

# UNITEC

... the power of innovation!®



## Non-sparking and Non-magnetic Safety Tools



**For Use in  
Hazardous  
Environments  
and all ATEX  
and Ex Zones**

*High-quality,  
Drop-forged  
Non-magnetic  
and Non-sparking  
Safety Tools*

*Hammers,  
Wrenches,  
Sockets  
and More*

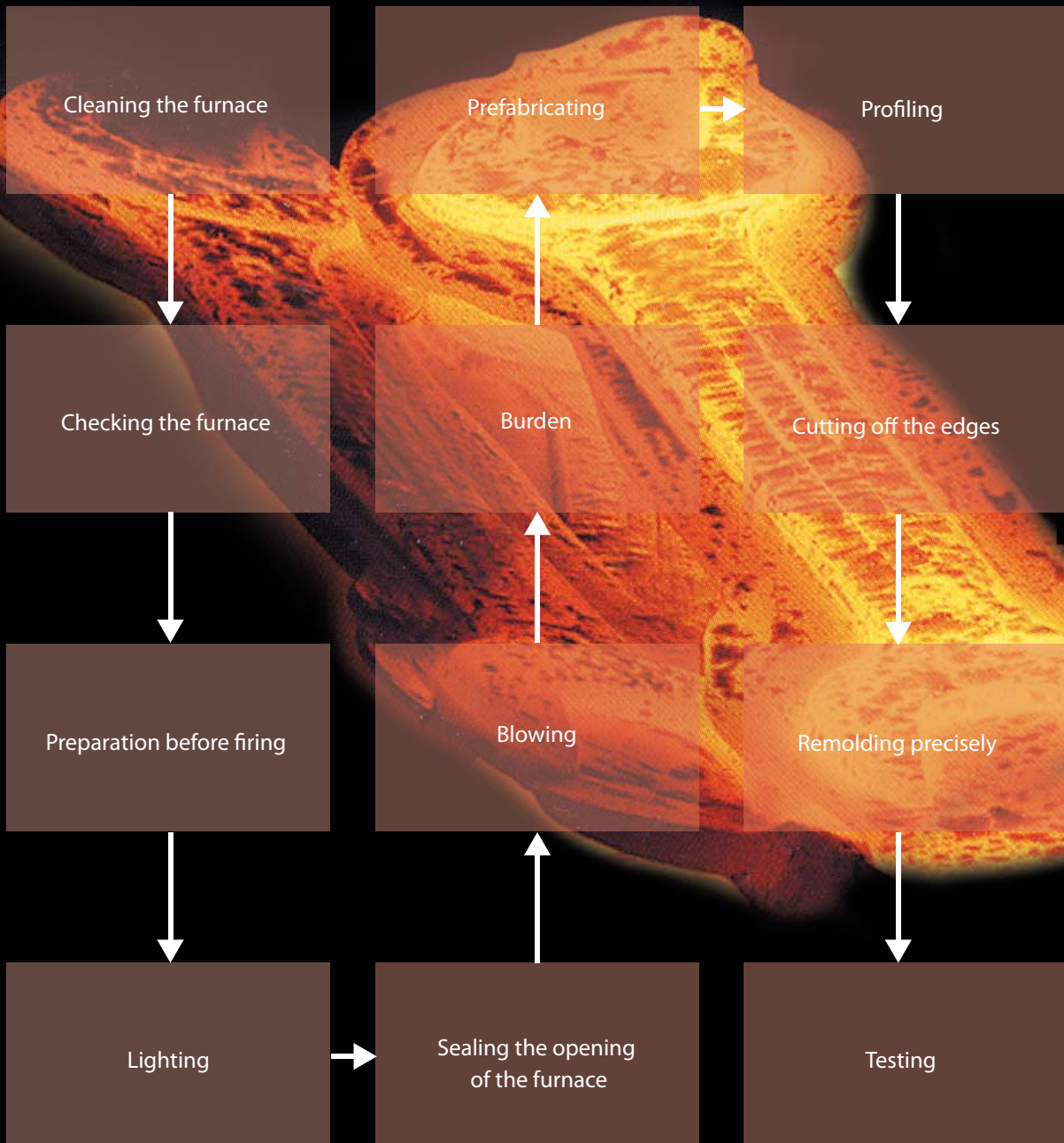


# UNITEC Safety Tools

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. Each tool is laser engraved with the proper Ex Zone classifications, indicating the zones for which it can be used.

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

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

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

We also offer ATEX-Certified air and hydraulic power tools and other equipment for use in Ex zones. See pages 80-87 for more information.

**ATEX 94/9/EC • DNV**

**ISO 9001**

**BUREAU VERITAS  
Certification**



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

## For Use in Ex Zones and Hazardous Environments

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

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

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

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

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

We offer over 3000 individual Tools made from Special Solid Copper-based Alloyed Tools. 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).

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

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

### Gas, Mists or Vapors

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

### Dusts

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

All CS Unitec Safety Tools are laser engraved according to Ex/ATEX classifications and our own marking procedure.

Quality control, testing and customer service are a priority.

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

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

Because of the heat treatment processes, our Copper-Beryllium Tools (CuBe<sub>2</sub>) have a Rockwell C hardness between 33 - 45. CS Unitec Aluminum-Bronze Tools have a Rockwell C Hardness between 23 - 35.

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

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

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

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

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

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

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

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

### CAUTION:

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

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

MSDS (Safety Data Sheet) / Bulletin can be provided upon request or can be downloaded from our web site: [www.csunitec.com](http://www.csunitec.com)

For ATEX information, visit:  
[http://ec.europa.eu/enterprise/sectors/mechanical/atex/index\\_en.htm](http://ec.europa.eu/enterprise/sectors/mechanical/atex/index_en.htm)

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

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

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

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

## 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 94/9/EC for work in Zones 1, 2, 21 and 22	Fulfill demand in ATEX Directive 94/9/EC for work in Zones 0, 1, 2, 20, 21 and 22
<b>Hardness</b>	23-35 HRC	33-45 HRC
<b>Durability</b>	Not as durable as CuBe.	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>	<b>Al:</b> 9.5-11% <b>Ni:</b> 3.5-5.5% <b>Cu:</b> Balance <b>Fe:</b> 3.5-5.5% <b>Other:</b> 0.5% max	<b>Be:</b> 1.8-2.1% <b>Other:</b> 0.5% max <b>Co + Ni:</b> 0.6% max <b>Cu:</b> Balance

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

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

**Manufacturing Industries:**

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

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

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

**Government Agencies:**

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

**Other Industries:**

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

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

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

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

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

**CS Unitec Non-sparking Safety Tools are laser engraved with the following information:**

- **Ex Zone Classification**
- **Alloy Composition (AlBr or CuBe)**
- **Part Number**
- **Dimensions**



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## CS Unitec Striking Tools

- Fiberglass Handle or Wood Handle – your choice.
- Drop forging ensures long tool life.



When ordering, specify:

A = Aluminum Bronze

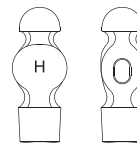
B = Copper Beryllium

Example: Ex101-0200A

or

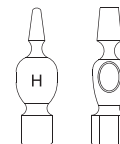
Ex101-0200B

**Ex101  
 Hammer, Ball Peen**



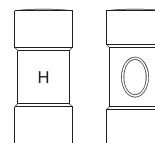
No.	Ex101-0200	Ex101-0500	Ex101-0700	Ex101-0900	Ex101-1300
H lbs.	0.44	1.10	1.54	1.98	2.49
H kg	0.20	0.50	0.70	0.90	1.30
Handle Length	11"/280mm	13"/330mm	13.75"/350mm	15.75"/400mm	15"/400mm

**Ex102  
 Hammer, Cross Peen Engineers'**



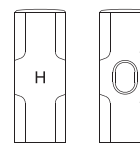
No.	Ex102-0500	Ex102-0900
H lbs.	1.10	1.98
H kg	0.50	0.90
Handle Length	13"/330mm	13.75"/350mm

**Ex103  
 Hammer, Double-face Machinists'**



No.	Ex103-0500
H lbs.	1.10
H kg	0.50
Handle Length	13"/330mm

**Ex104  
 Hammer, Sledge**



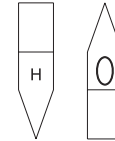
No.	Ex104-1000	Ex104-1500	Ex104-2000	Ex104-2500	Ex104-3000	Ex104-4000	Ex104-5000	Ex104-6000	Ex104-8000	Ex104-10000
H lbs.	2.20	3.31	4.41	5.51	6.61	8.81	11.02	13.23	17.64	22.05
H kg	1.00	1.50	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00
Handle Length	13"/330mm	13.75"/350mm	13.75"/350mm	13.75"/350mm	30.75"/780mm	35"/890mm	35"/890mm	35"/890mm	35"/890mm	35"/890mm

**Ex105  
 Hammer, Cutoff**



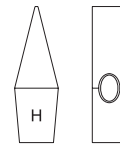
No.	Ex105-1300	Ex105-2000
H lbs.	2.87	4.41
H kg	1.30	2.00
Handle Length	13.75"/350mm	15.75"/400mm

**Ex106  
 Hammer, Scaling**



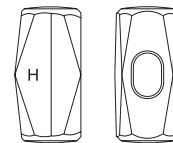
No.	Ex106-0200	Ex106-0400	Ex106-0500	Ex106-0600	Ex106-0900
H lbs.	0.44	0.88	1.10	1.32	1.98
H kg	0.20	0.40	0.50	0.60	0.90
Handle Length	11"/280mm	13"/330mm	13"/330mm	13"/330mm	13.75"/350mm

**Ex107  
 Wedge, Stone**



No.	Ex107-1000
H lbs.	2.20
H kg	1.00
Handle Length	13.75"/350mm

**Ex108  
 Hammer, Club**



No.	Ex108-1000	Ex108-1500	Ex108-2000	Ex108-3000
H lbs.	2.20	3.31	4.41	6.61
H kg	1.00	1.50	2.00	3.00
Handle Length	13.75"/350mm	13.75"/350mm	15.75"/400mm	30.75"/780mm

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex112-0700A

or

Ex112-0700B

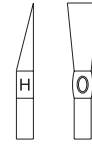
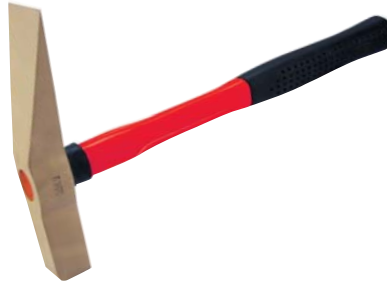
Hammer, Bricklayers' Ex112

Crate Opener Ex113S

Hammer, Plastic Ex121

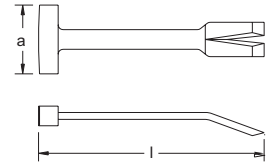
Hammer, Claw Ex122

**Ex112  
Hammer, Bricklayers'**



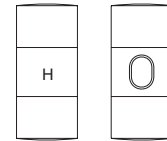
No.	Ex112-0700	Ex112-0900
H lbs.	1.54	1.98
H kg	0.70	0.90
Handle Length	15"/380mm	15"/380mm

**Ex113S  
Crate Opener**



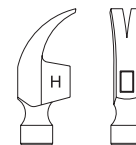
No.	a inch	l inch	Wt. lbs.	a mm	l mm	kg
Ex113S-230	2 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>16</sub>	1.12	70	230	0.51

**Ex121  
Hammer, Plastic**



No.	Ex121-1000
H lbs.	2.20
H kg	1.00
Handle Length	13.75"/350mm

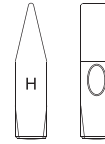
**Ex122  
Hammer, Claw**



No.	Ex122-0500	Ex122-0700
H lbs.	1.10	1.54
H kg	0.50	0.70
Handle Length	13"/330mm	13.75"/350mm

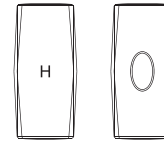


**Ex1041  
 Hammer, Cross Peen  
 Engineers' / Blacksmiths'**



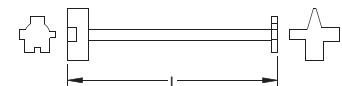
No.	Ex1041-0100	Ex1041-0200	Ex1041-0300	Ex1041-0500	Ex1041-0800	Ex1041-1000	Ex1041-1500	Ex1041-2000
H lbs.	0.22	0.44	0.66	1.10	1.76	2.20	3.31	4.41
H kg	0.10	0.20	0.30	0.50	0.80	1.00	1.50	2.00
Handle Length	11"/280mm	11"/280mm	11"/280mm	13"/330mm	13.75"/350mm	13.75"/350mm	13.75"/350mm	30.75"/780mm

**Ex6475  
 Hammer, Sledge  
 German Type**



No.	Ex6475-1000	Ex6475-1500	Ex6475-2000	Ex6475-2500	Ex6475-3000	Ex6475-4000	Ex6475-5000	Ex6475-6000	Ex6475-8000	Ex6475-10000
H lbs.	2.20	3.31	4.41	5.51	6.61	8.81	11.02	13.23	17.64	22.05
H kg	1.00	1.50	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00
Handle Length	13"/330mm	13.75"/350mm	13.75"/350mm	13.75"/350mm	30.75"/780mm	35"/890mm	35"/890mm	35"/890mm	35"/890mm	35"/890mm

**Ex110  
 Wrench, Bung**



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

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: Ex110ES-305A

or

Ex110ES-305B

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

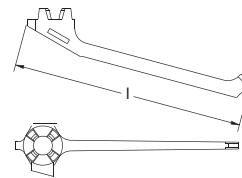
Wrench, Bung, For 22 Different Bungs Ex110S

Hacksaw Frame Ex118A

Hacksaw Blade Ex118B

**Ex110ES**  
**Wrench, Bung**

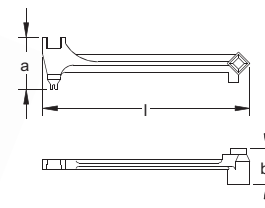
Fits 3/4" & 2" Bungs



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

**Ex110S**  
**Wrench, Bung**

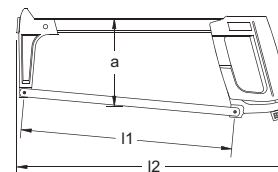
For 22 Different Bungs



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

**Ex118A**  
**Hacksaw Frame**

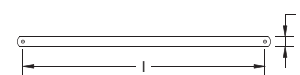
Aluminum Bronze (AlBr) only



No.	a inch	l <sub>1</sub> inch	l <sub>2</sub> inch	Wt. lbs.	a mm	l <sub>1</sub> mm	l <sub>2</sub> mm	kg
Ex118A-395A	5 <sup>1</sup> / <sub>8</sub>	12	15 <sup>3</sup> / <sub>4</sub>	1.19	128	300	395	0.54

**Ex118B**  
**Hacksaw Blade**

Copper Beryllium (CuBe) only



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



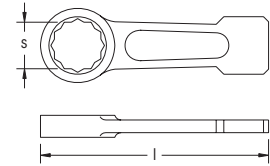
## CS Unitec Round Corner Shape

- All Box/Ring-ended CS Unitec Tools are manufactured with CS Unitec's Round Corner.
- CS Unitec's Round Corner design prevents damage to the bolt head.
- Very-high tensile strength due to the design of the CS Unitec Round Corner.





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



No.	S inch	I inch	Wt. lbs.
Ex201B-005U	11/16	59/16	0.40
Ex201B-010U	3/4	59/16	0.40
Ex201B-015U	7/8	63/8	0.49
Ex201B-020U	1	63/8	0.60
Ex201B-025U	1 1/16	73/16	0.77
Ex201B-030U	1 1/8	73/16	0.77
Ex201B-035U	1 3/16	79/16	1.12
Ex201B-040U	1 1/4	79/16	1.12
Ex201B-045U	1 5/16	73/4	1.17
Ex201B-050U	1 3/8	83/16	1.23
Ex201B-055U	1 7/16	83/16	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	99/16	2.71
Ex201B-085U	1 13/16	99/16	2.71
Ex201B-090U	1 7/8	99/16	2.71
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-160U	2 15/16	13 3/8	6.44
Ex201B-165U	3	13 3/8	6.44
Ex201B-170U	3 1/8	13 3/4	7.23
Ex201B-175U	3 1/4	13 3/4	7.23
Ex201B-180U	3 3/8	14	9.24
Ex201B-185U	3 1/2	15	11.42
Ex201B-190U	3 5/8	15	11.42
Ex201B-195U	3 3/4	15 3/8	11.60
Ex201B-200U	3 7/8	16 3/8	13.89
Ex201B-205U	4	16 3/8	13.89
Ex201B-210U	4 1/8	16 9/16	14.66

No.	S mm	I 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

When ordering, specify:

**A** = Aluminum Bronze

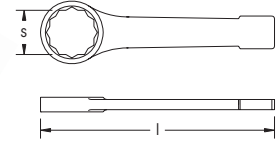
**B** = Copper Beryllium

Example: EX201-005UA

or

EX201-005UB

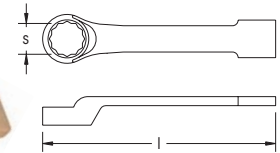
**Ex201**  
**Wrench, Single End, Box**  
12-Point



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

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

**Ex201F**  
**Wrench, Striking Box, Offset**  
12-Point

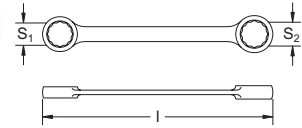


No.	S inch	I inch	Wt. lbs.
Ex201F-005U	1 <sup>1/16</sup>	10 <sup>3/4</sup>	1.65
Ex201F-007U	1 <sup>1/8</sup>	10 <sup>3/4</sup>	1.81
Ex201F-010U	1 <sup>3/16</sup>	10 <sup>3/4</sup>	1.81
Ex201F-015U	1 <sup>1/4</sup>	10 <sup>3/4</sup>	1.81
Ex201F-020U	1 <sup>7/16</sup>	11 <sup>3/16</sup>	2.87
Ex201F-025U	1 <sup>5/8</sup>	12 <sup>3/8</sup>	2.98
Ex201F-030U	1 <sup>13/16</sup>	12 <sup>3/4</sup>	4.19
Ex201F-035U	2	13 <sup>3/16</sup>	4.67
Ex201F-040U	2 <sup>3/16</sup>	13 <sup>9/16</sup>	5.56
Ex201F-045U	2 <sup>3/8</sup>	14 <sup>3/16</sup>	6.64
Ex201F-050U	2 <sup>9/16</sup>	15 <sup>3/16</sup>	7.83
Ex201F-055U	2 <sup>3/4</sup>	16	9.48

No.	S mm	I mm	Wt. 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> inch	L inch	Wt. lbs.
Ex202-005U	7/32 x 1/4	3 <sup>3</sup> / <sub>4</sub>	0.09
Ex202-010U	1/4 x 5/16	3 <sup>3</sup> / <sub>4</sub>	0.09
Ex202-015U	5/16 x 3/8	3 <sup>3</sup> / <sub>4</sub>	0.09
Ex202-020U	3/8 x 7/16	5 <sup>3</sup> / <sub>16</sub>	0.21
Ex202-030U	7/16 x 9/16	5 <sup>3</sup> / <sub>16</sub>	0.21
Ex202-040U	1/2 x 5/8	5 <sup>3</sup> / <sub>16</sub>	0.23
Ex202-045U	1/2 x 19/32	5 <sup>3</sup> / <sub>16</sub>	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 <sup>3</sup> / <sub>8</sub>	0.40
Ex202-090U	13/16 x 15/16	7 <sup>3</sup> / <sub>8</sub>	0.40
Ex202-095U	7/8 x 15/16	7 <sup>9</sup> / <sub>16</sub>	0.49
Ex202-120U	15/16 x 1 <sup>1</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>4</sub>	0.64
Ex202-125U	1 x 1 <sup>1</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	0.64
Ex202-135U	1 <sup>1</sup> / <sub>16</sub> x 1 <sup>3</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>	0.93
Ex202-150U	1 <sup>3</sup> / <sub>16</sub> x 1 <sup>1</sup> / <sub>4</sub>	10 <sup>3</sup> / <sub>4</sub>	1.06
Ex202-160U	1 <sup>1</sup> / <sub>4</sub> x 1 <sup>7</sup> / <sub>16</sub>	12 <sup>3</sup> / <sub>16</sub>	1.32
Ex202-165U	1 <sup>7</sup> / <sub>16</sub> x 1 <sup>5</sup> / <sub>8</sub>	12 <sup>3</sup> / <sub>16</sub>	1.32

No.	S <sub>1</sub> X S <sub>2</sub> mm	L mm	Wt. kg
Ex202-6-7	6x7	80	0.03
Ex202-8-10	8x10	95	0.04
Ex202-9-11	9x11	105	0.06
Ex202-12-14	12x14	130	0.10
Ex202-13-15	13x15	130	0.10
Ex202-14-15	14x15	130	0.09
Ex202-14-17	14x17	150	0.14
Ex202-16-17	16x17	150	0.14
Ex202-16-18	16x18	150	0.14
Ex202-17-19	17x19	150	0.14
Ex202-19-22	19x22	185	0.18
Ex202-21-23	21x23	190	0.22
Ex202-22-24	22x24	190	0.22
Ex202-24-27	24x27	220	0.29
Ex202-25-28	25x28	270	0.42
Ex202-27-30	27x30	270	0.42
Ex202-30-32	30x32	270	0.48
Ex202-32-36	32x36	305	0.60

When ordering, specify:

**A** = Aluminum Bronze

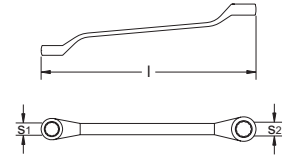
**B** = Copper Beryllium

Example: EX202F-005UA

or

EX202F-005UB

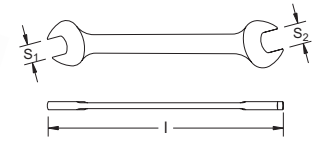
**Ex202F**  
**Wrench, Box End, Double**  
 Offset Type, 12-Point



No.	S <sub>1</sub> X S <sub>2</sub> inch	l inch	Wt. lbs.
Ex202F-005U	7/32 x 1/4	4 <sup>3</sup> / <sub>4</sub>	0.06
Ex202F-010U	1/4 x 9/32	4 <sup>3</sup> / <sub>4</sub>	0.07
Ex202F-015U	1/4 x 5/16	5 <sup>3</sup> / <sub>16</sub>	0.07
Ex202F-020U	1/4 x 3/8	5 <sup>3</sup> / <sub>16</sub>	0.09
Ex202F-025U	5/16 x 3/8	5 <sup>3</sup> / <sub>16</sub>	0.10
Ex202F-030U	3/8 x 7/16	5 <sup>3</sup> / <sub>16</sub>	0.18
Ex202F-035U	3/8 x 9/16	7 <sup>3</sup> / <sub>16</sub>	0.18
Ex202F-040U	7/16 x 1/2	7 <sup>3</sup> / <sub>16</sub>	0.22
Ex202F-045U	7/16 x 9/16	7 <sup>3</sup> / <sub>16</sub>	0.22
Ex202F-050U	1/2 x 9/16	7 <sup>3</sup> / <sub>16</sub>	0.22
Ex202F-055U	1/2 x 19/32	7 <sup>3</sup> / <sub>16</sub>	0.22
Ex202F-060U	9/16 x 5/8	8 <sup>3</sup> / <sub>4</sub>	0.33
Ex202F-065U	5/8 x 11/16	8 <sup>3</sup> / <sub>4</sub>	0.44
Ex202F-070U	5/8 x 3/4	8 <sup>3</sup> / <sub>4</sub>	0.44
Ex202F-075U	11/16 x 7/8	10	0.49
Ex202F-080U	11/16 x 25/32	10	0.49
Ex202F-085U	11/16 x 7/8	11 <sup>3</sup> / <sub>16</sub>	0.62
Ex202F-090U	3/4 x 13/16	11 <sup>3</sup> / <sub>16</sub>	0.62
Ex202F-095U	3/4 x 7/8	11 <sup>3</sup> / <sub>16</sub>	0.62
Ex202F-100U	3/4 x 15/16	12 <sup>3</sup> / <sub>8</sub>	0.93
Ex202F-105U	13/16 x 7/8	12 <sup>3</sup> / <sub>8</sub>	0.93
Ex202F-110U	7/8 x 15/16	12 <sup>3</sup> / <sub>8</sub>	0.93
Ex202F-115U	7/8 x 31/32	12 <sup>3</sup> / <sub>8</sub>	0.93
Ex202F-120U	7/8 x 1	12 <sup>3</sup> / <sub>8</sub>	0.93
Ex202F-125U	7/8 x 11/16	13 <sup>9</sup> / <sub>16</sub>	1.17
Ex202F-130U	15/16 x 1	13 <sup>9</sup> / <sub>16</sub>	1.17
Ex202F-135U	15/16 x 11/16	13 <sup>9</sup> / <sub>16</sub>	1.10
Ex202F-140U	15/16 x 13/16	14 <sup>3</sup> / <sub>8</sub>	1.19
Ex202F-145U	1 x 11/16	13 <sup>9</sup> / <sub>16</sub>	1.17
Ex202F-150U	1 x 11/8	13 <sup>9</sup> / <sub>16</sub>	1.17
Ex202F-155U	11/16 x 11/8	14 <sup>3</sup> / <sub>8</sub>	1.21
Ex202F-160U	11/16 x 11/4	15 <sup>3</sup> / <sub>16</sub>	1.59
Ex202F-165U	11/8 x 15/16	15 <sup>3</sup> / <sub>16</sub>	1.59
Ex202F-170U	13/16 x 11/4	15 <sup>3</sup> / <sub>16</sub>	1.59
Ex202F-175U	13/16 x 17/16	16 <sup>3</sup> / <sub>4</sub>	2.18
Ex202F-180U	11/4 x 15/16	16 <sup>3</sup> / <sub>4</sub>	2.18
Ex202F-185U	11/4 x 17/16	16 <sup>3</sup> / <sub>4</sub>	2.18
Ex202F-190U	17/16 x 15/8	18 <sup>3</sup> / <sub>16</sub>	2.18
Ex202F-195U	15/8 x 113/16	18 <sup>3</sup> / <sub>4</sub>	3.53
Ex202F-200U	113/16 x 2	19 <sup>9</sup> / <sub>16</sub>	4.59
Ex202F-205U	2 x 23/16	20 <sup>3</sup> / <sub>8</sub>	5.56

No.	S <sub>1</sub> X S <sub>2</sub> mm	l mm	Wt. 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

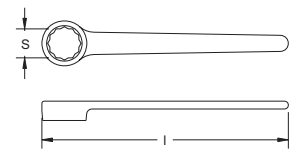
## Ex203 Wrench, Open End, Double



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

No.	S <sub>1</sub> X S <sub>2</sub> mm	L mm	Wt. kg
Ex203-6-7	6x7	90	0.03
Ex203-6-8	6x8	90	0.03
Ex203-7-8	7x8	100	0.03
Ex203-7-9	7x9	100	0.03
Ex203-8-9	8x9	100	0.04
Ex203-8-10	8x10	100	0.04
Ex203-9-10	9x10	100	0.04
Ex203-9-11	9x11	120	0.06
Ex203-10-11	10x11	120	0.06
Ex203-10-12	10x12	120	0.06
Ex203-11-13	11x13	120	0.06
Ex203-12-13	12x13	130	0.06
Ex203-12-14	12x14	130	0.06
Ex203-13-14	13x14	130	0.10
Ex203-13-15	13x15	135	0.10
Ex203-14-15	14x15	150	0.14
Ex203-14-17	14x17	150	0.14
Ex203-16-17	16x17	165	0.14
Ex203-16-18	16x18	165	0.14
Ex203-17-19	17x19	165	0.19
Ex203-17-22	17x22	180	0.23
Ex203-18-19	18x19	165	0.19
Ex203-18-20	18x20	165	0.19
Ex203-19-22	19x22	180	0.23
Ex203-19-24	19x24	180	0.23
Ex203-20-22	20x22	180	0.23
Ex203-21-23	21x23	210	0.26
Ex203-22-24	22x24	210	0.29
Ex203-22-27	22x27	230	0.47
Ex203-23-26	23x26	230	0.47
Ex203-24-26	24x26	230	0.47

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



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

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



When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX204-005UA

or

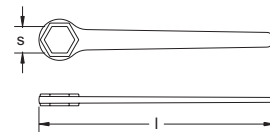
EX204-005UB

Wrench, Box End, 6-Point EX204

Wrench, Construction, With Pin, (Ring End) EX204S

Wrench, Construction, With Pin, (Open End) EX205S

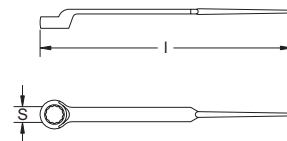
**Ex204**  
**Wrench, Box End**  
6-Point



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

No.	S mm	l mm	Wt. 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

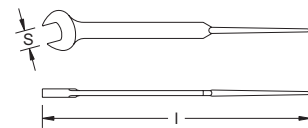
**Ex204S**  
**Wrench, Construction**  
With Pin, (Ring End)



No.	S inch	l inch	Wt. lbs.
Ex204S-050U	7/8	14	0.86
Ex204S-010U	15/16	14	0.86
Ex204S-015U	1 1/16	16	1.08
Ex204S-020U	1 3/16	16	1.76
Ex204S-025U	1 1/4	16	1.72
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-045U	1 13/16	20	4.54
Ex204S-050U	2	22	6.15

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

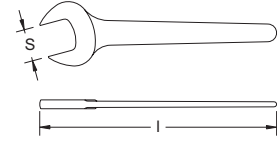
**Ex205S**  
**Wrench, Construction**  
With Pin, (Open End)



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

No.	S mm	l mm	Wt. 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

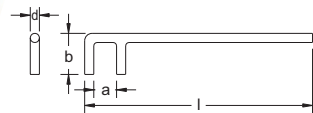
**Ex205  
Wrench, Open End**



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

No.	S mm	I mm	Wt. 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

**Ex207F  
Valve Wheel Hook**



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

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

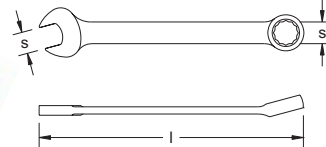
Example: EX206-005UA

or

EX206-005UB

**Ex206**

**Wrench, Combination**

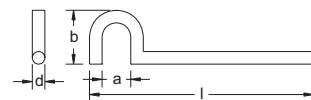


No.	S inch	I inch	Wt. lbs.
Ex206-005U	1/4	3 <sup>9</sup> / <sub>16</sub>	0.05
Ex206-010U	5/16	4 <sup>3</sup> / <sub>16</sub>	0.07
Ex206-015U	11/32	4 <sup>9</sup> / <sub>16</sub>	0.10
Ex206-020U	3/8	4 <sup>9</sup> / <sub>16</sub>	0.10
Ex206-025U	13/32	5 <sup>3</sup> / <sub>8</sub>	0.15
Ex206-030U	7/16	5 <sup>3</sup> / <sub>8</sub>	0.15
Ex206-035U	1/2	6	0.22
Ex206-040U	9/16	6 <sup>3</sup> / <sub>8</sub>	0.29
Ex206-045U	19/32	6 <sup>3</sup> / <sub>8</sub>	0.29
Ex206-050U	5/8	7	0.33
Ex206-055U	11/16	7 <sup>3</sup> / <sub>16</sub>	0.37
Ex206-060U	3/4	8 <sup>3</sup> / <sub>16</sub>	0.51
Ex206-065U	25/32	8 <sup>3</sup> / <sub>16</sub>	0.51
Ex206-070U	13/16	9 <sup>3</sup> / <sub>16</sub>	0.60
Ex206-075U	7/8	9 <sup>3</sup> / <sub>4</sub>	0.66
Ex206-080U	15/16	10 <sup>9</sup> / <sub>16</sub>	0.90
Ex206-085U	31/32	11 <sup>9</sup> / <sub>16</sub>	1.28
Ex206-090U	1	11 <sup>9</sup> / <sub>16</sub>	1.28
Ex206-095U	11/16	11 <sup>9</sup> / <sub>16</sub>	1.28
Ex206-100U	11/8	12 <sup>3</sup> / <sub>4</sub>	1.39
Ex206-105U	13/16	12 <sup>3</sup> / <sub>4</sub>	1.39
Ex206-110U	11/4	13 <sup>3</sup> / <sub>8</sub>	1.74
Ex206-115U	15/16	14	2.03
Ex206-120U	13/8	14	2.03
Ex206-125U	17/16	14	2.05
Ex206-130U	11/2	14 <sup>3</sup> / <sub>8</sub>	2.73
Ex206-135U	19/16	14 <sup>3</sup> / <sub>4</sub>	3.22
Ex206-140U	15/8	14 <sup>3</sup> / <sub>4</sub>	3.22
Ex206-145U	111/16	16 <sup>3</sup> / <sub>16</sub>	3.70
Ex206-150U	13/4	16 <sup>3</sup> / <sub>16</sub>	3.70
Ex206-155U	113/16	16 <sup>3</sup> / <sub>16</sub>	3.70
Ex206-160U	17/8	16 <sup>3</sup> / <sub>16</sub>	3.70
Ex206-162U	115/16	16 <sup>3</sup> / <sub>4</sub>	4.23
Ex206-165U	2	16 <sup>3</sup> / <sub>4</sub>	4.23
Ex206-170U	23/16	17 <sup>3</sup> / <sub>8</sub>	5.11
Ex206-175U	23/8	18 <sup>9</sup> / <sub>16</sub>	5.71
Ex206-180U	29/16	18 <sup>3</sup> / <sub>4</sub>	6.35
Ex206-185U	23/4	19 <sup>3</sup> / <sub>16</sub>	7.47
Ex206-190U	25/8	19 <sup>3</sup> / <sub>16</sub>	7.47

No.	S mm	I mm	Wt. 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

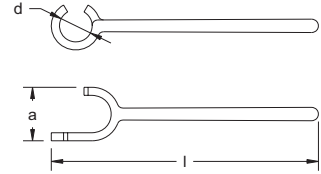
**Ex207**

**Wrench, Valve**



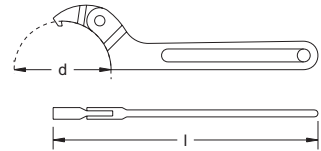
No.	a inch	b inch	d inch	I inch	Wt. lbs.	a mm	b mm	d mm	I mm	Wt. kg
Ex207-30	13/16	21/4	1/2	8	0.66	30	56	13	200	0.30
Ex207-32	11/4	23/8	9/16	10	0.93	32	60	14	250	0.42
Ex207-36	17/16	25/8	9/16	10 <sup>3</sup> / <sub>4</sub>	1.15	36	66	15	270	0.52
Ex207-41	15/8	27/8	5/8	12	1.46	41	73	16	300	0.66
Ex207-50	2	37/16	11/16	12 <sup>3</sup> / <sub>4</sub>	2.02	50	86	18	320	0.92

**Ex207S**  
**Wrench, Valve Wheel**  
(DIN 87311)



No.	d inch	a inch	l inch	Wt. lbs.	d mm	a mm	l 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

**Ex208S**  
**Wrench, Spanner Adjustable**



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



When ordering, specify:

**A** = Aluminum Bronze

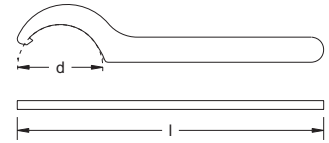
**B** = Copper Beryllium

Example: EX208-12/14A

or

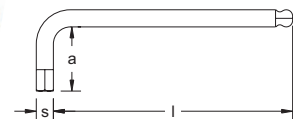
EX208-12/14B

**Ex208**  
**Wrench, Spanner, Fixed**  
(DIN 1810)



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

**Ex209L**  
**Wrench, Allen / Hex Key**  
Ball Point, Long Type  
Copper Beryllium (CuBe) only



No.	S inch	a inch	l inch	Wt. lbs.	No.	S mm	a mm	l mm	kg
Ex209L-005UB	1/16	9/16	3 <sup>1</sup> / <sub>2</sub>	0.006	Ex209L-1.5B	1.5	14	88	0.0027
Ex209L-010UB	5/64	5/8	3 <sup>15</sup> / <sub>16</sub>	0.014	Ex209L-2B	2	16	99	0.0064
Ex209L-015UB	3/32	11/16	4 <sup>3</sup> / <sub>8</sub>	0.016	Ex209L-2.5B	2.5	18	109	0.0072
Ex209L-020UB	1/8	3/4	5	0.031	Ex209L-3B	3	20	125	0.014
Ex209L-025UB	5/32	1	5 <sup>9</sup> / <sub>16</sub>	0.057	Ex209L-4B	4	25	139	0.026
Ex209L-030UB	3/16	1 <sup>1</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>16</sub>	0.093	Ex209L-5B	5	28	155	0.042
Ex209L-035UB	7/32	1 <sup>1</sup> / <sub>4</sub>	7	0.15	Ex209L-6B	6	32	176	0.066
Ex209L-040UB	1/4	1 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	0.20	Ex209L-7B	7	34	188	0.09
Ex209L-045UB	5/16	1 <sup>7</sup> / <sub>16</sub>	8	0.32	Ex209L-8B	8	36	201	0.14
Ex209L-050UB	7/16	1 <sup>3</sup> / <sub>4</sub>	10 <sup>5</sup> / <sub>16</sub>	0.82	Ex209L-10B	10	40	228	0.25
Ex209L-055UB	1/2	2 <sup>1</sup> / <sub>4</sub>	11	1.39	Ex209L-12B	12	45	258	0.37
					Ex209L-14B	14	56	276	0.63
					Ex209L-17B	17	63	299	0.92



## Ergonomic Handles

- Ergonomic two-component handle on all CS Unitec Screwdrivers.
- Maximum Handgrip prevents slipping.
- Unique design for Safety Tools.



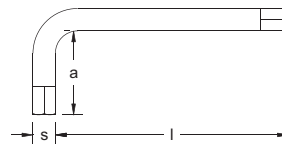
When ordering, specify:

**B = Copper Beryllium**

Example: EX209-005UB

**Ex209**  
**Wrench, Allen / Hex Key**  
(DIN 911)

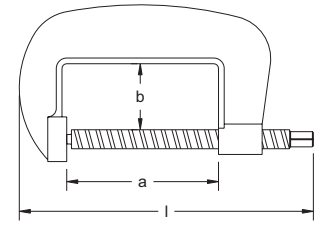
*Copper Beryllium (CuBe) only*



No.	S inch	a inch	l inch	Wt. lbs.
Ex209-005UB	1/16	9/16	13/4	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
Ex209-090UB	7/8	3 3/16	8	2.7600
Ex209-095UB	1	4	10	5.2200
Ex209-100UB	1 1/16	4	10	9.3000
Ex209-105UB	1 1/8	5	12 9/16	9.3000
Ex209-110UB	1 1/4	5	12 9/16	9.3000

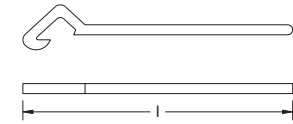
No.	S mm	a mm	l mm	kg
Ex209-1.5B	1.5	14	45	0.0016
Ex209-2B	2	16	50	0.0038
Ex209-2.5B	2.5	18	56	0.0044
Ex209-3B	3	20	63	0.0080
Ex209-4B	4	25	70	0.0140
Ex209-5B	5	28	80	0.0240
Ex209-6B	6	32	90	0.0380
Ex209-7B	7	34	95	0.0520
Ex209-8B	8	36	100	0.0840
Ex209-9B	9	38	105	0.1090
Ex209-10B	10	40	112	0.1340
Ex209-11B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

**Ex211  
 Clamp, Grounding**



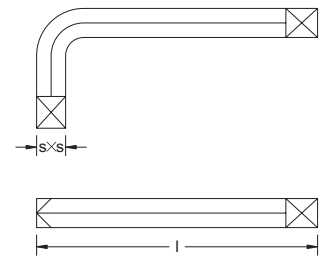
No.	a inch	b inch	l inch	Wt. lbs.	a mm	b mm	l mm	kg
Ex211-160	6 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>8</sub>	7.87	160	69.5	310	3.57

**Ex212  
 Wrench, Gas Tube**



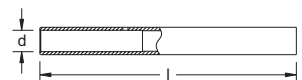
No.	l inch	Wt. lbs.	l mm	kg
Ex212-540	21 <sup>9</sup> / <sub>16</sub>	5.09	540	2.31

**Ex213  
 Wrench, Bung**



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

**Ex216  
 Extension For Box Wrench**



No.	d inch	l inch	Wt. lbs.	d mm	l 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 <sup>3</sup> / <sub>16</sub>	34	6.00	30	850	2.72



When ordering, specify:

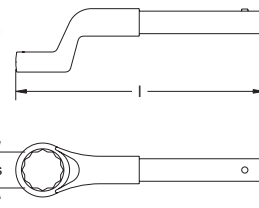
**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX215-005UA

or

EX215-005UB



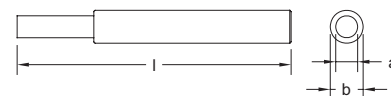
**Ex215**  
**Wrench, Box, For Extension**

No.	S inch	l inch	Wt. lbs.
Ex215-005U	1 <sup>3</sup> / <sub>16</sub>	8	2.03
Ex215-010U	1 <sup>1</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>8</sub>	2.14
Ex215-015U	1 <sup>5</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>8</sub>	2.14
Ex215-020U	1 <sup>3</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>8</sub>	2.14
Ex215-025U	1 <sup>7</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>4</sub>	2.27
Ex215-030U	1 <sup>1</sup> / <sub>2</sub>	10	2.51
Ex215-035U	1 <sup>9</sup> / <sub>16</sub>	10 <sup>9</sup> / <sub>16</sub>	2.78
Ex215-040U	1 <sup>5</sup> / <sub>8</sub>	10 <sup>9</sup> / <sub>16</sub>	2.78
Ex215-045U	1 <sup>11</sup> / <sub>16</sub>	10 <sup>9</sup> / <sub>16</sub>	2.78
Ex215-050U	1 <sup>3</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>16</sub>	3.53
Ex215-055U	1 <sup>13</sup> / <sub>16</sub>	11 <sup>3</sup> / <sub>16</sub>	3.53
Ex215-060U	1 <sup>7</sup> / <sub>8</sub>	11 <sup>3</sup> / <sub>16</sub>	3.53
Ex215-065U	2	11 <sup>3</sup> / <sub>16</sub>	3.90
Ex215-070U	2 <sup>1</sup> / <sub>16</sub>	11 <sup>3</sup> / <sub>16</sub>	3.90
Ex215-075U	2 <sup>1</sup> / <sub>8</sub>	11 <sup>9</sup> / <sub>16</sub>	4.30
Ex215-080U	2 <sup>3</sup> / <sub>16</sub>	11 <sup>9</sup> / <sub>16</sub>	4.30
Ex215-085U	2 <sup>1</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>16</sub>	6.39
Ex215-090U	2 <sup>5</sup> / <sub>16</sub>	13 <sup>3</sup> / <sub>16</sub>	6.39
Ex215-095U	2 <sup>3</sup> / <sub>8</sub>	13 <sup>3</sup> / <sub>16</sub>	6.39
Ex215-100U	2 <sup>7</sup> / <sub>16</sub>	14	6.83
Ex215-105U	2 <sup>1</sup> / <sub>2</sub>	14	6.83
Ex215-110U	2 <sup>9</sup> / <sub>16</sub>	14	6.83
Ex215-115U	2 <sup>5</sup> / <sub>8</sub>	14 <sup>3</sup> / <sub>8</sub>	7.72
Ex215-120U	2 <sup>3</sup> / <sub>4</sub>	14 <sup>3</sup> / <sub>8</sub>	7.72
Ex215-125U	2 <sup>13</sup> / <sub>16</sub>	14 <sup>3</sup> / <sub>8</sub>	7.72

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

**Ex301**  
**Drift, Cylindrical**

*Copper Beryllium (CuBe) only*



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

No.	a mm	b mm	l mm	Wt. 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



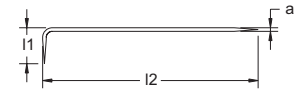
## Unique Range of Safety Tools

- Safety Tools in Copper-Beryllium Alloy or Aluminium-Bronze Alloy.
- Designed for use in Ex / ATEX zones.



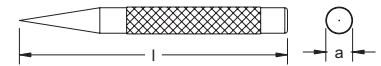


**Ex302**  
**Scriber / Marking Tool**



No.	a inch	l1 inch	l2 inch	Wt. lbs.	a mm	l1 mm	l2 mm	kg
Ex302-3	1/8	13/6	73/16	0.02	3	30	180	0.011
Ex302-4	5/32	13/8	73/4	0.04	4	35	195	0.02
Ex302-5	3/16	19/16	83/8	0.09	5	40	210	0.04
Ex302-6	1/4	13/4	9	0.13	6	45	225	0.06

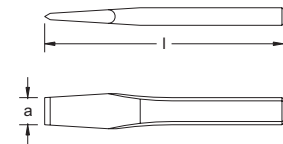
**Ex303**  
**Punch, Center**



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	99/16	1.58
Ex303-020U	1	103/8	1.95
Ex303-025U	1 1/8	113/16	2.45
Ex303-030U	13/16	12	2.95
Ex303-035U	1 1/4	123/4	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

**Ex304**  
**Chisel, Hand**



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



When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX304A-300A

or

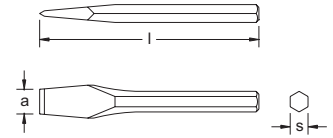
EX304A-300B

Chisel, 6-Point Ex304A

Chisel, 8-Point Ex304S

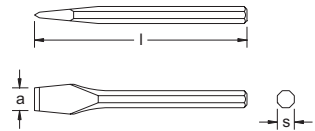
Chisel, Cape Ex305

**Ex304A**  
**Chisel, 6-Point**



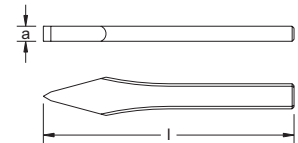
No.	a inch	s inch	l inch	Wt. lbs.	a mm	s mm	l mm	kg
Ex304A-300	5/8	9/16	12	0.95	16	14	300	0.43

**Ex304S**  
**Chisel, 8-Point**



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

**Ex305**  
**Chisel, Cape**



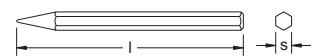
No.	a inch	l inch	Wt. lbs.	a mm	l mm	kg
Ex305-150	7/16	6	0.51	11	150	0.23
Ex305-200	7/16	8	0.81	12	200	0.37
Ex305-300	9/16	12	1.68	14	300	0.76

**Ex306**  
**Chisel, Bull Point**



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

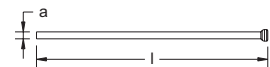
**Ex307**  
**Chisel, Diamond Point**



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

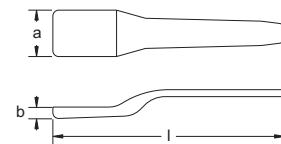
**Ex308**  
**Non-Sparking Needle**  
**For Air Needle Scalers**

*Copper Beryllium (CuBe) only*



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

**Ex308A**  
**Caulking Tool**



No.	a inch	b inch	l inch	Wt. lbs.	a mm	b mm	l mm	kg
Ex308A-200	19/16	3/8	8	0.87	40	10	200	0.40

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

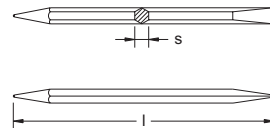
Example: EX308B-32/10A

or

EX308B-32/10B

Caulking Tool Ex308B  
 Chisel, For Machines Ex309AH  
 Chisel, For Machines Ex310AH  
 Chisel, For Machines Ex380SH

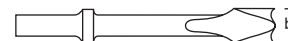
**Ex308B  
 Caulking Tool**



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

**Ex309AH  
 Chisel, For Machines**

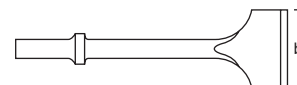
*Copper Beryllium (CuBe) only*



No.	b inch	Wt. lbs.	b mm	kg	Shank
Ex309AH-20B	13/16	0.40	21	0.18	.680 rounded oval

**Ex310AH  
 Chisel, For Machines**

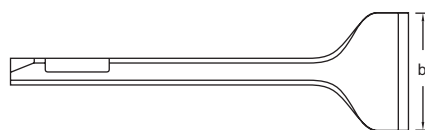
*Copper Beryllium (CuBe) only*



No.	b inch	Wt. lbs.	b mm	kg	Shank
Ex310AH-50B	2	0.49	50	0.22	.401

**Ex380SH  
 Chisel, For Machines**

*Copper Beryllium (CuBe) only*



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



If you don't see it.....we will make it.

- Special designs are made by request.
- Long life cutting edge.



When ordering, specify:

**A** = Aluminum Bronze

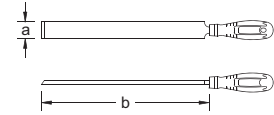
**B** = Copper Beryllium

Example: EX401-18A

or

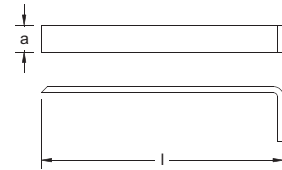
EX401-18B

**Ex401**  
**Scraper, Flat**



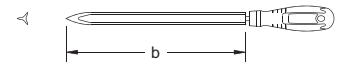
No.	a inch	b inch	Wt. lbs.	a mm	b mm	kg
Ex401-18	11/16	12	0.73	18	300	0.33
Ex401-30	13/16	12	1.17	30	300	0.53

**Ex402**  
**Scraper, Angle**



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

**Ex403**  
**Scraper, Triangular**



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

Scraper, Deck Ex405  
 Scraper, Plate Ex406  
 Scraper, Long Blade, Handle Sold Separately Ex407  
 Spatula Ex408S

When ordering, specify:

**A** = Aluminum Bronze

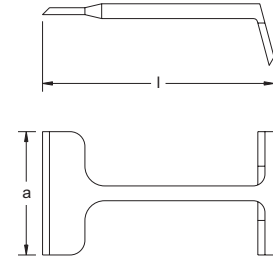
**B** = Copper Beryllium

Example: EX405-75A

or

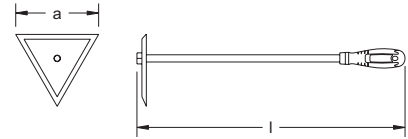
EX405-75B

**Ex405  
Scraper, Deck**



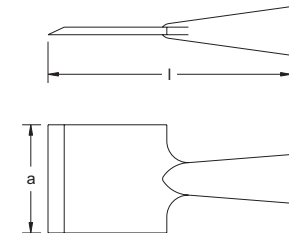
No.	a inch	l inch	Wt. lbs.	a mm	l mm	kg
Ex405-75	3	6	0.79	75	150	0.36
Ex405-125	5	9 <sup>3</sup> / <sub>8</sub>	2.18	125	235	0.99

**Ex406  
Scraper, Plate**



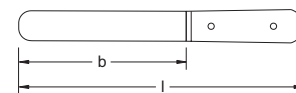
No.	a inch	l inch	Wt. lbs.	a mm	l mm	kg
Ex406-150	6	19 <sup>3</sup> / <sub>8</sub>	2.01	150	485	0.91

**Ex407  
Scraper, Long Blade**  
 Handle Sold Separately



No.	a inch	l inch	Wt. lbs.	a mm	l mm	kg
Ex407-60	2 <sup>3</sup> / <sub>8</sub>	7 <sup>3</sup> / <sub>8</sub>	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 <sup>3</sup> / <sub>16</sub>	2.45	150	180	1.11

**Ex408S  
Spatula**



No.	b inch	l inch	Wt. lbs.	b mm	l mm	kg
Ex408S-248	5 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>4</sub>	0.25	146	248	0.11

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX408-25A

or

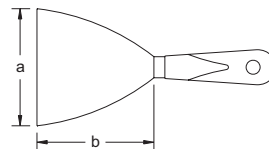
EX408-25B

Knife, Putty / Hand Scraper Ex408

Knife, Common Ex409

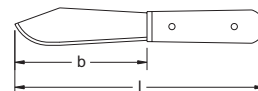
Knife, Common Ex410

Knife, Common Ex410S



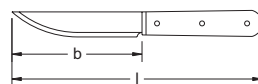
**Ex408**  
**Knife, Putty / Hand Scraper**

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



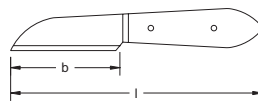
**Ex409**  
**Knife, Common**

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



**Ex410**  
**Knife, Common**

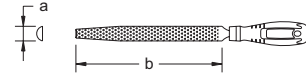
No.	b inch	l inch	Wt. lbs.	b mm	l mm	kg
Ex410-250	5 <sup>3</sup> / <sub>16</sub>	10	0.16	130	250	0.074



**Ex410S**  
**Knife, Common**

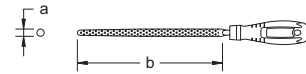
No.	b inch	l inch	Wt. lbs.	b mm	l mm	kg
Ex410S-180	3 <sup>3</sup> / <sub>16</sub>	7 <sup>3</sup> / <sub>16</sub>	0.13	80	180	0.059

**Ex411  
 File, Half Round, Bastard**



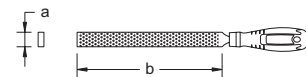
No.	a inch	b inch	Wt. lbs.	a mm	b mm	kg
Ex411-200	3/4	8	0.41	20	200	0.19
Ex411-250	15/16	10	0.73	24	250	0.33

**Ex411R  
 File, Round**



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

**Ex411F  
 File, Flat, Bastard**



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



When ordering, specify:

**A** = Aluminum Bronze

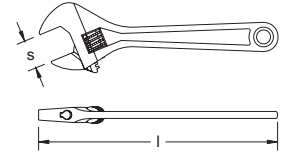
**B** = Copper Beryllium

Example: EX501-6A

or

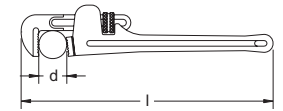
EX501-6B

**Ex501**  
**Wrench, Adjustable End**



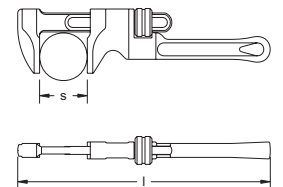
No.	s max inch	l inch	Wt. lbs.	s max mm	l mm	kg
Ex501-6	3/4	6	0.29	19	150	0.13
Ex501-8	15/16	8	0.62	24	200	0.28
Ex501-10	1 1/8	10	1.06	28	250	0.48
Ex501-12	1 3/8	12	1.68	34	300	0.76
Ex501-15	1 3/4	15	3.13	45	375	1.42
Ex501-18	2 3/16	18	6.19	55	450	2.81
Ex501-24	2 3/8	24	10.87	60	600	4.93

**Ex502**  
**Wrench, Pipe**  
(American Type)



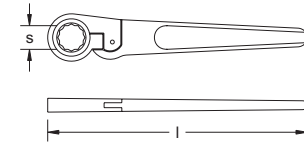
No.	d max inch	l inch	Wt. lbs.	d max mm	l mm	kg
Ex502-6	3/4	6	0.66	20	150	0.30
Ex502-8	1	8	1.04	25	200	0.47
Ex502-10	1 3/16	10	2.25	30	250	1.02
Ex502-12	1 9/16	12	3.26	40	300	1.48
Ex502-14	2	14	3.59	50	350	1.63
Ex502-18	2 3/8	18	6.28	60	450	2.85
Ex502-24	3	24	10.67	75	600	4.84
Ex502-36	3 3/8	36	17.17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

**Ex503**  
**Wrench, Monkey**



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

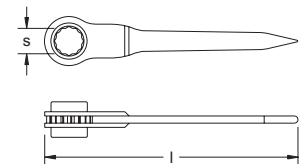
**Ex504  
 Wrench, Ratchet**



No.	s inch	l inch	Wt. lbs.
Ex504-005U	3/8	8 <sup>9</sup> / <sub>16</sub>	0.77
Ex504-010U	1/2	8 <sup>9</sup> / <sub>16</sub>	0.77
Ex504-015U	9/16	8 <sup>9</sup> / <sub>16</sub>	0.77
Ex504-020U	11/16	8 <sup>9</sup> / <sub>16</sub>	0.77
Ex504-025U	3/4	10 <sup>3</sup> / <sub>8</sub>	1.15
Ex504-030U	7/8	10 <sup>3</sup> / <sub>8</sub>	1.32
Ex504-035U	15/16	10 <sup>3</sup> / <sub>8</sub>	1.32
Ex504-040U	1	15 <sup>3</sup> / <sub>4</sub>	2.60
Ex504-045U	1 <sup>1</sup> / <sub>16</sub>	15 <sup>3</sup> / <sub>4</sub>	2.60
Ex504-050U	1 <sup>3</sup> / <sub>16</sub>	15 <sup>3</sup> / <sub>4</sub>	2.84
Ex504-055U	1 <sup>1</sup> / <sub>4</sub>	15 <sup>3</sup> / <sub>4</sub>	2.91
Ex504-060U	1 <sup>7</sup> / <sub>16</sub>	20	4.52
Ex504-065U	1 <sup>5</sup> / <sub>8</sub>	20 <sup>3</sup> / <sub>8</sub>	5.25
Ex504-070U	1 <sup>13</sup> / <sub>16</sub>	29 <sup>9</sup> / <sub>16</sub>	8.73
Ex504-075U	2	29 <sup>9</sup> / <sub>16</sub>	10.85

No.	s mm	l mm	Wt. kg
Ex504-9	9	215	0.35
Ex504-11	11	215	0.35
Ex504-13	13	215	0.35
Ex504-14	14	215	0.35
Ex504-17	17	215	0.35
Ex504-19	19	260	0.52
Ex504-22	22	260	0.60
Ex504-24	24	260	0.60
Ex504-27	27	395	1.18
Ex504-30	30	395	1.29
Ex504-32	32	395	1.32
Ex504-36	36	500	2.05
Ex504-41	41	510	2.38
Ex504-46	46	740	3.96
Ex504-50	50	740	4.92

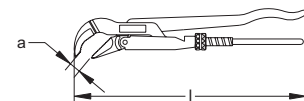
**Ex504S  
 Wrench, Ratchet**



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

No.	s mm	l mm	Wt. 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

**Ex505  
 Pliers, Swedish (DIN 5234)**



No.	a max inch	l inch	Wt. lbs.	a max mm	l mm	Wt. kg
Ex505-005U	1 <sup>9</sup> / <sub>16</sub>	12	1.52	40	300	0.69
Ex505-010U	2 <sup>3</sup> / <sub>16</sub>	16 <sup>3</sup> / <sub>4</sub>	3.28	55	420	1.49
Ex505-015U	2 <sup>11</sup> / <sub>16</sub>	21 <sup>3</sup> / <sub>16</sub>	7.14	67	530	3.24

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX600-2A

or

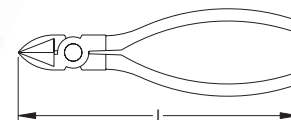
EX600-2B

**Ex600**  
**Wrench, Chain Pipe**



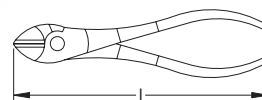
No.	d max inch	l inch	Wt. lbs.	d max mm	l mm	kg
Ex600-2	2	24	3.53	50	600	1.60
Ex600-4	4	24	3.99	100	600	1.81
Ex600-6	6	24	4.39	150	600	1.99
Ex600-12	12	24	5.63	300	1830	2.56

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



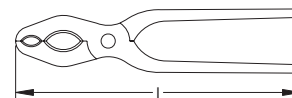
No.	l inch	Wt. lbs.	l mm	kg
Ex601-6B	6 <sup>3/8</sup>	0.40	160	0.18
Ex601-8B	8	0.53	200	0.24

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



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

**Ex602**  
**Pliers, Pipe**



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





## Ergonomic Handles

- Ergonomic two-component handle on all CS Unitec Pliers.
- Maximum Handgrip prevents slipping.
- Unique handle design for Safety Tools.



When ordering, specify:

**A** = Aluminum Bronze

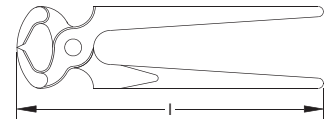
**B** = Copper Beryllium

Example: EX603-7A

or

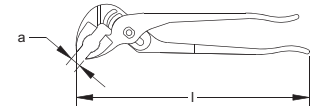
EX603-7B

**Ex603  
Pliers, Cutting**



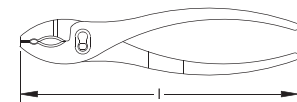
No.	l inch	Wt. lbs.	l mm	kg
Ex603-7	7 <sup>3</sup> / <sub>16</sub>	0.71	180	0.32
Ex603-8	8	1.15	200	0.52

**Ex604  
Pliers, Groove Joint**



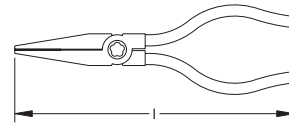
No.	a max inch	l inch	Wt. lbs.	a max mm	l mm	kg
Ex604-10	1 <sup>1</sup> / <sub>8</sub>	10	0.75	28	250	0.34
Ex604-12	1 <sup>7</sup> / <sub>8</sub>	12	1.21	48	300	0.55
Ex604-14	2 <sup>3</sup> / <sub>16</sub>	14	2.60	55	350	1.18
Ex604-16	3 <sup>3</sup> / <sub>16</sub>	17 <sup>3</sup> / <sub>16</sub>	3.66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

**Ex605  
Pliers, Adjustable  
Combination**



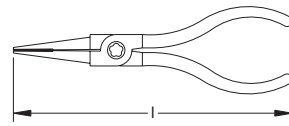
No.	l inch	Wt. lbs.	l mm	kg
Ex605-8	8	0.46	200	0.21

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



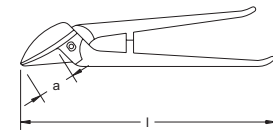
No.	l inch	Wt. lbs.	l mm	kg
Ex606-6	6	0.37	150	0.17

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



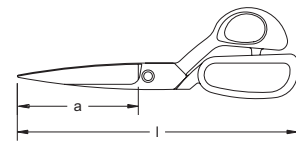
No.	l inch	Wt. lbs.	l mm	kg
Ex607-6	6	0.31	150	0.14

**Ex608**  
**Shears, Cutting**



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

**Ex609**  
**Scissors**



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

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX610-100A

or

EX610-100B

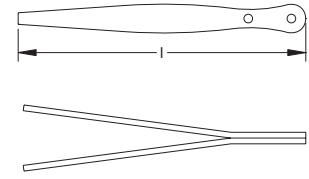
Tweezer Ex610

Tweezer Ex610S

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

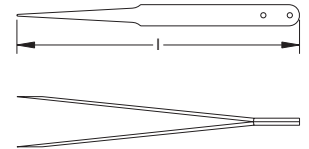
Pliers, Lineman's, Side Cutting Ex612

**Ex610  
Tweezer**



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

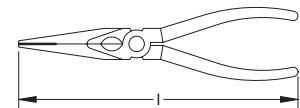
**Ex610S  
Tweezer**



No.	l inch	Wt. lbs.	l mm	kg
Ex610S-155	6 <sup>3</sup> / <sub>16</sub>	0.10	155	0.046

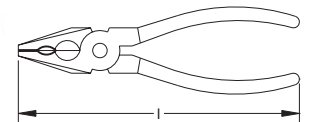
**Ex611  
Pliers, Long-Nose  
w/Side Cutter**

(DIN ISO 5745)



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

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



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

When ordering, specify:

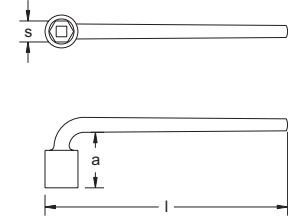
**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX701-005UA

or

EX701-005UB



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

No.	s inch	a inch	l inch	Wt. lbs.
Ex701-005U	1/4	7/8	33/4	0.08
Ex701-010U	5/16	17/16	41/4	0.22
Ex701-015U	11/32	17/16	67/16	0.33
Ex701-020U	3/8	17/16	67/16	0.22
Ex701-025U	13/32	17/16	67/16	0.33
Ex701-030U	7/16	17/16	67/16	0.33
Ex701-035U	1/2	17/16	67/16	0.37
Ex701-040U	9/16	17/16	67/16	0.35
Ex701-045U	19/32	17/16	67/16	0.35
Ex701-050U	5/8	21/16	87/16	0.66
Ex701-055U	11/16	21/16	87/16	0.66
Ex701-060U	3/4	21/16	87/16	0.77
Ex701-065U	25/32	21/16	87/16	0.81
Ex701-070U	13/16	21/4	87/16	0.82
Ex701-075U	7/8	21/4	87/16	0.77
Ex701-080U	15/16	21/4	99/16	0.88
Ex701-085U	31/32	21/4	99/16	0.92
Ex701-090U	1	21/4	99/16	0.98
Ex701-095U	11/16	21/4	99/16	1.04
Ex701-100U	11/8	21/4	99/16	1.01
Ex701-105U	13/16	29/16	103/8	1.85
Ex701-110U	11/4	29/16	103/8	1.79

No.	s mm	a mm	l mm	ΔΔ 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	0.170
Ex701-15	15	37	161	0.160
Ex701-16	16	52	211	0.300
Ex701-17	17	52	211	0.300
Ex701-18	18	52	211	0.350
Ex701-19	19	52	211	0.350
Ex701-20	20	57	211	0.350
Ex701-21	21	57	211	0.370
Ex701-22	22	57	211	0.350
Ex701-23	23	57	240	0.410
Ex701-24	24	57	240	0.400
Ex701-25	25	57	240	0.470
Ex701-26	26	57	240	0.470
Ex701-27	27	57	240	0.470
Ex701-28	28	57	240	0.460
Ex701-29	29	57	240	0.460
Ex701-30	30	65	260	0.840
Ex701-32	32	65	260	0.810



When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

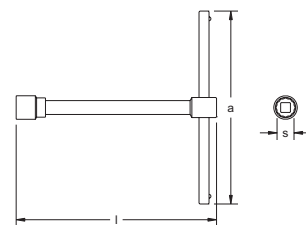
Example: EX702-005UA

or

EX702-005UB

## Ex702 Wrench, Socket

T-Type, 12-Point



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

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

## Ex801 Screwdriver, Standard

Copper Beryllium (CuBe) only

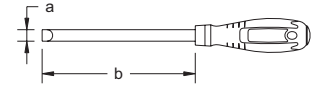


No.	a inch	b inch	Wt. lbs.	a mm	b mm	Wt. kg
Ex801-3B	1/8	3	0.02	3	75	0.0075
Ex801-4B	3/16	4	0.04	4	100	0.016
Ex801-6SB	1/4	4	0.08	6	100	0.038
Ex801-6B	1/4	6	0.11	6	150	0.048
Ex801-8B	5/16	6	0.21	8	150	0.092
Ex801-10SB	3/8	8	0.38	10	200	0.17
Ex801-10B	3/8	12	0.55	10	300	0.25

**Ex801S  
 Screwdriver**

Striking

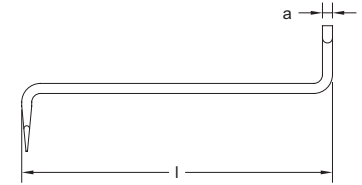
Copper Beryllium (CuBe) only



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

**Ex802  
 Screwdriver, Offset**

Copper Beryllium (CuBe) only

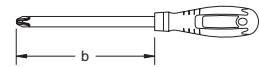


No.	a inch	b inch	Wt. lbs.
Ex802-010UB	1/8	4	0.02
Ex802-020UB	1/4	5 <sup>9</sup> / <sub>16</sub>	0.11
Ex802-030UB	3/8	7 <sup>3</sup> / <sub>16</sub>	0.42
Ex802-040UB	9/16	10	1.10

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

**Ex803  
 Screwdriver, Phillips**

Copper Beryllium (CuBe) only



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

When ordering, specify:

**A** = Aluminum Bronze

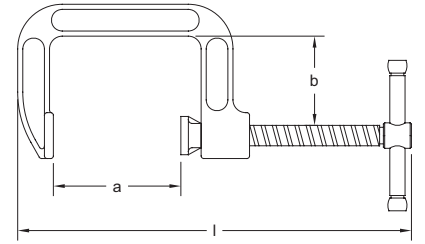
**B** = Copper Beryllium

Example: EX901-100A

or

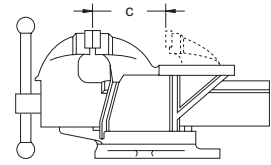
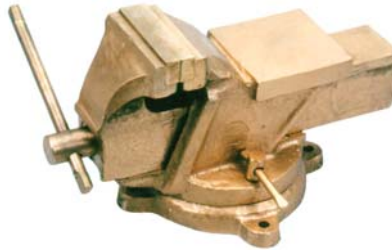
EX901-100B

**Ex901  
Clamp, C-Type**



No.	a max inch	b inch	l inch	Wt. lbs.	a max mm	b mm	l mm	Δ± kg
Ex901-100	4	2 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>8</sub>	3.77	100	70	309	1.71

**Ex902  
Parallel Vise**



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



## Technology

- Shovels are sheet pressed
- Digging tools are designed according to international standards



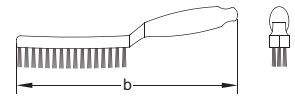
When ordering, specify:

A = Aluminum Bronze

Example: EX1001-3A

**Ex1001**  
**Brush, Straight Handle, Scratch**

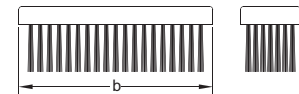
*Aluminum Bronze (AlBr) only*



No.	Rows	b inch	Wt. lbs.	b mm	kg
Ex1001-3A	3	1 13/16	0.33	280	0.15
Ex1001-4A	4	1 13/16	0.44	280	0.20

**Ex1002**  
**Brush, Flat Back, Scratch**

*Aluminum Bronze (AlBr) only*



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

Dust Pan Ex1004  
 Shovel, Square Point with Long Handle Ex1005  
 Shovel, Round Point with Long Handle Ex1006  
 Spade, Edging with D-Grip Ex1007

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

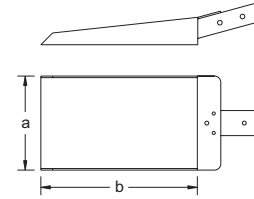
Example: EX1005-250A

or

EX1005-250B

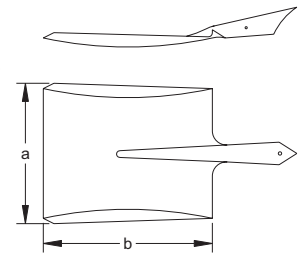
**Ex1004  
Dust Pan**

*Copper Beryllium (CuBe) only*



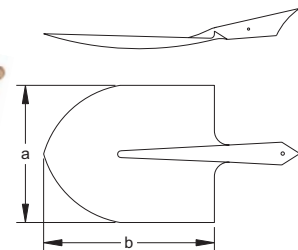
No.	a inch	b inch	Wt. lbs.	a mm	b mm	kg	Handle Length
Ex1004-120B	4 <sup>3</sup> / <sub>4</sub>	8	0.79	120	200	0.36	12.5"/320mm

**Ex1005  
Shovel, Square Point  
With Long Handle**



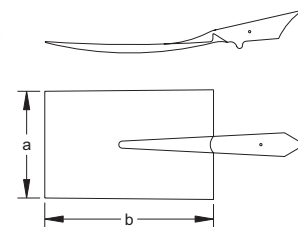
No.	a inch	b inch	Wt. lbs.	a mm	b mm	kg	Handle Length
Ex1005-250	10	12	2.56	250	300	1.16	47"/1200mm

**Ex1006  
Shovel, Round Point  
With Long Handle**



No.	a inch	b inch	Wt. lbs.	a mm	b mm	kg	Handle Length
Ex1006-243	9 <sup>11</sup> / <sub>16</sub>	12	2.82	243	300	1.28	47"/1200mm

**Ex1007  
Spade, Edging  
With D-Grip**



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

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX1008-420A

or

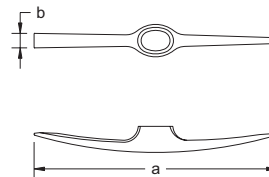
EX1008-420B

Pick, Railroad or Clay (Handle Included) Ex1008

Rake (Handle Included) Ex1009

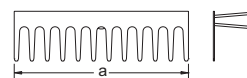
Fork, Garden (Handle included) Ex1010

Hoe, Planters' / Mixing, Angled Blade (Handle Included) Ex1015



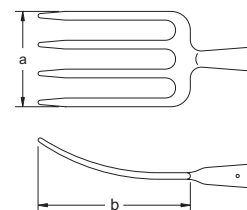
**Ex1008**  
**Pick, Railroad or Clay**  
(Handle included)

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



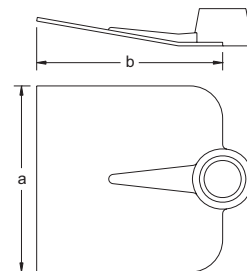
**Ex1009**  
**Rake**  
(Handle included)

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



**Ex1010**  
**Fork, Garden**  
(Single Cast, Handle included)

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



**Ex1015**  
**Hoe, Planters' / Mixing, Angled Blade**  
(Handle included)

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

Bucket Ex1017  
 Wedge, Flange Ex1101  
 Wedge, Banana Ex1101B

When ordering, specify:

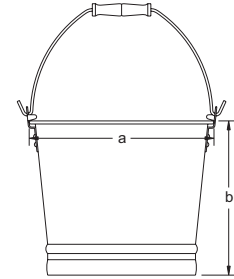
**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX1017-300A

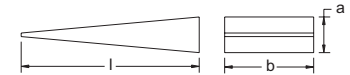
or

EX1017-300B



**Ex1017  
 Bucket**

No.	a inch	b inch	Wt. lbs.	a mm	b mm	kg
Ex1017-300	12	10	1.28	300	250	0.58

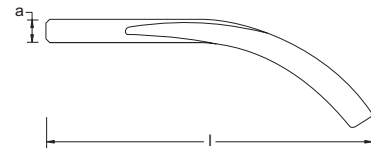


**Ex1101  
 Wedge, Flange**

No.	a inch	b inch	l inch	Wt. lbs.
Ex1101-1	1/4	9/16	3-3/16	0.04
Ex1101-2	1/2	3/4	4-1/16	0.18
Ex1101-3	1/2	1	6	0.42
Ex1101-4	3/4	1-1/2	6	0.92
Ex1101-5	1/2	1-1/4	3-3/16	0.64
Ex1101-6	3/4	2	3-3/16	1.56
Ex1101-7	1-5/8	1-1/2	8	2.50
Ex1101-8	1	1-1/2	8	1.72
Ex1101-9	3/4	2	8	1.66
Ex1101-10	1-1/4	2	8	2.96
Ex1101-11	3/8	2	7	1.20
Ex1101-12	3/8	2	3-9/16	0.40
Ex1101-13	1/2	1-1/8	4-1/2	0.88
Ex1101-14	3/4	1-1/2	9	2.19
Ex1101-15	3/4	1-1/4	6	1.38
Ex1101-16	3/4	2	6	2.00
Ex1101-17	5/16	1	6	0.82

**Ex1101B  
 Wedge, Banana**

*Copper Beryllium (CuBe) only*



No.	a inch	l inch	Wt. lbs.
Ex1101B-20B	3/4	12	1.6



When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX1102-60A

or

EX1102-60B

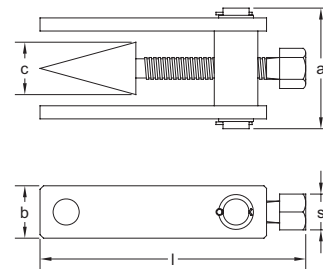
Flange Spreader Ex1102

Axe Ex1201

Hatchet Ex1202

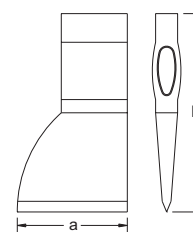
Bar, Pinch Ex1301

## Ex1102 Flange Spreader



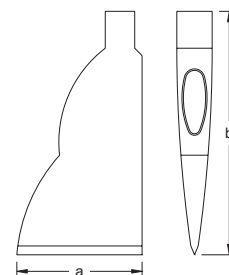
No.	a inch	b inch	c inch	s inch	l inch	Wt. lbs.	a mm	b mm	c mm	s mm	l mm	Δ kg
Ex1102-60	5 <sup>9</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>13</sup> / <sub>16</sub>	12 <sup>3</sup> / <sub>16</sub>	14.53	140	60	60	46	305	6.59

## Ex1201 Axe



No.	a inch	b inch	Wt. lbs.	a mm	b mm	Δ kg	Handle Length
Ex1201-100	4	7 <sup>3</sup> / <sub>16</sub>	4.19	100	180	1.90	14"/360mm

## Ex1202 Hatchet



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

## Ex1301 Bar, Pinch



No.	s inch	l inch	Wt. lbs.	s mm	l mm	Δ 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 <sup>1</sup> / <sub>8</sub>	40	11.04	28	1000	5.01
Ex1301-1000L	1 <sup>3</sup> / <sub>16</sub>	40	12.50	30	1000	5.67



## The shape makes a difference

- CS Unitec Sockets are manufactured with a Round Corner
- Drop forged for high strength
- Designed according to DIN Standards

When ordering, specify:

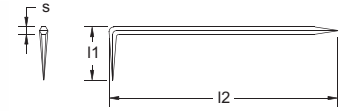
A = Aluminum Bronze

B = Copper Beryllium

Example: EX1302-300A

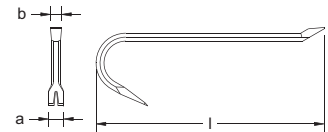
or

EX1302-300B



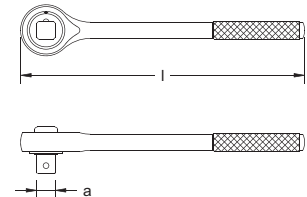
**Ex1302**  
**Angle Tracing Point**

No.	s inch	l1 inch	l2 inch	Wt. lbs.	s mm	l1 mm	l2 mm	kg
Ex1302-300	5/8	4 <sup>5</sup> / <sub>8</sub>	12	1.28	16	116	300	0.58
Ex1302-500	5/8	4 <sup>5</sup> / <sub>8</sub>	20	2.11	16	116	500	0.96
Ex1302-600	3/4	5 <sup>9</sup> / <sub>16</sub>	24	3.93	20	140	600	1.78
Ex1302-800	7/8	6 <sup>7</sup> / <sub>16</sub>	32	6.30	22	162	800	2.86



**Ex1303**  
**Bar, Crow**

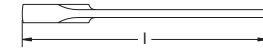
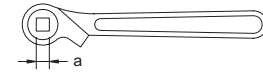
No.	a inch	b inch	l inch	Wt. lbs.	a mm	b mm	l mm	kg
Ex1303-460	1 <sup>3</sup> / <sub>16</sub>	7/8	18 <sup>3</sup> / <sub>8</sub>	3.06	30	22	460	1.39
Ex1303-600	1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	24	5.07	35	28	600	2.30
Ex1303-760	1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> /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



**Ex1501S**  
**Wrench, Ratchet**

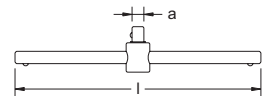
No.	a inch	l inch	Wt. lbs.	l mm	kg
Ex1501S-AA	1/4	6	0.35	150	0.16
Ex1501S-A	3/8	6	0.35	150	0.16
Ex1501S-B	1/2	10 <sup>3</sup> / <sub>8</sub>	1.32	260	0.60
Ex1501S-C	3/4	15 <sup>9</sup> / <sub>16</sub>	5.03	390	2.28
Ex1501S-D	1	16	5.25	410	2.40

**Ex1501  
 Wrench, Ratchet**



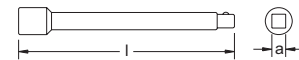
No.	a inch	l inch	Wt. lbs.	l mm	kg
Ex1501-AA	1/4	7 <sup>3</sup> / <sub>16</sub>	0.49	180	0.22
Ex1501-A	3/8	7 <sup>3</sup> / <sub>16</sub>	0.49	180	0.22
Ex1501-B	1/2	10	0.99	250	0.45
Ex1501-C	3/4	15 <sup>9</sup> / <sub>16</sub>	3.31	390	1.50
Ex1501-D	1	15 <sup>9</sup> / <sub>16</sub>	3.31	390	1.50

**Ex1502  
 Bar, Sliding**



No.	a inch	l inch	Wt. lbs.	l mm	kg
Ex1502-AA	1/4	6	0.15	150	0.068
Ex1502-A	3/8	7 <sup>3</sup> / <sub>16</sub>	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

**Ex1504  
 Bar, Extension**



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



When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX1504S-AAA

or

EX1504S-AAB

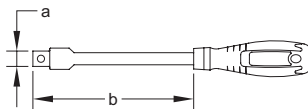
Driver Handle Ex1504S

Wrench Handle, Speed Ex1505

Wrench Handle, Hinged Ex1506

Universal Joint Ex1507

### Ex1504S Driver Handle



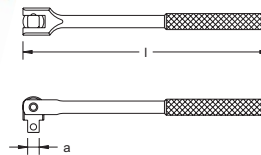
No.	a inch	l inch	Wt. lbs.	l mm	kg
Ex1504S-AA	1/4	2 <sup>3</sup> / <sub>4</sub>	0.057	70	0.026
Ex1504S-A	3/8	4 <sup>9</sup> / <sub>16</sub>	0.19	115	0.087

### Ex1505 Wrench Handle, Speed



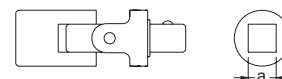
No.	a inch	l inch	Wt. lbs.	l mm	kg
Ex1505-AA	1/4	13	1.10	325	0.50
Ex1505-A	3/8	14	1.21	350	0.55
Ex1505-B	1/2	15 <sup>3</sup> / <sub>16</sub>	1.28	380	0.58
Ex1505-C	3/4	16	3.19	400	1.45
Ex1505-D	1	17	3.42	425	1.55

### Ex1506 Wrench Handle, Hinged



No.	a inch	l inch	Wt. lbs.	l mm	kg
Ex1506-AA	1/4	5 <sup>3</sup> / <sub>4</sub>	0.29	145	0.13
Ex1506-A	3/8	8	0.49	200	0.22
Ex1506-B	1/2	12	2.2	300	1.00
Ex1506-C	3/4	14 <sup>3</sup> / <sub>8</sub>	2.65	360	1.20
Ex1506-D	1	14 <sup>3</sup> / <sub>8</sub>	4.12	360	1.87

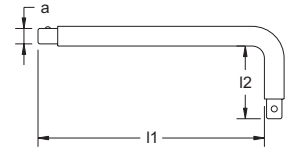
### Ex1507 Universal Joint



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

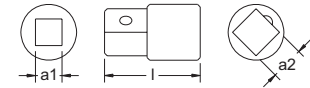


**Ex1508**  
**Offset Grip Handle**  
 Copper Beryllium (CuBe) only



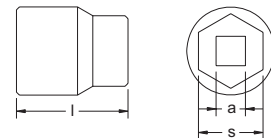
No.	a inch	l1 inch	l2 inch	Wt. lbs.	l1 mm	l2 mm	kg
Ex1508A-B	3/8	6 <sup>11</sup> / <sub>16</sub>	2	0.66	168	50	0.30
Ex1508B-B	1/2	7 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>16</sub>	0.93	184	55	0.42
Ex1508C-B	3/4	9 <sup>9</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>	1.65	240	60	0.75
Ex1508D-B	1	11	2 <sup>9</sup> / <sub>16</sub>	2.47	275	65	1.12

**Ex1509**  
**Adapter/Converter**



No.	a1 inch	a2 inch	l inch	Wt. lbs.	l mm	kg
Ex1509AB	3/8	1/2	1 <sup>7</sup> / <sub>16</sub>	0.16	36	0.072
Ex1509BC	1/2	3/4	1 <sup>3</sup> / <sub>4</sub>	0.31	44	0.14
Ex1509CB	3/4	1/2	1 <sup>7</sup> / <sub>8</sub>	0.44	47	0.20
Ex1509CD	3/4	1	2 <sup>3</sup> / <sub>8</sub>	0.71	60	0.32
Ex1509DC	1	3/4	2 <sup>7</sup> / <sub>16</sub>	0.97	62	0.44

**Ex1503AA**  
**Socket 1/4" Drive**



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

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

When ordering, specify:

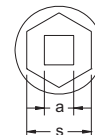
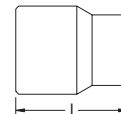
**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX1503A-005UA

OR

EX1503A-005UB



## Ex1503A Socket 3/8" Drive

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

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

## Ex1503B Socket 1/2" Drive

No.	a inch	s inch	l inch	Wt. lbs.
Ex1503B-005U	1/2	1/4	1 1/2	0.15
Ex1503B-010U	1/2	5/16	1 1/2	0.18
Ex1503B-015U	1/2	3/8	1 1/2	0.18
Ex1503B-020U	1/2	7/16	1 1/2	0.18
Ex1503B-025U	1/2	1/2	1 1/2	0.18
Ex1503B-030U	1/2	9/16	1 1/2	0.18
Ex1503B-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	11/16	1 9/16	0.40
Ex1503B-075U	1/2	1 1/8	1 9/16	0.44
Ex1503B-080U	1/2	13/16	1 11/16	0.46
Ex1503B-085U	1/2	1 1/4	1 11/16	0.51
Ex1503B-090U	1/2	15/16	1 11/16	0.55
Ex1503B-095U	1/2	13/8	1 11/16	0.60
Ex1503B-100U	1/2	17/16	1 11/16	0.64
Ex1503B-110U	1/2	1 1/2	1 11/16	0.69

No.	a inch	s mm	l mm	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



Socket Kits  
See pages 76-77, 79



When ordering, specify:

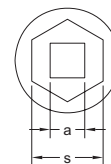
**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX1610-005UA

OR

EX1610-005UB



### Ex1610 Socket, Standard Deep 1/4" Drive

No.	a inch	s inch	l inch	Wt. lbs.
Ex1610-005U	1/4	1/8		
Ex1610-010U	1/4	3/16		
Ex1610-012U	1/4	7/32		
Ex1610-015U	1/4	1/4		
Ex1610-017U	1/4	9/32		
Ex1610-020U	1/4	5/16		
Ex1610-022U	1/4	11/32		
Ex1610-025U	1/4	3/8		
Ex1610-030U	1/4	7/16		
Ex1610-035U	1/4	1/2		
Ex1610-040U	1/4	9/16		

No.	a inch	s mm	l mm	Wt. kg
Ex1610-3	1/4	3		
Ex1610-4	1/4	4		
Ex1610-4.5	1/4	4.5		
Ex1610-5	1/4	5		
Ex1610-5.5	1/4	5.5		
Ex1610-6	1/4	6		
Ex1610-7	1/4	7		
Ex1610-8	1/4	8		
Ex1610-9	1/4	9		
Ex1610-10	1/4	10		
Ex1610-11	1/4	11		
Ex1610-12	1/4	12		
Ex1610-13	1/4	13		
Ex1610-14	1/4	14		

### Ex1620 Socket, Standard Deep 3/8" Drive

No.	a inch	s inch	l inch	Wt. lbs.
Ex1620-005U	3/8	1/4		
Ex1620-010U	3/8	5/16		
Ex1620-015U	3/8	3/8		
Ex1620-020U	3/8	7/16		
Ex1620-025U	3/8	1/2		
Ex1620-030U	3/8	9/16		
Ex1620-035U	3/8	5/8		
Ex1620-040U	3/8	11/16		
Ex1620-045U	3/8	3/4		
Ex1620-050U	3/8	13/16		
Ex1620-055U	3/8	7/8		
Ex1620-060U	3/8	15/16		
Ex1620-065U	3/8	1		

No.	a inch	s mm	l mm	Wt. kg
Ex1620-6	3/8	6		
Ex1620-7	3/8	7		
Ex1620-8	3/8	8		
Ex1620-9	3/8	9		
Ex1620-10	3/8	10		
Ex1620-11	3/8	11		
Ex1620-12	3/8	12		
Ex1620-13	3/8	13		
Ex1620-14	3/8	14		
Ex1620-15	3/8	15		
Ex1620-16	3/8	16		
Ex1620-17	3/8	17		
Ex1620-18	3/8	18		
Ex1620-19	3/8	19		
Ex1620-20	3/8	20		
Ex1620-21	3/8	21		
Ex1620-22	3/8	22		
Ex1620-23	3/8	23		
Ex1620-24	3/8	24		
Ex1620-25	3/8	25		



**Socket Kits**  
See pages 76-77, 79





When ordering, specify:

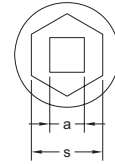
**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX1630-005UA

or

EX1630-005UB



## Ex1630 Socket, Standard Deep 1/2" Drive

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

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

When ordering, specify:

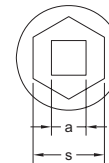
**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX1640-005UA

or

EX1640-005UB



## Ex1640 Socket, Standard Deep 3/4" Drive

No.	a inch	s inch	l inch	Wt. lbs.	No.	a inch	s mm	l mm	kg
Ex1640-005U	3/4	3/4			Ex1640-19	3/4	19		
Ex1640-010U	3/4	13/16			Ex1640-20	3/4	20		
Ex1640-015U	3/4	7/8			Ex1640-21	3/4	21		
Ex1640-020U	3/4	15/16			Ex1640-22	3/4	22		
Ex1640-025U	3/4	1			Ex1640-23	3/4	23		
Ex1640-030U	3/4	1 1/16			Ex1640-24	3/4	24		
Ex1640-035U	3/4	1 1/8			Ex1640-25	3/4	25		
Ex1640-040U	3/4	1 3/16			Ex1640-26	3/4	26		
Ex1640-045U	3/4	1 1/4			Ex1640-27	3/4	27		
Ex1640-050U	3/4	1 5/16			Ex1640-28	3/4	28		
Ex1640-055U	3/4	1 3/8			Ex1640-29	3/4	29		
Ex1640-060U	3/4	1 7/16			Ex1640-30	3/4	30		
Ex1640-065U	3/4	1 1/2			Ex1640-31	3/4	31		
Ex1640-070U	3/4	1 9/16			Ex1640-32	3/4	32		
Ex1640-075U	3/4	1 5/8			Ex1640-33	3/4	33		
Ex1640-080U	3/4	1 11/16			Ex1640-34	3/4	34		
Ex1640-085U	3/4	1 3/4			Ex1640-35	3/4	35		
Ex1640-090U	3/4	1 13/16			Ex1640-36	3/4	36		
Ex1640-095U	3/4	1 7/8			Ex1640-37	3/4	37		
Ex1640-100U	3/4	1 15/16			Ex1640-38	3/4	38		
Ex1640-105U	3/4	2			Ex1640-39	3/4	39		
Ex1640-110U	3/4	2 1/16			Ex1640-40	3/4	40		
Ex1640-115U	3/4	2 1/8			Ex1640-41	3/4	41		
Ex1640-120U	3/4	2 3/16			Ex1640-42	3/4	42		
Ex1640-125U	3/4	2 1/4			Ex1640-43	3/4	43		
Ex1640-130U	3/4	2 5/16			Ex1640-44	3/4	44		
Ex1640-135U	3/4	2 3/8			Ex1640-45	3/4	45		
					Ex1640-46	3/4	46		
					Ex1640-47	3/4	47		
					Ex1640-48	3/4	48		
					Ex1640-49	3/4	49		
					Ex1640-50	3/4	50		
					Ex1640-52	3/4	52		
					Ex1640-55	3/4	55		
					Ex1640-60	3/4	60		

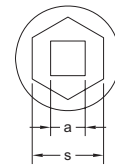
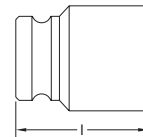


When ordering, specify:

**B = Copper Beryllium**

Example: EX1730-005UB

Socket, Impact 1/2" Drive Ex1730  
Socket, Impact 3/4" Drive Ex1740



**Ex1730**

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

*Copper Beryllium (CuBe) only*

No.	a inch	s inch	l inch	Wt. lbs.
Ex1730-005UB	1/2	5/16	19/16	0.24
Ex1730-010UB	1/2	3/8	19/16	0.24
Ex1730-015UB	1/2	7/16	19/16	0.24
Ex1730-020UB	1/2	1/2	19/16	0.24
Ex1730-025UB	1/2	9/16	19/16	0.24
Ex1730-030UB	1/2	5/8	19/16	0.37
Ex1730-035UB	1/2	11/16	19/16	0.37
Ex1730-040UB	1/2	3/4	19/16	0.37
Ex1730-045UB	1/2	13/16	19/16	0.40
Ex1730-050UB	1/2	7/8	19/16	0.44
Ex1730-055UB	1/2	15/16	19/16	0.44
Ex1730-060UB	1/2	1	19/16	0.44
Ex1730-065UB	1/2	11/16	19/16	0.46
Ex1730-070UB	1/2	11/8	19/16	0.49
Ex1730-075UB	1/2	13/16	19/16	0.53

No.	a inch	s mm	l mm	Wt. 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*

No.	a inch	s inch	l inch	Wt. lbs.
Ex1740-005UB	3/4	3/4	115/16	1.04
Ex1740-010UB	3/4	13/16	115/16	1.04
Ex1740-015UB	3/4	7/8	115/16	1.04
Ex1740-020UB	3/4	15/16	115/16	1.04
Ex1740-030UB	3/4	11/16	2	1.06
Ex1740-035UB	3/4	11/8	2	1.04
Ex1740-040UB	3/4	13/16	2	1.10
Ex1740-045UB	3/4	11/4	21/8	1.26
Ex1740-050UB	3/4	13/8	21/8	1.32
Ex1740-055UB	3/4	17/16	21/4	1.46
Ex1740-070UB	3/4	15/8	25/16	1.72

No.	a inch	s mm	l mm	Wt. 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 Certified for use in Ex Zones**  
**Ex II 2 GcT6 and Ex II 2 GcT5**

See page 82

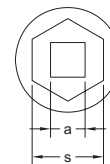




When ordering, specify:

**B = Copper Beryllium**

Example: EX1830-005UB



**Ex1830**

**Socket, Deep Impact 1/2" Drive**

*Copper Beryllium (CuBe) only*

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

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

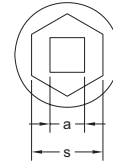
**Ex1840**

**Socket, Deep Impact 3/4" Drive**

*Copper Beryllium (CuBe) only*

No.	a inch	s inch	l inch	Wt. lbs.
Ex1840-005UB	3/4	3/4		
Ex1840-010UB	3/4	13/16		
Ex1840-015UB	3/4	7/8		
Ex1840-020UB	3/4	15/16		
Ex1840-025UB	3/4	1		
Ex1840-030UB	3/4	1 1/16		
Ex1840-035UB	3/4	1 1/8		
Ex1840-040UB	3/4	1 3/16		
Ex1840-045UB	3/4	1 1/4		
Ex1840-050UB	3/4	1 3/8		
Ex1840-055UB	3/4	1 7/16		
Ex1840-060UB	3/4	1 1/2		
Ex1840-065UB	3/4	1 9/16		
Ex1840-070UB	3/4	1 5/8		
Ex1840-075UB	3/4	1 11/16		
Ex1840-080UB	3/4	1 3/4		
Ex1840-085UB	3/4	1 13/16		
Ex1840-090UB	3/4	1 7/8		
Ex1840-095UB	3/4	1 15/16		
Ex1840-100UB	3/4	2		

No.	a inch	s inch	l inch	Wt. lbs.
Ex1840-19B	3/4	3/4		
Ex1840-21B	3/4	13/16		
Ex1840-22B	3/4	7/8		
Ex1840-23B	3/4	15/16		
Ex1840-24B	3/4	1		
Ex1840-27B	3/4	1 1/16		
Ex1840-29B	3/4	1 1/8		
Ex1840-30B	3/4	1 3/16		
Ex1840-32B	3/4	1 1/4		
Ex1840-34B	3/4	1 3/8		
Ex1840-36B	3/4	1 7/16		
Ex1840-41B	3/4	1 1/2		
Ex1840-46B	3/4	1 9/16		



**Ex1850**  
**Socket, Deep Impact 1" Drive**  
*Copper Beryllium (CuBe) only*

No.	a inch	s inch	l inch	Wt. lbs.
Ex1850-005UB	1	7/8		
Ex1850-010UB	1	15/16		
Ex1850-015UB	1	1 1/16		
Ex1850-020UB	1	1 3/16		
Ex1850-025UB	1	1 1/4		
Ex1850-030UB	1	1 3/8		
Ex1850-035UB	1	1 7/16		
Ex1850-040UB	1	1 1/2		
Ex1850-045UB	1	1 5/8		
Ex1850-050UB	1	1 11/16		
Ex1850-055UB	1	1 13/16		
Ex1850-060UB	1	2		
Ex1850-065UB	1	2 3/16		
Ex1850-070UB	1	2 3/8		
Ex1850-075UB	1	2 9/16		
Ex1850-080UB	1	2 3/4		

No.	a inch	s mm	l mm	Wt. kg
Ex1850-22B	1	22		
Ex1850-24B	1	24		
Ex1850-27B	1	27		
Ex1850-30B	1	30		
Ex1850-32B	1	32		
Ex1850-34B	1	34		
Ex1850-36B	1	36		
Ex1850-38B	1	38		
Ex1850-41B	1	41		
Ex1850-42B	1	42		
Ex1850-43B	1	43		
Ex1850-46B	1	46		
Ex1850-50B	1	50		
Ex1850-55B	1	55		
Ex1850-60B	1	60		
Ex1850-65B	1	65		
Ex1850-70B	1	70		

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

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

No.	a inch	s mm	l mm	Wt. kg
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		



**Impact Wrenches - Pneumatic and Hydraulic**  
 1/2", 3/4", 1" and 1-1/2" Sq. Drive  
**ATEX Certified for use in Ex Zones**  
**Ex II 2 GcT6 and Ex II 2 GcT5**  
 See page 82



When ordering, specify:

**A** = Aluminum Bronze

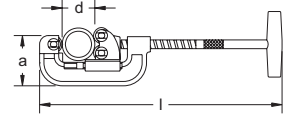
**B** = Copper Beryllium

Example: EX1512-60A

or

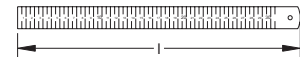
EX1512-60B

## Ex1512 Pipe Cutter



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

## Ex1601 Ruler



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





## CS Unitec Tool Kits

- Socket Sets
- Wall-mounted Kits
- Custom-designed Kits
- Wood Cases

When ordering, specify:

**A** = Aluminum Bronze

**B** = Copper Beryllium

Example: EX206-KitA

or

EX206-KitB

**Ex801-Kit B**

**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-Kit B**

**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



**Ex2204-Kit**

**5-piece Kit**  
(Pouch included)

No.	Dimensions	Quantity	Description
Ex801-6B	1/4" x 6"	1	Screwdriver - Flat
Ex605-8	8"	1	Combination Pliers
EX113S-230	9"	1	Crate Opener
Ex501-8	8"	1	Adjustable End Wrench

**Ex2206-Kit**

**7-piece Kit**  
(Pouch included)

No.	Dimensions	Quantity	Description
Ex801-6B	1/4" x 6"	1	Screwdriver - Flat
Ex605-8	8"	1	Combination Pliers
EX113S-230	9"	1	Crate Opener
Ex501-8	8"	1	Adjustable End Wrench
Ex803-2B	No. 2 x 4"	1	Screwdriver - Cross
Ex604-10	10"	1	Groove Joint Pliers



**Ex1520-Kit**

**Sockets 1/4" Drive - 15-piece Kit**

(Case included)

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
Ex1506-005U	1/4" drive	1	Hinged Handle

**Ex1530-Kit**

**Sockets 1/2" Drive - 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
Ex1506-015U	1/2" drive	1	Hinged Handle

**Ex1535-Kit**

**Sockets 1/2" Drive - 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
Ex1506-015U	1/2" drive	1	Hinged Handle



When ordering, specify:

**A = Aluminum Bronze**

**B = Copper Beryllium**

Example: EX1540-KitA

or

EX1540-KitB



**Ex1540-Kit**

**Sockets 3/4" Drive - 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
Ex1506-020U	3/4" drive	1	Hinged Handle

**Ex2200-Kit**

**Marine Kit**

(Box Included)

No.	Dimensions	Quantity	Description
Ex1303-900	1-3/8" x 36"	1	Crow Bar
Ex501-10	10"	1	Adjustable End Wrench
Ex501-12	12"	1	Adjustable End Wrench
Ex501-14	14"	1	Adjustable End Wrench
Ex101-0450	1 lb.	1	Ball Peen Hammer
Ex101-0900	2 lb.	1	Ball Peen Hammer
Ex106-0400	.9 lb.	3	Scaling Hammer
Ex104-2000	4.4 lb.	1	Sledge
Ex402-50	2"	3	Angle Scraper
Ex407-100	4"	3	Long Blade Scraper
Ex406-150	6"	3	Plate Scraper
Ex801-10B	3/8" x 12"	1	Screwdriver - Standard
Ex803-3B	No. 3 x 6"	1	Screwdriver - Phillips
Ex1005-250	10" x 12" blade	2	D-Handle Shovel
Ex305-200	8"	1	Cape Chisel
Ex306-300	12"	1	Bull Point Chisel
Ex502-10	10"	1	Pipe Wrench
Ex502-14	14"	1	Pipe Wrench
Ex502-18	18"	1	Pipe Wrench



When ordering, specify:

**A = Aluminum Bronze**
**B = Copper Beryllium**

Example: EX2211-KitA

or

EX2211-KitB

**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
Ex122-0500	1.1 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

**Ex2300-Haz**
**HazMat Kit**

No.	Dimensions	Quantity	Description
Ex122-0500	1.1 lb.	1	Claw Hammer
Ex113S-230	10"	1	Crate Opener
Ex405-125	5"	1	Deck Scraper
Ex406-150	6" x 19-3/8"	1	Plate Scraper
Ex408-30	1-3/16"	1	Putty Knife
Ex410-250	10"	1	Common Knife
Ex501-8	8"	1	Adjustable End Wrench
Ex501-12	12"	1	Adjustable End Wrench
Ex502-14	14"	1	Pipe Wrench
Ex605-8	8"	1	Adjustable Pliers
Ex604-12	12"	1	Groove Joint Pliers
Ex611-7	7-3/16"	1	Long Nose Pliers
Ex608-275	11"	1	Cutting Shears
Ex801-8B	5/16" x 6"	1	Screwdriver - Standard
Ex803-3B	No. 3 x 6"	1	Screwdriver - Phillips
Ex1001-4A	4 Rows	1	Brass Brush



When ordering, specify:

**A = Aluminum Bronze**

**B = Copper Beryllium**

Example: EX1500-KitA

or

EX1500-KitB



## Ex1500-Kit 28-piece Kit

(Case included)

No.	Dimensions	Quantity	Description
Ex1503B-005U	1/4"	1	1/2" drive socket
Ex1503B-010U	5/16"	1	1/2" drive socket
Ex1503B-015U	3/8"	1	1/2" drive socket
Ex1503B-020U	7/16"	1	1/2" drive socket
Ex1503B-025U	1/2"	1	1/2" drive socket
Ex1503B-030U	9/16"	1	1/2" drive socket
Ex1503B-035U	5/8"	1	1/2" drive socket
Ex1503B-040U	11/16"	1	1/2" drive socket
Ex1503B-045U	3/4"	1	1/2" drive socket
Ex1503B-050U	13/16"	1	1/2" drive socket
Ex1503B-055U	7/8"	1	1/2" drive socket
Ex1503B-060U	15/16"	1	1/2" drive socket
Ex1503B-065U	1"	1	1/2" drive socket
Ex1503B-070U	1-1/16"	1	1/2" drive socket
Ex1503B-075U	1-1/8"	1	1/2" drive socket
Ex1503B-080U	1-3/16"	1	1/2" drive socket
Ex1503B-085U	1-1/4"	1	1/2" drive socket
Ex1503B-090U	1-5/16"	1	1/2" drive socket
Ex1503B-095U	1-3/8"	1	1/2" drive socket
Ex1503B-100U	1-7/16"	1	1/2" drive socket
Ex1503B-110U	1-1/2"	1	1/2" drive socket
Ex1501-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
Ex1506-015U	1/2" drive	1	Hinged Handle
Ex1507B	1/2" drive	1	Universal joint

## Ex2000-Kit B 24-piece Kit

*Copper Beryllium (CuBe) only*

(Case included)

No.	Dimensions	Quantity	Description
Ex101-0500B	1.1 lb	1	Ball Peen Hammer
Ex104-2500B	5.5 lb	1	Sledge Hammer
Ex106-0400B	.9 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
Wooden Box			

# AIR AND HYDRAULIC TOOLS *for Ex and ATEX zones*



**Ex II 2 GcT5**  
(Model No. 5 1217 0020)

- Air reciprocating saws for cutting steel and pipe up to 6" dia.
- ATEX hydraulic models also available

**ATEX Certified  
Air and Hydraulic Tools**

**Ex II 2 GcT5**  
(Model Nos. 5 1212 0050  
and 5 1212 0010)

- Portable air hacksaws for on-site cutting of pipe up to 30" OD and structural steel
- ATEX hydraulic models also available



**Ex II 2 GcT6**  
(Model No. 2 2404 0010)

- Pneumatic SDS Plus and SDS Max rotary hammer drills
- Hydraulic models also available



**Ex IM 2 cT6**  
(Model Nos. 6 1014 0010, 6 1055 0010, 6 1056 0010,  
6 1057 0010 and 6 1061 0010)

- Pneumatic nut runners for turning valves, tightening, tapping, reaming, pipe beveling, expanding and more
- Hydraulic models also available

**Ex II 2 GcT6**  
(Model Nos. AB-4300-2  
and AB-4300-2R)

- Pneumatic drill and air-operated magnet
- Up to 2-1/16" dia. holes
- Hydraulic models also available



**Ex II 2 GcT6** (Model No. 5 6003 0010)

**Ex IM 2 cT6** (Model No. 5 6031 0010)

- Portable pneumatic band saws cut up to 7" OD
- ATEX hydraulic models also available

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

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

Working in explosive atmospheres carries many challenges, the most important of which is the safety of the workers. An explosive atmosphere is defined as one in which enough flammable gas, mist, vapor or dust is mixed with air to cause an explosion if ignition occurs. The source of ignition could be either electrical or mechanical in origin. The requirements for controlling explosive atmospheres, as well as the standards for equipment and protective systems used in them, are outlined in the ATEX Directive 94/9/EC (ATEX Group-95).

ATEX (ATmospheres EXplosibles) is a directive outlining a number of technical and quality objectives that must be complied with to the satisfaction of a third party certification association. This directive is addressed to those who design, manufacture or sell any equipment intended for use in potentially explosive atmospheres. Once the objectives have been met, the approved product is marked with the appropriate ATEX classification label and Ex symbol . (For ATEX information, visit: [http://ec.europa.eu/enterprise/sectors/mechanical/atex/index\\_en.htm](http://ec.europa.eu/enterprise/sectors/mechanical/atex/index_en.htm))

Compliance with the ATEX directive has been a legal requirement in all European Union States since July 2003. The ATEX symbol is recognized internationally, providing safety assurances to users in EU states, as well as assuring users in the U.S. and other non-EU countries that the product was manufactured to high levels of safety.

CS Unitec, Inc., a company specializing in pneumatic, hydraulic and electric power tools for construction and industry, offers a comprehensive line of power tools ideal for the oil, gas and energy industries. ATEX certified pneumatic and hydraulic power tools from the company's line include selected models of reciprocating saws, hacksaws, rotary hammer drills, impact wrenches, portable band saws, nut runners, magnetic drills and more.

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

	<b>Group</b>	<b>Equipment Category</b>	<b>Atmosphere</b>	<b>Safety Design</b>	<b>Temperature (surface does not exceed)</b>
<b>ATEX 94/9/EC</b>	<b>II</b> Surface Industry	<b>1</b> Very High Level of Protection [Zone 0, 1, 2 or 20, 21, 22]	<b>G</b> Atmosphere Containing Gas, Vapors or Mist	<b>c</b> (previously known as "machine norms")	<b>T1</b> 842°F/450°C
					<b>T2</b> 572°F/300°C
	<b>IM</b> Mining Applications	<b>2</b> High Level of Protection [Zone 1, 2 or 21, 22]	<b>D</b> Atmosphere Containing Dust		<b>T3</b> 392°F/200°C
					<b>T4</b> 275°F/135°C
		<b>3</b> Normal Level of Protection [Zone 2 or 22]			<b>T5</b> 212°F/100°C
					<b>T6</b> 185°F/85°C

For example, CS Unitec's Pneumatic Reciprocating Saw, model number 5 1217 0020, is approved for Ex II 2 GcT5, making it appropriate for industrial Ex zones 1, 2 and 21, 22.

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

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

For a FREE poster explaining Ex zones, visit [www.csunitec.com/poster](http://www.csunitec.com/poster).

# IMPACT WRENCHES

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

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

- High torque
- Best power-to-weight ratio

**ATEX Certified**

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

**Ex II 2 GcT5**  
(Model No 6 1515 0010)

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



**CuBe**  
**Non-Sparking Impact Sockets – See pages 68-72.**



**ATEX Models for use in Ex Zones and Hazardous Environments.**



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

## Pneumatic Impact Wrenches

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

## Hydraulic Impact Wrenches

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



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

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



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



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

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



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

See page 81 for information on ATEX



# SPECIAL TOOLS FOR UNDERWATER USE

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

## Chain Saws - Pneumatic

- 5 1008 0030** Underwater Air Chain Saw, 21", 4HP, 90 PSI / 92 CFM
- 5 1008 0040** Underwater Air Chain Saw, 25", 4HP, 90 PSI / 92 CFM

## Hacksaws - Hydraulic

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

## Reciprocating Saws - Hydraulic and Pneumatic

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

## Grinders - Hydraulic

- 1 1580 0060** Underwater Hydraulic Horizontal Grinder, 1.3HP, 6400 RPM, Twist throttle, straight grinding wheels
- 1 1585 0010** Underwater Hydraulic Angle Grinder, 1.3HP, 3600 RPM, Lever throttle, grinding wheels up to 7"

## Rotary Hammer Drills - Hydraulic and Pneumatic

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

## Core Drills - Hydraulic and Pneumatic

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

## Portable Magnetic Drills - Hydraulic

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

## Impact Wrenches - Hydraulic and Pneumatic

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

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





# AXIAL FANS AND AIR MOVERS

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

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

**Explosion Proof**

**For use in Ex Zones and Hazardous Environments.**

**Electric fan motors are intrinsically safe, Ex.**



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

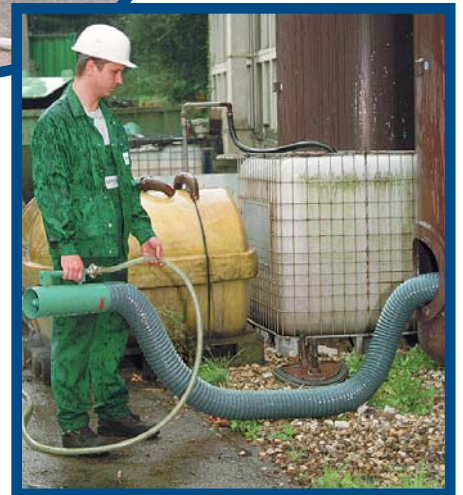


**Explosion-Proof Axial Fans, Pneumatic and Electric, 12" to 24" diameter**

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



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



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



**W70**  
Pneumatic Air Mover, 6" dia.  
3000 cfm output @ 90 psi

**Explosion-Proof Pneumatic Axial Fans and Air Movers**

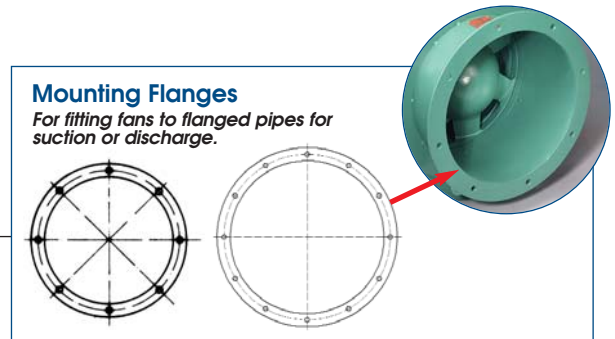
Order No.	Description	Diameter	Power	Output Volume	Air Pressure	Sound Level dBA
8 1521 0300	Axial Fan	12"	Pneumatic	3240 cfm	90 psi	101
8 1522 0300	Axial Fan	16"	Pneumatic	5720 cfm	90 psi	92
8 1523 0300	Axial Fan	20"	Pneumatic	9170 cfm	90 psi	90
8 1524 0300	Axial Fan	24"	Pneumatic	12,353 cfm	90 psi	86
W40	Air Mover	4"	Pneumatic	1140 cfm	90 psi	91
W70	Air Mover	6"	Pneumatic	3000 cfm	90 psi	91
8 1620 0010	Air Mover	7"	Pneumatic	2366 cfm	90 psi	104

**Explosion-Proof Electric Axial Fans**

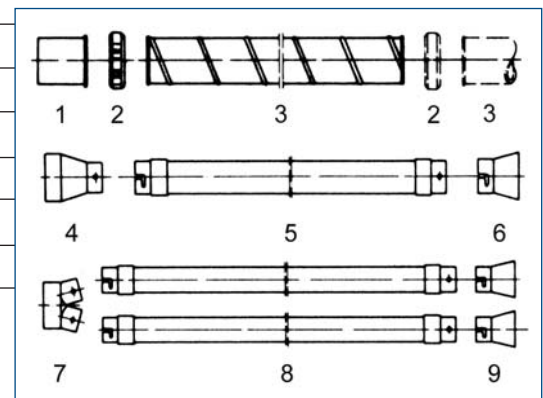
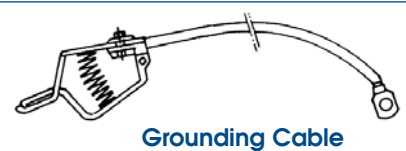
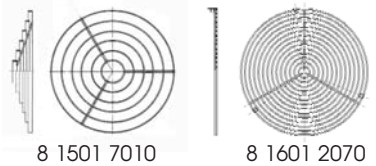
Order No.	Description	Diameter	Power	Output Volume	Sound Level dBA	ATEX Class
8 1020 0140	Axial Fan	12"	230/400 V 50Hz 3-phase	2118 cfm	86	Ex II 2 GcT3
8 1020 0840	Axial Fan	12"	110 V 50 Hz single phase	2118 cfm	85	Ex II 2 GcT3
8 1020 0850	Axial Fan	12"	110 V 50 Hz single phase	2118 cfm	85	Ex II 2 GcT3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

**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 7010	Protective Grille for 16" Axial Fan (1 or 2 per fan)
8 1503 7010	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 0060	Steel Ducting, dia. 8", 15' long (dwg 5)
9 3709 0130	Plastic Hose, dia. 8", 15' long (dwg 5)
9 3702 0030	Suction Nozzle, 12"/8" (dwg 6)
9 3703 0020	Y-piece, 2x6", Antistatic (dwg 7)
9 3709 0040	Steel Ducting, NW 6", 15' long (dwg 8)
9 3709 0110	Plastic Hose, NW 6", 15' long (dwg 8)
9 3702 0020	Suction Nozzle, 6"/9" (dwg 9)



**Protective Grilles**  
For use on non-ducted fans.



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



# REDUCED SPARKING GRINDING AND CUTTING DISCS

Designed for grinding and cutting steel, stainless steel, titanium, fiberglass and other materials in oil, gas, nuclear and industries where spark reduction and long life are important

Eco Brazing (EB) diamond grinding discs from CS Unitec can reduce sparking to approximately 1% of that produced by ordinary resinoid wheels, making EB diamond discs a better choice than resin bonded wheels for use in some hazardous environments.

- Last 100x longer than ordinary resin bonded wheels, less material waste
- Reduced sparking increases the visibility of the workpiece
- Not ATEX approved – **sparks will occur during grinding** (see note below)
- Diamond grit protrudes higher off the EB diamond disc than traditional diamond wheels, providing greater durability and 100x longer service life
- The EB diamond discs substantially reduce the amount of abrasive dust emitted
- High-yield steel backing plate is elastic, helping to ensure that operators do not grind the material by over-removal
- Ideal for grinding steel, stainless steel, titanium, fiberglass and other materials

### EB DIAMOND DISC Specifications

<b>Dimensions</b>	Diameter: 4", 7"
<b>Max. speed</b>	13,000 RPM (4") or 8500 RPM (7")
<b>Ideal speed</b>	6000 RPM (4") or 3300 RPM (7")
<b>Grits</b>	30, 40, 50, 60, 80
<b>Arbor size</b>	7/8"

### EB DIAMOND DISC Ordering Information

Order No.	Size (dia. x arbor)	Grit	Max. Speed	Quantity
EB4007830	4" x 7/8"	30	13,000 RPM	1 disc
EB4007840	4" x 7/8"	40	13,000 RPM	1 disc
EB4007850	4" x 7/8"	50	13,000 RPM	1 disc
EB4007860	4" x 7/8"	60	13,000 RPM	1 disc
EB4007880	4" x 7/8"	80	13,000 RPM	1 disc
EB7007830	7" x 7/8"	30	8500 RPM	1 disc
EB7007840	7" x 7/8"	40	8500 RPM	1 disc
EB7007850	7" x 7/8"	50	8500 RPM	1 disc
EB7007860	7" x 7/8"	60	8500 RPM	1 disc
EB7007880	7" x 7/8"	80	8500 RPM	1 disc

**CAUTION:** Though EB diamond discs have been shown to reduce sparking, we make no claim that sparking will be eliminated. Follow all appropriate safety regulations (ATEX, OSHA, ANSI) for all grinding applications, including those for working in hazardous environments.



### Benefits of fewer sparks and long life:

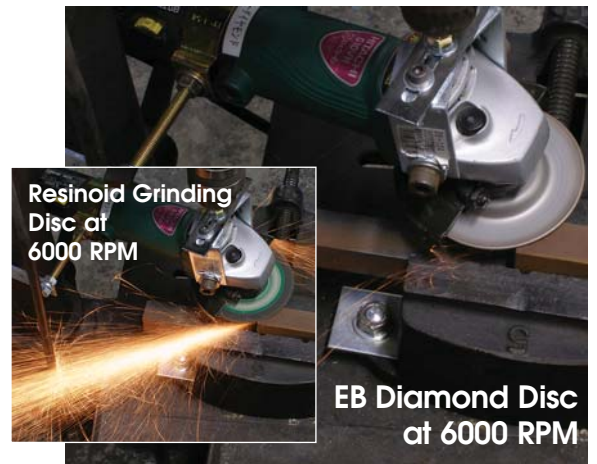
- Workpiece visibility is improved
- Reduced fire hazard from sparks
- Less material waste



Resinoid Grinding Disc at 10,000 RPM

EB Diamond Disc at 10,000 RPM

EB diamond grinding discs reduce sparking up to 1/100 of that produced by resinoid grinding wheels (inset left).



Resinoid Grinding Disc at 6000 RPM

EB Diamond Disc at 6000 RPM

# REDUCED SPARKING DIAMOND GRINDING AND CUTTING DISCS

- Last 100x longer than ordinary resin bonded wheels
- Reduce sparks, dust and material waste
- Save time changing discs
- Ideal for grinding and cutting steel, stainless steel, aluminum, titanium, fiberglass and other materials

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

## EB Cut Off Wheels – "Slicer" for cutting metal and other materials

Eco Brazing (EB) diamond cutting wheels from CS Unitec are designed for cutting steel and stainless steel pipe, tubing, bolts and plate, as well as composites, fiberglass and other materials.



Order No.	Size (dia. x arbor)	Grit	Max. Speed	Quantity
EBC4007850C	4" x 7/8"	50	15,200 RPM	1 disc
EBC4507850C	4-1/2" x 7/8"	50	13,200 RPM	1 disc
EBC5007850C	5" x 7/8"	50	12,200 RPM	1 disc
EBC6007850C	6" x 7/8"	50	10,100 RPM	1 disc
EBC7007850C	7" x 7/8"	50	8400 RPM	1 disc
EBC9007850C	9" x 7/8"	50	6600 RPM	1 disc

## EB Combination (Grinding – Cutter) Wheels

Eco Brazing (EB) diamond combination metal grinding and cutting wheels from CS Unitec are designed for grinding and cutting steel and stainless steel bolts and plate.



Order No.	Size (dia. x arbor)	Grit	Max. Speed	Quantity
EB4007835CM	4" x 7/8"	35	15,200 RPM	1 disc
EB4007850CM	4" x 7/8"	50	15,200 RPM	1 disc
EB4507835CM	4-1/2" x 7/8"	35	13,200 RPM	1 disc
EB4507850CM	4-1/2" x 7/8"	50	13,200 RPM	1 disc
EB5007835CM	5" x 7/8"	35	12,200 RPM	1 disc
EB5007850CM	5" x 7/8"	50	12,200 RPM	1 disc
EB7007835CM	7" x 7/8"	35	8400 RPM	1 disc
EB7007850CM	7" x 7/8"	50	8400 RPM	1 disc

## EB Cluster (Cleaning – Grinding) Wheels

Eco Brazing (EB) diamond cluster wheels from CS Unitec are designed for removing paint, rust and epoxy on metal. Also for high material removal on fiberglass, composites and plastics without loading up like traditional abrasives.



Order No.	Size (dia. x arbor)	Grit	Max. Speed	Quantity
EB4007880CLSF	4" x 7/8"	80	15,200 RPM	1 disc
EB4507880CLSF	4-1/2" x 7/8"	80	13,200 RPM	1 disc
EB5007880CLSF	5" x 7/8"	80	12,200 RPM	1 disc
EB6007880CLSF	6" x 7/8"	80	10,100 RPM	1 disc
EB7007880CLSF	7" x 7/8"	80	8400 RPM	1 disc

Also available from  UNITEC :

CS Unitec, Inc. specializes in industrial power tools and safety tools for construction and industry.

Innovation and high quality are synonymous with CS Unitec's power tools. In 1991, the company invented the first pneumatic portable band saw. CS Unitec has added to its list of industry firsts with the widest range of portable magnetic drills and hand-held concrete core drills. The line also includes pneumatic, electric and hydraulic portable band saws, reciprocating saws, hack saws, nut runners, rotary hammer drills, rolling motors, non-sparking safety tools, portable mixers and dust extraction vacuum systems.

**... the power of innovation!®**

**For tool specifications and ATEX and Ex Zone information, please visit our Web site at [www.csunitec.com](http://www.csunitec.com).**



View product demonstrations at [www.csunitec.com](http://www.csunitec.com).

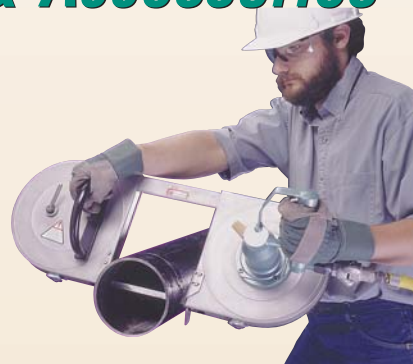
## **Pneumatic and Hydraulic Tools & Accessories**



**Air Chain Saws**



**Air and Hydraulic Magnetic Drills**



**Air and Hydraulic Band Saws**



**Pneumatic and Electric Axial Fans**



**Air and Hydraulic Diamond Core Drills for concrete**



**Pneumatic Hand-held and Walk-behind Concrete Saws**



**Manual and Auto-feed Hacksaws for pipe cutting up to 24"**



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