070 | Pneumatic  | Impact Wrench, 3/4", 995 ft-lbs Torque, underwater use | II2GExhIIBT6Gb      |
| 6 1410 0010 | Pneumatic  | Impact Wrench, 1", 1620 ft-lbs Torque                  | II2GExhIIBT6Gb      |
| 6 1411 0010 | Pneumatic  | Impact Wrench, 1", 1620 ft-lbs Torque                  | IM2ExhIMbT6         |
| 6 1412 0010 | Pneumatic  | Impact Wrench, 1", 1364 ft-lbs Torque                  | IM2ExhIMbT6         |
| 6 1417 0040 | Pneumatic  | Impact Wrench, 1-1/2", 3240 ft-lbs Torque              | II2GExhIIBT6Gb      |
| 6 1430 0010 | Pneumatic  | Impact Wrench, 1", 1900 ft-lbs Torque                  | IM2ExhIMbT6         |
| 6 1514 0010 | Hydraulic  | Impact Wrench, 1", 1220 ft-lbs Torque                  | II2GExhIIBT5Gb      |
| 6 1515 0010 | Hydraulic  | Impact Wrench, 3/4", 1220 ft-lbs Torque                | II2GExhIIBT5Gb      |
| 6 1517 0010 | Hydraulic  | Impact Wrench, 1"                                      | IM2ExhIMbT5         |
| 6 1520 0010 | Hydraulic  | Impact Wrench, 1", 1840 ft-lbs Torque                  | II2GExhIIBT5Gb      |



## Magnetic Drills: Pneumatic and Hydraulic

| Model No.   | Power Type | Description                                                | ATEX Classification |
|-------------|------------|------------------------------------------------------------|---------------------|
| AB-4300-2   | Pneumatic  | Mag Drill, 2-1/16" dia.                                    | II2GExhIIBT6Gb      |
| AB-4300-2R  | Pneumatic  | Mag Drill, 2-1/16" dia., with extra rack for longer stroke | II2GExhIIBT6Gb      |
| 2 1345 0010 | Hydraulic  | Mag Drill, 4" dia., 1-1/4" dia. tapping                    | II2GExhIIT5Gb       |
| 2 1345 0020 | Hydraulic  | Mag Drill, 4" dia. with wide base, 1-1/4" dia. tapping     | II2GExhIIT5Gb       |



## Mixers: Pneumatic

| Model No.   | Power Type | Description                              | ATEX Classification |
|-------------|------------|------------------------------------------|---------------------|
| 7 1114 0010 | Pneumatic  | Mixer, Roll Throttle, 0-440 RPM, 1.5 HP  | IM2ExhIMbT6         |
| 7 1114 0020 | Pneumatic  | Mixer, Lever Throttle, 0-440 RPM, 1.5 HP | IM2ExhIMbT6         |



## Nut Runners: Pneumatic and Hydraulic

| Model No.   | Power Type | Description                                | ATEX Classification |
|-------------|------------|--------------------------------------------|---------------------|
| 3 6242 0010 | Hydraulic  | Hydraulic Nut Runner, 3/4" female sq. dr.  | II2GExhIIBT4Gb      |
| 3 6243 0010 | Hydraulic  | Hydraulic Nut Runner, 20mm male sq. dr.    | II2GExhIIBT4Gb      |
| 6 1014 0010 | Pneumatic  | Nut Runner, 1/2" Sq. Drive, 180 RPM        | IM2ExhIMbT6         |
| 6 1014 0050 | Pneumatic  | Nut Runner, 3/4" female Sq. Drive, 100 RPM | IM2ExhIMbT6         |
| 6 1055 0010 | Pneumatic  | Nut Runner, 3/4" Sq. Drive, 22 RPM         | IM2ExhIMbT6         |
| 6 1056 0010 | Pneumatic  | Nut Runner, 3/4" Sq. Drive, 120 RPM        | IM2ExhIMbT6         |
| 6 1057 0010 | Pneumatic  | Nut Runner, 3/4" Sq. Drive, 125 RPM        | IM2ExhIMbT6         |
| 6 1061 0010 | Pneumatic  | Nut Runner, 7/8" Sq. Drive, 22 RPM         | IM2ExhIMbT6         |

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



### Pipe Cutting Machines: Hydraulic & Pneumatic

| Model No.   | Power Type | Description                     | ATEX Classification |
|-------------|------------|---------------------------------|---------------------|
| 5 8002 7000 | Pneumatic  | Pipe Cutting Drive Unit, 2.4 HP | II2GExhIIBT6Gb      |
| 5 8006 7000 | Hydraulic  | Pipe Cutting Drive Unit, 4 HP   | II2GExhIIBT6Gb      |
| 5 8010 0050 | Pneumatic  | Pipe Cutting Drive Unit, 4 HP   | II2GExhIIBT6Gb      |



### Reciprocating Saws: Hydraulic and Pneumatic

| Model No.   | Power Type | Description               | ATEX Classification |
|-------------|------------|---------------------------|---------------------|
| 5 1217 0020 | Pneumatic  | Reciprocating Saw, 1.3 HP | II2GExhIIBT5Gb      |
| 5 1219 0010 | Hydraulic  | Reciprocating Saw         | II2GExhIIBT5Gb      |
| CL50        | Pneumatic  | Reciprocating Saw, 1 HP   | II2GExhIICT2Gb      |
| CL75        | Pneumatic  | Reciprocating Saw, 1 HP   | II2GExhIICT3Gb      |
| JP901       | Pneumatic  | Reciprocating Saw, 1 HP   | II2GExhIICT3Gb      |
| PL905       | Pneumatic  | Reciprocating Saw, 1 HP   | II2GExhIICT2Gb      |



### Rotary Hammer Drills: Hydraulic and Pneumatic

| Model No.   | Power Type | Description                                | ATEX Classification |
|-------------|------------|--------------------------------------------|---------------------|
| 2 2404 0010 | Pneumatic  | 1" dia., SDS Plus, 0-3000 Blows per Minute | II2GExhIIBT6Gb      |
| 2 2408 0010 | Pneumatic  | 1" dia., SDS Plus, For Underground Mining  | IM2ExhIMbT6         |
| 2 2417 0010 | Pneumatic  | 2" dia., SDS Max                           | II2GExhIIBT6Gb      |
| 2 2418 0010 | Hydraulic  | 2" dia., SDS Max                           | II2GExhIIBT5Gb      |
| 2 2426 0010 | Hydraulic  | 1" dia., SDS Plus                          | II2GExhIIBT5Gb      |



### Tools for Hydrogen Processing: Pneumatic

See p. 92-95

| Model No.   | Power Type | Description                                                   | ATEX Classification |
|-------------|------------|---------------------------------------------------------------|---------------------|
| 2 1362 001C | Pneumatic  | Drill, up to 1/2", reversible                                 | II2GExhIICT5Gb      |
| 2 2404 001C | Pneumatic  | 1" dia., SDS Plus, 0-3000 Blows per Minute                    | II2GExhIICT6Gb      |
| 2 2080 001C | Pneumatic  | Drill, 3/4" chuck with safety lever valve                     | II2GExhIICT6Gb      |
| 6 1034 001C | Pneumatic  | Impact Wrench, 1/2" square drive, 3/4" (M20) max. bolt size   | II2GExhIICT6Gb      |
| 6 1316 005C | Pneumatic  | Impact Wrench, 1/2" square drive, 1-1/8" (M30) max. bolt size | II2GExhIICT6Gb      |
| 6 1316 004C | Pneumatic  | Impact Wrench, 3/4" square drive, 1-1/8" (M30) max. bolt size | II2GExhIICT6Gb      |
| 6 1410 001C | Pneumatic  | Impact Wrench, 1" square drive, 1-3/8" (M36) max. bolt size   | II2GExhIICT6Gb      |
| 3 6212 005C | Pneumatic  | Nut Runner, 3/4" female square drive, 35 RPM                  | II2GExhIICT6Gb      |
| 6 1014 005C | Pneumatic  | Nut Runner, 3/4" female square drive, 100 RPM                 | II2GExhIICT6Gb      |
| 6 1055 001C | Pneumatic  | Nut Runner, 3/4" female square drive, 22 RPM                  | II2GExhIICT6Gb      |
| 6 1056 001C | Pneumatic  | Nut Runner, 3/4" female square drive, 67 RPM                  | II2GExhIICT6Gb      |
| 6 1057 001C | Pneumatic  | Nut Runner, 3/4" female square drive, 125 RPM                 | II2GExhIICT6Gb      |
| 6 1061 001C | Pneumatic  | Nut Runner, 7/8" female square drive, 22 RPM                  | II2GExhIICT6Gb      |

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

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

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## Surface Preparation Tools: Pneumatic

| Model No. | Power Type | Description                                                         | ATEX Classification                                                    |
|-----------|------------|---------------------------------------------------------------------|------------------------------------------------------------------------|
| 139.2403  | Pneumatic  | VL203Ex Pistol Needle Scaler Kit                                    | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |
| 139.2423  | Pneumatic  | VL223Ex Inline Needle Scaler Kit                                    | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |
| 139.2433  | Pneumatic  | VL303Ex Pistol Needle Scaler Kit                                    | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |
| 151.5110  | Pneumatic  | SF1 Single Head Scaling Hammer, CuBe Cruciform Head                 | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |
| 153.5310  | Pneumatic  | SF3 Triple Head Scaling Hammer, CuBe Cruciform Head                 | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |
| 159.5930  | Pneumatic  | SF11 Steel Deck Hammer, CuBe Cruciform Heads                        | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |
| 196.2107  | Pneumatic  | VL223Ex Inline Needle Scaler, 19 Needles                            | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |
| 196.2117  | Pneumatic  | VL223Ex Inline Chisel Scaler, 2" (50mm) AlBr Chisel                 | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |
| 196.2207  | Pneumatic  | VL203Ex Pistol Needle Scaler, 19 Needles                            | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |
| 196.2217  | Pneumatic  | VL203Ex Pistol Chisel Scaler, 2" (50mm) AlBr Chisel                 | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |
| 196.3007  | Pneumatic  | VL303Ex Pistol Needle Scaler, 28 Needles                            | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |
| 196.3017  | Pneumatic  | VL303Ex Pistol Chisel Scaler, 2" (50mm) AlBr Chisel                 | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |
| 196.5110  | Pneumatic  | VLSF1 Low-Vibration Single Head Scaling Hammer, CuBe Cruciform Head | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |
| 199.2203  | Pneumatic  | VL203Ex Pistol Chisel Scaler                                        | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |
| 199.3203  | Pneumatic  | VL303 Pistol Chisel Scaler                                          | EX II 2 G EX H IIC T4 GB (Gas)<br>EX II 2 D EX H IIIC T135°C DB (Dust) |

## Tools for Hydrogen Processing: Pneumatic

See p. 92-95



| Model No.   | Power Type | Description                                                 | ATEX Classification |
|-------------|------------|-------------------------------------------------------------|---------------------|
| 8 1634 001C | Pneumatic  | Air Mover, stainless steel, up to 763 CFM flow at 90 PSI    | II2GExhIICT6Gb      |
| 8 1636 001C | Pneumatic  | Air Mover, stainless steel, up to 968 CFM flow at 90 PSI    | II2GExhIICT6Gb      |
| 8 1638 001C | Pneumatic  | Air Mover, stainless steel, up to 1854 CFM flow at 90 PSI   | II2GExhIICT6Gb      |
| 8 1640 001C | Pneumatic  | Air Mover, stainless steel, up to 2084 CFM flow at 90 PSI   | II2GExhIICT6Gb      |
| 8 1642 001C | Pneumatic  | Air Mover, stainless steel, up to 2878 CFM flow at 90 PSI   | II2GExhIICT6Gb      |
| 8 1644 001C | Pneumatic  | Air Mover, stainless steel, up to 2949 CFM flow at 90 PSI   | II2GExhIICT6Gb      |
| 5 6031 001C | Pneumatic  | Band Saw, 7"x7" square, 7" dia. max. cutting capacity       | II2GExhIICT6Gb      |
| 5 1217 001C | Pneumatic  | Reciprocating Saw, 6" dia. steel pipe, 8" dia. plastic pipe | II2GExhIICT6Gb      |
| 5 1212 001C | Pneumatic  | Hacksaw, Roll Throttle                                      | II2GExhIICT5Gb      |
| 5 1212 005C | Pneumatic  | Hacksaw, Lever Throttle                                     | II2GExhIICT5Gb      |
| 5 8022 005C | Pneumatic  | Pipe Cutting Machine, up to 96" dia.                        | II2GExhIICT6Gb      |

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

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# ATEX-Certified Needle and Chisel Scalars

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

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

- Fully certified to the classification: Ex II 2 G Ex h IIC T4 Gb (GAS) and Ex II 2 D Ex h IIC T135 °C Db (DUST) 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.

**ATEX Certified**

**For use in hazardous environments and ATEX and Ex Zones. See page 82 for classifications.**



**Vibro-Lo™ technology operates with 8x less vibration than standard models.**



VL223Ex Needle



VL203Ex Needle



VL303Ex Chisel



| Grip              | Description               | Model Number    | Needle/Chisel Supplied | Tool Weight (lbs.) | Blows per minute | CFM @ 90 PSI | Noise Level dB(A) | Vibration Levels m/s <sup>2</sup> | Service Kit Part No. |
|-------------------|---------------------------|-----------------|------------------------|--------------------|------------------|--------------|-------------------|-----------------------------------|----------------------|
| <b>Inline</b><br> | VL223Ex Needle Scaler     | <b>196.2107</b> | 19 qty. / 3mm dia.     | 5.25               | 2400             | 4.0          | 90.7              | 2.56                              | 446.2003X            |
|                   | VL223Ex Chisel Scaler     | <b>196.2117</b> | 2" (50mm) AlBr         | 6.5                | 2400             | 4.0          | 90.7              | 3.69                              | 446.2203X            |
|                   | VL223Ex Needle Scaler Kit | <b>139.2423</b> | 19 qty. / 3mm dia.     | 5.25               | 2400             | 4.0          | 90.7              | 2.56                              | 446.2003X            |
| <b>Pistol</b><br> | VL203Ex Needle Scaler     | <b>196.2207</b> | 19 qty. / 3mm dia.     | 6                  | 2400             | 4.0          | 90.7              | 2.75                              | 446.2003X            |
|                   | VL203Ex Chisel Scaler     | <b>196.2217</b> | 2" (50mm) AlBr         | 7                  | 2400             | 4.0          | 90.7              | 3.33                              | 446.2203X            |
|                   | VL203Ex Needle Scaler Kit | <b>139.2403</b> | 19 qty. / 3mm dia.     | 6                  | 2400             | 4.0          | 90.7              | 2.75                              | 446.2003X            |
|                   | VL303Ex Needle Scaler     | <b>196.3007</b> | 28 qty. / 3mm dia.     | 7.75               | 3000             | 5.0          | 109.5             | 2.3                               | 446.3003X            |
|                   | VL303Ex Chisel Scaler     | <b>196.3017</b> | 2" (50mm) AlBr         | 9.4                | 3000             | 5.0          | 109.5             | 3.7                               | 446.3303X            |
|                   | VL303Ex Needle Scaler Kit | <b>139.2433</b> | 28 qty. / 3mm dia.     | 7.75               | 3000             | 5.0          | 109.5             | 2.3                               | 446.3003X            |

Aluminum bronze chisel supplied with chisel scaler, p/n 704.3110. Copper beryllium chisel-tip needles supplied with needle scalars, box of 19 (p/n 403.1319), box of 28 (p/n 403.1328).

## ATEX Kit Features



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



**Dust shroud** to protect user from hazardous dust and debris (standard in kits only)



**Fall arrestor** eliminates the risk of dropping the tool causing injury or equipment damage (standard in kits only)



**Needle Scaler Kits** include ATEX-Certified needle scaler, extra set of Copper Beryllium needles, dust shroud, corner cuff, edge cuff, flat cuff and fall arrestor.



139.2423



139.2403



139.2433



**Optional Accessory**

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

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

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**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

**For use in hazardous environments and ATEX and Ex Zones. See page 82 for classifications.**

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



**ATEX**



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

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## Pneumatic Impact Wrenches

| Order No.           | Description         | Max. Bolt Size | Tightening Torque (Hard) | Weight    | Motor Specifications |
|---------------------|---------------------|----------------|--------------------------|-----------|----------------------|
| <b>6 1034 0010</b>  | 1/2" Square Drive   | 3/4" (M 20)    | 450 ft.-lbs.             | 5.5 lbs.  |                      |
| <b>6 1316 0050</b>  | 3/4" Square Drive   | 1-1/8" (M 30)  | 995 ft.-lbs.             | 12.3 lbs. | 50CFM @ 90 PSI       |
| <b>6 1316 0070*</b> | 3/4" Square Drive   | 1-1/8" (M 30)  | 995 ft.-lbs.             | 12.3 lbs. | 50CFM @ 90 PSI       |
| <b>6 1316 0040</b>  | 1" Square Drive     | 1-1/8" (M 30)  | 995 ft.-lbs.             | 12.6 lbs. | 50CFM @ 90 PSI       |
| <b>6 1316 0060*</b> | 1" Square Drive     | 1-1/8" (M 30)  | 995 ft.-lbs.             | 12.6 lbs. | 50CFM @ 90 PSI       |
| <b>6 1410 0010</b>  | 1" Square Drive     | 1-3/8" (M 36)  | 1620 ft.-lbs.            | 24.3 lbs. | 57CFM @ 90 PSI       |
| <b>6 1417 0040</b>  | 1-1/2" Square Drive | 2-1/8" (M 56)  | 3240 ft.-lbs.            | 26.9 lbs. | 57CFM @ 90 PSI       |

\*Subsea models for underwater use

## Hydraulic Impact Wrenches

| Order No.           | Description       | Max. Bolt Size | Tightening Torque (Hard) | Weight    | Motor Specifications    |
|---------------------|-------------------|----------------|--------------------------|-----------|-------------------------|
| <b>6 1515 0010*</b> | 3/4" Square Drive | 1" (M 27)      | 1220 ft.-lbs.            | 18.1 lbs. | up to 10 GPM @ 2000 PSI |
| <b>6 1520 0010*</b> | 1" Square Drive   | 1-3/8" (M 36)  | 1840 ft.-lbs.            | 25.0 lbs. | up to 10 GPM @ 2000 PSI |

\*Subsea models for underwater use

**ATEX**



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

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

**See page 82 for information on ATEX**



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

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

**ATEX**



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



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

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

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# 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.



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



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

**Explosion-Proof**  
Axial Fans,  
Air and Electric,  
12" to 24" dia.



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



## Explosion-Proof Pneumatic Axial Fans and Air Movers

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

## Explosion-Proof Electric Axial Fans

| Order No.          | Description | Dia. | Power                    | Volume Output | Weight lbs. | dBA |
|--------------------|-------------|------|--------------------------|---------------|-------------|-----|
| <b>8 1020 0140</b> | Axial Fan   | 12"  | 230/400 V 50 Hz 3-phase  | 2118 cfm      | 44          | 86  |
| <b>8 1020 0870</b> | Axial Fan   | 12"  | 230 V 50 Hz single phase | 2118 cfm      | 45          | 85  |

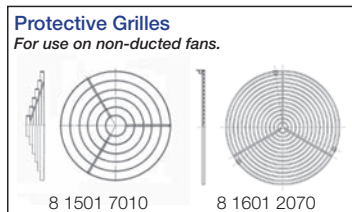


**8 1620 0010**  
Pneumatic Air Mover, 7" dia.  
2366 cfm output @ 90 psi



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

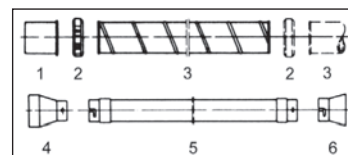
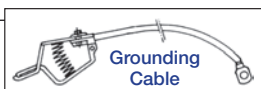
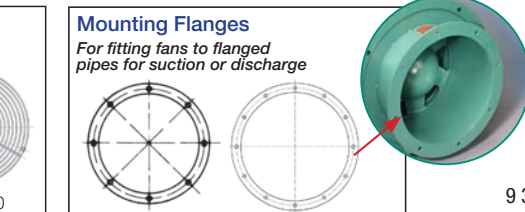
## Optional Accessories



- 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)

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

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

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# SPECIAL TOOLS FOR HYDROGEN GENERATION APPLICATIONS

Pneumatic power tools used in and around highly flammable applications such as hydrogen generation and storage facilities.



See page 44-49  
for non-sparking  
impact sockets

## High-Torque 4-Speed Reversible Drill - Pneumatic

- 1/2" square drive for bolts up to 3/4"
- 4-speed, reversible
- Operating pressure: 90 PSI

| Order No.          | ATEX Specification | Drill chuck max. dia. | Drilling capacity dia. in steel | Speed (free)   | Power | Air consumption | Noise level LpA | Vibration level  | Weight |
|--------------------|--------------------|-----------------------|---------------------------------|----------------|-------|-----------------|-----------------|------------------|--------|
|                    |                    | in.                   | in.                             | rpm            | HP    | CFM             | dB(A)           | m/s <sup>2</sup> | lbs.   |
| <b>2 1362 001C</b> | II2GExhIICT5Gb     | 0.5                   | 1.18                            | 50/650/<br>850 | 1.3   | 40              | 84              | <2.5             | 8.2    |

Optional air tool line conditioner to displace moisture, Part No. 9109 (5 liters).

\* Specifications subject to change

Performance data at an operating pressure of 90 PSI.

## SDS Plus Rotary Hammer Drill - Pneumatic

- Hammer drill holes in concrete, brick and masonry
- Rotary operation for drilling steel and wood
- Safety clutch protects against overloading and jamming
- Operating pressure: 90 PSI



| Order No.          | ATEX Specification | Tool holder | Drilling capacity dia. in concrete | Speed (free) | Percussion | Power | Air consumption | Noise level LpA | Vibration level  | Weight |
|--------------------|--------------------|-------------|------------------------------------|--------------|------------|-------|-----------------|-----------------|------------------|--------|
|                    |                    |             | in.                                | rpm          | rpm        | HP    | CFM             | dB(A)           | m/s <sup>2</sup> | lbs.   |
| <b>2 2404 001C</b> | II2GExhIICT6Gb     | SDS-plus    | 0.19-1.10                          | 625          | 3,000      | 0.67  | 21              | 93              | 4.5              | 13.9   |

Optional air tool line conditioner to displace moisture, Part No. 9109 (5 liters).

\* Specifications subject to change

Performance data at an operating pressure of 90 PSI.

## High-Torque Slow-Speed Drill with Centering - Pneumatic

- Steplessly adjustable with safety lever valve
- Operating pressure: 90 PSI



| Order No.          | ATEX Specification | Square Drive | Valve type         | Direction of rotation | Max. drilling dia. in steel | Speed under load | Power | Air consumption | Noise level LpA | Vibration level  | Weight |
|--------------------|--------------------|--------------|--------------------|-----------------------|-----------------------------|------------------|-------|-----------------|-----------------|------------------|--------|
|                    |                    |              |                    |                       | in.                         | rpm              | HP    | CFM             | dB(A)           | m/s <sup>2</sup> | lbs.   |
| <b>2 2080 001C</b> | II2GExhIICT6Gb     | 3/4"         | Safety lever valve | right                 | 1.26                        | 20               | 1.3   | 46              | 92.0            | 3.3              | 28.7   |

Optional air tool line conditioner to displace moisture, Part No. 9109 (5 liters).

\* Specifications subject to change

Performance data at an operating pressure of 90 PSI.

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

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# SPECIAL TOOLS FOR HYDROGEN GENERATION APPLICATIONS

## Lightweight, High-Torque Impact Wrench - Pneumatic

- 1/2" square drive for bolts up to 3/4"
- Operating pressure: 90 PSI



| Order No.          | ATEX Specification | Square drive | for screws up to | Max. Torque** | Air consumption | Distance center to outer edge | Hose ID | Noise level LpA | Vibration level  | Weight |
|--------------------|--------------------|--------------|------------------|---------------|-----------------|-------------------------------|---------|-----------------|------------------|--------|
|                    |                    |              | in.              | ft./lbs.      | CFM             | in.                           | in.     | dB(A)           | m/s <sup>2</sup> | lbs.   |
| <b>6 1034 001C</b> | II2GExhIICT6Gb     | 1/2"         | 3/4"-10          | 449.91        | 11              | 1.87                          | .39     | 90              | 2.6              | 5.5    |

*Optional air tool line conditioner to displace moisture, Part No. 9109 (5 liters).*  
*\* Specifications subject to change    \*\*applied on screw strength class 8.8*  
*Performance data at an operating pressure of 90 PSI.*

**See pages 44-49 for non-sparking impact sockets**

## Compact, High-Torque Impact Wrench - Pneumatic

- For bolts up to 1-1/8"
- Operating pressure: 90 PSI



| Order No.          | ATEX Specification | Square drive | for screws up to | Max. Torque** | Air consumption | Distance center to outer edge | Hose ID | Noise level LpA | Vibration level  | Weight |
|--------------------|--------------------|--------------|------------------|---------------|-----------------|-------------------------------|---------|-----------------|------------------|--------|
|                    |                    |              | in.              | ft./lbs.      | CFM             | in.                           | in.     | dB(A)           | m/s <sup>2</sup> | lbs.   |
| <b>6 1316 005C</b> | II2GExhIICT6Gb     | 3/4"         | 1-1/8"-7         | 995.71        | 49              | 1.77                          | .51     | 96              | 4.5              | 12.3   |
| <b>6 1316 004C</b> | II2GExhIICT6Gb     | 1"           | 1-1/8"-7         | 995.71        | 49              | 1.77                          | .51     | 96              | 4.5              | 12.5   |

*Optional air tool line conditioner to displace moisture, Part No. 9109 (5 liters).*  
*\* Specifications subject to change    \*\*applied on screw strength class 8.8*  
*Performance data at an operating pressure of 90 PSI.*

**See pages 44-49 for non-sparking impact sockets**

## Powerful, High-Torque Impact Wrench with Second Handle - Pneumatic

- For bolts up to 1-1/8"
- Second handle
- Operating pressure: 90 PSI



| Order No.          | ATEX Specification | Square drive | for screws up to | Max. Torque** | Air consumption | Distance center to outer edge | Hose ID | Noise level LpA | Vibration level  | Weight |
|--------------------|--------------------|--------------|------------------|---------------|-----------------|-------------------------------|---------|-----------------|------------------|--------|
|                    |                    |              | in.              | ft./lbs.      | CFM             | in.                           | in.     | dB(A)           | m/s <sup>2</sup> | lbs.   |
| <b>6 1410 001C</b> | II2GExhIICT6Gb     | 1"           | 1-3/8"-6         | 1622.64       | 57              | 2.24                          | .51     | 92              | 6.2              | 24.2   |

*Optional air tool line conditioner to displace moisture, Part No. 9109 (5 liters).*  
*\* Specifications subject to change    \*\*applied on screw strength class 8.8*  
*Performance data at an operating pressure of 90 PSI.*

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

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# SPECIAL TOOLS FOR HYDROGEN GENERATION APPLICATIONS

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## High-Torque Nut Runners - Pneumatic

- Air outlet for motor cooling
- Lever valve
- Operating pressure: 90 PSI



| Order No.          | ATEX Specification | Tool Holder (female) | Valve type | Power | Air consumption | Torque   | Speed under load | Noise level LpA | Vibration level  | Weight |
|--------------------|--------------------|----------------------|------------|-------|-----------------|----------|------------------|-----------------|------------------|--------|
|                    |                    |                      |            | HP    | CFM             | ft./lbs. | rpm              | dB(A)           | m/s <sup>2</sup> | lbs.   |
| <b>3 6212 005C</b> | II2GExhIICT6Gb     | 3/4"                 | Lever      | 0.94  | 46              | 169.64   | 35               | 91              | <2.5             | 13.7   |
| <b>6 1014 005C</b> | II2GExhIICT6Gb     | 3/4"                 | Lever      | 0.94  | 46              | 48.68    | 100              | 89              | <2.5             | 11.5   |
| <b>6 1055 001C</b> | II2GExhIICT6Gb     | 3/4"                 | Lever      | 0.94  | 46              | 206.52   | 22               | 80.5            | <2.5             | 12.6   |
| <b>6 1056 001C</b> | II2GExhIICT6Gb     | 3/4"                 | Lever      | 0.94  | 46              | 68.38    | 67               | 80.5            | <2.5             | 13.0   |
| <b>6 1057 001C</b> | II2GExhIICT6Gb     | 3/4" (1/2")          | Lever      | 0.94  | 46              | 36.88    | 125              | 80.5            | <2.5             | 12.8   |
| <b>6 1061 001C</b> | II2GExhIICT6Gb     | 3/4"                 | Lever      | 0.94  | 46              | 280      | 22               | 80.5            | <2.5             | 12.8   |

Optional air tool line conditioner to displace moisture, Part No. 9109 (5 liters).

\* Specifications subject to change \*\*applied on screw strength class 8.8

Performance data at an operating pressure of 90 PSI.

## Stainless Steel Air Movers - Pneumatic

- Maintenance and wear-free, no rotating parts
- Integrated handle
- Operating pressure: 29-90 PSI



| Order No.          | ATEX Specification | Nominal dia. (outer) | Length | Volume flow (unrestricted) at 90 PSI |      |      | Air consumption | Connection (female) | Noise level LpA | Vibration level  | Weight |
|--------------------|--------------------|----------------------|--------|--------------------------------------|------|------|-----------------|---------------------|-----------------|------------------|--------|
|                    |                    | in.                  | in.    | CFM                                  | CFM  | CFM  | CFM             |                     | dB(A)           | m/s <sup>2</sup> | lbs.   |
| <b>8 1634 001C</b> | II2GExhIICT6Gb     | 4                    | 16.14  | 762                                  | 642  | 540  | 56-81           | G 1/2"              | 100.8           | <2.5             | 13.7   |
| <b>8 1636 001C</b> | II2GExhIICT6Gb     | 5.08                 | 16.73  | 967                                  | 766  | 657  | 60-87           | G 1/2"              | 101.1           | <2.5             | 11.5   |
| <b>8 1638 001C</b> | II2GExhIICT6Gb     | 6.06                 | 17.13  | 1854                                 | 1660 | 1353 | 98-155          | G 1/2"              | 103.8           | <2.5             | 12.6   |
| <b>8 1640 001C</b> | II2GExhIICT6Gb     | 6.63                 | 17.72  | 2083                                 | 1914 | 1653 | 102-158         | G 1/2"              | 104.4           | <2.5             | 13.0   |
| <b>8 1642 001C</b> | II2GExhIICT6Gb     | 8.03                 | 17.72  | 2878                                 | 2401 | 1995 | 222-342         | G 3/4"              | 115.8           | <2.5             | 12.8   |
| <b>8 1644 001C</b> | II2GExhIICT6Gb     | 8.63                 | 17.72  | 2949                                 | 2543 | 2147 | 226-335         | G 3/4"              | 116.3           | <2.5             | 12.8   |

Optional air tool line conditioner to displace moisture, Part No. 9109 (5 liters).

\* Specifications subject to change

## Portable Band Saw - Pneumatic

- Cut steel, stainless, Inconel, chrome, Hastelloy, aluminum, copper, iron, fiberglass, plastic, wood and more
- Operating pressure: 90 PSI



| Order No.          | ATEX Specification | Power | Air Consumption | Type    | Cutting capacity max. dia. | Cutting capacity max. dia. | Noise level LpA/LwA | Vibration level  | Weight |
|--------------------|--------------------|-------|-----------------|---------|----------------------------|----------------------------|---------------------|------------------|--------|
|                    |                    | HP    | CFM             | in.     | in.                        | in.                        | dB(A)               | m/s <sup>2</sup> | lbs.   |
| <b>5 6031 001C</b> | II2GExhIICT6Gb     | 1.34  | 42              | 7" x 7" | 7.09                       | 7.09 x 7.09                | 82/91               | <2.5             | 28.7   |

Optional air tool line conditioner to displace moisture, Part No. 9109 (5 liters).

\* Specifications subject to change

Performance data at an operating pressure of 90 PSI.

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

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# SPECIAL TOOLS FOR HYDROGEN GENERATION APPLICATIONS

## Reciprocating Saw - Pneumatic

- Cut steel pipe and channel 1/2" to 6" dia., plastic pipe to 8" dia.
- 1.3 HP motor
- Operating pressure: 90 PSI



| Order No.          | ATEX Specification | Power | Air Consumption | Stroke | Number of strokes (free) | Noise level LpA/LwA | Vibration level                        | Weight |
|--------------------|--------------------|-------|-----------------|--------|--------------------------|---------------------|----------------------------------------|--------|
|                    |                    | HP    | CFM             | in.    | rpm                      | dB(A)               | m/s <sup>2</sup>                       | lbs.   |
| <b>5 1217 001C</b> | II2GExhIICT5Gb     | 1.3   | 46              | 1.10   | 180                      | 180x 180            | 12.3 (chipboard)<br>16.3 (wooden beam) | 8.8    |

Optional air tool line conditioner to displace moisture, Part No. 9109 (5 liters).

\* Specifications subject to change

Performance data at an operating pressure of 90 PSI.

## Hacksaw - Pneumatic

- Roll or lever throttle
- Compact size for cutting in confined spaces
- Operating pressure: 90 PSI



| Order No.          | ATEX Specification | Housing material | Valve type | Power | Number of strokes | Stroke | Air consumption | Noise level LpA | Vibration level  | Connection  | Hose ID min. | Weight |
|--------------------|--------------------|------------------|------------|-------|-------------------|--------|-----------------|-----------------|------------------|-------------|--------------|--------|
|                    |                    |                  |            | HP    | rpm               | in.    | CFM             | dB(A)           | m/s <sup>2</sup> |             | in.          | lbs.   |
| <b>5 1212 001C</b> | II2GExhIICT5Gb     | aluminum         | Twist      | 1.5   | 360               | 2.36   | 51.21           | 76              | <2.5             | R 3/4" male | 0.5          | 16.5   |
| <b>5 1212 005C</b> | II2GExhIICT5Gb     | aluminum         | Lever      | 1.5   | 360               | 2.36   | 51.21           | 76              | <2.5             | R 3/4" male | 0.5          | 15.4   |

Optional air tool line conditioner to displace moisture, Part No. 9109 (5 liters).

\* Specifications subject to change

Performance data at an operating pressure of 90 PSI.

Clamps available for 90° cutting. Model No. 5 1208 9980 self-feeding clamp for roll throttle model 5 1212 001C. Contact us for more information.

## Pipe Cutting Machine - Pneumatic

- Low-speed cutting for pipes up to 96" dia.
- Ideal for materials, including:
  - Ductile iron    ▪ Concrete    ▪ Cement    ▪ Clay    ▪ Non-ferrous metal
  - Plastics        ▪ PE            ▪ PVC        ▪ GRP
- Operating pressure: 90 PSI



| Order No.          | ATEX Specification | Power | Air consumption | Max. saw blade dia. | Tool holder | Speed | Max. cutting depth | Height | Noise level LpA | Vibration level  | Weight |
|--------------------|--------------------|-------|-----------------|---------------------|-------------|-------|--------------------|--------|-----------------|------------------|--------|
|                    |                    | HP    | CFM             | in.                 | in.         | rpm   | in.                | in.    | dB(A)           | m/s <sup>2</sup> | lbs.   |
| <b>5 8022 005C</b> | II2GExhIICT6Gb     | 2.4   | 78              | 7.09                | 0.87 / 1.18 | 350   | 1.97               | 9.84   | 98              | <2.5             | 28.7   |

Optional air tool line conditioner to displace moisture, Part No. 9109 (5 liters).

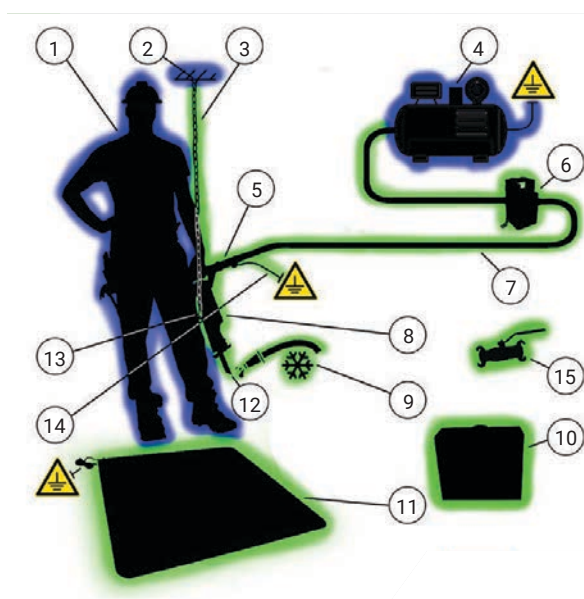
\* Specifications subject to change

Performance data at an operating pressure of 90 PSI.

Carriages and chain tensioners for 5 8022 005C pipe cutting machine models are specific to hydrogen applications. Contact us for more information

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

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| Item | Hazard |               |      | Description                   | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------|--------|---------------|------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | Sparks | Static Charge | Heat |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1    | ●      | ●             |      | Personal protective equipment | <ul style="list-style-type: none"> <li>All components used must meet the safety requirements for use in the ATEX zone IIC.</li> <li>The employer must ensure that only approved components are used.</li> <li>The assessment and assignment of the risk category must be done by the employer.</li> <li>The employer must ensure the proper condition of the tools and components at all times.</li> <li>Before each use, a skilled person has to check the safety devices, components, tools, and PPE with regard to their proper condition for use.</li> <li>Damaged and inappropriate components have to be removed immediately from the hazardous area</li> </ul> |
| 2    | ●      | ●             |      | Suspension                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 3    | ●      | ●             |      | Retaining chain with hook     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4    | ●      | ●             | ●    | Air compressor                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 5    | ●      | ●             |      | Nipple assembly               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 6    | ●      | ●             |      | Service unit                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 7    | ●      | ●             |      | Pneumatic hose                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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## Grounding Cable

- Prevent potential sparks from static electricity

**9 3707 0020** Grounding cable, 5' in length including gripper

\* Specifications subject to change



## Butt Strap

- Mounts directly on reciprocating saw and impact wrenches

**5 1217 7080** For 5 1217 001C reciprocating saw

**6 1316 9020** For 6 1316 004C and 6 1316 005C impact wrenches

**6 1410 9020** For 6 1410 001C impact wrench

\* Specifications subject to change



## Nipple Assembly

- Mounts on air inlet for connecting grounding cable

**9 2205 2330** R1/4" male - R1/4" female connecting thread

**9 2205 2340** R3/8" male - R3/8" female connecting thread

**9 2205 2320** R1/2" male - R1/2" female connecting thread

**9 2205 2350** R3/4" male - R3/4" female connecting thread

\* Specifications subject to change

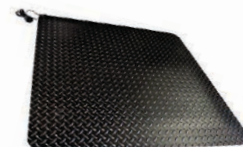


## Safety Mat

- Non-slip electrostatic discharge safety mat (R9 to DIN 51130 and BG rule BGR181)
- Includes grounding cable

**9 9911 0170** 36" x 36" x 1/2" antistatic mat with grounding cable

\* Specifications subject to change



## Electrostatic Discharge Carrying Case

- Powder coated
- Antistatic lining

**9 9910 006C** For models 2 1362, 2 2404, 5 1217, 3 6212, 6 1014, 6 1055, 6 1056, 6 1057, 6 1061, 6 1034, 6 1316 and 6 1410

**9 9910 011C** For models 5 6031, 5 1212, 5 8022 and 2 2080

\* Specifications subject to change



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Hydraulic- and pneumatic-powered tools for use in subsea applications, including construction, maintenance, demolition and salvage applications in and around shipyards, offshore oil, power plants and other underwater jobsites.

## Reciprocating Saws



**Air • Hydraulic**

- Best power-to-weight ratios in the industry
- Optional clamps for 90° cutting



Scan to view complete line of hydraulic and pneumatic tools for use underwater.

## Chain Saws



**Air • Hydraulic**

- Bars up to 40" in length
- Chain brakes for operator safety

## Hacksaws



**Air • Hydraulic**

- Cut up to 30" dia. pipe
- Fully-sealed hydraulic model – safer for use in nuclear power plants and sensitive jobsites

## Band Saws



**Hydraulic • Air**

- Cut up to 8" dia.
- Optional vice clamps available

## Pipe Cutting Machines



**Air • Hydraulic**

- Cut pipe up to 96" dia.
- Cut underground with minimal excavation

## Circular Saws



**Air • Hydraulic**

- Up to 12-5/8" dia.
- Cut concrete and metal

## Magnetic Drills



**Hydraulic • Air**

- Drill holes up to 4" dia.
- Tap holes up to 1" dia.

## Diamond Core Drills



**Air • Hydraulic**

- Holes up to 12" in concrete, reinforced concrete and asphalt
- Rugged 3-speed gearboxes

## Rotary Hammer Drills



**Air • Hydraulic**

- Use to drill concrete, brick, masonry, steel and wood
- SDS Plus and SDS Max models

## Grinders



**Hydraulic**

- For use with a variety of wheels, brushes and attachments

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

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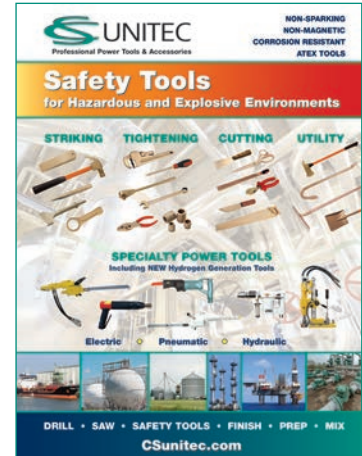
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Core Drills, Air Concrete Saws  
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#### **Safety Tools for Hazardous & Explosive Environments:**

**Non-Sparking, Non-Magnetic,  
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Power Tools for use in Ex Zones,  
Hydrogen, ATEX Zones and  
Hazardous Environments**



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**CS UNITEC, Inc.** 22 Harbor Avenue, Norwalk, CT 06850  
4330 Center St., Deer Park, TX 77536

Phone 800-700-5919 • 203-853-9522 • Fax 203-853-9921

Email [info@csunitec.com](mailto:info@csunitec.com) • [CSunitec.com](http://CSunitec.com)

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