UNITEC

Safety Tool Catalog

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

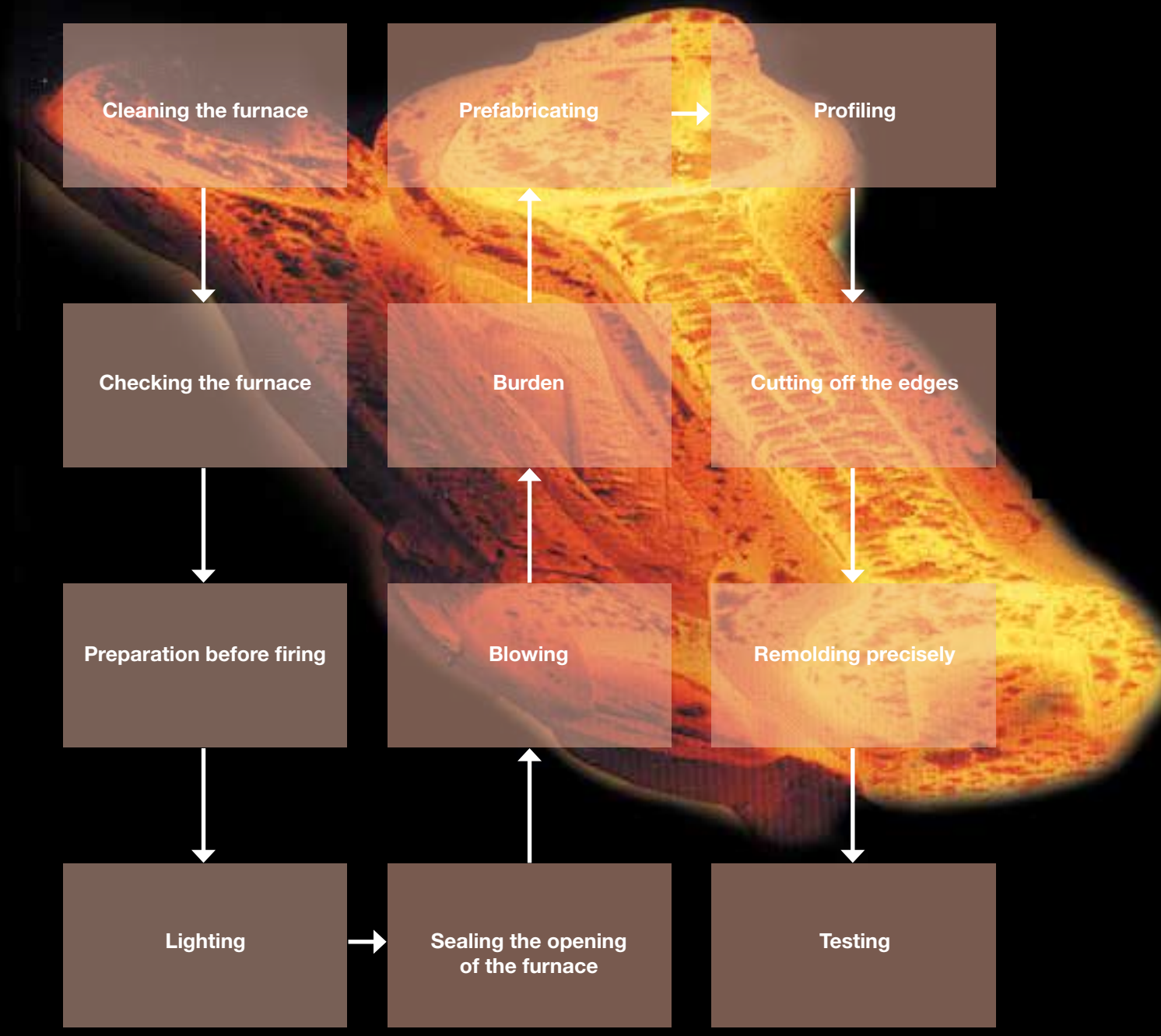
www.csunitec.com

UNITEC Safety Tools

Make your workplace safer...
with the right tools

Non-Sparking Safety Tools
Aluminum Bronze (AlBr) or
Copper Beryllium ($CuBe_2$)

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 ($CuBe_2$)

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

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

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

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

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

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

ATEX 94/9/EC • DNV

ISO 9001
BUREAU VERITAS
Certification

CS Unitec's Aluminum Bronze (AlBr) and Copper Beryllium ($CuBe_2$) tools are also BAM certified.

BAM Type Approved
Certification No. BAM/ZBF/004/14
The BAM certificate relates only to the properties of the material pairings

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

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

04 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 Teslar. This enables our Tools to be used around sensitive magnetic equipment, including scanners, de-mining, disarming, etc. Our Tools are NATO stock numbered.

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

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

We offer over 3000 individual Tools made from Special Solid Copper-based Alloys. We manufacture and supply our Safety Tools in two different alloys: Copper-Beryllium Alloy ($CuBe_2$) and a Special Aluminum-Bronze Alloy (AlBr).

International Regulations for Work in Ex or ATEX zones demand the right equipment. CS Unitec Copper-Beryllium Tools ($CuBe_2$) fulfill the demand in the ATEX Directive 94/9/EC for work in Zones 0, 1 and 2 (Gas, Mists or Vapors); Zones 20, 21 and 22 (Dusts); and M1 and M2 for mining.

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

CS Unitec's Copper-Beryllium Tools ($CuBe_2$) and Aluminum-Bronze Tools (AlBr) are BAM certified. BAM certifies that the materials used in CS Unitec's Non-sparking tools have met the requirements for and are appropriate for use in potentially explosive atmospheres of zones 0,1, 2 and/or 20, 21, 22 according to ATEX Directive 1999/92/EC (ATEX 137) of all explosion groups according to IEC 60079-20-1:2010.

Gas, Mists or Vapors

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

Dusts

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

Quality control, testing and customer service are priorities.

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

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

Because of the heat treatment processes, our Copper-Beryllium Tools ($CuBe_2$) have a Rockwell C hardness of 38 HRC. CS Unitec Aluminum-Bronze Tools have a Rockwell C Hardness of 27 HRC.

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

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

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

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

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

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

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

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

CAUTION:

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

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

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

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

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

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

Copper-Beryllium Tools ($CuBe_2$) fulfill the demand in the ATEX Directive 94/9/EC for work in Zones 0, 1 and 2 (Gas, Mists or Vapors); Zones 20, 21 and 22 (Dusts); and M1 and M2 for mining.

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

CS Unitec's Aluminum Bronze (AlBr) and Copper Beryllium ($CuBe_2$) tools are also BAM certified. They have met the requirements of BAM Standard operating procedure and are appropriate for use in potentially explosive atmospheres of zones 0, 1, 2 and/or 20, 21, 22 according to Directive 1999/92/EC of all explosion groups according to IEC 60079-20-1:2010.

Choosing the Correct Alloy for Your Application

	Aluminum-Bronze (AlBr) Alloy	Copper-Beryllium ($CuBe_2$) Alloy
Zone Compatibility	Fulfill demand in ATEX Directive 94/9/EC for work in Zones 1, 2, 21 and 22	Fulfill demand in ATEX Directive 94/9/EC for work in Zones 0, 1, 2, 20, 21 and 22
Hardness	27 HRC	38 HRC
Durability	Not as durable as $CuBe_2$.	Very durable due to high hardness and tensile strength.
Magnetic Properties	Low magnetism due to minimal ferrous components. Appropriate for non-critical non-magnetic applications.	Non-ferrous components; safer for applications demanding non-magnetic properties.
Composition	Al: 10.3% Ni: 4.5% Cu: Balance Fe: 4.5% Other: 0.5%	Be: 1.9% Other: 0.5% Co + Ni: 0.4% Cu: Balance

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

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

Manufacturing Industries:
- Alcohol Industries
- Ammunition, Missile & Explosives Plants
- Automotive Plants
- Breweries & Distilleries
- Chemical Manufacturing
- Flammable Materials Manufacturing
- Flour Mills
- Furniture Manufacturers (Varnish & Painting)
- Gas Plants
- Glue Factories
- Ink Industries
- Liquified 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

Index

STRIKING TOOLS Pgs. 8-17

Description	Part#	Page
Hammers		
Hammer, Ball Peen	Ex101U	9
Hammer, Cross Peen Engineers'	Ex102U	9
Hammer, Double-face Machinists'	Ex103U	9
Hammer, Sledge	Ex104U	9
Brass Shackle for Drop Protection	Ex100	10
Hammer, Cutoff	Ex105U	10
Hammer, Scaling	Ex106U	10
Wedge, Stone	Ex107	10
Hammer, Club	Ex108U	11
Hammer, Bricklayers'	Ex112U	11
Crate Opener	Ex113S	11
Hammer, Plastic	Ex121	11
Hammer, Claw	Ex122U	12
Hammer, Cross Peen, Engineers'/Blacksmiths'	Ex1041	12
Punches		
Punch, Pin	Ex301P	12
Punch, Center	Ex303	13
Drift, Cylindrical	Ex301	13
Drift Pin, Straight Type	Ex301C	13
Chisels		
Chisel, Hand	Ex304	14
Chisel, 6-Point	Ex304A	14
Chisel, 8-Point	Ex304S	14
Chisel, Cape	Ex305	14
Chisel, Bull Point	Ex306	15
Chisel, Diamond Point	Ex307	15
Chisel, Pneumatic	Ex309AH	15
Chisel, Pneumatic	Ex310AH	15
Chisel, Scaling	Ex312	15
Chisel, Chipping Hammer	Ex314	16
Chisel, Paving Breaker	Ex318F	16
Chisel, Bull Point	Ex318R	16
Chisel, Paving Breaker	Ex320F	16
Chisel, Bull Point	Ex320R	16
Chisel, Clay Spade	Ex340	17
Chisel, Scaling	Ex380SH	17
Wedges		
Wedge, Flange with Lanyard Hole	Ex1101U	17
Wedge, Banana with Lanyard Hole	Ex1101BH	17

TIGHTENING TOOLS Pgs. 18-55

Description	Part#	Page
Wrenches		
Wrench, Striking, Open End	Ex200	19
Wrench, Box End, Single	Ex201	20
Wrench, Striking, Box, 12-Point (DIN 7444)	Ex201B	21
Wrench, Striking, Box, Offset, 12-Point	Ex201F	22
Wrench, Box End, Double, Straight Type, 12-Point	Ex202	22
Wrench, Box End, Double, Offset Type, 12-Point	Ex202F	23
Wrench, Open End, Double	Ex203	24
Wrench, Box End, 6-Point	Ex204	24
Wrench, Box End, 12-Point (DIN 3111)	Ex204D	25
Wrench, Construction with Pin (Ring End)	Ex204S	25
Wrench, Open End	Ex205	26
Wrench, Construction with Pin (Open End)	Ex205S	27
Wrench, Gas Tube	Ex212	27
Wrench, Combination	Ex206	28
Wrench, Combination, Long	Ex206L	28
Wrench, Box, for Extension	Ex215	29
Extension for Box Wrench	Ex216	29
Wrench, Adjustable End	Ex501	29
Wrench, Torque	Ex1401TB	30
Wrench, Crowfoot, 1/2" Drive	Ex1514B	30
Pipe Wrenches		
Wrench, Pipe (American Type)	Ex502	31
Wrench, Monkey	Ex503	31
Wrench, Spanner, Fixed (DIN 1810)	Ex208	32
Wrench, Spanner, Adjustable	Ex208S	32
Wrench, Chain Pipe	Ex600	32
Ratchets		
Wrench, Ratchet	Ex504S	33
Wrench, Ratchet	Ex1501S	33
Square Drive for Ratchet	Ex1501D	33
Adapter / Converter	Ex1510	33
Socket Wrenches		
Wrench, Socket, L-Type, 6-Point	Ex701	34
Wrench, Socket, T-Type, 12-Point	Ex702	35
Bar, Sliding	Ex1502	35
Bar, Extension	Ex1504	36
Driver Handle	Ex1504S	36
Wrench Handle, Speed	Ex1505	36
Wrench Handle, Hinged	Ex1506	37
Universal Joint	Ex1507	37
Offset Grip Handle	Ex1508	37
Adapter/Converter	Ex1509	37
Sockets – 6-Point		
Socket, 1/4" Drive	Ex1503AA	38
Socket, 3/8" Drive	Ex1503A	38
Socket, 1/2" Drive	Ex1503B	39
Socket, 3/4" Drive	Ex1503C	40
Socket, 1" Drive	Ex1503D	40
Socket, Standard Deep, 1/4" Drive	Ex1610	41
Socket, Standard Deep, 3/8" Drive	Ex1620	41
Socket, Standard Deep, 1/2" Drive	Ex1630	42
Socket, Standard Deep, 3/4" Drive	Ex1640	43
Socket, Standard Deep, 1" Drive	Ex1650	44
Socket, Impact, 3/8" Drive	Ex1720	44
Socket, Impact, 1/2" Drive	Ex1730	45
Socket, Impact, 3/4" Drive	Ex1740	45
Socket, Impact, 1" Drive	Ex1750	46
Socket, Impact, 1-1/2" Drive	Ex1760	46
Socket, Deep Impact, 3/8" Drive	Ex1820	47
Socket, Deep Impact, 1/2" Drive	Ex1830	47
Socket, Deep Impact, 3/4" Drive	Ex1840	48
Socket, Deep Impact, 1" Drive	Ex1850	48
Socket, Deep Impact, 1-1/2" Drive	Ex1860	49
Allen Keys		
Wrench, Allen/Hex Key (DIN 911)	Ex209	50
Wrench, Allen/Hex Key, Ball Point, Long Type	Ex209L	50
Wheel Wrenches		
Wrench, Valve	Ex207	51
Valve Wheel Hook	Ex207F	51
Wrench, Valve Wheel (DIN 87311)	Ex207S	51
Pliers		
Pliers, Swedish (DIN ISO 5234)	Ex505	52
Pliers, Pipe	Ex602	52
Pliers, Groove Joint	Ex604	52
Pliers, Adjustable Combination	Ex605	52
Pliers, Flat Nose (DIN ISO 5745)	Ex606	53
Pliers, Round Nose (DIN ISO 5745)	Ex607	53
Pliers, Long-Nose w/Side Cutter (DIN ISO 5745)	Ex611	53
Pliers, Lineman's, Side Cutting	Ex612	53

Index

UNITEC Safety Tools

TIGHTENING TOOLS Pgs. 18-55

Description	Part#	Page
Screwdrivers		
Screwdriver, Standard	Ex801	54
Screwdriver, Striking	Ex801S	54
Screwdriver, Offset	Ex802	55
Screwdriver, Phillips	Ex803	55

CUTTING TOOLS Pgs. 56-63

Description	Part#	Page
Knives / Cutting Tools		
Knife, Common	Ex409	57
Knife, Common	Ex410	57
Knife, Common	Ex410S	57
Shears, Cutting	Ex608	58
Scissors	Ex609	58
Pliers, Diagonal Cutting	Ex601	58
Pliers, Diagonal Cutting, Heavy-Duty	Ex601HD	58
Pliers, Cutting	Ex603	59
Pipe Cutter	Ex1512	59
Non-Sparking Needle for Air Needle Scalers	Ex308	59
Scrapers		
Scraper, Flat	Ex401	60
Scraper, Angle	Ex402	60
Scraper, Triangular	Ex403	60
Scraper, Deck	Ex405	60
Scraper, Plate	Ex406	61
Scraper, Long Blade	Ex407	61
Knife, Putty/Hand Scraper	Ex408	61
Spatula	Ex408S	61
Saws		
Hacksaw Frame	Ex118A	62
Hacksaw Blade	Ex118B	62
Saw, Hand	Ex119	62
Files		
File, Half Round, Bastard	Ex411	63
File, Round	Ex411R	63
File, Flat, Bastard	Ex411F	63

UTILITY TOOLS Pgs. 64-69

Description	Part#	Page
Shovels		
Dust Pan	Ex1004	65
Shovel, Square Point, with Long Handle with D-Handle	Ex1005 Ex1005D	65 65
Shovel, Round Point, with Long Handle with D-Handle	Ex1006 Ex1006D	65 65
Spade, Edging with D-Grip	Ex1007	65

UTILITY TOOLS Pgs. 64-69

Description	Part#	Page
Hatchets / Axes		
Hatchet	Ex1202	66
Axe, Pick Head	Ex1203	66
Bars		
Caulking Tool	Ex308B	66
Drum Opener, Carbide	Ex1013	67
Bar, Pinch	Ex1301	67
Angle Tracing Point	Ex1302	67
Bar, Crow	Ex1303	67
Picks / Forks		
Pick, Railroad or Clay	Ex1008	68
Rake	Ex1009	68
Fork, Garden	Ex1010	68
Scraper, Pick and Scaler	Ex1014	69
Hoe, Planters'/Mixing Angled Blade	Ex1015	69

MISCELLANEOUS TOOLS Pgs. 70-75

Description	Part#	Page
Brushes		
Cup Brush, Knot Wire	Ex998	70
Brush, Cup	Ex1000	70
Brush, Wheel	Ex1003	71
Brush, Spark Plug Cleaning	Ex996	71
Brush, Straight Handle, Scratch	Ex1001	71
Brush, Flat Back, Scratch	Ex1002	71
Bung Wrenches		
Wrench, Bung	Ex110	72
Wrench, Bung (Fits 3/4" & 2" Bungs)	Ex110ES	72
Wrench, Bung (For 22 Different Bungs)	Ex110S	72
Wrench, Bung	Ex213	72
Clamps		
Clamp, Grounding	Ex211	73
Clamp, C-Type	Ex901	73
Special Tools		
Parallel Vise	Ex902	73
Flange Spreader	Ex1102	73
Caulking Tool	Ex308A	74
Bucket	Ex1017	74
Ruler	Ex1601	74
Scriber/Marking Tool	Ex302	75
Tweezer	Ex610	75
Tweezer	Ex610S	75

TOOL KITS Pgs. 76-81

Description	Part#	Page
Tool Kits		
Screwdriver (7 Pieces)	Ex801-KitB	77
Combination Wrench (8 Pieces)	Ex206-Kit	77
Allen Wrench (11 Pieces)	Ex209-KitB	77
Sockets, 1/4" Drive (15 Pieces)	Ex1520-Kit	77
Sockets, 1/4" Drive, Metric (15 Pieces)	Ex1520-Met Kit	77
Sockets, 1/2" Drive (28 Pieces)	Ex1500-Kit	78
Sockets, 1/2" Drive (10 Pieces)	Ex1535-Kit	78
Sockets, 1/2" Drive (20 Pieces)	Ex1530-Kit	79
Sockets, 1/2" Drive (28 Pieces)	Ex1530-Met Kit	79
Sockets, 3/4" Drive (16 Pieces)	Ex1540-Kit	80
Sockets, 3/4" Drive, Metric (14 Pieces)	Ex1540-Met Kit	80
24-Piece Kit	Ex2000-KitB	81
11-Piece Kit	Ex2211-Kit	81

CERTIFICATIONS Pgs. 82-83

Non-Sparking Tools	82
ATEX Power Tools	83

POWER TOOLS Pgs. 84-92

ATEX Certified Power Tools for Ex Zones and Hot Work Zones *(including Reciprocating Saws, Hacksaws, Rotary Hammer Drills, Magnetic Drills, Nut Runners and Band Saws)*	84
ATEX Certified Needle Scalers	88
Impact Wrenches, Air & Hydraulic	89
Axial Fans & Air Movers	90
Underwater Tools	92

Non-Sparking Tool Index

by Part Number - page 93

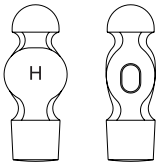
by Tool Type, Alphabetical – page 94

Striking Tools

- Hammers – pages 9-12
  - *– Hammers now provided with Nupla™ handles. Twice as strong as fiberglass and 10 times stronger than wood.*
- Punches – pages 12-13
- Chisels – pages 14-17
- Wedges – page 17

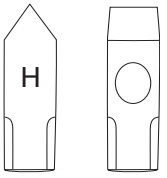
Drop forging ensures long tool life.

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex101U-0025A
or
Ex101U-0025B



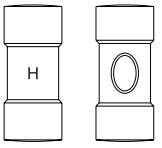
Ex101U
Hammer, Ball Peen w/Nupla Handle

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



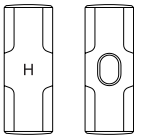
Ex102U
Hammer, Cross Peen Engineers' w/Nupla Handle

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



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

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

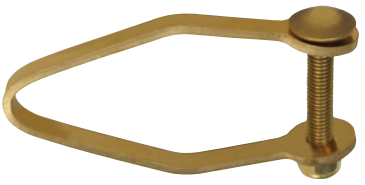


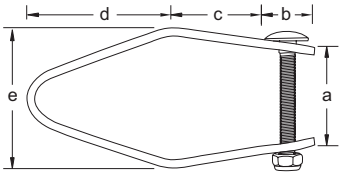
Ex104U
Hammer, Sledge w/Nupla Handle

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

Hammer handle appearance may vary from photos shown.

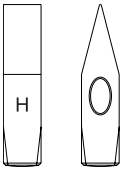
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex105U-0300A
or
Ex105U-0300B





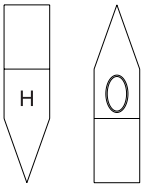
Ex100
Brass Shackles for Drop Protection
Brass alloy

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



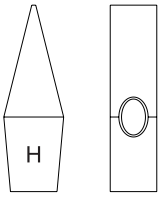
Ex105U
Hammer, Cutoff w/Nupla Handle

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



Ex106U
Hammer, Scaling w/Nupla Handle

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

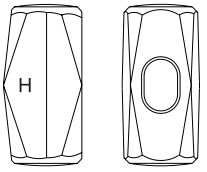


Ex107
Wedge, Stone w/Nupla Handle

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

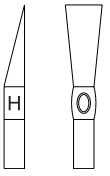
Hammer handle appearance may vary from photos shown.

Ex108U
Hammer, Club w/Nupla Handle



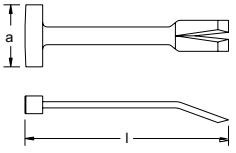
No.	Ex108U-0200	Ex108U-0400	Ex108U-0700
H lbs.	2.00	4.00	7.00
H kg	0.91	1.82	3.15
Handle length	8"/203mm	8"/203mm	33"/840mm

Ex112U
Hammer, Bricklayers' w/Nupla Handle



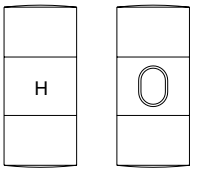
No.	Ex112U-0150
H lbs.	1.50
H kg	0.68
Handle length	14.25"/360mm

Ex113S
Crate Opener



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

Ex121
Hammer, Plastic w/Nupla Handle

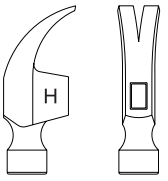


No.	Ex121-0100	Ex121-0220
H lbs.	1.0	2.20
H kg	0.45	1.0
Handle length	14"/355mm	14"/355mm

Hammer handle appearance may vary from photos shown.

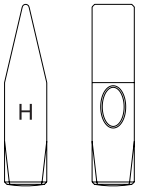
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex122U-0075A
or
Ex122U-0075B

Ex122U
Hammer, Claw w/Nupla Handle



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

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



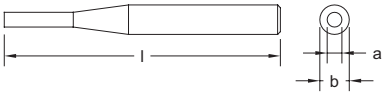
No.	Ex1041-0100	Ex1041-0200	Ex1041-0300	Ex1041-0500	Ex1041-0800	Ex1041-1000	Ex1041-1500	Ex1041-2000
H lbs.	0.22	0.44	0.66	1.10	1.76	2.20	3.31	4.41
H kg	0.10	0.20	0.30	0.50	0.80	1.00	1.50	2.00
Handle length	9.75"/250mm	9.75"/250mm	14"/355mm	14"/355mm	14"/355mm	14"/355mmm	15"/380mm	15"/380mm

Hammer handle appearance may vary from photos shown.

PUNCHES

Ex301P
Punch, Pin

Copper Beryllium (CuBe) only

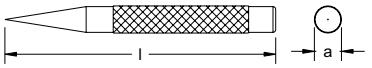


No.	a inch	b inch	l inch	Wt. lbs.
Ex301P-005UB	7/128	3/8	4-3/8	0.10
Ex301P-010UB	9/128	3/8	4-3/8	0.10
Ex301P-015UB	1/16	3/8	6	0.16
Ex301P-020UB	3/32	3/8	4-3/8	0.10
Ex301P-025UB	7/64	3/8	4-3/8	0.11
Ex301P-030UB	1/8	3/8	6	0.15
Ex301P-035UB	3/16	3/8	6	0.15
Ex301P-040UB	1/4	3/8	6	0.16
Ex301P-045UB	5/16	7/16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

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex303-005UA
or
Ex303-005UB

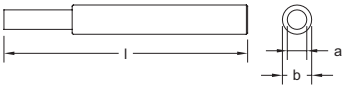
Ex303
Punch, Center



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

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

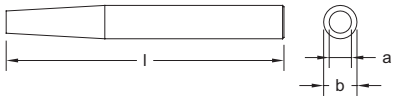
Ex301
Drift, Cylindrical
Copper Beryllium (CuBe) only



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

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

Ex301C
Drift Pin, Straight Type



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

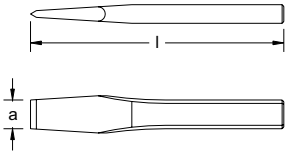
No.	a mm	b mm	l mm	⚖ kg
Ex301C-1.5**	1.5	10	150	0.08
Ex301C-2**	2	10	150	0.08
Ex301C-3**	3	10	150	0.08
Ex301C-4**	4	10	150	0.08
Ex301C-5	5	10	150	0.08
Ex301C-6	6	10	150	0.09
Ex301C-7	7	12	150	0.13
Ex301C-8	8	12	150	0.13
Ex301C-9	9	14	150	0.17
Ex301C-10	10	14	150	0.18
Ex301C-11	11	16	150	0.23
Ex301C-12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

** *Copper Beryllium (CuBe) only*

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex304-100A
or
Ex304-100B

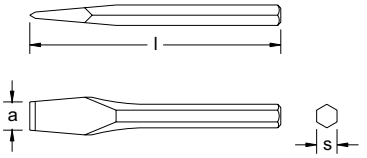
CHISELS

Ex304
Chisel, Hand



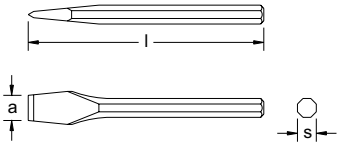
No.	a inch	l inch	Wt. lbs.	a mm	l mm	kg
Ex304-100	9/16	4	0.20	14	100	0.09
Ex304-125	9/16	5	0.26	14	125	0.12
Ex304-150	11/16	6	0.45	17	150	0.20
Ex304-175	3/4	7	0.68	20	175	0.31
Ex304-200	7/8	8	0.90	22	200	0.41
Ex304-250	15/16	10	1.28	24	250	0.58
Ex304-300	15/16	12	1.52	24	300	0.69
Ex304-400	1-1/16	16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

Ex304A
Chisel, 6-Point



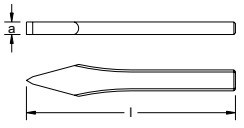
No.	a inch	s inch	l inch	Wt. lbs.	a mm	s mm	l mm	kg
Ex304A-300	5/8	9/16	12	0.95	16	14	300	0.43

Ex304S
Chisel, 8-Point



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

Ex305
Chisel, Cape



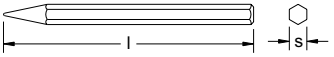
No.	a inch	l inch	Wt. lbs.	a mm	l mm	kg
Ex305-150	7/16	6	0.51	11	150	0.23
Ex305-200	7/16	8	0.81	12	200	0.37
Ex305-300	9/16	12	1.68	14	300	0.76

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex306-200A
or
Ex306-200B

Ex306
Chisel, Bull Point

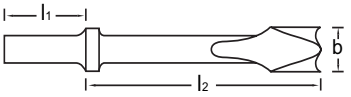
No.	s inch	l inch	Wt. lbs.	S mm	l mm	kg
Ex306-200	9/16	8	0.57	14	200	0.26
Ex306-250	5/8	10	0.94	16	250	0.43
Ex306-300	11/16	12	1.43	18	300	0.65
Ex306-400	3/4	16	2.40	20	400	1.09

Ex307
Chisel, Diamond Point



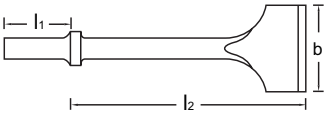
No.	s inch	l inch	Wt. lbs.	s mm	l mm	kg
Ex307-200	9/16	8	0.58	14	200	0.26
Ex307-250	5/8	10	0.94	16	250	0.43
Ex307-300	11/16	12	1.44	18	300	0.65
Ex307-400	3/4	16	2.41	20	400	1.09

Ex309AH
Chisel, Pneumatic



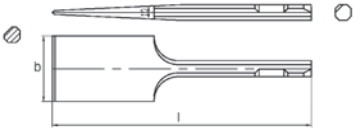
No.	b inch	l_1 inch	l_2 inch	Wt. lbs.	b mm	kg	Shank
Ex309AH-20	13/16	1-9/16	4-1/2	0.40	21	0.18	.401 round collar, round shank

Ex310AH
Chisel, Pneumatic



No.	b inch	l_1 inch	l_2 inch	Wt. lbs.	b mm	kg	Shank
Ex310AH-32	1-1/4	1-1/2	5-5/8	0.49	32	0.22	.401 round collar, round shank
Ex310AH-50	2	1-1/2	5-5/8	0.49	50	0.22	.401 round collar, round shank

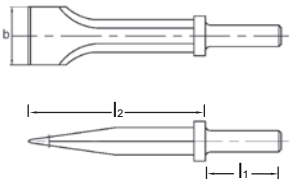
Ex312
Chisel, Scaling



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

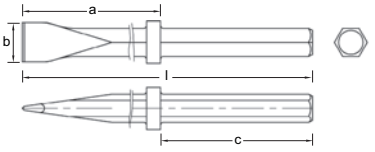
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex314-40A
or
Ex314-40B

Ex314
Chisel, Chipping Hammer



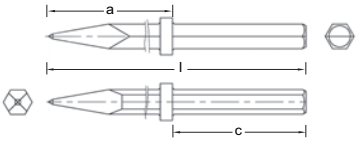
No.	b inch	l1 inch	l2 inch	Wt. lbs.	b mm	kg	Shank
Ex314-40	1-1/2	5-5/8	2-7/16	0.90	40	0.41	.680 round collar, round shank
Ex314-65	2-3/8	5-5/8	2-7/16	1.40	60	0.64	.680 round collar, round shank

Ex318F
Chisel, Paving Breaker



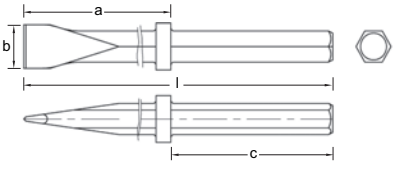
No.	b inch	l inch	a inch	c inch	Wt. lbs.	b mm	l mm	kg	Shank
Ex318F-75	3	18-13/16	12-13/16	6	5.75	75	478	2.60	1-1/8" Hex

Ex318R
Chisel, Bull Point



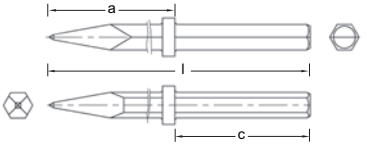
No.	l inch	a inch	c inch	Wt. lbs.	l mm	kg	Shank
Ex318R-14	19-5/16	13-5/16	6	6	490	2.72	1-1/8" Hex

Ex320F
Chisel, Paving Breaker



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

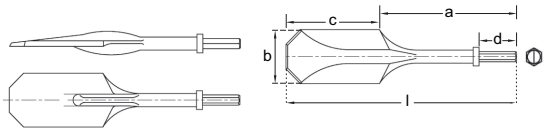
Ex320R
Chisel, Bull Point



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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex340-100A
or
Ex340-100B

Ex340
Chisel, Clay Spade



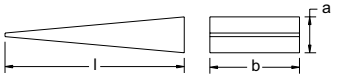
No.	b inch	l inch	a inch	c inch	d inch	Wt. lbs.	b mm	l mm	kg	Shank
Ex340-100	4-1/2	16	11	5	4	9	114	406	4.08	1" Hex

Ex380SH
Chisel, Scaling

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

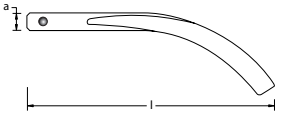
WEDGES

Ex1101U
Wedge, Flange with Lanyard Hole



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

Ex1101BH
Wedge, Banana with Lanyard Hole
Copper Beryllium (CuBe) only



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

Tightening Tools

Wrenches – pages 19-30

Pipe Wrenches – pages 31- 32

Ratchets – pages 33

Socket Wrenches – pages 34-37

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

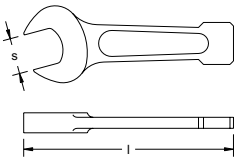
Allen Keys – page 50

Wheel Wrenches – page 51

Pliers – pages 52-53

Screwdrivers – pages 54-55

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex200-010UA
or
Ex200-010UB



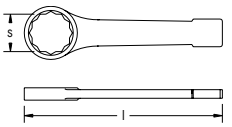
Ex200
Wrench, Striking, Open End

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

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

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex201-005UA
or
Ex201-005UB



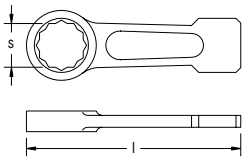
Ex201
Wrench, Box End, Single
12-Point

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

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex201B-001UA
or
Ex201B-001UB

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

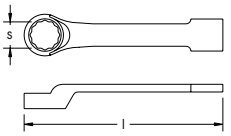


No.	s inch	l inch	Wt. lbs.
Ex201B-001U	1/2	5-9/16	0.40
Ex201B-002U	9/16	5-9/16	0.40
Ex201B-003U	5/8	5-9/16	0.40
Ex201B-005U	11/16	5-9/16	0.40
Ex201B-010U	3/4	5-9/16	0.40
Ex201B-015U	7/8	6-3/8	0.49
Ex201B-017U	15/16	6-3/8	0.60
Ex201B-020U	1	6-3/8	0.60
Ex201B-025U	1-1/16	7-3/16	0.77
Ex201B-030U	1-1/8	7-3/16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

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

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

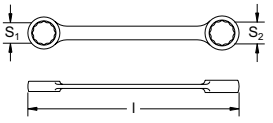
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex201F-003UA
or
Ex201F-003UB



Ex201F
Wrench, Striking, Box, Offset
12-Point

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

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

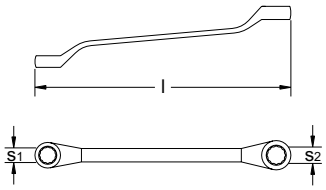


Ex202
Wrench, Box End, Double
Straight Type, 12-Point

No.	S_1 x S_2 inch	l inch	Wt. lbs.
Ex202-005U	7/32 x 1/4	3-3/4	0.09
Ex202-010U	1/4 x 5/16	3-3/4	0.09
Ex202-015U	5/16 x 3/8	3-3/4	0.09
Ex202-020U	3/8 x 7/16	5-3/16	0.21
Ex202-030U	7/16 x 9/16	5-3/16	0.21
Ex202-040U	1/2 x 5/8	5-3/16	0.23
Ex202-045U	1/2 x 19/32	5-3/16	0.23
Ex202-055U	9/16 x 11/16	6	0.31
Ex202-065U	5/8 x 25/32	6	0.31
Ex202-070U	11/16 x 3/4	6	0.31
Ex202-080U	3/4 x 7/8	7-3/8	0.40
Ex202-090U	13/16 x 15/16	7-3/8	0.40
Ex202-095U	7/8 x 15/16	7-9/16	0.49
Ex202-120U	15/16 x 1-1/16	8-3/4	0.64
Ex202-125U	1 x 1-1/8	8-3/4	0.64
Ex202-135U	1-1/16 x 1-3/16	10-3/4	0.93
Ex202-150U	1-3/16 x 1-1/4	10-3/4	1.06
Ex202-160U	1-1/4 x 1-7/16	12-3/16	1.32
Ex202-165U	1-7/16 x 1-5/8	12-3/16	1.32

No.	S_1 x S_2 mm	l mm	kg
Ex202-6-7	6 x 7	80	0.03
Ex202-8-10	8 x 10	95	0.04
Ex202-9-11	9 x 11	105	0.06
Ex202-12-14	12 x 14	130	0.10
Ex202-13-15	13 x 15	130	0.10
Ex202-14-15	14 x 15	130	0.09
Ex202-14-17	14 x 17	150	0.14
Ex202-16-17	16 x 17	150	0.14
Ex202-16-18	16 x 18	150	0.14
Ex202-17-19	17 x 19	150	0.14
Ex202-19-22	19 x 22	185	0.18
Ex202-21-23	21 x 23	190	0.22
Ex202-22-24	22 x 24	190	0.22
Ex202-24-27	24 x 27	220	0.29
Ex202-25-28	25 x 28	270	0.42
Ex202-27-30	27 x 30	270	0.42
Ex202-30-32	30 x 32	270	0.48
Ex202-32-36	32 x 36	305	0.60

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex202F-005UA
or
Ex202F-005UB



Ex202F

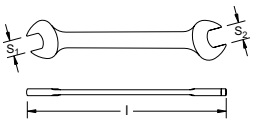
Wrench, Box End, Double

Offset Type, 12-Point

No.	S_1 x S_2 inch	l inch	Wt. lbs.
Ex202F-005U	7/32 x 1/4	4-3/4	0.06
Ex202F-010U	1/4 x 9/32	4-3/4	0.07
Ex202F-015U	1/4 x 5/16	5-3/16	0.07
Ex202F-020U	1/4 x 3/8	5-3/16	0.09
Ex202F-025U	5/16 x 3/8	5-3/16	0.10
Ex202F-030U	3/8 x 7/16	5-3/16	0.18
Ex202F-035U	3/8 x 9/16	7-3/16	0.18
Ex202F-040U	7/16 x 1/2	7-3/16	0.22
Ex202F-045U	7/16 x 9/16	7-3/16	0.22
Ex202F-050U	1/2 x 9/16	7-3/16	0.22
Ex202F-055U	1/2 x 19/32	7-3/16	0.22
Ex202F-060U	9/16 x 5/8	8-3/4	0.33
Ex202F-065U	5/8 x 11/16	8-3/4	0.44
Ex202F-070U	5/8 x 3/4	8-3/4	0.44
Ex202F-075U	11/16 x 3/4	10	0.49
Ex202F-080U	11/16 x 25/32	10	0.49
Ex202F-085U	11/16 x 7/8	11-3/16	0.62
Ex202F-090U	3/4 x 13/16	11-3/16	0.62
Ex202F-095U	3/4 x 7/8	11-3/16	0.62
Ex202F-100U	3/4 x 15/16	12-3/8	0.93
Ex202F-105U	13/16 x 7/8	12-3/8	0.93
Ex202F-110U	7/8 x 15/16	12-3/8	0.93
Ex202F-115U	7/8 x 31/32	12-3/8	0.93
Ex202F-120U	7/8 x 1	12-3/8	0.93
Ex202F-125U	7/8 x 1-1/16	13-9/16	1.17
Ex202F-130U	15/16 x 1	13-9/16	1.17
Ex202F-135U	15/16 x 1-1/16	13-9/16	1.10
Ex202F-140U	15/16 x 1-3/16	14-3/8	1.19
Ex202F-145U	1 x 1-1/16	13-9/16	1.17
Ex202F-150U	1 x 1-1/8	13-9/16	1.17
Ex202F-155U	1-1/16 x 1-1/8	14-3/8	1.21
Ex202F-160U	1-1/16 x 1-1/4	15-3/16	1.59
Ex202F-165U	1-1/8 x 1-5/16	15-3/16	1.59
Ex202F-170U	1-3/16 x 1-1/4	15-3/16	1.59
Ex202F-175U	1-3/16 x 1-7/16	16-3/4	2.18
Ex202F-180U	1-1/4 x 1-5/16	16-3/4	2.18
Ex202F-185U	1-1/4 x 1-7/16	16-3/4	2.18
Ex202F-190U	1-7/16 x 1-5/8	18-3/16	2.18
Ex202F-195U	1-5/8 x 1-13/16	18-3/4	3.53
Ex202F-200U	1-13/16 x 2	19-9/16	4.59
Ex202F-205U	2 x 2-3/16	20-3/8	5.56

No.	S_1 x S_2 mm	l mm	kg
Ex202F-6-7	6 x 7	120	0.03
Ex202F-7-9	7 x 9	130	0.03
Ex202F-8-9	8 x 9	130	0.04
Ex202F-8-10	8 x 10	130	0.04
Ex202F-9-11	9 x 11	160	0.04
Ex202F-10-11	10 x 11	160	0.08
Ex202F-10-12	10 x 12	160	0.08
Ex202F-10-14	10 x 14	180	0.10
Ex207F-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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex203-005UA
or
Ex203-005UB

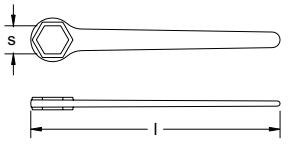


Ex203

Wrench, Open End, Double

No.	S_1 x S_2 inch	l inch	Wt. lbs.
Ex203-005U	7/32 x 1/4	3-9/16	0.07
Ex203-010U	1/4 x 9/32	4	0.07
Ex203-015U	1/4 x 5/16	3-9/16	0.07
Ex203-020U	1/4 x 3/8	4	0.07
Ex203-025U	5/16 x 3/8	4	0.09
Ex203-030U	3/8 x 7/16	4-3/4	0.13
Ex203-035U	7/16 x 1/2	5-3/16	0.14
Ex203-040U	7/16 x 9/16	5-3/16	0.14
Ex203-045U	1/2 x 9/16	5-3/8	0.22
Ex203-050U	1/2 x 5/8	5-3/8	0.31
Ex203-055U	1/2 x 11/16	6	0.31
Ex203-060U	9/16 x 5/8	6	0.31
Ex203-065U	9/16 x 11/16	6	0.31
Ex203-070U	9/16 x 3/4	6-9/16	0.31
Ex203-085U	5/8 x 11/16	6-9/16	0.31
Ex203-090U	5/8 x 3/4	6-9/16	0.42
Ex203-095U	11/16 x 3/4	6-9/16	0.42
Ex203-100U	11/16 x 25/32	7-3/16	0.42
Ex203-105U	11/16 x 7/8	7-3/16	0.51
Ex203-110U	3/4 x 13/16	7-3/16	0.51
Ex203-115U	3/4 x 7/8	7-3/16	0.51
Ex203-125U	25/32 x 7/8	8-3/8	0.57
Ex203-130U	13/16 x 7/8	8-3/8	0.57
Ex203-135U	7/8 x 15/16	8-3/8	0.64
Ex203-140U	7/8 x 31/32	8-3/8	0.64
Ex203-145U	7/8 x 1	9-3/16	1.04
Ex203-150U	15/16 x 1	9-3/16	1.04
Ex203-155U	7/8 x 1-1/16	9-3/16	1.04
Ex203-160U	15/16 x 1-1/16	9-3/16	1.04
Ex203-165U	15/16 x 1-3/16	10	1.15

No.	S_1 x S_2 mm	l mm	⚖ kg
Ex203-6-7	6 x 7	90	0.03
Ex203-6-8	6 x 8	90	0.03
Ex203-7-8	7 x 8	100	0.03
Ex203-7-9	7 x 9	100	0.03
Ex203-8-9	8 x 9	100	0.04
Ex203-8-10	8 x 10	100	0.04
Ex203-9-10	9 x 10	100	0.04
Ex203-9-11	9 x 11	120	0.06
Ex203-10-11	10 x 11	120	0.06
Ex203-10-12	10 x 12	120	0.06
Ex203-11-13	11 x 13	120	0.06
Ex203-12-13	12 x 13	130	0.06
Ex203-12-14	12 x 14	130	0.06
Ex203-13-14	13 x 14	130	0.10
Ex203-13-15	13 x 15	135	0.10
Ex203-14-15	14 x 15	150	0.14
Ex203-14-17	14 x 17	150	0.14
Ex203-16-17	16 x 17	165	0.14
Ex203-16-18	16 x 18	165	0.14
Ex203-17-19	17 x 19	165	0.19
Ex203-17-22	17 x 22	180	0.23
Ex203-18-19	18 x 19	165	0.19
Ex203-18-20	18 x 20	165	0.19
Ex203-19-22	19 x 22	180	0.23
Ex203-19-24	19 x 24	180	0.23
Ex203-20-22	20 x 22	180	0.23
Ex203-21-23	21 x 23	210	0.26
Ex203-22-24	22 x 24	210	0.29
Ex203-22-27	22 x 27	230	0.47
Ex203-23-26	23 x 26	230	0.47
Ex203-24-26	24 x 26	230	0.47



Ex204

Wrench, Box End

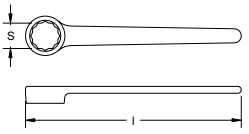
6-Point

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

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex204D-005UA
or
Ex204D-005UB

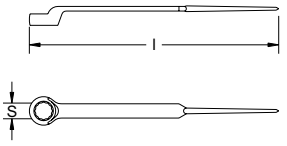
Ex204D
Wrench, Box End
12-Point (DIN 3111)



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

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

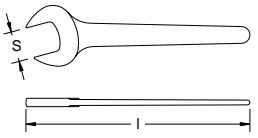
Ex204S
Wrench, Construction
With Pin, (Ring End)



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

No.	s mm	l mm	⚖ 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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex205-005UA
or
Ex205-005UB



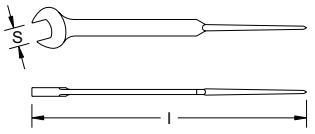
TIGHTENING

Ex205
Wrench, Open End

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

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

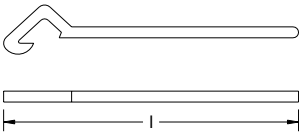
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex205S-005UA
or
Ex205S-005UB



Ex205S
Wrench, Construction
With Pin, (Open End)

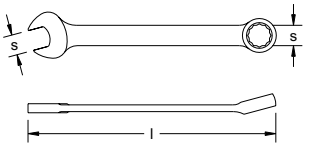
No.	s inch	l inch	Wt. lbs.
Ex205S-005U	11/16	14	0.95
Ex205S-010U	3/4	14	0.97
Ex205S-015U	25/32	14	0.98
Ex205S-020U	13/16	14	0.98
Ex205S-025U	7/8	14	0.95
Ex205S-030U	15/16	14	0.97
Ex205S-035U	31/32	14	0.98
Ex205S-040U	1	16	1.32
Ex205S-045U	1-1/16	16	1.32
Ex205S-050U	1-1/8	16	2.09
Ex205S-055U	1-3/16	16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

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



Ex212
Wrench, Gas Tube

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



When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex206-005UA
or
Ex206-005UB

Ex206
Wrench, Combination
Standard

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

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

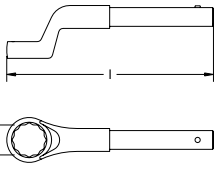
Ex206L
Wrench, Combination
Long

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

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex215-005UA
or
Ex215-005UB

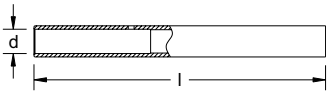
Ex215
Wrench, Box, For Extension



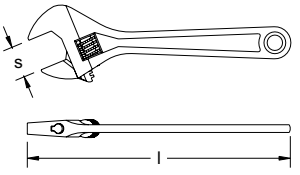
No.	s inch	l inch	Wt. lbs.	
Ex215-005U	1-3/16	8	2.03	For use with extension Ex216-22
Ex215-010U	1-1/4	9-3/8	2.14	
Ex215-015U	1-5/16	9-3/8	2.14	
Ex215-020U	1-3/8	9-3/8	2.14	
Ex215-025U	1-7/16	9-3/4	2.27	
Ex215-030U	1-1/2	10	2.51	
Ex215-035U	1-9/16	10-9/16	2.78	
Ex215-040U	1-5/8	10-9/16	2.78	
Ex215-045U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

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

Ex216
Extension for Box Wrench



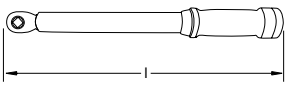
No.	d inch	l inch	Wt. lbs.	d mm	l mm	⚖ kg
Ex216-22	7/8	24	2.43	22	600	1.10
Ex216-25	1	30	4.14	25	750	1.88
Ex216-30	1-3/16	34	6.00	30	850	2.72



Ex501
Wrench, Adjustable End

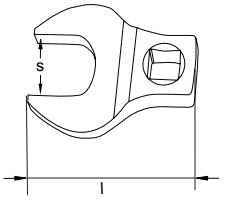
No.	s max inch	l inch	Wt. lbs.	s max mm	l mm	⚖ kg
Ex501-6	3/4	6	0.29	19	150	0.13
Ex501-8	15/16	8	0.62	24	200	0.28
Ex501-10	1-1/8	10	1.06	28	250	0.48
Ex501-12	1-3/8	12	1.68	34	300	0.76
Ex501-15	1-3/4	15	3.13	45	375	1.42
Ex501-18	2-3/16	18	6.19	55	450	2.81
Ex501-24	2-3/8	24	10.87	60	600	4.93

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1514B-005UA
or
Ex1514B-005UB



Ex1401TB
Wrench, Torque
Copper Beryllium (CuBe) only

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



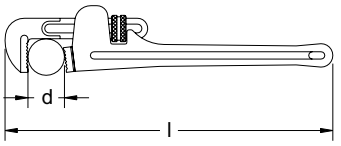
Ex1514B
Wrench, Crowfoot, 1/2" Drive

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex502-6A
or
Ex502-6B

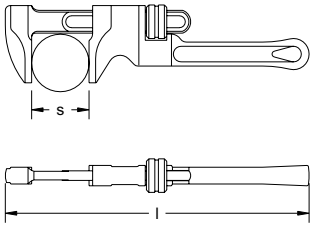
PIPE WRENCHES

Ex502
Wrench, Pipe
American Type



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

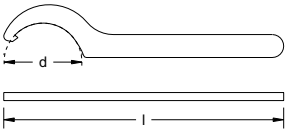
Ex503
Wrench, Monkey



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

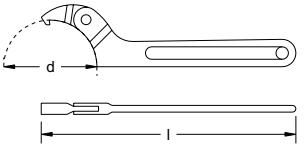
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex208-12/14A
or
Ex208-12/14B

Ex208
Wrench, Spanner, Fixed
(DIN 1810)



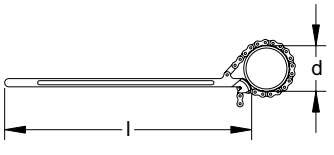
No.	d inch	l inch	Wt. lbs.	d mm	l mm	⚖ kg
Ex208-12/14	7/16 – 9/16	4-1/8	0.07	12/14	103	0.03
Ex208-16/18	5/8 – 11/16	4-1/8	0.07	16/18	104	0.03
Ex208-16/20	5/8 – 3/4	4-1/8	0.07	16/20	104	0.03
Ex208-20/22	3/4 – 7/8	4-3/16	0.07	20/22	105	0.03
Ex208-25/28	1 – 1-1/8	5-3/64	0.11	25/28	126	0.05
Ex208-30/32	1-3/16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

Ex208S
Wrench, Spanner, Adjustable



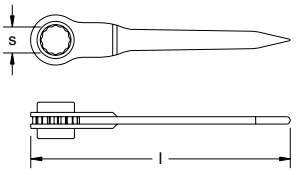
No.	d inch	l inch	Wt. lbs.	d mm	l mm	⚖ kg
Ex208S-32/75	1-1/4 – 3	8-3/16	0.46	32 – 75	205	0.21
Ex208S-50/120	2 – 4-3/4	11-3/8	1.06	50 – 120	285	0.48
Ex208S-115/170	4-9/16 – 6-3/4	12-3/8	2.67	115 – 170	310	1.21

Ex600
Wrench, Chain Pipe



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

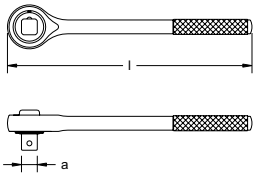
RATCHETS



Ex504S
Wrench, Ratchet

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

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

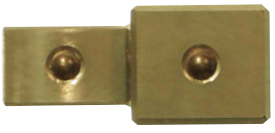


Ex1501S
Wrench, Ratchet

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

Ex1501D
Square Drive for Ratchet
Copper Beryllium (CuBe) only

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



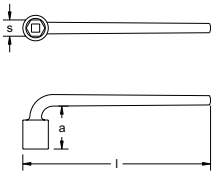
Ex1510
Adapter / Converter

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex701-005UA
or
Ex701-005UB

SOCKET WRENCHES

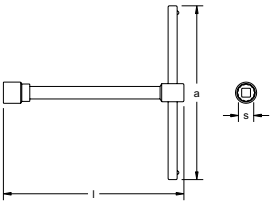
Ex701
Wrench, Socket
L-Type, 6-Point



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

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

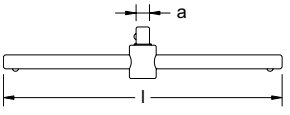
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex702-005UA
or
Ex702-005UB



Ex702
Wrench, Socket
T-Type, 12-Point

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

No.	s mm	a mm	l mm	⚖ 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

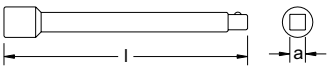


Ex1502
Bar, Sliding

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

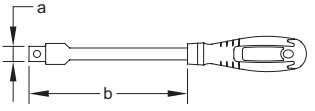
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1504AA-100AA
or
Ex1504AA-100AB

Ex1504
Bar, Extension



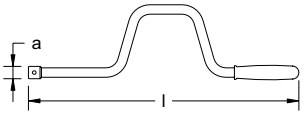
No.	a inch	l inch	Wt. lbs.	l mm	kg
Ex1504AA-100A	1/4	4	0.12	100	0.05
Ex1504AA-200A	1/4	8	0.21	200	0.10
Ex1504A-75A	3/8	3	0.15	75	0.07
Ex1504A-150A	3/8	6	0.33	150	0.15
Ex1504A-100A	3/8	4	0.21	100	0.10
Ex1504B-100A	1/2	4	0.57	100	0.26
Ex1504B-200A	1/2	8	0.90	200	0.41
Ex1504B-250A	1/2	10	1.06	250	0.48
Ex1504C-100A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

Ex1504S
Driver Handle



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

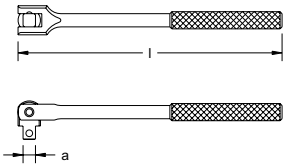
Ex1505
Wrench Handle, Speed



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

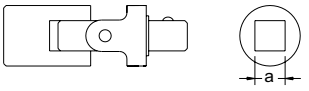
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1506AAA
or
Ex1506AAB

Ex1506
Wrench Handle, Hinged



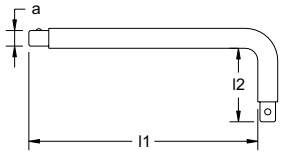
No.	a inch	l inch	Wt. lbs.	l mm	kg
Ex1506AA	1/4	5-3/4	0.29	145	0.13
Ex1506A	3/8	8	0.49	200	0.22
Ex1506B	1/2	12	2.2	300	1.00
Ex1506C	3/4	14-3/8	2.65	360	1.20
Ex1506D	1	14-3/8	4.12	360	1.87

Ex1507
Universal Joint



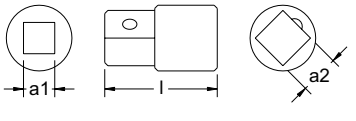
No.	a inch	Wt. lbs.	kg
Ex1507AA	1/4	0.07	0.03
Ex1507A	3/8	0.18	0.08
Ex1507B	1/2	0.35	0.16
Ex1507C	3/4	1.26	0.57
Ex1507D	1	2.43	1.10

Ex1508
Offset Grip Handle
Copper Beryllium (CuBe) only



No.	a inch	l_1 inch	l_2 inch	Wt. lbs.	l_1 mm	l_2 mm	kg
Ex1508A-B	3/8	6-11/16	2	0.66	168	50	0.30
Ex1508B-B	1/2	7-3/8	2-3/16	0.93	184	55	0.42
Ex1508C-B	3/4	9-9/16	2-3/8	1.65	240	60	0.75
Ex1508D-B	1	11	2-9/16	2.47	275	65	1.12

Ex1509
Adapter/Converter

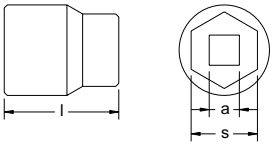


No.	a_1 inch	a_2 inch	l inch	Wt. lbs.	l mm	kg
Ex1509AB	3/8	1/2	1-7/16	0.16	36	0.072
Ex1509BC	1/2	3/4	1-3/4	0.31	44	0.14
Ex1509CB	3/4	1/2	1-7/8	0.44	47	0.20
Ex1509CD	3/4	1	2-3/8	0.71	60	0.32
Ex1509DC	1	3/4	2-7/16	0.97	62	0.44

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1503AA-005UA
or
Ex1503AA-005UB

SOCKETS

Ex1503AA
Socket 1/4" Drive
6-Point



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

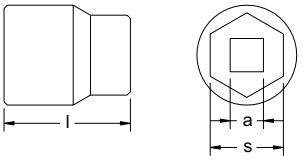
No.	a inch	s mm	l mm	⚖ kg
Ex1503AA-3	1/4	3	23	0.01
Ex1503AA-4	1/4	4	23	0.01
Ex1503AA-4.5	1/4	4.5	23	0.01
Ex1503AA-5	1/4	5	23	0.01
Ex1503AA-5.5	1/4	5.5	23	0.01
Ex1503AA-6	1/4	6	23	0.01
Ex1503AA-7	1/4	7	23	0.01
Ex1503AA-8	1/4	8	23	0.02
Ex1503AA-9	1/4	9	23	0.02
Ex1503AA-10	1/4	10	23	0.02
Ex1503AA-11	1/4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

Ex1503A
Socket 3/8" Drive
6-Point

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

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1503B-005UA
or
Ex1503B-005UB



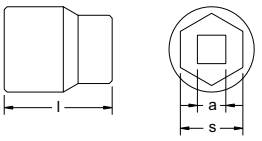
Ex1503B
Socket 1/2" Drive
6-Point

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

No.	a inch	s mm	l mm	⚖ 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 77-80

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1503C-005UA
or
Ex1503C-005UB



Ex1503C
Socket 3/4" Drive
6-Point

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

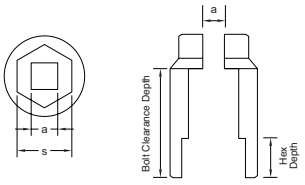
No.	a inch	s mm	l mm	⚖ kg
Ex1503C-19	3/4	19	49	0.24
Ex1503C-20	3/4	20	49	0.24
Ex1503C-21	3/4	21	49	0.24
Ex1503C-22	3/4	22	49	0.25
Ex1503C-23	3/4	23	49	0.26
Ex1503C-24	3/4	24	49	0.26
Ex1503C-25	3/4	25	49	0.26
Ex1503C-26	3/4	26	50	0.26
Ex1503C-27	3/4	27	50	0.26
Ex1503C-28	3/4	28	50	0.26
Ex1503C-29	3/4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

Ex1503D
Socket 1" Drive
6-Point

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

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1610-005UA
or
Ex1610-005UB



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

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

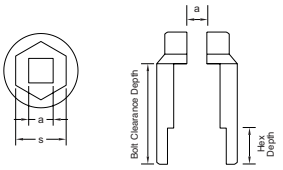
No.	a inch	s mm	Bolt Clearance Depth mm	Hex Depth mm
Ex1610-3	1/4	3	39	10
Ex1610-4	1/4	4	39	10
Ex1610-4.5	1/4	4.5	39	10
Ex1610-5	1/4	5	39	10
Ex1610-5.5	1/4	5.5	39	10
Ex1610-6	1/4	6	39	10
Ex1610-7	1/4	7	39	10
Ex1610-8	1/4	8	39	10
Ex1610-9	1/4	9	39	10
Ex1610-10	1/4	10	39	10
Ex1610-11	1/4	11	39	10
Ex1610-12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

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

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

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1630-005UA
or
Ex1630-005UB



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

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

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

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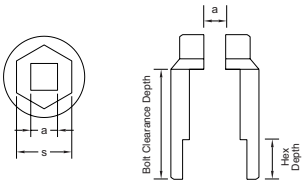
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1640-005UA
or
Ex1640-005UB

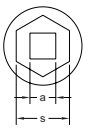


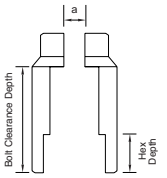
Ex1640
Socket, Standard Deep 3/4" Drive
6-Point

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

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1650-005UA
or
Ex1650-005UB

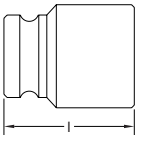


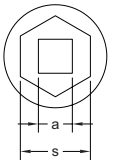


Ex1650
Socket, Standard Deep 1" Drive
6-Point

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

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

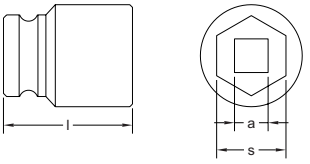




Ex1720
Socket, Impact 3/8" Drive
Copper Beryllium (CuBe) only
6-Point

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

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



Ex1730
Socket, Impact 1/2" Drive
Copper Beryllium (CuBe) only
6-Point

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

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

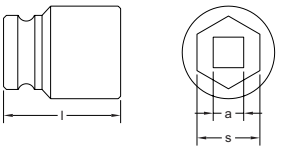
Ex1740
Socket, Impact 3/4" Drive
Copper Beryllium (CuBe) only
6-Point

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

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

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

When ordering, specify:
B = Copper Beryllium
Example: Ex1750-005UB



Ex1750
Socket, Impact 1" Drive
Copper Beryllium (CuBe) only
6-Point

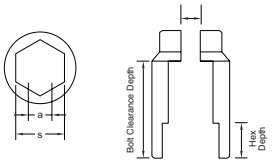
No.	a inch	s inch	l inch	Wt. lbs.
Ex1750-005UB	1	7/8	2-3/8	1.76
Ex1750-010UB	1	15/16	2-3/8	1.79
Ex1750-013UB	1	1	2-3/8	1.79
Ex1750-015UB	1	1-1/16	2-3/8	1.79
Ex1750-017UB	1	1-1/8	2-1/2	1.90
Ex1750-020UB	1	1-3/16	2-1/2	1.90
Ex1750-025UB	1	1-1/4	2-1/2	1.90
Ex1750-030UB	1	1-3/8	2-1/2	1.85
Ex1750-035UB	1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

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

Ex1760
Socket, Impact 1-1/2" Drive
Copper Beryllium (CuBe) only
6-Point

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

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



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

6-Point

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

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

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

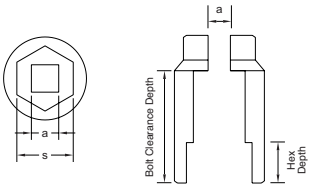
6-Point

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

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

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

When ordering, specify:
B = Copper Beryllium
Example: Ex1840-005UB



Ex1840
Socket, Deep Impact 3/4" Drive
Copper Beryllium (CuBe) only

6-Point

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

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

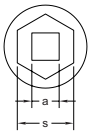
Extended Depth 4-Point and 6-Point Impact Sockets with 1/2", 3/4" and 1" Drives – available upon request.

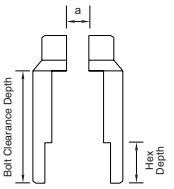
Ex1850
Socket, Deep Impact 1" Drive
Copper Beryllium (CuBe) only

6-Point

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

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





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

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

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

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

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

See page 89

When ordering, specify:
B = Copper Beryllium
Example: Ex209-005UB

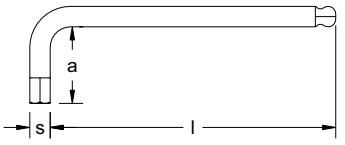
ALLEN KEYS

Ex209

Wrench, Allen / Hex Key

(DIN 911)

Copper Beryllium (CuBe) only



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

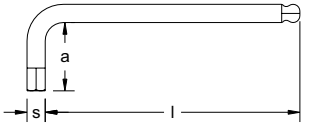
No.	s mm	a mm	l mm	kg
Ex209-1.5B	1.5	14	45	0.0016
Ex209-2B	2	16	50	0.0038
Ex209-2.5B	2.5	18	56	0.0044
Ex209-3B	3	20	63	0.0080
Ex209-4B	4	25	70	0.0140
Ex209-5B	5	28	80	0.0240
Ex209-6B	6	32	90	0.0380
Ex209-7B	7	34	95	0.0520
Ex209-8B	8	36	100	0.0840
Ex209-9B	9	38	105	0.1090
Ex209-10B	10	40	112	0.1340
Ex209-11B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

Ex209L

Wrench, Allen / Hex Key

Ball Point, Long Type

Copper Beryllium (CuBe) only



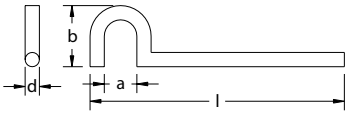
No.	s inch	a inch	l inch	Wt. lbs.
Ex209L-005UB	1/16	9/16	3-1/2	0.006
Ex209L-010UB	5/64	5/8	3-15/16	0.014
Ex209L-015UB	3/32	11/16	4-3/8	0.016
Ex209L-020UB	1/8	3/4	5	0.031
Ex209L-025UB	5/32	1	5-9/16	0.057
Ex209L-030UB	3/16	1-1/8	6-3/16	0.093
Ex209L-035UB	7/32	1-1/4	7	0.15
Ex209L-040UB	1/4	1-3/8	7-1/2	0.20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

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex207-30A
or
Ex207-30B

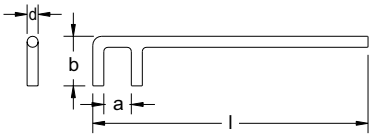
WHEEL WRENCHES

Ex207
Wrench, Valve



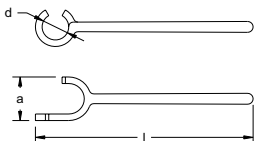
No.	a inch	b inch	d inch	l inch	Wt. lbs.	a mm	b mm	d mm	l mm	kg
Ex207-30	1-3/16	2-1/4	1/2	8	0.66	30	56	13	200	0.30
Ex207-32	1-1/4	2-3/8	9/16	10	0.93	32	60	14	250	0.42
Ex207-36	1-7/16	2-5/8	9/16	10-3/4	1.15	36	66	15	270	0.52
Ex207-41	1-5/8	2-7/8	5/8	12	1.46	41	73	16	300	0.66
Ex207-50	2	3-7/16	11/16	12-3/4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

Ex207F
Valve Wheel Hook



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

Ex207S
Wrench, Valve Wheel
(DIN 87311)

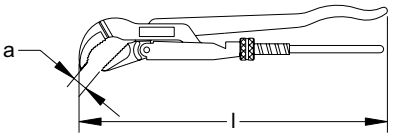


No.	d inch	a inch	l inch	Wt. lbs.	d mm	a mm	l mm	kg
Ex207S-215	1-1/4	2-1/4	8-9/16	0.86	32	56	215	0.39
Ex207S-290	1-7/16	2-1/4	11-9/16	2.27	36	56	290	1.03
Ex207S-400	1-7/8	3-3/16	16	1.90	48	80	400	0.86
Ex207S-490	2-3/8	4	19-9/16	4.30	60	100	490	1.95
Ex207S-800	2-3/8	4-3/8	32	12.57	60	110	800	5.70

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex505-005UA
or
Ex505-005UB

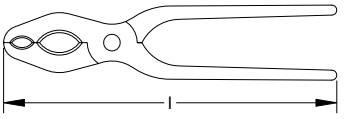
PLIERS

Ex505
Pliers, Swedish
(DIN ISO 5234)



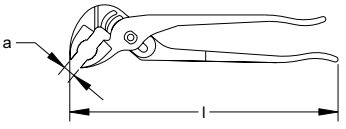
No.	a max inch	l inch	Wt. lbs.	a max mm	l mm	⚖ kg
Ex505-005U	1-9/16	12	1.52	40	300	0.69
Ex505-010U	2-3/16	16-3/4	3.28	55	420	1.49
Ex505-015U	2-11/16	20-13/16	7.14	67	530	3.24

Ex602
Pliers, Pipe



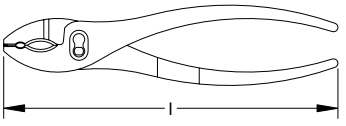
No.	l inch	Wt. lbs.	l mm	⚖ kg
Ex602-200	8	0.99	200	0.45

Ex604
Pliers, Groove Joint



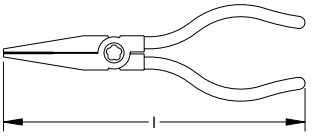
No.	a max inch	l inch	Wt. lbs.	a max mm	l mm	⚖ kg
Ex604-10	1-1/8	10	0.75	28	250	0.34
Ex604-12	1-7/8	12	1.21	48	300	0.55
Ex604-14	2-3/16	14	2.60	55	350	1.18
Ex604-16	3-3/16	17-3/16	3.66	80	430	1.66

Ex605
Pliers, Adjustable Combination



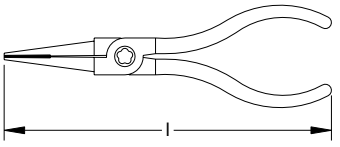
No.	l inch	Wt. lbs.	l mm	⚖ kg
Ex605-8	8	0.46	200	0.21

Ex606
Pliers, Flat Nose
(DIN ISO 5745)



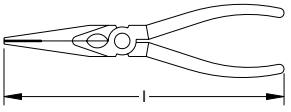
No.	l inch	Wt. lbs.	l mm	⚖ kg
Ex606-6	6	0.37	150	0.17

Ex607
Pliers, Round Nose
(DIN ISO 5745)



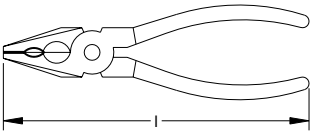
No.	l inch	Wt. lbs.	l mm	⚖ kg
Ex607-6	6	0.31	150	0.14

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



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

Ex612
Pliers, Lineman's, Side Cutting

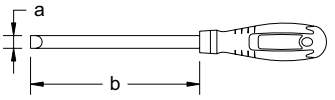


No.	l inch	Wt. lbs.	l mm	⚖ kg
Ex612-6	6-3/8	0.55	160	0.25
Ex612-7	7-3/16	0.57	180	0.26
Ex612-8	8	1.01	200	0.46

When ordering, specify:
B = Copper Beryllium
Example: Ex801-3B

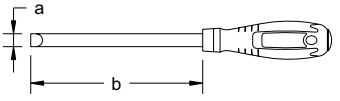
SCREWDRIVERS

Ex801
Screwdriver, Standard
Copper Beryllium (CuBe) only



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

Ex801S
Screwdriver, Striking
Copper Beryllium (CuBe) only

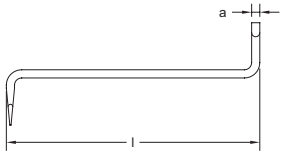


No.	a inch	b inch	Wt. lbs.	a mm	b mm	kg
Ex801S-8B	5/16	6	0.51	8	150	0.23

Ex802

Screwdriver, Offset

Copper Beryllium (CuBe) only



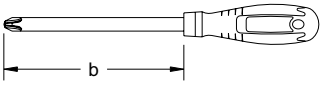
No.	a inch	b inch	Wt. lbs.
Ex802-010UB	1/8	4	0.02
Ex802-020UB	1/4	5-9/16	0.11
Ex802-030UB	3/8	7-3/16	0.42
Ex802-040UB	9/16	10	1.10

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

Ex803

Screwdriver, Phillips

Copper Beryllium (CuBe) only



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

CUTTING TOOLS

Knives / Cutting Tools – pages 57-59

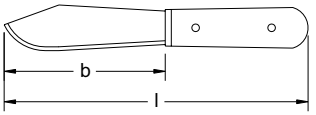
Scrapers – pages 60-61

Saws – page 62

Files– page 63

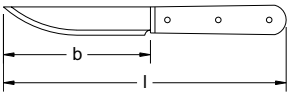
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex409-200A
or
Ex409-200B

Ex409
Knife, Common



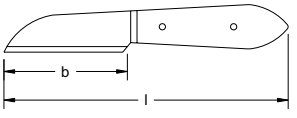
No.	b inch	l inch	Wt. lbs.	b mm	l mm	⚖ kg
Ex409-200	4-1/4	8	0.15	106	200	0.067

Ex410
Knife, Common



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

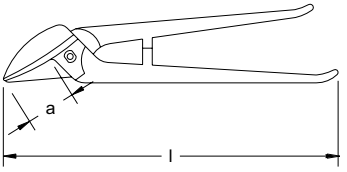
Ex410S
Knife, Common



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

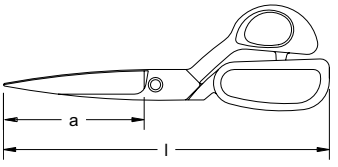
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex608-275A
or
Ex608-275B

Ex608
Shears, Cutting



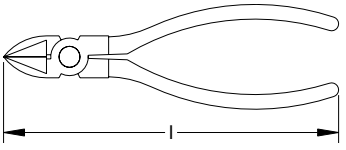
No.	a inch	l inch	Wt. lbs.	a mm	l mm	kg
Ex608-275	1-11/16	11	1.21	43	275	0.55

Ex609
Scissors



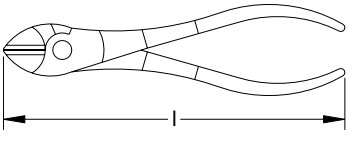
No.	a inch	l inch	Wt. lbs.	a mm	l mm	kg
Ex609-225	3-7/8	9	0.81	97	225	0.37

Ex601
Pliers, Diagonal Cutting
Copper Beryllium (CuBe) only



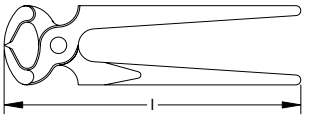
No.	l inch	Wt. lbs.	l mm	kg
Ex601-6B	6-3/8	0.40	160	0.18
Ex601-8B	8	0.53	200	0.24

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



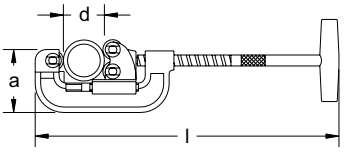
No.	l inch	Wt. lbs.	l mm	kg
Ex601HD-6B	6-3/8	0.37	160	0.17
Ex601HD-7B	7-3/16	0.46	180	0.21

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex603-7A
or
Ex603-7B



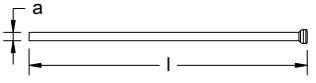
Ex603
Pliers, Cutting

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



Ex1512
Pipe Cutter

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



Ex308
Non-Sparking Needle For Air Needle Scalers
Copper Beryllium (CuBe) only

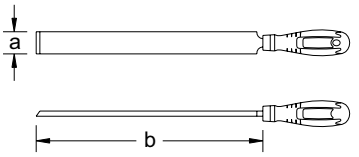
No.	Qty.	a inch	l inch	Wt. lbs.	a mm	l mm	kg
Ex308-3B	1	1/8	7	0.02	3	175	0.01
Ex308-319B	19	1/8	7	0.02	3	175	0.01
Ex308-3100B	100	1/8	7	0.02	3	175	0.01

Pneumatic Needle Scalers
ATEX Classified for use in Ex Zones
Ex II 2Gc IIA T4
See page 88

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex401-18A
or
Ex401-18B

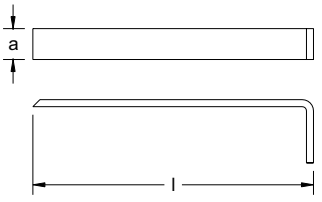
SCRAPERS

Ex401
Scraper, Flat



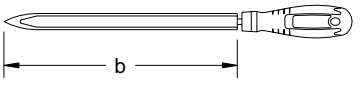
No.	a inch	b inch	Wt. lbs.	a mm	b mm	kg
Ex401-18	11/16	12	0.73	18	300	0.33
Ex401-30	1-3/16	12	1.17	30	300	0.53

Ex402
Scraper, Angle



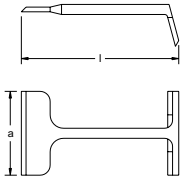
No.	a inch	l inch	Wt. lbs.	a mm	l mm	kg
Ex402-22	7/8	8	0.48	22	200	0.22
Ex402-25	1	12	0.78	25	300	0.36
Ex402-45	1-3/4	9	1.10	45	225	0.50
Ex402-50	2	12	1.57	50	300	0.71

Ex403
Scraper, Triangular



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

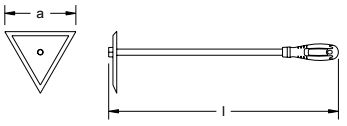
Ex405
Scraper, Deck



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

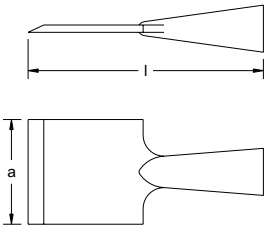
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex406-150A
or
Ex406-150B

Ex406
Scraper, Plate



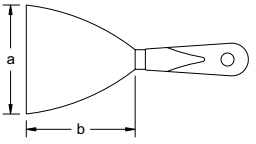
No.	a inch	l inch	Wt. lbs.	a mm	l mm	⚖ kg
Ex406-150	6	19-3/8	2.01	150	485	0.91

Ex407
Scraper, Long Blade
(Handle Not Included)



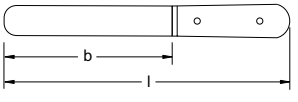
No.	a inch	l inch	Wt. lbs.	a mm	l mm	⚖ kg
Ex407-60	2-3/8	7-3/8	1.10	60	185	0.50
Ex407-100	4	9	2.82	100	225	1.28
Ex407-125	5	9	3.24	125	225	1.47
Ex407-150	6	7-3/16	2.45	150	180	1.11

Ex408
Knife, Putty / Hand Scraper



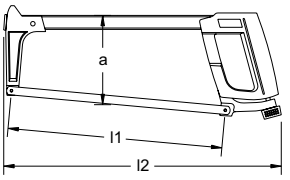
No.	a inch	b inch	Wt. lbs.	a mm	b mm	⚖ kg
Ex408-25	1	4	0.11	25	100	0.05
Ex408-30	1-3/16	4	0.12	30	100	0.05
Ex408-40	1-9/16	4	0.14	40	100	0.07
Ex408-50	2	4	0.17	50	100	0.08
Ex408-60	2-3/8	4	0.19	60	100	0.09
Ex408-75	3	4	0.22	75	100	0.10
Ex408-80	3-3/16	4	0.24	80	100	0.11
Ex408-100	4	4	0.28	100	100	0.13

Ex408S
Spatula



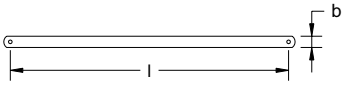
No.	b inch	l inch	Wt. lbs.	b mm	l mm	⚖ kg
Ex408S-6	5-3/4	9-3/4	0.25	146	248	0.11

SAWS



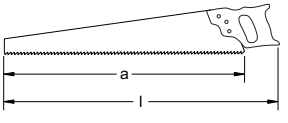
Ex118A
Hacksaw Frame
Aluminum Bronze (AlBr) only

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



Ex118B
Hacksaw Blade
Copper Beryllium (CuBe) only

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

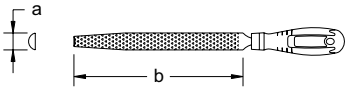


Ex119
Saw, Hand (8 teeth/inch)
Copper Beryllium (CuBe) only

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

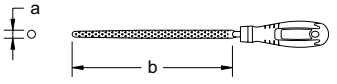
FILES

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



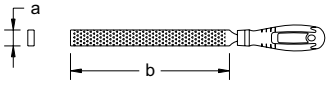
No.	a inch	b inch	Wt. lbs.	a mm	b mm	⚖ kg
Ex411-200B	3/4	8	0.41	20	200	0.19
Ex411-250B	15/16	10	0.73	24	250	0.33

Ex411R
File, Round
Copper Beryllium (CuBe) only



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

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



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

UTILITY TOOLS

Shovels – page 65

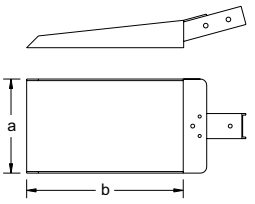
Hatchets / Axes – page 66

Bars – pages 66-67

Picks/Forks – pages 68-69

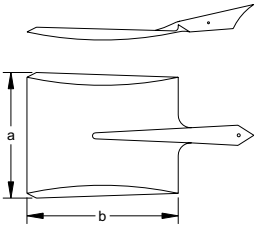
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1005-250A
or
Ex1005-250B

Ex1004
Dust Pan
Copper Beryllium (CuBe) only



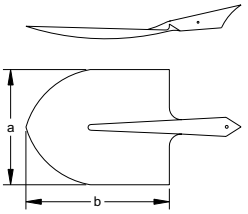
No.	a inch	b inch	Wt. lbs.	a mm	b mm	kg	Handle Length
Ex1004-120B	4-3/4	8	0.79	120	200	0.36	12.5"/320mm

Ex1005 / Ex1005D
Shovel, Square Point



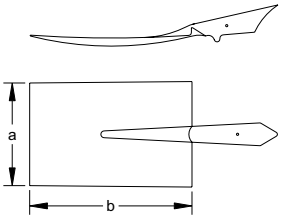
No.	Handle Type	a inch	b inch	Wt. lbs.	a mm	b mm	kg	Handle Length
Ex1005-250	Straight	9.1	10.6	5.16	230	270	2.34	29.5"/750mm
Ex1005D-250	D	9.1	10.6	6.26	230	270	2.84	45"/1143mm

Ex1006 / Ex1006D
Shovel, Round Point



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

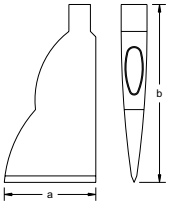
Ex1007
Spade, Edging with D-Grip



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

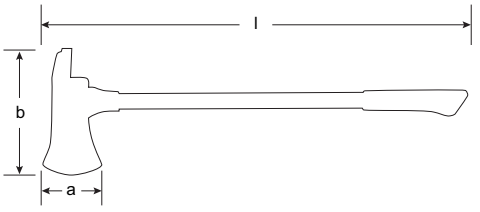
When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1202-85A
or
Ex1202-85B

HATCHETS / AXES



Ex1202
Hatchet w/ Nupla Handle

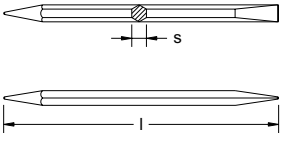
No.	a inch	b inch	Wt. lbs.	a mm	b mm	kg	Handle Length
Ex1202-85	3-13/32	6-19/32	2.71	85	165	1.23	14"/360mm



Ex1203
Axe, Pick Head w/ Nupla Handle

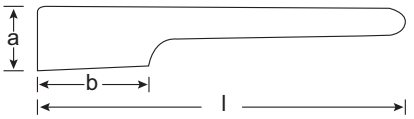
No.	a inch	b inch	l inch	Wt. lbs.	a mm	b mm	l mm	kg
Ex1203-1850	5	12	36-7/23	4.00	125	300	920	1.85
Ex1203-2950	5	12	36-7/23	6.50	125	300	920	2.95

BARS



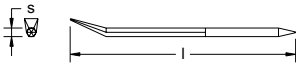
Ex308B
Caulking Tool

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



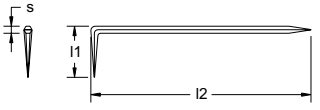
Ex1013
Drum Opener, Carbide

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



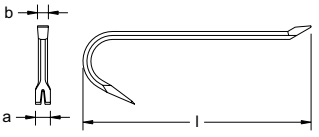
Ex1301
Bar, Pinch

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



Ex1302
Angle Tracing Point

No.	s inch	l_1 inch	l_2 inch	Wt. lbs.	s mm	l_1 mm	l_2 mm	kg
Ex1302-300	5/8	4-5/8	12	1.28	16	116	300	0.58
Ex1302-500	5/8	4-5/8	20	2.11	16	116	500	0.96
Ex1302-600	3/4	5-9/16	24	3.93	20	140	600	1.78
Ex1302-800	7/8	6-7/16	32	6.30	22	162	800	2.86



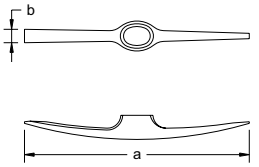
Ex1303
Bar, Crow

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1008-420A
or
Ex1008-420B

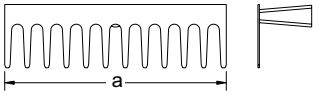
PICKS / FORKS

Ex1008
Pick, Railroad or Clay
(Handle Included)



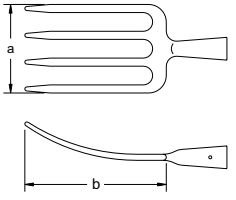
No.	a inch	b inch	Wt. lbs.	a mm	b mm	kg	Handle Length
Ex1008-420	16-3/4	1	2.65	420	25	1.20	36"/920mm
Ex1008-560	22-3/8	1-3/16	4.54	560	30	2.06	36"/920mm
Ex1008-640	25-9/16	1-3/8	9.85	640	35	4.47	36"/920mm

Ex1009
Rake
(Handle Included)



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

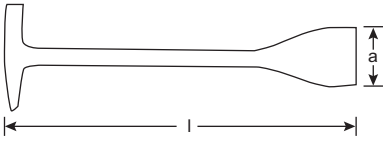
Ex1010
Fork, Garden
(Single Cast, Handle Included)



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

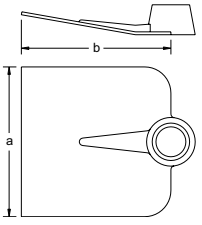
UTILITY

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1014-400A
or
Ex1014-400B



Ex1014
Scraper, Pick and Scaler

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



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

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex998-3UA
or
Ex998-3UB

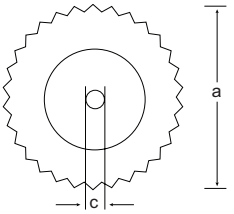
MISCELLANEOUS TOOLS

Brushes – pages 70-71

Bung Wrenches – page 72

Clamps – page 73

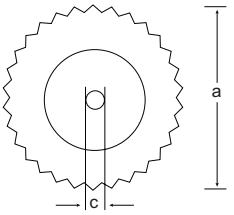
Special Tools – pages 73-75



Ex998
Cup Brush, Knot Wire

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

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

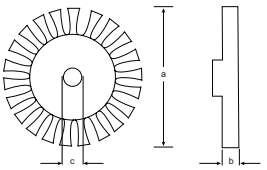


Ex1000
Brush, Cup

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

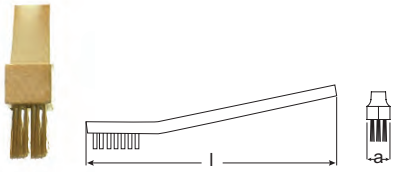
No.	a inch	c inch	kg
Ex1000-75	75	M14	0.29
Ex1000-100	100	M14	0.42
Ex1000-150	150	M14	0.57

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1003-125A
or
Ex1003-125B



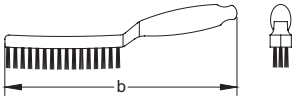
Ex1003
Brush, Wheel

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



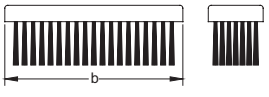
Ex996
Brush, Spark Plug Cleaning
Phosphorous Copper only

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



Ex1001
Brush, Straight Handle, Scratch
Aluminum Bronze (AlBr) only

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



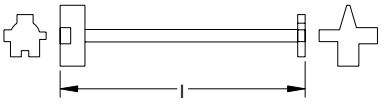
Ex1002
Brush, Flat Back, Scratch
Aluminum Bronze (AlBr) only

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

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

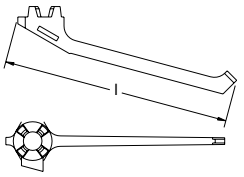
BUNG WRENCHES

Ex110
Wrench, Bung



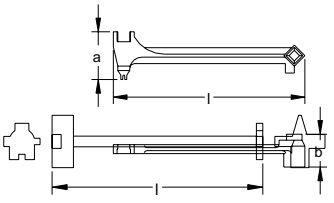
No.	l inch	Wt. lbs.	l mm	kg
Ex110-400	15-3/4	4.28	400	1.94

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



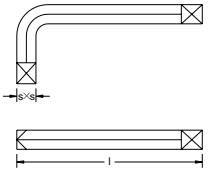
No.	l inch	Wt. lbs.	l mm	kg
Ex110ES-305	12-3/16	1.65	305	0.75

Ex110S
Wrench, Bung
For 22 Different Bungs



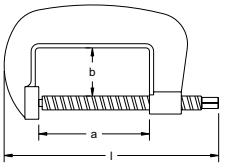
No.	a inch	b inch	l inch	Wt. lbs.	a mm	b mm	l mm	kg
Ex110S-385	3-13/16	2-5/8	15-3/8	4.01	96	66	385	1.82

Ex213
Wrench, Bung



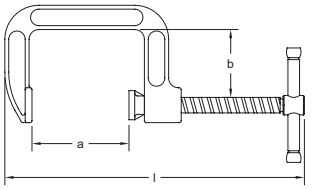
No.	s inch	l inch	Wt. lbs.	s mm	l mm	kg
Ex213-22	7/8	10-3/16	1.41	22	255	0.64
Ex213-24	15/16	10-3/16	1.75	24	255	0.78
Ex213-27	1-1/16	12-3/8	2.65	27	310	1.20
Ex213-32	1-1/4	12-3/8	3.78	32	310	1.71

CLAMPS



Ex211
Clamp, Grounding

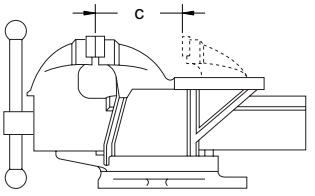
No.	a inch	b inch	l inch	Wt. lbs.	a mm	b mm	l mm	kg
Ex211-160	6-3/8	2-3/4	12-3/8	7.87	160	69.5	310	3.57



Ex901
Clamp, C-Type

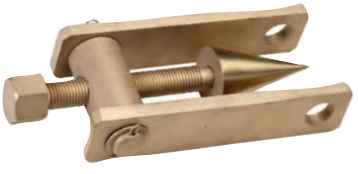
No.	a max inch	b inch	l inch	Wt. lbs.	a max mm	b mm	l mm	kg
Ex901-100	4	2-3/4	12-3/8	3.77	100	70	309	1.71

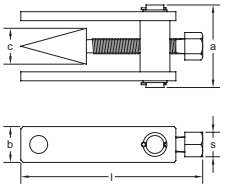
SPECIAL TOOLS



Ex902
Parallel Vise

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



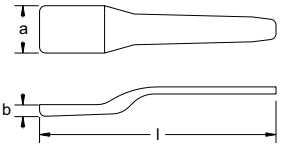


Ex1102
Flange Spreader

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex308A-200A
or
Ex308A-200B

Ex308A
Caulking Tool

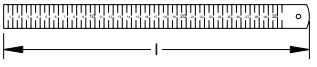


No.	a inch	b inch	l inch	Wt. lbs.	a mm	b mm	l mm	kg
Ex308A-200	1-9/16	3/8	8	0.87	40	10	200	0.40

Ex1017
Bucket
Aluminum Bucket with Brass Handle

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

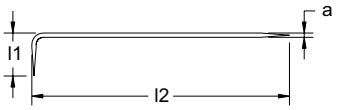
Ex1601
Ruler



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

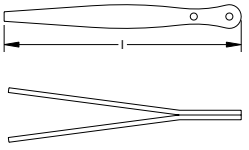
MISCELLANEOUS

Ex302
Scriber / Marking Tool



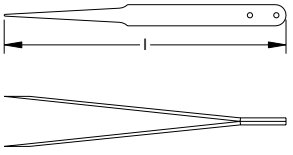
No.	a inch	l_1 inch	l_2 inch	Wt. lbs.	a mm	l_1 mm	l_2 mm	kg
Ex302-3	1/8	1-3/6	7-3/16	0.02	3	30	180	0.011
Ex302-4	5/32	1-3/8	7-3/4	0.04	4	35	195	0.02
Ex302-5	3/16	1-9/16	8-3/8	0.09	5	40	210	0.04
Ex302-6	1/4	1-3/4	9	0.13	6	45	225	0.06

Ex610
Tweezer
Copper Beryllium (CuBe) only



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

Ex610S
Tweezer
Copper Beryllium (CuBe) only



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

CS Unitec Tool Kits

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex206-KitA
or
Ex206-KitB

Ex801-KitB
Screwdriver Kit *Copper Beryllium (CuBe) only*
(Pouch Included)

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

Ex206-Kit
Combination Wrench Kit
(Pouch Included)

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

Ex209-KitB
Allen Wrench Kit *Copper Beryllium (CuBe) only*
(Pouch Included)

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

Sockets 1/4" Drive (Case Included)

Ex1520-Kit

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

Ex1520-Met Kit

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1500-KitA
or
Ex1500-KitB

Sockets Kits – 1/2" Drive

Ex1500-Kit
28-Piece Kit (Case Included)

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

Ex1535-Kit
10-Piece Kit (Case Included)

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

Ex1530-Kit
20-Piece Kit (Case Included)

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

Ex1530-Met Kit
28-Piece Kit (Case Included)

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

When ordering, specify:
A = Aluminum Bronze
B = Copper Beryllium
Example: Ex1540-KitA
or
Ex1540-KitB

Sockets Kits – 3/4" Drive

Ex1540-Kit
16-Piece Kit (Case Included)

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

Ex1540-Met Kit
14-Piece Kit (Case Included)

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

Ex2000-KitB
24-Piece Kit *Copper Beryllium (CuBe) only*
(Case Included)

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

Ex2211-Kit
11-Piece Kit (Case Included)

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

CS Unitec Non-Sparking Tools Certifications

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

What does BAM stand for?

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

Why choose the BAM for non-sparking tools?

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

How is a spark created?

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

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

How does BAM relate to CS UNITEC SAFETY TOOLS?

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

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

BAM **Type Approved**

Certification No. BAM/ZBF/004/14

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

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

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

What is ATEX?

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

How are ATEX tools classified?

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

What types of tools receive ATEX certification?

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

How can I tell if my tool is ATEX certified?

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

ATEX 94/9/EC

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

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

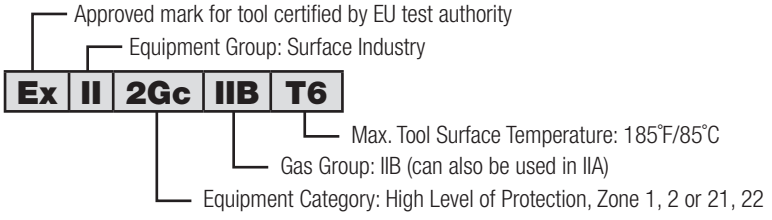
For ATEX information, visit: http://ec.europa.eu/growth/sectors/mechanical-engineering/atex/

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

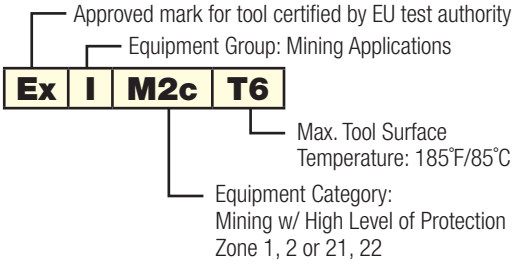
For a FREE poster explaining Ex zones, visit www.csunitec.com/poster.

Tool Classification Examples:

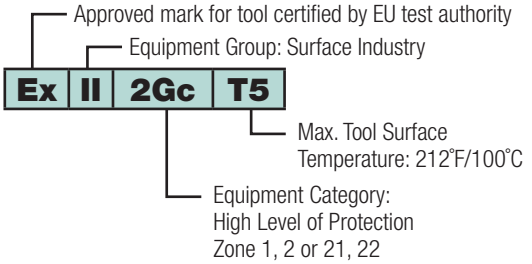
Industry with explosion group for specified types of gas:



Mining:



Industry for all types of gas:



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

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

Drills & Drive Units: Pneumatic

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

Rotary Hammer Drills: Pneumatic

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

Corner Drills: Pneumatic

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

Nut Runners: Pneumatic

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

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

Impact Wrenches: Pneumatic & Hydraulic

See page 89 for more information on Impact Wrenches

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

Portable Magnetic Drills: Pneumatic & Hydraulic

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

Core Drill: Pneumatic

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

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

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

Mixers: Pneumatic

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

Chain Saws: Pneumatic & Hydraulic

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

Band Saws: Pneumatic

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

Dry Cutting Circular Saw: Pneumatic

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

Vacuum: Pneumatic

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

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

Hacksaws: Pneumatic & Hydraulic

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

Reciprocating Saws: Pneumatic & Hydraulic

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

Pipe Cutting Machines: Pneumatic & Hydraulic

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

Needle Scalers: Pneumatic

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

See page 88 for more information on Needle Scalers

See pages 90-91 for more information on Axial Fans

Axial Fans: Pneumatic and Electric

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

ATEX-Approved

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

ATEX Certified

For use in hazardous environments and ATEX and Ex Zones

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

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

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

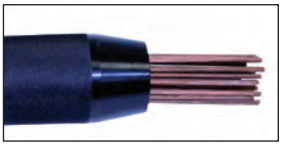
Grip	Description	Model Number	Needle Qty./Dia.	Weight (lbs.)	Blows per min.	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s²
Inline	VL223Ex Needle Scaler with dust shroud	139.2103	19 / 3mm	5.25	2400	4	90.7	2.56
Pistol	VL203Ex Needle Scaler with dust shroud	139.2303	19 / 3mm	6	2400	4	90.7	2.75
	VL303Ex Needle Scaler with dust shroud	139.2433	28 / 3mm	7.75	3000	5	109.5	2.3

VL233Ex

VL203Ex

VL303Ex

Standard Features



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

Dust shroud to protect user from hazardous dust and debris

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

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

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

Optional Accessory

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

ATEX Models for use in Ex Zones and Hazardous Environments.

IMPACT WRENCHES

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

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

- High torque
- Best power-to-weight ratio

CuBe

Non-Sparking Impact Sockets – See pages 44-49

ATEX Certified

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

Ex II 2 GcT5
(Model No 6 1515 0010)

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

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

Pneumatic Impact Wrenches

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

Hydraulic Impact Wrenches

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

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

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

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

See page 83 for information on ATEX

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

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

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

AXIAL FANS AND AIR MOVERS

Explosion Proof

For use in Ex Zones and Hazardous Environments

Electric fan motors are intrinsically safe, Ex.

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.

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

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

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

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

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

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

Explosion-Proof Pneumatic Axial Fans and Air Movers

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

Explosion-Proof Electric Axial Fans

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

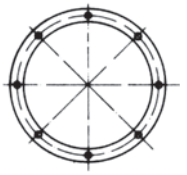
* with switch and cable

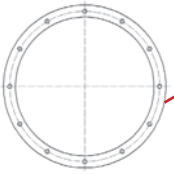
Optional Accessories

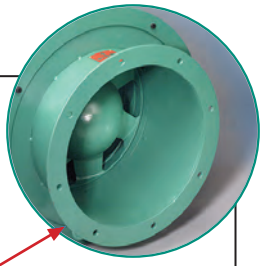
9 3001 0010	Mounting Flange for 12" Axial Fans, DIN 21603 (1 or 2 per fan)
9 3001 0020	Mounting Flange for 16" Axial Fans, DIN 21603 (1 or 2 per fan)
9 3001 0030	Mounting Flange for 20" Axial Fans, DIN 21603 (1 or 2 per fan)
9 3001 0040	Mounting Flange for 24" Axial Fans, DIN 21603 (1 or 2 per fan)
8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

Mounting Flanges

For fitting fans to flanged pipes for suction or discharge



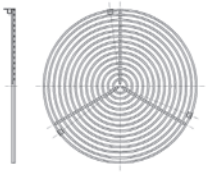




Protective Grilles

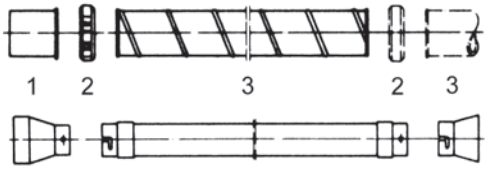
For use on non-ducted fans.

8 1501 7010



8 1601 2070

Grounding Cable



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

SPECIAL TOOLS FOR UNDERWATER USE

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

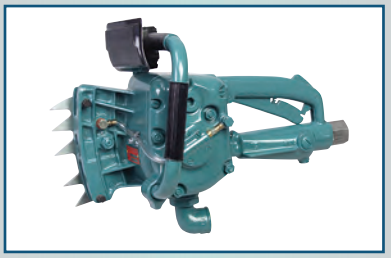
Chain Saws – Hydraulic and Pneumatic

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

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

5 1028 0020 Underwater Air Chain Saw w/Brake, 21", 4HP, 90 PSI / 92 CFM

5 1030 0020 Underwater Hydraulic Chain Saw w/Brake, 21", 10HP, 12 GPM, 2000 PSI



Hacksaws – Hydraulic

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

Reciprocating Saws - Hydraulic and Pneumatic

5 1219 0010 Underwater Hydraulic Reciprocating Saw, 2 HP, 1700 Strokes per minute, 6 GPM, 2000 PSI, 13.2 lbs.

5 1217 0020 Underwater Pneumatic Reciprocating Saw, 1.3 HP, 0-1800 Strokes per minute, 90 PSI / 46 CFM, 9 lbs.

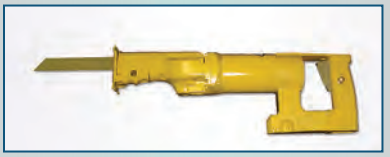
Grinders - Hydraulic

1 1580 0060 Underwater Hydraulic Horizontal Grinder, 1.3 HP, 7000 RPM, Twist throttle, straight grinding wheels

1 1585 0010 Underwater Hydraulic Angle Grinder, 1.3 HP, 5500 RPM, Lever throttle, grinding wheels up to 7"

1 5080 0020 Underwater Hydraulic Peanut Die Grinder, 1.0 HP, 11,500 RPM, Lever throttle, 1/4" collet

1 2060 0010 Underwater Hydraulic Vertical Grinder, 4.75 HP, 3600 RPM, Lever throttle, grinding wheels up to 9"



Rotary Hammer Drills - Hydraulic and Pneumatic

2 2404 0030 Underwater Air Rotary Hammer Drill, SDS Plus, 1" cap. in concrete, 0-3000 BPM, .5 HP, 90 PSI / 21 CFM

2 2417 0010 Underwater Air Rotary Hammer Drill, SDS Max, 2" cap. in concrete, 0-2500 BPM, 1.2 HP, 90 PSI / 21 CFM

2 2406 0010 Underwater Hydraulic Rotary Hammer Drill, SDS Plus, 1" cap. in concrete, 0-3400 BPM, .8 HP

2 2418 0010 Underwater Hydraulic Rotary Hammer Drill, SDS Max, 2" cap. in concrete, 2500 BPM, 1.75 HP

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

Core Drills - Hydraulic and Pneumatic

2 1317 0030 Underwater Hydraulic Core Drill, 3" max. dia., 3.6 HP, 380/900/1800 RPM, 18.7 lbs.

2 1335 0010 Underwater Pneumatic Core Drill, 3" max. dia., 3.8 HP, 300/700/1350 RPM, 21 lbs.

Portable Magnetic Drills – Hydraulic

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

2 1345 0010 Underwater Hydraulic Magnetic Drill, 4" max. dia. with cutters, 1-1/4" max. dia. with twist drills, 40-250 RPM, 3.4 HP, 50 lbs.

Impact Wrenches – Hydraulic and Pneumatic

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

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

Index by Part Number

Part#	Page
Ex100	10
Ex101U	9
Ex102U	9
Ex103U	9
Ex104U	9
Ex105U	10
Ex106U	10
Ex107	10
Ex108U	11
Ex110	72
Ex110ES	72
Ex110S	72
Ex112U	11
Ex113S	11
Ex118A	62
Ex118B	62
Ex119	62
Ex121	11
Ex122U	12
Ex200	19
Ex201	20
Ex201B	21
Ex201F	22
Ex202	22
Ex202F	23
Ex203	24
Ex204	24
Ex204D	25
Ex204S	25
Ex205	26
Ex205S	27
Ex206	28
Ex206L	28
Ex206-Kit	77
Ex207	51
Ex207F	51
Ex207S	51
Ex208	32
Ex208S	32
Ex209	50
Ex209L	50
Ex209-KitB	77
Ex211	73
Ex212	27
Ex213	72
Ex215	29
Ex216	29
Ex301	13
Ex301C	13
Ex301P	12
Ex302	75
Ex303	13
Ex304	14
Ex304A	14
Ex304S	14
Ex305	14
Ex306	15
Ex307	15
Ex308	59
Ex308A	74
Ex308B	66
Ex309AH	15
Ex310AH	15
Ex312	15
Ex314	16
Ex318F	16
Ex318R	16
Ex320F	16
Ex320R	16
Ex340	17
Ex380SH	17
Ex401	60
Ex402	60
Ex403	60
Ex405	60
Ex406	61
Ex407	61
Ex408	61
Ex408S	61
Ex409	57
Ex410	57
Ex410S	57
Ex411	63
Ex411F	63
Ex411R	63
Ex501	29
Ex502	31
Ex503	31
Ex504S	33
Ex505	52
Ex600	32
Ex601	58
Ex601HD	58
Ex602	52
Ex603	59
Ex604	52
Ex605	52
Ex606	53
Ex607	53
Ex608	58
Ex609	58
Ex610	75
Ex610S	75
Ex611	53
Ex612	53
Ex701	34
Ex702	35
Ex801	54
Ex801-KitB	77
Ex801S	54
Ex802	55
Ex803	55
Ex901	73
Ex902	73
Ex996	71
Ex998	70
Ex1000	70
Ex1001	71
Ex1002	71
Ex1003	71
Ex1004	65
Ex1005	65
Ex1005D	65
Ex1006	65
Ex1006D	65
Ex1007	65
Ex1008	68
Ex1009	68
Ex1010	68
Ex1013	67
Ex1014	69
Ex1015	69
Ex1017	74
Ex1041	12
Ex1101BH	17
Ex1101U	17
Ex1102	73
Ex1202	66
Ex1203	66
Ex1301	67
Ex1302	67
Ex1303	67
Ex1401TB	30
Ex1500-Kit	78
Ex1501D	33
Ex1501S	33
Ex1502	35
Ex1503AA	38
Ex1503A	38
Ex1503B	39
Ex1503C	40
Ex1503D	40
Ex1504	36
Ex1504S	36
Ex1505	36
Ex1506	37
Ex1507	37
Ex1508	37
Ex1509	37
Ex1510	33
Ex1512	59
Ex1514B	30
Ex1520-Kit	77
Ex1520-Met Kit	77
Ex1530-Kit	79
Ex1530-Met Kit	79
Ex1535-Kit	78
Ex1540-Kit	80
Ex1540-Met Kit	80
Ex1601	74
Ex1610	41
Ex1620	41
Ex1630	42
Ex1640	43
Ex1650	44
Ex1720	44
Ex1730	45
Ex1740	45
Ex1750	46
Ex1760	46
Ex1820	47
Ex1830	47
Ex1840	48
Ex1850	48
Ex1860	49
Ex2000-KitB	81
Ex2211-Kit	81

Index

Description	Part#	Page
Angle Tracing Point	Ex1302	67
Axe, Pick Head	Ex1203	66
Bars		
Crow	Ex1303	67
Pinch	Ex1301	67
Brushes		
Brush, Cup	Ex1000	70
Brush, Spark Plug Cleaning	Ex996	71
Brush, Wheel	Ex1003	71
Cup Brush, Knot Wire	Ex998	70
Flat Back, Scratch	Ex1002	71
Straight Handle, Scratch	Ex1001	71
Bucket	Ex1017	74
Caulking Tool	Ex308A	74
Caulking Tool	Ex308B	66
Chisels		
6-Point	Ex304A	14
8-Point	Ex304S	14
Bull Point	Ex306	15
Bull Point	Ex318R, Ex320R	16
Cape	Ex305	14
Chipping Hammer	Ex314	16
Clay Spade	Ex340	17
Diamond Point	Ex307	15
Hand	Ex304	14
Paving Breaker	Ex318F, Ex320F	16
Pneumatic	Ex309AH, Ex310AH	15
Scaling	Ex312	15
Scaling	Ex380SH	17
Clamps		
C-Type	Ex901	73
Grounding	Ex211	73
Crate Opener	Ex113S	11
Drifts		
Cylindrical	Ex301	13
Pin, Straight Type	Ex301C	13
Drum Opener, Carbide	Ex1013	67
Dust Pan	Ex1004	65
Files		
Flat, Bastard	Ex411F	63
Half Round, Bastard	Ex411	63
Round	Ex411R	63
Flange Spreader	Ex1102	73
Fork, Garden	Ex1010	68
Hammers		
Ball Peen	Ex101U	9
Bricklayers'	Ex112U	11
Claw	Ex122U	12
Club	Ex108U	11
Cross Peen Engineers'	Ex102U	9
Cross Peen, Engineers'/Blacksmiths'	Ex1041	12
Cutoff	Ex105U	10
Double-face Machinists'	Ex103U	9

Description	Part#	Page
Hammers *(continued)*		
Plastic	Ex121	11
Scaling	Ex106U	10
Sledge	Ex104U	9
Shackles for Drop Protection	Ex100	10
Hatchet	Ex1202	66
Hoe, Planters'/Mixing, Angled Blade	Ex1015	69
Kits		
11-Piece	Ex2211-Kit	81
24-Piece	Ex2000-Kit	81
Allen Wrench	Ex209-Kit	77
Combination Wrench	Ex206-Kit	77
Screwdriver	Ex801-Kit	77
Socket, 1/4" drive	Ex1520-Kit	77
Socket, 1/4" drive, Metric	Ex1520-Met Kit	77
Socket, 1/2" drive	Ex1500-Kit	78
Socket, 1/2" drive	Ex1535-Kit	78
Socket, 1/2" drive	Ex1530-Kit	79
Socket, 1/2" drive, Metric	Ex1530-Met Kit	79
Socket, 3/4" drive	Ex1540-Kit	80
Socket, 3/4" drive, Metric	Ex1540-Met Kit	80
Knives		
Common	Ex409, Ex410, Ex410S	57
Putty/Hand Scraper	Ex408	61
Needle, for Air Needle Scalers	Ex308	59
Pick		
Railroad or Clay	Ex1008	68
Pipe Cutter	Ex1512	59
Pliers		
Adjustable Combination	Ex605	52
Cutting	Ex603	59
Diagonal Cutting	Ex601	58
Diagonal Cutting, Heavy Duty	Ex601HD	58
Flat Nose (DIN ISO 5745)	Ex606	53
Groove Joint	Ex604	52
Lineman's, Side Cutting	Ex612	53
Long-Nose w/Side Cutter (DIN ISO 5745)	Ex611	53
Pipe	Ex602	52
Round Nose (DIN ISO 5745)	Ex607	53
Swedish (DIN 5234)	Ex505	52
Punches		
Center	Ex303	13
Pin	Ex301P	12
Rake	Ex1009	68
Ruler	Ex1601	74
Saws		
Hacksaw Frame	Ex118A	62
Hacksaw Blade	Ex118B	62
Hand	Ex119	62
Scissors	Ex609	58

Description	Part#	Page
Scrapers		
Angle	Ex402	60
Deck	Ex405	60
Flat	Ex401	60
Long Blade	Ex407	61
Pick and Scaler	Ex1014	69
Plate	Ex406	61
Triangular	Ex403	60
Screwdrivers		
Offset	Ex802	55
Phillips	Ex803	55
Standard	Ex801	54
Striking	Ex801S	54
Scriber/Marking Tool	Ex302	75
Shears, Cutting	Ex608	58
Shovels		
Square Point		
w/Long Handle	Ex1005	65
w/D-Handle	Ex1005D	65
Round Point		
w/Long Handle	Ex1006	65
w/D-Handle	Ex1006D	65
Spade, Edging w/ D-Grip	Ex1007	65
Sockets		
1/4" Drive	Ex1503AA	38
3/8" Drive	Ex1503A	38
1/2" Drive	Ex1503B	39
3/4" Drive	Ex1503C	40
1" Drive	Ex1503D	40
Adapter/Converter	Ex1509	37
Bar, Sliding	Ex1502	35
Deep Impact, 3/8" Drive	Ex1820	47
Deep Impact, 1/2" Drive	Ex1830	47
Deep Impact, 3/4" Drive	Ex1840	48
Deep Impact, 1" Drive	Ex1850	48
Deep Impact, 1-1/2" Drive	Ex1860	49
Driver Handle	Ex1504S	36
Extension, Bar	Ex1504	36
Impact, 3/8" Drive	Ex1720	44
Impact, 1/2" Drive	Ex1730	45
Impact, 3/4" Drive	Ex1740	45
Impact, 1" Drive	Ex1750	46
Impact, 1-1/2" Drive	Ex1760	46
Joint, Universal	Ex1507	37
Offset Grip Handle	Ex1508	37
Standard Deep, 1/4" Drive	Ex1610	41
Standard Deep, 3/8" Drive	Ex1620	41
Standard Deep, 1/2" Drive	Ex1630	42
Standard Deep, 3/4" Drive	Ex1640	43
Standard Deep, 1" Drive	Ex1650	44
Spatula	Ex408S	61
Tweezer	Ex610, Ex610S	75
Valve Wheel Hook	Ex207F	51
Vise, Parallel	Ex902	73
Wedges		
Banana	Ex1101BH	17
Flange	Ex1101U	17
Stone	Ex107	10

Description	Part#	Page
Wrenches		
Adapter / Converter	Ex1510	33
Adjustable End	Ex501	29
Allen/Hex Key (Ball Point, Long Type)	Ex209L	50
Allen/Hex Key (DIN 911)	Ex209	50
Box End (12 Pt., DIN 3111)	Ex204D	25
Box End (6-Point)	Ex204	24
Box End, Double, Offset (12-Point)	Ex202F	23
Box End, Double, Straight Type (12-Point)	Ex202	22
Box End, Single (12-Point)	Ex201	20
Box, for Extension	Ex215	29
Bung	Ex110	72
Bung	Ex110ES, Ex110S	72
Bung	Ex213	72
Chain Pipe	Ex600	32
Combination	Ex206	28
Combination, Long	Ex206L	28
Construction, Open End, with Pin	Ex205S	27
Construction, Ring End, with Pin	Ex204S	25
Crowfoot	Ex1514B	30
Extension for Box Wrench	Ex216	29
Gas Tube	Ex212	27
Handle, Hinged	Ex1506	37
Handle, Speed	Ex1505	36
Monkey	Ex503	31
Open End	Ex205	26
Open End, Double	Ex203	24
Pipe (American Type)	Ex502	31
Ratchet	Ex504S	33
Ratchet	Ex1501S	33
Socket, L-Type (6-Point)	Ex701	34
Socket, T-Type (12-Point)	Ex702	35
Square Drive for Ratchet	Ex1501D	33
Spanner, Adjustable	Ex208S	32
Spanner, Fixed (DIN 1810)	Ex208	32
Striking, Box (12-Point, DIN 7444)	Ex201B	21
Striking, Box, Offset (12-Point)	Ex201F	22
Striking, Open End	Ex200	19
Torque	Ex1401TB	30
Valve	Ex207	51
Valve Wheel (DIN 87311)	Ex207S	51

Power Tools

ATEX Certified Power Tools for Ex Zones and Hot Work Zones *(including Reciprocating Saws, Hacksaws, Rotary Hammer Drills, Magnetic Drills, Nut Runners and Band Saws)*	84
ATEX Certified Needle Scalers	88
Impact Wrenches, Air & Hydraulic	89
Axial Fans & Air Movers	90
Underwater Tools	92

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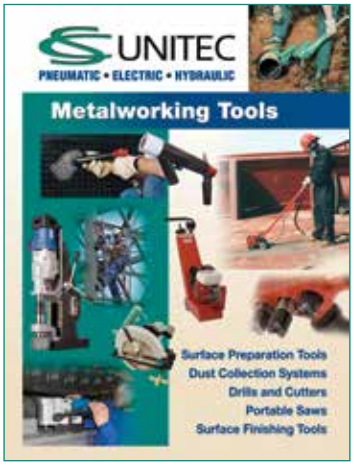

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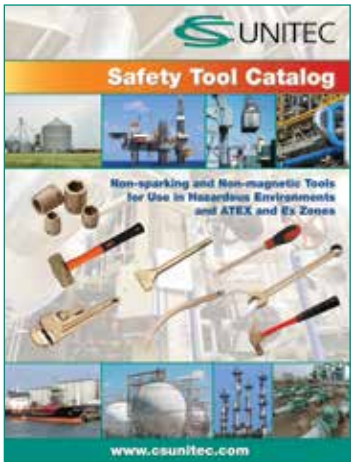

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