

# Safety Tool Catalog



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

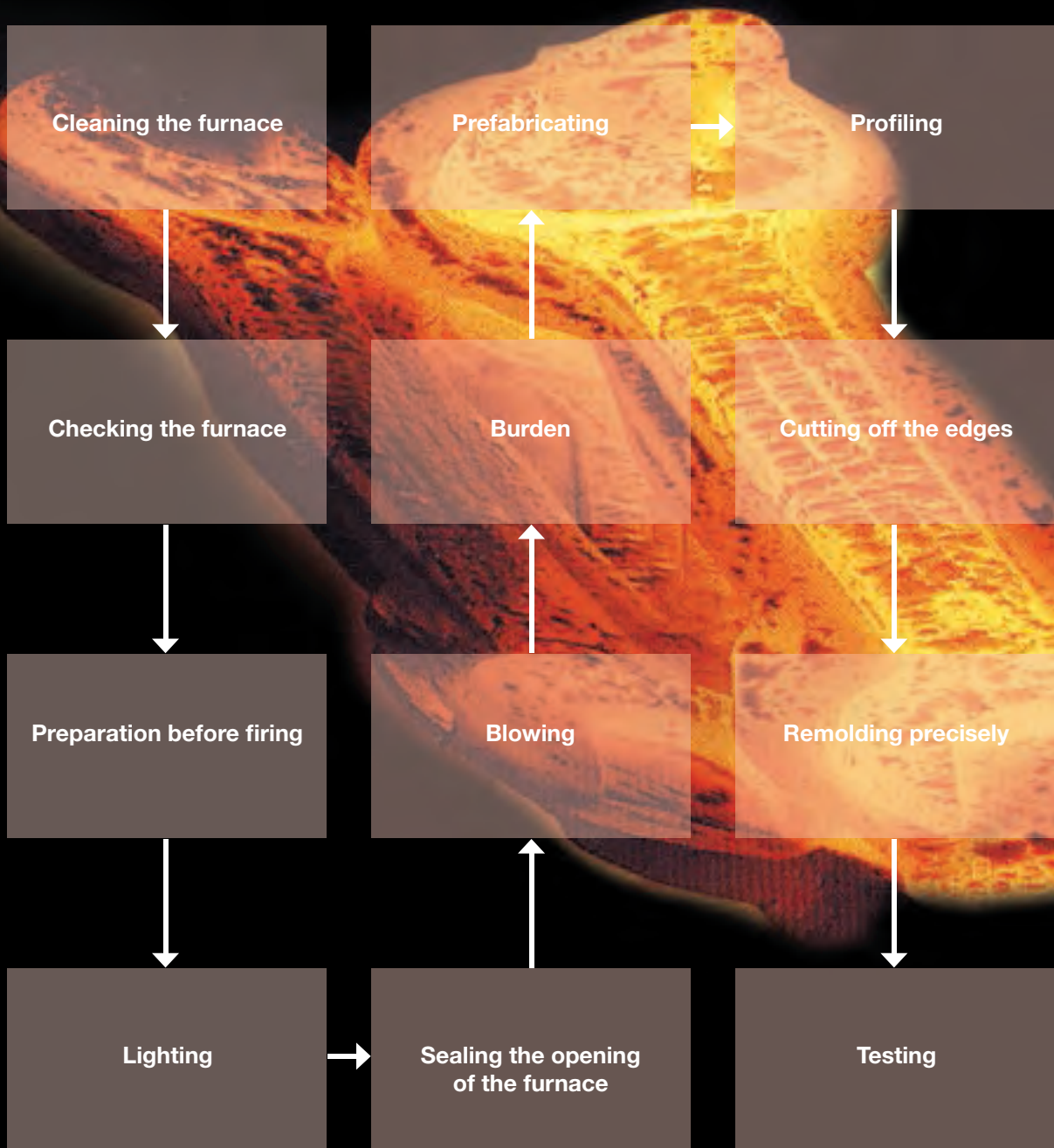


# UNITEC Safety Tools

Make your workplace safer...  
with the right tools

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

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



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

**ATEX Classified  
Air and Hydraulic Tools**



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

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

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

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



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

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

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

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



Air Operated



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

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

**Ex II 2 GcT6**  
(Model Nos. 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)

- Impact wrenches for removing and tightening bolts up to 2-1/8"
- 1/2", 3/4", 1" and 1-1/2" sq. drive
- Models for underwater use available



**Ex II 2 GcT6** (Model No. 5 6003 0010)  
**Ex IM 2 cT6** (Model No. 5 6003 0010)

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

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



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

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

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

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

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

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

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

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

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

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

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

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

84

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 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.	Description	ATEX Classification
2 2089 0010	Drill, MT3 Lever Throttle, Pneumatic, 1.7 HP	Ex II 2Gc T6
2 2085 0010	Drill, MT2 Lever Throttle, Pneumatic, 1.7 HP	Ex II 2Gc T6
2 2082 0010	Drill, MT3 Lever Throttle, Pneumatic, 1.7 HP, 20 RPM	Ex II 2Gc T6
2 2084 0010	Drill, MT2 Lever Throttle, Pneumatic, 1.7 HP, 200 RPM	Ex II 2Gc T6
2 1266 0010	Drill, Pneumatic, 1/2", Pistol Grip	Ex II 2Gc T6
2 1260 0010	Drill, Pneumatic, 3/8", Pistol Grip	Ex I M2c T6
2 1261 0010	Drill, Pneumatic, 1/2", Pistol Grip	Ex I M2c T6
2 1310 0010	Drill, Pneumatic, 1/2" Geared Chuck & Key, D-Handle	Ex I M2c T6
2 1310 0020	Drill, Pneumatic, 1/2", Quick Chuck, D-Handle	Ex I M2c T6
2 1311 0010	Drill, Pneumatic, MT1, D-Handle	Ex I M2c T6

**Nut Runners  
Pneumatic**



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



**Axial Fans  
Pneumatic**

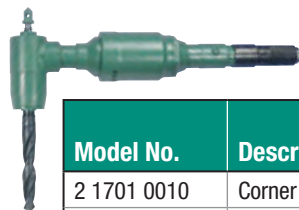
See pages 88-89 for more information on Axial Fans

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

**Rotary Hammer Drills  
Pneumatic**



Model No.	Description	ATEX Classification
2 2404 0010	Rotary Hammer Drill, Pneumatic, 1", SDS Plus	Ex II 2Gc T6
2 2408 0010	Rotary Hammer Drill, Pneumatic, 1", For Underground Mining	Ex I M2c T6



**Corner Drills  
Pneumatic**

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

**Core Drill, Vacuum  
Pneumatic**

Model No.	Description	ATEX Classification
2 1336 0010	Core Drill, Pneumatic, 3.75 HP	Ex I M2c T6
KAV30	Vacuum, Pneumatic	Ex II 2Gc T6



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

**Impact Wrenches  
Air & Hydraulic**



See page 87 for more information on Impact Wrenches

**Chain Saws  
Pneumatic**



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

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

**Saws Pneumatic & Hydraulic  
Hacksaws • Band Saws • Reciprocating Saws**



**Portable Magnetic Drills  
Pneumatic**

Model No.	Description	ATEX Classification
AB 4300-2	AIRBOR Mag Drill, Pneumatic (2 1330 0010)	Ex II 2Gc T6
AB 4300-2R	AIRBOR Mag Drill Extend Rack, Pneumatic (2 1330 0030)	Ex II 2Gc T6

Model No.	Description	ATEX Classification
5 6003 0010	AirBand Saw, Pneumatic,	Ex II 2Gc T6
5 6030 0010	AirBand Saw, Pneumatic, 4" x 4" Cutting, Stainless Steel Frame	Ex I M2c T6
5 6031 0010	AirBand Saw, Pneumatic, 7" x 7" Cutting, Stainless Steel Frame	Ex I M2c T6
5 6032 0010	AirBand Saw, Pneumatic, 4" x 7" Cutting, Stainless Steel Frame	Ex I M2c T6
5 1115 0020	Circular Saw, Pneumatic, 9" Dia.	Ex II 2Gc T5
5 1212 0010	Hacksaw, Pneumatic, Roll Throttle	Ex II 2Gc T5
5 1212 0050	Hacksaw, Pneumatic, Lever Throttle	Ex II 2Gc T5
5 1220 0010	Hacksaw, Hydraulic, Roll Throttle	Ex II 2Gc T5
5 1213 0010	Hacksaw, Pneumatic, Roll Throttle, ZAMAK	Ex I M2c T5
5 1213 9500	Magnetic Clamping Device for Hacksaw	Ex I M2c T5
5 1217 0020	Reciprocating Saw, Pneumatic, 1.3 HP	Ex II 2Gc T5
5 1219 0010	Reciprocating Saw, Hydraulic	Ex II 2Gc T5
PL905	Reciprocating Saw, Pneumatic, 1 HP	Ex II 2Gc T5
CL50	Reciprocating Saw, Pneumatic, 1 HP	Ex II 2Gc T5
CL75	Reciprocating Saw, Pneumatic, 1 HP	Ex II 2Gc T5
JP901	Reciprocating Saw, Pneumatic, 1 HP	Ex II 2Gc T5



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

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.

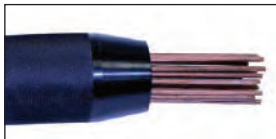
**ATEX Certified**  
For use in hazardous environments and ATEX and Ex Zones



Grip	Description	Model Number	Needle Quantity/ Diameter	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s <sup>2</sup>	
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	



## 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)



### Non-Sparking, Non-Magnetic Safety Hand Tools

CS Unitec offers a complete line of high-quality safety hand tools for use in Ex Zones, ATEX Zones and hazardous environments where hazardous, flammable or combustible vapors, liquids, dusts or residues may be present. **Contact us for more information!**



ATEX Models for use in Ex Zones and Hazardous Environments.

# IMPACT WRENCHES

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

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

- High torque
- Best power-to-weight ratio



## ATEX Classified

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

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



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



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

### Pneumatic Impact Wrenches

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

### Hydraulic Impact Wrenches

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



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

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



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

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

See page 83 for information on ATEX



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



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

# AXIAL FANS AND AIR MOVERS

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

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

**Explosion Proof**

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

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



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

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



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



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



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



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

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

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

**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

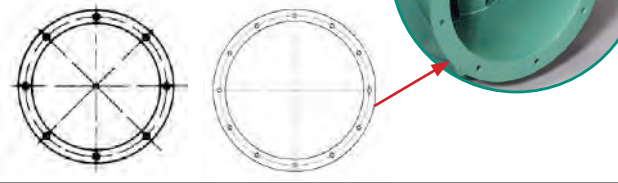
\* with switch and cable

**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 7010	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 0060	Steel Ducting, dia. 8", 15' long (dwg 5)
9 3709 0130	Plastic Hose, dia. 8", 15' long (dwg 5)
9 3702 0030	Suction Nozzle, 12"/8" (dwg 6)
9 3703 0020	Y-piece, 2x6", Antistatic (dwg 7)
9 3709 0040	Steel Ducting, NW 6", 15' long (dwg 8)
9 3709 0110	Plastic Hose, NW 6", 15' long (dwg 8)
9 3702 0020	Suction Nozzle, 6"/9" (dwg 9)

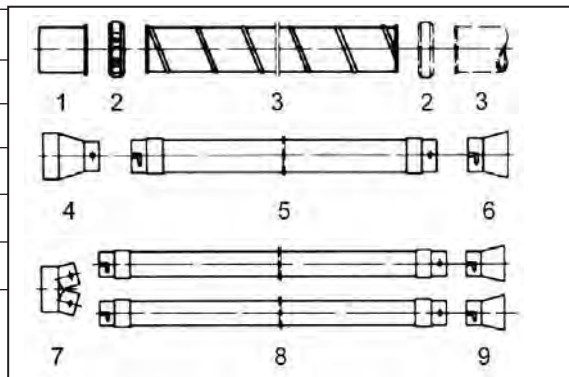
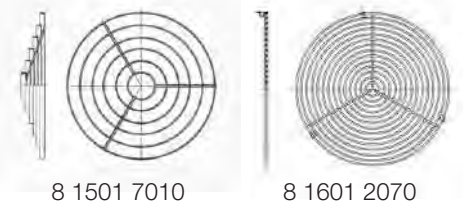
**Mounting Flanges**

For fitting fans to flanged pipes for suction or discharge



**Protective Grilles**

For use on non-ducted fans.



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

# REDUCED SPARKING GRINDING AND CUTTING DISCS

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

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

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

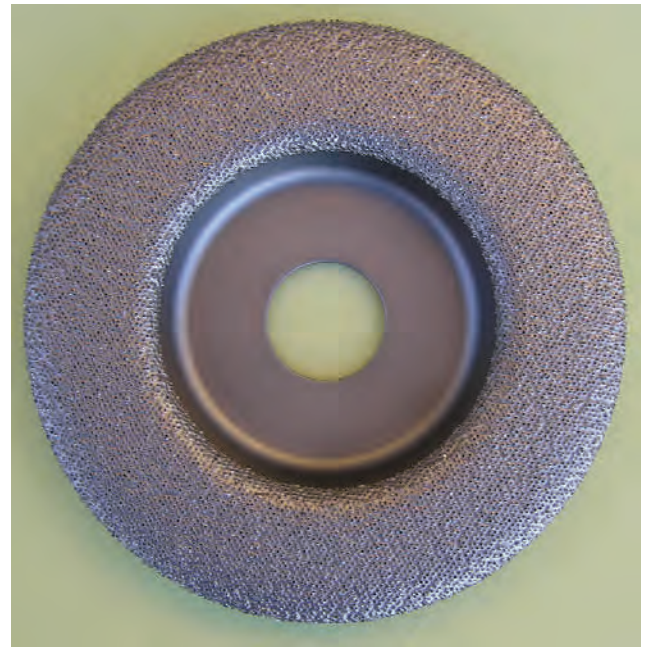
### EB DIAMOND DISC Specifications

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

### EB DIAMOND DISC Ordering Information

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

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



### Benefits of fewer sparks and long life:

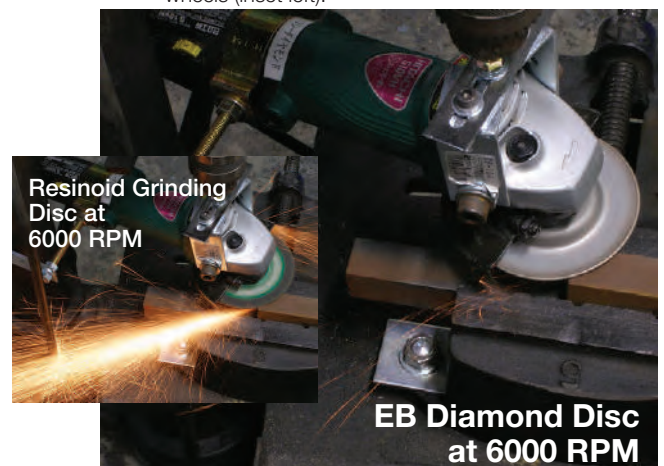
- Workpiece visibility is improved
- Reduced fire hazard from sparks
- Less material waste



Resinoid Grinding Disc at 10,000 RPM

EB Diamond Disc at 10,000 RPM

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



Resinoid Grinding Disc at 6000 RPM

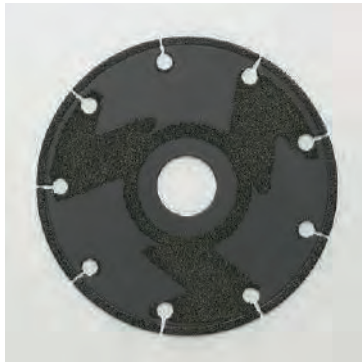
EB Diamond Disc at 6000 RPM

# REDUCED SPARKING DIAMOND GRINDING AND CUTTING DISCS

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

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

*Follow all appropriate safety regulations (ATEX, OSHA, ANSI, etc.) for all grinding applications, including those for working in hazardous environments. Follow all appropriate OSHA and international safety regulations for grinding metal, fiberglass, hard plastics and more.*



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

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

Order No.	Size (dia. x arbor)	Grit	Max. Speed	Quantity
EBC4007850C	4" x 7/8"	50	13,000 RPM	1 disc
EBC4507830C	4-1/2" x 7/8"	30	13,000 RPM	1 disc
EBC4507850C	4-1/2" x 7/8"	50	13,000 RPM	1 disc
EBC5007850C	5" x 7/8"	50	13,000 RPM	1 disc
EBC6007830C	6" x 7/8"	30	8500 RPM	1 disc
EBC6007850C	6" x 7/8"	50	8500 RPM	1 disc
EBC7007850C	7" x 7/8"	50	8500 RPM	1 disc
EBC9007850C	9" x 7/8"	50	8500 RPM	1 disc



## EB Combination (Grinding – Cutter) Wheels

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

Order No.	Size (dia. x arbor)	Grit	Max. Speed	Quantity
EB4007835CM	4" x 7/8"	35	13,000 RPM	1 disc
EB4007850CM	4" x 7/8"	50	13,000 RPM	1 disc
EB4507835CM	4-1/2" x 7/8"	35	13,000 RPM	1 disc
EB4507850CM	4-1/2" x 7/8"	50	13,000 RPM	1 disc
EB5007835CM	5" x 7/8"	35	13,000 RPM	1 disc
EB5007850CM	5" x 7/8"	50	13,000 RPM	1 disc
EB7007835CM	7" x 7/8"	35	8500 RPM	1 disc
EB7007850CM	7" x 7/8"	50	8500 RPM	1 disc



## EB Cluster (Cleaning – Grinding) Wheels

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

Order No.	Size (dia. x arbor)	Grit	Max. Speed	Quantity
EB4007880CLSF	4" x 7/8"	80	13,000 RPM	1 disc
EB4507880CLSF	4-1/2" x 7/8"	80	13,000 RPM	1 disc
EB5007880CLSF	5" x 7/8"	80	13,000 RPM	1 disc
EB6007880CLSF	6" x 7/8"	80	8500 RPM	1 disc
EB7007880CLSF	7" x 7/8"	80	8500 RPM	1 disc

# SPECIAL TOOLS FOR UNDERWATER USE

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

## Chain Saws – Pneumatic

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

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

## Hacksaws – Hydraulic

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

## Reciprocating Saws - Hydraulic and Pneumatic

**5 1219 0010 Underwater Hydraulic Reciprocating Saw**, 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.

## 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.*

