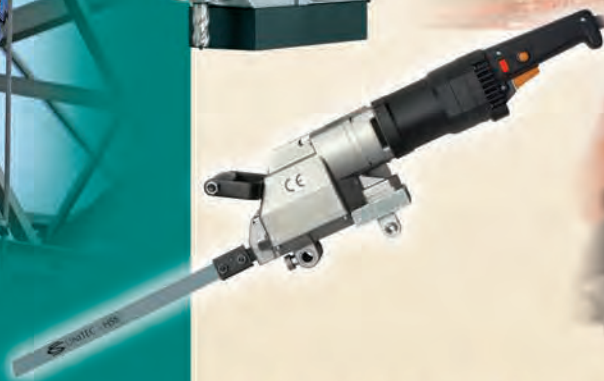
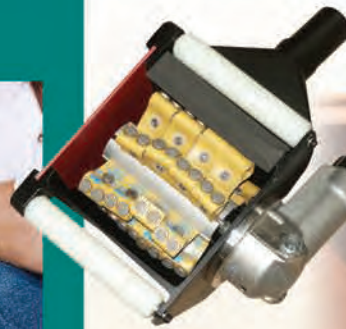


## Metalworking Tools



**Surface Preparation Tools**  
**Dust Collection Systems**  
**Drills and Cutters**  
**Portable Saws**  
**Surface Finishing Tools**



# Metalworking Tools

## Surface Preparation Tools & Dust Collection Vacuums

CS Unitec's Trelawny™ line of surface preparation tools features many Vibro-Lo™ models. These models include integrated vibration reduction technology to operate with 7x less vibration than standard models. Vibration damping components offset the hammer vibration when the tool impacts the workpiece, reducing the risk of vibration-related injury.



### Hand-Held Scarifiers – Rotopeen™ (Pneumatic • Electric) p. 4

- Ideal alternative to small-area shot blasting
- Available with 3M's Rotopeen™ 'C' flaps, star cutters and beam cutters

### Hand-Held Scaling Hammers (Pneumatic • Electric) p. 5

- Single-Head and Triple-Head
- Remove thick scale, heavy corrosion, hard coatings and more



### Needle and Chisel Scalers (Pneumatic • Electric) p. 6-12

- Remove coatings, corrosion and other accumulated materials
- ATEX-Certified needle scalers for use in ex Zones and hazardous environments

### Floor Scarifiers (Electric • Pneumatic • Gas) p. 14-15

- Available with 8" and 10" cutting widths
- Ideal for the most demanding surface prep & material removal applications

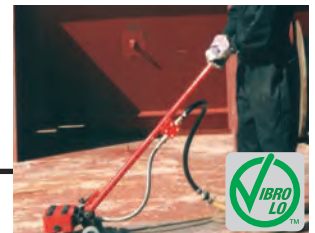


### Long-Reach Chisels / Scrapers / Scalers (Pneumatic) p. 16

- Available lengths ranging from 2' to 6'; chip, scrape and descale with one tool

### Low-Vibration Steel Deck Hammer (Pneumatic) p. 17

- Fracture and reduce scale, corrosion and thick coatings in minutes, reducing blast media costs



### Trident Neptune Flexible Shaft Deck Descalers (Air • Electric) p. 18

- Rapidly remove scale, rust, paint and other unwanted deposits on ship decks and other metal surfaces

### Hydrflex hold Cleaning Gun Kit (Pneumatic) p. 18

- Reach up to 100 ft. away with high-pressure water jet
- Clean hold areas on bulk carriers and cargo vessels of all sizes



### Dust Collection Vacuums (Electric • Pneumatic) p. 19

- Electric-powered wet/dry models with HEPA filtration
- Air-powered models are ATEX classified to collect dust/debris and non-flammable liquids. Optional HEPA filtration available.

## Surface Preparation Tools & Dust Collection Vacuums

Hand-Held Scarifiers	p. 4	Floor Scarifiers	p. 14-15
Hand-Held Scaling Hammers	p. 5	Long-Reach Chisels / Scrapers / Scalers	p. 16
Needle/Chisel Scalers		Low-Vibration Steel Deck Hammer	p. 17
Heavy Duty Needle/Chisel Scalers	p. 6-7	Trident Neptune Flexible Shaft Deck Descalers	p. 18
Low-Vibration Pneumatic Needle Scalers	p. 8-9	Hydrflex Hold Cleaning Gun Kit	p. 18
Low-Vibration Pneumatic Chisel Scalers	p. 8,10	Dust Collection Vacuums	p. 19
ATEX Needle Scaler Kits	p. 11		
Electric Needle Scalers	p. 12		
Needles	p. 13		

# Metalworking Tools

## Drilling, Reaming, Driving, Sawing, Finishing & More



### Portable Magnetic Drills (Electric • Air • Hydraulic) *p. 20-23*

- Cut holes up to 5-1/8" dia.
- Tap, twist drill, ream and countersink



### Reamers, Drills & Drive Units *p. 26*

- Bridge reaming and heavy-duty drilling
- Tube rolling & expanding, valve turning and more

### Annular Cutters *p. 24-25*

- Achieve burr-free finished holes
- HSS, TCT Carbide and more



### Portable Beveling Machines *p. 27*

- Bevel, deburr and chamfer
- 15°-60° or 2.5mm radius



### Dry Cutting Circular Saws (Electric • Air) *p. 28-31*

- Burr-free cutting of metal plates, pipe and more
- Models up to 14"

### Reciprocating Saws (Air • Hydraulic) *p. 32-33*

- Hand-held or clamp-on cutting
- Cut pipe, steel, bolts, nails and more



### Portable Band Saws *p. 34*

- Air, electric and hydraulic models
- Cold-cutting of pipe up to 8-1/2" dia.



### Portable Hacksaws *p. 35*

- Air, electric and hydraulic models
- Cold-cutting of large pipe to 30" dia.



### Pipe Cutting Machine *p. 36*

- Cut pipe up to 63" dia.
- Hydraulic and pneumatic models



### Chain Saws *p. 37*

- Cut wood, plastic and more
- Bar lengths of 10" to 25"



### Underwater / Subsea Tools *p. 38*

- Hydraulic and pneumatic
- Impact wrenches, hammer drills and more

### Axial Fans & Air Movers *p. 39*

- Air, electric, explosion-proof
- Ventilate, exhaust and cool



### Linear & Angle Grinders *p. 40*

- Finishes from shadow-free matte to mirror polish
- Remove welds, deep scratches, rust and more



### Pipe Sanders (Electric • Air) *p. 41*

- Sand and polish pipe to 14" dia.
- Open and closed pipe constructions

### Portable Deburring Machines *p. 42-43*

- Deburr metal sheets, frame constructions and more
- Bevel angles between 30° and 60°



## Drilling, Reaming, Driving, Sawing, Finishing Tools and More

Portable Magnetic Drills

p. 20-23

Annular Cutters

p. 24-25

Reamers, Drills & Drive Units

p. 26

Portable Beveling Machines

p. 27

Dry Cutting Circular Saws

p. 28-31

Portable Reciprocating Saws

p. 32-33

AirPac Dryer / Cleaner

p. 33

Hydraulic Power Unit

p. 33

Portable Band Saws

p. 34

Portable Power Hacksaws

p. 35

Pipe Cutting Machine

p. 36

Chain Saws

p. 37

Underwater / Subsea Tools

p. 38

Axial Fans and Air Movers

p. 39

Linear and Angle Grinders

p. 40

Pipe Sanders

p. 41

Metal Deburring Machines

p. 42-43

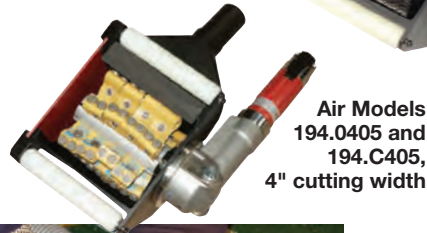


# Hand-Held Scarifiers - Rotopeen™ Air • Electric

## Peening Preparation Tool (PPT) – ideal alternative to small-area shot blasting

CS Unitec's Trelawny™ Rotopeen™ hand-held scarifiers are the ideal alternative to small-area shot blasting for cleaning and preparing steel and concrete surfaces. They utilize 3M's brand of Rotopeen™ 'C' flaps to offer a captive shot method of surface preparation.

- Pneumatic and electric models
- Integrated dust shroud for dust and debris collection, as well as cleaner, safer removal of lead-based paints and contaminated particles



Air Models  
194.0405 and  
194.C405,  
4" cutting width



Above: Ergonomic rubber hand grip standard on all new 2" and 4" models. Provides grip for easier pushing along material.

### Applications include:

- Aggressive removal of alkyls, adhesives, lead-based paints, mastics, coatings corrosion & more
- Cleaning & preparing steel and concrete surfaces



See page 19 for dust extraction systems.



### Optional Accessory

Left: Optional top handle attachment kit to replace rubber grip on 2" and 4" models. (P/N 312.Q450)

### Hand-Held Scarifier Accessories

**Star Cutter**  
P/N 312.S200  
Aggressive removal of thick coatings

**Beam Cutter**  
P/N 312.R200  
Removal of hard coatings, less aggressive than star cutter

**3M™ Rotopeen™ 'C' Flap**  
P/N 312.MRPC  
Removal of paint and rust to bare metal finish

#### HEAVY SCALING

#### SURFACE PROFILING

Nuclear	—	—	Radioactive waste removal/capture
Ships decks	Non-slip coatings	—	General paint removal
Construction	Plaster removal	Ceiling / wall paint removal	Ceiling / wall paint removal
Factory Floors	—	Floor marking removal	Floor marking removal
Swimming Pools	Adhesive removal	Adhesive removal	—
Bridge Maintenance	Sealant removal	—	Paint / sealant removal
Pipeline Maintenance	—	—	Protective coating removal



**Star Cutter**  
Cutting Width Quantity Required  
2" 80  
4" 160



**Beam Cutter**  
Cutting Width Quantity Required  
2" 56  
4" 112



**Rotopeen™ 'C' Flap**  
Cutting Width Quantity Required  
2" 6  
4" 12

## Pneumatic Hand-Held Scarifiers

Model Number	CFM @ 90 PSI	Speed (RPM)	Cutting Width	Cutting Media	Weight (lbs.)	Vibration Levels m/s <sup>2</sup>
194.0205	30	2700	2"	'C' Flaps	7.5	3.5
194.C205	30	2700	2"	Star Cutters	11.5	6.0
194.0405	30	2700	4"	'C' Flaps	9	3.1
194.C405	30	2700	4"	Star Cutters	13.25	4.6

These models are compatible with Star Cutters, Beam Cutters and Rotopeen™ 'C' Flaps

## Electric Hand-Held Scarifiers

Model Number	Motor Power	Speed (RPM)	Cutting Width	Cutting Media	Weight (lbs.)	Vibration Levels m/s <sup>2</sup>
195.1217	110V	2000	2"	'C' Flaps	11	3.6
195.1220	220V	2000	2"	'C' Flaps	11	3.6
195.1417	110V	2000	4"	'C' Flaps	12	5.2



Electric Model 195.1220 2" cutting width with Rotopeen™ 'C' flaps. 4" width also available.





# Pneumatic Hand-Held Scaling Hammers



## Remove thick scale, heavy corrosion and hard coatings

CS Unitec's Trelawny™ line of pneumatic hand-held scaling hammers are ideal tools for the removal of thick scale, heavy corrosion and hard coatings. Areas of application include pipes, ship decks, oil platforms, storage tanks and bridge structures.

- Single-head scaling hammer includes Vibro-Lo™ vibration reduction technology
- Optional spark-resistant copper beryllium replacement heads reduce risk of explosion in potentially hazardous areas
- Detachable taper fit cutter head reduces cost of replacement and extends piston life



Pneumatic




### Applications Include:

- Pipes • Ship Decks • Oil Platforms
- Storage Tanks • Bridge Structures
- Gas / Utility Contractors



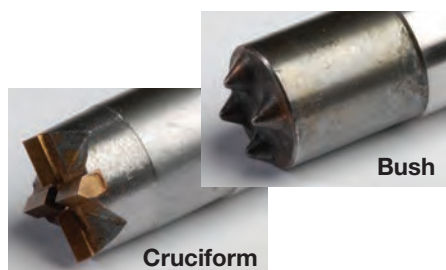
## Pneumatic Hand-Held Scaling Hammers

- Air consumption – 7 CFM @ 90 PSI
- Noise level – 88.1 db(A)

Description	Model Number	Handle Type	Dimensions (LxH)	Vibration Levels (m/s <sup>2</sup> )	Weight (lbs.)
<b>SF1 Single Head – 3000 Blows per minute</b>					
TCT Cruciform Piston	151.5100	Long	19" x 6"	6.8	5
TCT Bush Hammer Piston	151.5105	Long	19" x 6"	6.8	5
TCT Cruciform Piston	199.5150	Short	9.25 x 6"	6.8	4.5
CuBe Cruciform Piston 	151.5110	Long	19" x 6"	6.8	5
<b>VLSF1 Low-Vibration Single Head – 3000 Blows per minute </b>					
TCT Cruciform Piston	196.5095	Long	19" x 5.5"	3.7	5
CuBe Cruciform Piston	196.5110	Long	19" x 5.5"	3.7	5
<b>SF3 Triple Head – 9000 Blows per minute</b>					
TCT Cruciform Piston	153.5300	Long	19" x 6"	13.4	8
TCT Bush Hammer Piston	153.5305	Long	19" x 6"	13.4	8
TCT Cruciform Piston	199.5350	Short	9.25 x 6"	13.4	7
CuBe Cruciform Piston 	153.5310	Long	19" x 6"	13.4	8




CS Unitec's Trelawny™ Single-Head Hand-Held scaler operates with 7x less vibration than standard models. This tool utilizes vibration damping components to offset the hammer vibration created when the head impacts the workpiece.



Cruciform

Bush

## Hand-Held Scaling Hammer Accessories

	Part No.	For Model Numbers
TCT Cruciform Cutter Head	426.5351	151.5100, 196.5095 and 153.5300
Copper Beryllium (CuBe) Cruciform Cutter Head 	606.5303	151.5110 and 153.531
TCT Bush Cutter Head	426.5352	151.5105 and 153.5305
Common Tapered Piston	612.5301	All models shown above

# Heavy-Duty Needle Scalers

## Heavy-Duty Needle Scalers

Ideal for cleaning and stress-relieving weld seams and joints; texturing concrete; removing coatings, corrosion and other accumulated materials.

### Power & Productivity

- Oversized piston with longer stroke
- Heavy-duty hardened anvil
- Chisel-tipped needles

### Low Maintenance & Less Downtime

- Air-powered – fewer moving parts
- Converts to chisel scaler in seconds
- Piston valve

### Versatile

- One tool for different applications
- Lightweight – easy to handle

### Inline Grip



1B



2B

### Semi Pistol Grip



3B



4B



2BPG



3BPG

### Pistol Grip




**2B Combination Kit**  
See next page for more information.



Grip	Description	Model Number	Needle Qty./Dia.	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s <sup>2</sup>
Inline	1B Needle Scaler	111.1099	12 / 3mm	3.5	3800	3.0	110.4	8.5
	2B Needle Scaler	121.2099	19 / 3mm	5.75	3000	5.5	113.3	9.3
Pistol	2BPG Needle Scaler	123.2199	19 / 3mm	5.75	3000	5.5	113.3	12.6
	3BPG Needle Scaler	133.3199	28 / 3mm	8.25	2200	8.0	114.5	18.9
Semi Pistol	3B Needle Scaler	131.3099	28 / 3mm	10	2200	8.0	114.5	12.2
	4B Needle Scaler	141.4099	35 / 4mm	12.5	1800	8.5	117.4	23.5

See page 13 for needles:

**Chisel** for light surface marking  
**Flat** for light treatment and polishing effect  
**Pointed** for very hard scale

**Copper Beryllium**  for use in potentially explosive areas

**Stainless Steel** for use in applications where corrosion or humidity is a problem, such as the food processing industry



### Dust Collection Shroud for Standard Needle Scalers

Optional Dust Shroud for Needle Scalers – for use with dust extraction vacuums.

Model 2B and 2BPG Needle Scalers – Order Dust Shroud P/N 418.2199

Model 3BPG Needle Scaler – Order Dust Shroud P/N 418.3039

## TVS™ Needle Scalers with Integrated Vacuum Shroud



CS Unitec's Trelawny™ TVS™ Needle Scalers with Integrated Vacuum Shroud enable dust-free working in hazardous applications when used with a dust extraction vacuum (see page 19 for dust collection systems).



Grip	Description	Model Number	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s <sup>2</sup>
Inline	2B Needle Scaler	139.2007	6.4	3000	5.5	98.6	17.4
Pistol	2BPG Needle Scaler	139.2107	6.6	3000	5.5	98.6	22.4
	3BPG Needle Scaler	139.3107	9.9	2200	8.0	105.1	19.9



# Heavy-Duty Chisel Scalars

## Heavy-Duty Chisel Scalars

Ideal for splitting, chipping, pointing, brick raking and removing accumulated materials and corrosion.

- Inline, pistol and semi-pistol grip
- Ball bearing chisel retainer

Grip	Description	Model Number	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s <sup>2</sup>
Inline	1B Chisel Scaler	114.1200	3.3	3800	3.0	98.9	8.2
	2B Chisel Scaler	124.2200	4.4	3000	5.5	98.6	17.4
Pistol	2BPG Chisel Scaler	125.2300	4.5	3000	5.5	98.6	22.4
	3BPG Chisel Scaler	135.3300	6.2	2200	8.0	105.1	25.6
	3BPG Chisel Scaler*	135.3395	6.2	2200	8.0	105.1	25.6
Semi Pistol	3B Chisel Scaler	134.3200	7.5	2200	8.0	105.1	19.9
	4B Chisel Scaler	144.4200	8.2	1800	8.5	105.1	45.2

\* 3BPG Chisel Scaler 135.3395 has 5/8" hexagonal chisel holder and is compatible with chisels shown on page 16. All others Chisel Scalars shown above have 1/2" square connection.



### Inline Grip



### 2B Combination Kit



Kit includes 2B Needle Scaler, 19 (3mm) needles, 3/4" width chisel and allen wrench. P/N 199.3120



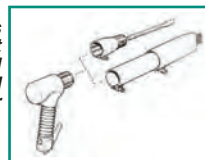
## Chisels for Standard Chisel Scalars

### 1/2" Square Connection

Chisel Part No.	Shank	Length	Width	Application
704.1110	Square	7"	2"	Spark-resistant Aluminum Bronze for use in hazardous areas
704.2105	Square Cranked End	7"	3/8"	Weld flux and thick coating removal
704.1101	Square	7"	3/4"	Weld splatter removal
704.1103	Square	7"	2-1/2"	Wide flat chisel for the removal of rust or peeling paint
704.1107	Square	10"	3/4"	Flat chisel for weld splatter and sand cast cleaning
704.1106	Square	8"	1/4"	Mortar removal for repointing brick work
704.1112	Square	7"	Moil Point	Concrete chipping

CS Unitec offers a full line of non-sparking, non-magnetic chisels and safety hand tools for hazardous areas and Ex zones. Contact us for details.

Standard Needle Scalars and Chisel Scalars convert in seconds with optional head or when purchased as a Kit. Contact us for more information.



# Low-Vibration Needle/Chisel Scalars



## High power with low vibration – equipped with Vibro-Lo™

CS Unitec's Trelawny™ line of Low-Vibration needle/chisel scalars offer high performance and low vibration for greater productivity and improved operator comfort. Ergonomically designed with low maintenance and quick change tooling option.

- Integrated Vibro-Lo™ vibration reduction technology
- Lightweight, easy to handle
- Optional dust shroud for dust and debris collection
- Tool-free needle changeover
- Converts to chisel scaler in seconds



CS Unitec's Trelawny™ Vibro-Lo™ line of Needle/Chisel Scalars operate with 7x less vibration than standard models. These tools utilize vibration damping components to offset the hammer vibration created when the needles/chisels impact the workpiece.



Dust Collection Shroud



VL223



VL203



VL303



**ATEX-Certified Needle Scalars available for hazardous environments and Ex Zones. See page 11 for details.**



Needle Scalars and Chisel Scalars convert in seconds with optional head or when purchased as a Kit. See page 10 for Kit information.



### Applications include:

- Cleaning and stress-relieving weld seams and joints
- Removing coatings, corrosion and other accumulated materials
- Texturing concrete
- Splitting, chipping, pointing and brick raking





# Heavy-Duty Low-Vibration Needle Scalers



## Heavy-Duty Vibro-Lo™ Needle Scalers

- Inline or pistol grip
- Remove coatings, corrosion and other accumulated materials
- Ideal for stress-relieving weld seams and joints



VL223



VL203



VL303

*Needle Scalers and Chisel Scalers convert in seconds with optional head or when purchased as a Kit. See page 10 for Kit information.*




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	VL223 Needle Scaler	199.2103	19 / 3mm	5.25	2400	4	90.7	2.56
	VL223 Needle Scaler with dust shroud	139.2103	19 / 3mm	5.25	2400	4	90.7	2.56
Pistol	VL203 Needle Scaler	199.2003	19 / 3mm	6	2400	4	90.7	2.75
	VL203 Needle Scaler with dust shroud	199.2303	19 / 3mm	6	2400	4	90.7	2.75
	VL303 Needle Scaler	199.3003	28 / 3mm	7.75	3000	5.5	109.5	2.3
	VL303 Needle Scaler with dust shroud	199.3005	28 / 3mm	7.75	3000	5.5	109.5	2.3

*See page 13 for the following types of needles:*

**Chisel** for light surface marking

**Flat** for light treatment and polishing effect

**Pointed** for very hard scale

**Copper Beryllium**  for use in potentially explosive areas

**Stainless Steel** for use in applications where corrosion or humidity is a problem, such as the food processing industry

## Dust Collection Shroud for Vibro-Lo™ Needle Scalers



Optional Dust Shroud for Needle Scalers – for use with dust extraction vacuums.

Model VL223 Needle Scaler – Order Dust Shroud P/N 418.2003

Model VL203 Needle Scaler – Order Dust Shroud P/N 418.2003

Model VL303 Needle Scaler – Order Dust Shroud P/N 418.3003

**See page 19 for dust extraction systems.**

## Drop Protection Kit

CS Unitec offers a drop protection kit for our Vibro-Lo™ Needle/Chisel Scalers. Protect your investment when working at heights or in applications where dropping/losing the tool is likely, including: offshore platforms and rigs, bridges/scaffolding, vessels and ships.

**For VL223 and VL203**  
Order P/N 720.2003\*

**For VL303**  
Order P/N 720.3003\*

\* Safety clip and line not supplied



## Heavy-Duty Vibro-Lo™ Chisel Scalers

Grip	Description	Model Number	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s <sup>2</sup>
Inline	VL223 Chisel Scaler	199.2213	6.5	2400	4	76.3	3.69
Pistol	VL203 Chisel Scaler	199.2203	7	2400	4	76.3	3.33
	VL303 Chisel Scaler	199.3203	9.5	3000	5.5	78.2	3.7



## Chisels for Vibro-Lo™ Chisel Scalers

Chisel Part Number	Shank	Length	Width	Application
704.3110	Square	7"	2"	Spark resistant Aluminum Bronze for use in hazardous areas
704.3205	Square Cranked End	7"	3/8"	Weld flux and thick coating removal
704.3101	Square	7"	3/4"	Weld splatter removal
704.3103	Square	7"	2-1/2"	Wide flat chisel for the removal of rust or peeling paint
704.3107	Square	10"	3/4"	Flat chisel for weld splatter and sand cast cleaning



*CS Unitec offers a full line of non-sparking, non-magnetic chisels and safety hand tools for hazardous areas and Ex zones. Contact us for details.*



## Vibro-Lo™ Needle/ Chisel Scaler Kits

CS Unitec offers Vibro-Lo™ Needle/Chisel Scaler Kits, each supplied with the Needle Scaler, 3mm needles, a chisel holder, anvil and a 3/4" blade chisel.

**VL223 Kit** – Order P/N 199.2113

**VL203 Kit** – Order P/N 199.2105

**VL303 Kit** – Order P/N 199.3103

*VL223 Kit and VL303 Kit do not include a plastic carrying case.*



**VL203 Kit – Plastic carrying case included.**



## 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	139.2423	19 / 3mm	5.25	2400	4	90.7	2.56	
Pistol	VL203Ex Needle Scaler with dust shroud	139.2403	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	



VL223Ex

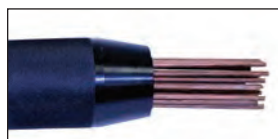


VL203Ex



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



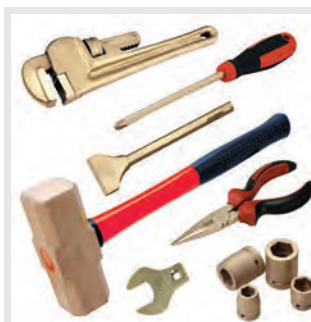
Vibro-Lo™ technology operates with 7x less vibration than standard models.



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)



### 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!**

## Lightweight and slim design for tight areas – equipped with Vibro-Lo™

CS Unitec's Electric Low-Vibration needle scaler offers a powerful motor and low vibration for greater productivity and operator comfort. Optional accessories convert needle scaler to chisel scaler or bush hammering tool.

- Integrated Vibro-Lo™ vibration reduction technology
- Lightweight, easy to handle
- Optional dust shroud for dust collection vacuum
- Converts to chisel scaler in seconds
- Optional Bush Hammer Head converts needle scaler to hammering tool



CS Unitec's Electric Needle and Chisel Scalers operate with 7x less vibration than standard models. These tools utilize vibration damping components to offset the hammer vibration created when the needles/chisels impact the workpiece.

## Electric Vibro-Lo™ Needle Scaler

Model Number	Needle Quantity/ Diameter	Weight (lbs.)	Blows per minute	Power
<b>VL219E Needle Scaler</b>				
196.6002	19 / 3mm	8.15	3000	110 V, 650 Watts, 60Hz
196.6004	19 / 3mm	8.15	3000	230 V, 650 Watts, 50Hz



## Optional Accessories



**Chisel Kit – P/N 419.6610**  
Converts VL219E into a chisel scaler



**Bush Hammer Head Kit – P/N 415.6610**  
Converts VL219E into a Bush Hammer tool



**Bush Hammer Head – P/N 612.6600**



**Dust Shroud – P/N 418.6100**  
For use with dust extraction vacuums  
**See page 19 for dust extraction systems.**



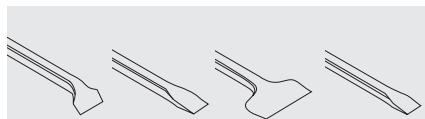
### Needles



### Flat

19 needles (5" long x 3mm dia.) – P/N 443.1115  
Box of 1000 needles (5" long x 3mm dia.) – P/N 443.1105

### Chisels



**See page 10 for the following types of chisels:**

**Square Cranked End** for weld flux and thick coating removal  
**Square (3/4" wide)** for weld splatter removal  
**Square (2-1/2" wide)** for removal of rust or peeling paint  
**Square (3/4" wide)** for weld splatter and sand cast cleaning



# Needles

CS Unitec's Trelawny™ needles last 10x longer than standard needles. Save time and money with fewer needle changes and less downtime.

All of CS Unitec's Needle Scalers are delivered from stock complete with 180mm long x 3mm diameter chisel tipped high performance needles. Other needle holders are available as accessories for use with 2mm and 4mm diameter needles. We also offer spark resistant needles for use in potentially hazardous areas and Ex zones, as well as stainless steel needles for use in humid areas - such as applications in the food processing industry - where corrosion is a concern.

Standard pack set is one carton of 6 sets. Some models are packed as an individual set in a box. Boxes of 100 qty. needles in a durable, reusable plastic container are available, as well as larger quantities.



## Chisel Tip

*These needles will clean the same materials as a pointed tip, but will leave light surface marking*



Size	Description	Part #
3mm	6 x sets of 12 needles	413.2112
3mm	6 x sets of 19 needles	413.2119
3mm	6 x sets of 28 needles	413.2128
3mm	Box of 100 needles	453.2110
3mm	Box of 1000 needles	443.2107

## Flat Tip

*Flat-tipped needles will reduce marking on metal surfaces and can give a polishing effect. For use on thin gauge metals and any surface where a light treatment is required.*



*2mm needles used on a welded joint produce a similar effect to shot peening, reducing stress in the weld.*

Size	Description	Part #
2mm	6 x sets of 29 needles	412.1129
2mm	6 x sets of 51 needles	412.1151
2mm	6 x sets of 65 needles	412.1165
2mm	Box of 100 needles	452.1110
2mm	Box of 2000 needles	442.1107
3mm	6 x sets of 19 needles	413.1119
3mm	6 x sets of 28 needles	413.1128
3mm	Box of 100 needles	453.1110
3mm	Box of 1000 needles (180mm long)	443.1107
4mm	6 x sets of 19 needles	414.1119
4mm	6 x sets of 35 needles	414.1135
4mm	Box of 50 needles	454.1105
4mm	Box of 500 needles	444.1107
3mm	Box of 1000 needles 5" long (127mm)	443.1105
3mm	19 x needles 5" long (127mm)	443.1115

## Pointed Tip

*Sharpened to a conical point, these are the most effective in breaking through very hard scale on materials where some surface indentation is permissible - or where a roughening or keying of the surface is actually desirable.*



Size	Description	Part #
3mm	6 x sets of 19 needles	413.3119
3mm	6 x sets of 28 needles	413.3128
3mm	6 x sets of 49 needles	413.3149
3mm	Box of 100 needles	453.3110
3mm	Box of 1000 needles	443.3107
4mm	6 x sets of 19 needles	414.3119
4mm	6 x sets of 35 needles	414.3135
4mm	Box of 50 needles	454.3105
4mm	Box of 500 needles	444.3107

**See page 19 for dust extraction systems.**

### Conversions:

2mm = 0.08"  
3mm = 0.12"  
4mm = 0.16"  
180mm = 7"

## Spark-Resistant Copper Beryllium

*Available in 3mm flat tip only; for use in potentially hazardous areas.*



Size	Description	Part #
3mm	Box of 12 needles	403.1312
3mm	Box of 19 needles	403.1319
3mm	Box of 28 needles	403.1328
3mm	Box of 49 needles	403.1349
3mm	Box of 100 needles	453.1310
3mm	Box of 500 needles	443.1307

## Stainless Steel

*Available in 3mm flat tip form only, to be used in applications such as refurbishment of food processing machinery or areas of high humidity where the corrosive effect on needles would be prohibitive. Used on decorative concrete surfaces where contamination of the surface from carbon steel needle is undesirable.*



Size	Description	Part #
3mm	Box of 100 needles	453.1207
3mm	Box of 500 needles	443.1207

## Remove rust, scale, paint, adhesives and more from steel and concrete

CS Unitec's Trelawny™ Floor Scarifiers tackle the most demanding surface preparation and material removal applications. Ideal for the removal of coatings and corrosion from steel and concrete surfaces to prepare for re-coating. Produce an ideal keyed or grooved profile on concrete for waterproofing and non-slip surface applications.

- Depth control maximizes performance and extends cutter life
- Integrated vacuum connection and hold-to-run handle
- Fully adjustable handlebar for operator comfort
- Electric, pneumatic or gas power



### Applications include:

- Removal of rust, scale, paint, adhesives and more
- Keyed or grooved profiles
- Roughing concrete



TFP 200 Electric



TFP 200 Pneumatic



TFP 200 Gas



### TFP 200 Cutters

	Individual Cutter	Cutters/Spacers Required Per Drum	Drum Assembly
Wire Brushes	N/A	N/A	320.9620
Beam Cutters	320.5120	226 Pieces	320.1020SB
Star Cutters	320.3658	208 Pieces	320.1020SS
TCT Cutters and Spacers	320.5500 320.4140	80 Pieces 88 Pieces	320.1020ST
Milling Cutters (22mm)	320.5600	24 Pieces	320.1020SM
TCT Cutters (for grooving) and Spacers	320.5500 320.4140	24 Pieces 232 Pieces	320.002G

### Cutter Applications:

**Wire Brushes** are ideal for finish cleaning and polishing on steel; can be used for light concrete deposit.

**Beam Cutters** are ideal for light paint/corrosion removal, with minimal damage to substrate.

**Star Cutters** are ideal for the removal of mastics and rubberized coatings.

**Tungsten Carbide Tipped (TCT) Cutters** are ideal for aggressive applications such as roughing concrete and heavy corrosion removal, as well as grooving roadways for non-slip surface.

**Milling Cutters** are ideal for the removal of plastic road markings without penetrating the surface.



## TFP 200 Floor Scarifiers

Model Number	Motor Specifications	Max Cutting Depth per Pass	Cutting Width	Dimensions (WxLxH)	Weight (lbs.)
<b>TFP 200 Electric</b>					
320.2004T	230V, 50/60 Hz, 1 Phase, 3 HP	1/8"	8"	14" x 35" x 35"	149
<b>TFP 200 Pneumatic</b>					
320.2012T	165CFM @ 90 PSI, 3.5 HP	1/8"	8"	14" x 35" x 35"	99
<b>TFP 200 Gas</b>					
320.2000T	Honda GX160 Gas, 5.5 HP	1/8"	8"	14" x 35" x 35"	130



## TFP 260 floor scarifier with 10" cutting width for medium to large jobs

Remove coatings and corrosion from steel and concrete surfaces to prepare for re-coating. Level and remove hard materials. Remove painted lines.

- Depth control maximizes performance and extends cutter life
- Integrated vacuum connection for dust-free operation
- Quick-lift drum lever for operator control
- Gas or electric power



### TFP 260 Cutters

	Individual Cutter	Cutters/Spacers Required Per Drum	Drum Assembly
Beam Cutters	326.5120	332 Pieces	326.1016DB
Star Cutters	326.3658	342 Pieces	326.1016DS
TCT Cutters and Spacers	320.7009 320.1460	123 Pieces 129 Pieces	326.1016ST
Milling Cutters (16mm)	320.5680	60 Pieces	326.1016DM
TCT Cutters (for grooving) and Spacers	320.7009 320.1460	36 Pieces 224 Pieces	326.1016GT

### TFP 260 Floor Scarifiers

Model Number	Motor Specifications	Max Cutting Depth per Pass	Cutting Width	Dimensions (WxLxH)	Weight (lbs.)
<b>TFP 260 Gas</b>					
326.2000T	Honda GX240 Gas, 8 HP	1/4"	10"	17" x 44" x 45"	408
<b>TFP 260 Electric</b>					
326.2006T	415V, 50/60 Hz, 3-Phase, 7.5 HP	1/4"	10"	17" x 44" x 45"	408

# Long-Reach Chisels/Scrapers/Scalers

## Chip, scrape and descale with one versatile tool

CS Unitec's Trelawny™ Long-Reach Scrapers feature one tool with multiple applications.


- Available in 2', 4', 5' and 6' lengths
- Three tools in one – chipper, scraper and descaler
- Quick-change chisel release
- Low air consumption
- Standard and "LITE" models

### Applications include removal of:

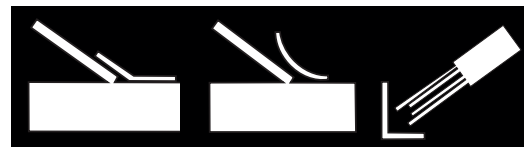
- Ice
- Residue
- Adhesive
- Asbestos
- Linoleum
- Carpeting
- Plaster
- Mortar
- Floor tiles
- Metal slag
- Rubber coatings
- Roofing materials
- Chemical spillages
- Bituminous products



## Chisel Accessories

Chisel Part No.	Chisel Length	Blade Width	Applications
705.1100	9"	2"	Spark-resistant aluminum bronze for use in hazardous areas
705.1101	9"	1"	Flat chisel for sand cast chipping
705.1102	8"	4"	Asphalt cutter / paint removal / general chipping applications
705.1106	9"	2"	Removal of linoleum from floor base
705.1112	8"	4"	Spark resistant aluminum bronze for use in hazardous areas 
705.2102	8"	4"	Floor tile removal
708.1101	1"	1-1/8" comb insert	Brick cleaning and reclamation (use with 8" long comb holder 708.1100)

### Chipping Scraping Descaling



## Scraper Accessories

Scraper Assembly Part No.	Blade Pack	Blade Width	Applications
<b>Flat</b>			
431.3504	439.3504 (5 Blades)	4"	Adhesive and paint build up removal
431.3508	439.3508 (5 Blades)	8"	Paint and coating spillage removal
431.3512	439.3512 (4 Blades)	12"	Carpet and tile removal
<b>Beveled</b>			
431.3904	439.3524 (5 Blades)	4"	Stubborn adhesive removal
431.3908	439.3528 (5 Blades)	8"	Carpet and tile removal
431.3912	439.3522 (4 Blades)	12"	Adhesive removal

## Needle Scaler Accessories

All long-reach scrapers are available as needle scalers by changing the scraper/chisel with the needle attachment P/N 415.3532. See page 13 for needles.



## Long-Reach Chisels/Scrapers

Model	Description	Model No.	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level db(A)
<b>Standard Scalers</b>	2ft. Chisel	136.3299	8	2200	4.5	84
	4ft. Needle	137.3400	11	2200	4.5	104
	4ft. Chisel	136.3499	11	2200	4.5	84
	5ft. Chisel	136.3599	12	2200	4.5	86
<b>LITE Scalers</b>	4ft. Chisel	136.3497	6.75	2200	4.5	89
	5ft. Chisel	136.3597	7.5	2200	4.5	89
	6ft. Chisel	136.3697	8.5	2200	4.5	84





# SF11 Steel Deck Hammer



## 11 heads deliver 33,000 BPM

**Fracture and reduce scale, corrosion and thick coatings in minutes – and reduce blast media costs**

CS Unitec's Trelawny™ ScaleForce Eleven Pneumatic Deck Hammer will fracture and reduce scale, corrosion and thick coatings in minutes. The machine's low profile body and adjustable handle mean the deck hammer needs only 6" clearance for working under pipes and other constructions.

- Includes Vibro-Lo™ vibration reduction technology
- Optional spark resistant beryllium copper replacement heads to reduce risk of explosion in potentially hazardous areas
- Detachable taper fit cutter head reduces cost of replacement and extends piston life
- Optional vacuum shroud reduces hazardous and nuisance dust when used with TVS approved dust collectors



11 heads provide 33,000 BPM (11 x 3000 BPM)

### Applications Include:

- Ship Decks
- Tank Bottoms
- Bridge Decks
- Floating Platforms

CS Unitec's Trelawny™ ScaleForce Eleven Pneumatic Deck Hammer operates with 7x less vibration than standard models. This tool utilizes vibration damping components to offset the hammer vibration created when the heads impact the workpiece.

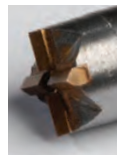


## SF11 Accessories

	Part No.
Cruciform Cutter Head	426.5351
Copper Beryllium (CuBe) Cruciform Cutter Head	606.5303
Bush Cutter Head	426.5352
Common Tapered Piston	612.5301
Vacuum Shroud	437.0100



Bush



Cruciform

Copper Beryllium for use in potentially explosive areas



Optional dust shroud, P/N 437.0100, to collect dust and debris when connected to a dust collection vacuum.



See page 19 for air-powered dust collection vacuum – ATEX classified for use in Gas Zone 2 and Dust Zone 22.

## ScaleForce Eleven (SF11) Pneumatic Deck Hammer

	Model Number	Weight (lbs.)	Dimensions (WxH)	Cutting Width	Blows per minute	CFM @ 90 PSI	Noise Level db(A)	Vibration Levels m/s <sup>2</sup>
SF11 w/ Cruciform Heads	159.5910	79	11.1" x 47.6"	10"	33,000	70	113.1	5.76
SF11 w/ CuBe Heads	159.5930	79	11.1" x 47.6"	10"	33,000	70	113.1	5.76
SF11 w/ Dust Shroud	159.5912	83	11.1" x 47.6"	10"	33,000	70	113.1	5.76



# Deck Descalers and Hold Cleaning Gun Kit

## Ideal for rapidly removing scale, rust, paint and other unwanted deposits

CS Unitec's Trelawny™ Trident Neptune Deck Descaler is ideal for the rapid removal of scale, rust, paint and other unwanted deposits on ship decks and other metal surfaces, leaving a receptive surface for priming/painting or coating application.

- Lightweight and portable
- 9' x 5/8" flexible shaft for wide coverage area
- Motor overheat protection on electric models
- Unique non-corrosive D-coupling with positive locking mechanism
- Two-skid base design keeps unit stable and upright; optional swivel base available



## Trident Neptune Deck Descalers

Model	Motor Specifications	Model Number	ISSA Number	IMPA Number	Cutter Speed (RPM)	Weight (lbs.)	Dimensions (LxWxH)
<b>Pneumatic w/ Swivel Base</b>	68 CFM @ 90 PSI 1.5 HP	340.490/S	55.077.00	59 12 81	3000	75	106" x 8.3" x 11.4"
<b>Electric w/ Swivel Base</b>	110V / .75 HP	340.TN/50/S	55.077.00	59 12 41	2850	75	106" x 8.3" x 11.4"
	220V / .75 HP	340.TN/100/S	55.077.00	59 12 42	3450		
<b>Electric w/ Skid Base</b>	110V / .75 HP	340.TN/S/110	55.077.00	59 12 41	2850	75	106" x 8.3" x 11.4"
	220V / .75 HP	340.TN/S/220	55.077.00	59 12 42	3450		

*Standard equipment includes: 9' x 5/8" flexible shaft; heavy-duty leaf scaling head; 6-cutter scaling head; 6" dia. power brush, spanner set and hand guard.*

## Specifically designed for hold cleaning on bulk carriers and cargo vessels of all sizes

The Hydrflex uses a combination of water and compressed air for a powerful, high-pressure jet of water that can reach up to 100 ft. away.

- One-man operation
- Constructed of high-quality, non-corrosive stainless-steel materials to prevent corrosion
- Adjustable air and water pressure control valve

## Hydrflex Hold Cleaning Gun Kit

Air Consumption – 70 CFM @ 90 PSI

Recoil – 10-18 kg

Water Pressure – 85 PSI

Water Hose – 2"

Air Hose – 3/4"

Model	Model Number	Weight (lbs.)
<b>Standard Kit</b> (includes items 1, 2, 3, 4 & 5) ISSA No: 55.085.00 IMPA No: 55 07 00	342.HY50	42



## Hydrflex Hold Cleaning Gun Accessories

Item	Model	Part No.
1	Gun	342.HY01
2	Tripod	342.HY02
3	Water Hose Coupling (2-1/2" x 2-1/2")	342.HY03
4	Water Hose Coupling (2-1/2" x 2")	342.HY04
5	Instantaneous Water Hose Adapter	342.HY05
6	Ball Valve	342.HY07



## Dust Collection Vacuums with HEPA Filtration

CS Unitec's dust extraction vacuums offer strong 130 CFM air flow and an electromagnetic pulse filter cleaning system to maximize vacuum power and dust collection.

- Ideal for use with power tools
- 99.999% HEPA filtration efficiency of particles down to 0.3 microns; automatic filter cleaning
- "Power Take Off" outlet activates the vacuum ON/OFF from the power tool switch
- Non-HEPA models available, 99.930% filtration efficiency
- Kit available to connect two power tools (P/N 198804)



**Model CS 1445 H** automatically "pulse" cleans filters without interrupting operation!



**CS 1225 H**

### HEPA Vacuum Specifications

	CS 1225 H	CS 1500 H	CS 1445 H
Power	11 Amp	11 Amp	11 Amp
Air flow	130 CFM	130 CFM	130 CFM
Tank capacity	6.6 gal.	13 gal.	9 gal.
Weight	24.3 lbs.	35.2 lbs.	24.3 lbs.
Filter P/N (2pk.)	428956	428956	428956

### Standard Vacuum Specifications

	CS 1225	CS 1500	CS 1445
Power	11 Amp	11 Amp	11 Amp
Air flow	130 CFM	130 CFM	130 CFM
Tank capacity	6.6 gal.	13 gal.	9 gal.
Weight	24.3 lbs.	35.2 lbs.	24.3 lbs.
Filter P/N (2pk.)	416069	416069	416069

**Activate vacuum on/off from power tool controls**



**CS 1500**

#### Optional Filter Bags

Paper filter bags for CS 1225 and CS 1445 - P/N 416014 (5-pack)

Plastic filter bags for CS 1225, CS 1445 and CS 1500 - P/N 421742 (5-pack)

Paper filter bags for CS 1500 - P/N 416021 (5-pack)

Slurry filter bags for CS 1500 - P/N 420592 (3-pack)

*We make no claim that use of a vacuum will eliminate contaminants. Wear an approved respirator mask and follow all appropriate OSHA safety regulations for proper ventilation, dust handling, eye protection, etc. when using a dust extraction grinder and vacuum.*

## Air-Powered Dust Collection Vacuum – KAV 30 AIR

**Collection of dry dust/debris and non-flammable liquids**  
**ATEX classified; antistatic vacuum and air-supply hose**



- Antistatic vacuum and air supply hose
- ATEX classified Ex II 2 GcT6 for use in Gas Zone 2 and Dust Zone 22
- Robust stainless steel construction
- Floor tool kit for general cleaning work
- Double filtration with optional 14" Permaflow filter
- Optional HEPA filter – for collection of hazardous dust
- Disposable paper filter or reusable cloth bag for wet use

### KAV 30 AIR Vacuum Specifications

	Dry Model 303.10KAV30/D	Wet/Dry Model 303.10KAV30/WD
CFM @ 90 PSI	35	35
Output flow	70 CFM	70 CFM
Tank capacity	6.8 gal.	6.8 gal.
Weight	32 lbs.	32 lbs.
Paper Filter P/N (10pk.)	303.1030	303.1030
HEPA Filter P/N	303.1060	303.1060

**Fast, accurate hole cutting... on the job site or in the shop!**

*CS Unitec's portable magnetic drills are ideal for drilling structural steel and virtually any metal. We offer a compact, powerful and reliable range of portable magnetic drills for holes up to 5-1/8" diameter.*

**Cut up to 5-1/8" • Twist Drill up to 1-3/4" • Tap up to 1-5/8"**

**Unique features of CS Unitec's portable magnetic drill line:**

- Variable-speed, multiple-gear models
- Reversible motors for tapping and machining
- Swivel base stand for hard-to-reach areas
- Manual or automatic feed
- Lightweight – from 24 lbs.

**For a comparison chart of our full line of portable magnetic drills, see pages 22-23.**



**NEW!**

*MAB 1300 V with Automatic and Manual Feed*

#### **MAB 1300**

ø 5-1/8" cutter capacity  
ø 1-3/4" twist drill capacity  
ø 1-5/8" tapping capacity  
Reversible, 4-gear motor  
*The ultimate in power*



#### **MABasic 200**

ø 1-3/8" cutter capacity  
ø 1/2" twist drill capacity



**Twist Drilling  
Reaming**



**Tapping  
Countersinking**



#### **MAB 525**

ø 2-1/2" cutter capacity  
ø 1" twist drill capacity  
ø 15/16" tapping capacity  
Reversible, 2-gear motor



#### **MAB 825 & 845**

ø 4" cutter capacity  
ø 1-1/4" twist drill capacity  
ø 1-1/8" tapping capacity  
Swivel base (MAB 845)  
Reversible, 4-gear motor



#### **MAB 150**

ø 1-1/2" cutter capacity  
For drilling in tight spaces



#### **AutoMAB 350**

ø 1-1/2" cutter capacity  
Automatic feed, reverse and shut-off





# Annular Cutters and Accessories



## Pneumatic and Hydraulic Portable Magnetic Drills

**ATEX Classified**



### AIRBOR™ AB-4300

Pneumatic power  
 $\varnothing$  2-1/16" cutter capacity  
 $\varnothing$  5/8" twist drill  
 ATEX for hazardous environments



### HB-4400

Hydraulic power  
 $\varnothing$  2-1/16" cutter capacity  
 $\varnothing$  1/2" twist drill  
 For marine, construction and underwater applications



## Accessories for hole cutting, twist drilling, tapping and more

### Lubricants

Non-toxic ProLube™ Lubricants prolong tool life by reducing friction and wear

### Pilot Pins, Drill Chucks and Tapping Tools

Wide variety for cutting, twist drilling and tapping

### Arbors and Extensions

Manual and automatic cooling models, as well as quick-lock, no-tools arbor; extensions extend cutter reach up to 18"

### Drilling Starter Kits

### MOBIL CLAMP

Convert magnetic drilling machine to bench drill

### Drilling Stand and Vise

Convert hand drill to drill press

### Vacuum Plates

For channeled plates and smooth surfaces

### Pipe Saddle




### Clamp System

Safe, secure drilling of pipes and tubular material



# Portable Magnetic Drill Comparison Chart



	MABasic 200	MABasic 400	MABasic 450	MABasic 850	MAB 150	MAB 455 MAB 455 SB	MAB 485 MAB 485 SB	MAB 525 MAB 525 SB	AutoMAB 350
Annular Cutters Diameter (ø)	up to ø 1-3/8"	up to ø 1-5/8"	up to ø 1-5/8"	up to ø 3"	up to ø 1-1/2"	up to ø 2"	up to ø 2"	up to ø 2-1/2"	up to 1-1/2"
Twist Drills Diameter (ø)	up to ø 1/2"	up to ø 5/8"	up to ø 3/4"	up to ø 1-1/4"		up to ø 7/8"	up to ø 7/8"	up to ø 1"	
Tapping Diameter (ø)							up to ø 15/16"	up to ø 15/16"	
Countersinking Diameter (ø)							up to ø 1-9/16"	up to ø 2"	
Reaming Diameter (ø)							up to ø 3/4"	up to ø 7/8"	
Stroke	6-1/3"	6-1/3"	6-1/3"	10"	1"	6-1/3"	6-1/3"	6-1/3"	6"
Weight	27 lbs.	27 lbs.	29 lbs.	53 lbs.	24 lbs.	29 lbs.	29 lbs.	35 lbs.	33 lbs.
Speed Range 1 (RPM)	450	430	250	110	400	250	50-250	70-280	450
Speed Range 2 (RPM)		760	450	175		450	100-450	180-580	
Speed Range 3 (RPM)				245					
Speed Range 4 (RPM)				385					
							✓	✓	
							✓	✓	
						✓	✓	✓	
<b>Electronic Safety Shutoff Sensor</b>	✓	✓	✓			✓	✓	✓	
Tool Holder	Set Screw	Set Screw	Set Screw	Set Screw	Set Screw	Quick-change keyless	Quick-change keyless	Quick-change keyless	Set Screw
Morse Taper (MT)			MT2	MT3		MT2	MT2	MT3	
Safety Friction Clutch									
Torque Control								✓	
Swivel/Adjustable Base						✓	✓	✓	
Magnet Size	6-5/8" x 3-1/3"	6-5/8" x 3-1/3"	6-5/8" x 3-1/3"	8-5/8" x 4-1/3"	6-5/16" x 3-3/16"	6-5/8" x 3-1/3"	6-5/8" x 3-1/3"	7-1/8" x 3-1/2"	7-1/8" x 3-1/2"





MAB 825 KTS	MAB 825 V MAB 845	MAB 1300 MAB 1300 V	AIRBOR™	HB 4400	CSU 32RL	CSU 50AC CSU 50RL	CSU 80AC	CSU 100/3RL	<b>Special Features</b>
up to ø 1-5/8"	up to ø 4"	up to ø 5-1/8"	up to ø 2-1/16"	up to ø 2-1/16"	up to ø 1-1/4"	up to ø 2"	up to ø 3-3/16"	up to ø 4"	Max. hole diameter up to 5-1/8"
up to ø 1"	up to ø 1-1/4"	up to ø 1-3/4"	up to ø 5/8"	up to ø 1/2"	up to ø 1/2"	up to ø 7/8"	up to ø 1-1/4"	up to ø 1-1/4"	Max. twist drilling up to 1-3/4"
up to ø 1-1/8"	up to ø 1-1/8"	up to ø 1-5/8"			up to ø 3/4"	up to ø 15/16" (CSU 50RL only)		up to ø 1-1/8"	Max. tapping up to 1-5/8"
	up to ø 2"	up to ø 3"							
	up to ø 1-1/4"	up to ø 2"							
10"	10"	3.35" (12" w/out retainer)	up to 10-1/4"	3-3/4"	5-3/4"	5-1/4"	10"	10"	
99 lbs.	55 lbs.	112 lbs.	43 lbs.	48-1/2 lbs.	24 lbs.	29 lbs.	57 lbs.	57 lbs.	
40-110	40-110	30-80	400	0-630	450	250	100	40-140	Pneumatic
65-175	65-175	50-120				450	175	120-480	Hydraulic
140-360	140-360	130-350					245		
220-600	220-600	210-550					385		
✓	✓	✓			✓	✓ (CSU 50RL only)		✓	Allows thread cutting
	✓	✓			✓	✓	✓	✓	Overheating protection
	✓	✓			✓	✓	✓	✓	Magnet adhesion indicator
	✓	✓			✓	✓	✓	✓	Shuts down motor if magnetic contact lost
	Quick-change keyless	Set Screw	Set Screw	Set Screw	Set Screw	Quick-change keyless	Quick-change keyless	Quick-change keyless	
MT3	MT3	MT4				MT2	MT3	MT3	
	✓	✓							
	✓	✓			✓	✓	✓	✓	
✓	✓								Swivel/adjustable base
8-11/16" x 8-11/16"	8-5/8" x 4-1/3"	14" x 4-3/4"	8-3/4" x 3-1/2"	7-1/4" x 3"	6-5/16" x 3-1/4"	6-1/2" x 3-1/2"	9" x 4-3/8"	9" x 4"	

# Annular Cutters

## Annular Cutters for burr-free finished holes, without predrilling or step drilling

**Annular Cutters include a corresponding pilot pin<sup>†</sup>**

- Precision-ground flutes provide efficient chip clearance, increasing drilling productivity and decreasing cutter breakage
- Center hole for pilot pin accurately aligns the cutter, allows for internal lubrication and removes the slug
- Double-action tooth geometry cuts, splits and ejects chips more efficiently



<sup>†</sup> Pilot pins not included with 6" and 8" depth cutters

### 6-Series HSS Unibroach™ Annular Cutters

*Fully ground high-speed steel*

Cutting depth:	1"	2"	3"	4"	6"
Drilling ø:	7/16" - 5-1/8"	7/16" - 5-1/8"	3/4" - 5-1/8"	3/4" - 5-1/8"	3/4" - 5-1/8"



### 8-Series ARMOR-PLATED Unibroach™ Annular Cutters

*Fully ground high-speed steel with TiAlN hard coating – for higher working temps*

Cutting depth:	1"	2"	3"	4"	6"
Drilling ø:	7/16" - 5-1/8"	7/16" - 5-1/8"	3/4" - 5-1/8"	3/4" - 5-1/8"	3/4" - 5-1/8"



### 9-Series Unibroach™ TCT Hornet Annular Cutters

*Sintered carbide with Tungsten Carbide tips*

Cutting depth:	1"*	2-3/8"	3-3/8"	4"	6"	8"
Drilling ø:	1/2" - 2"	1/2" - 5-1/8"	3/4" - 5-1/8"	3/4" to 5-1/8"	13/16" to 5-1/8"	13/16" to 5-1/8"

\* 1-3/8" depth for diameters larger than 1-1/2"



### 10-Series One-Touch TCT Annular Cutters

*Tungsten Carbide tipped with one-touch shank*

Cutting depth:	1-3/8"	2-3/8"	3-3/8"	4"
Drilling ø:	1/2" - 2"	1/2" - 2-3/4"	9/16" - 1-1/16"	9/16" - 1-1/16"



**Also available:**  
Cobalt Cutters  
Large-diameter Cutters  
Unibroach® Stack Cutters



### 4-Series Carbide-Tipped Rail Cutters

*Carbide-tipped rail bits for quick and efficient cutting through rust and corrosion*

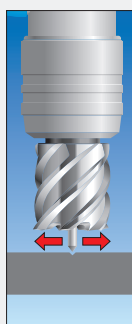
Cutting depth:	1-3/8"
Drilling ø:	3/4" - 1-11/16"



## Pilot Pins: How they work...

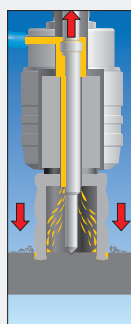


**1: Centering**



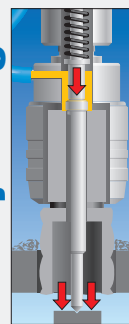
The pilot pin accurately centers cutter over area to be drilled.

**2: Oiling**



During drilling, the pilot pin retracts and allows internal coolant to reach the cutting teeth.

**3: Ejecting**



When hole is complete, the slug is automatically ejected from the cutter.



# Carbide-Tipped Hole Saws



## Cut holes in steel plate



**Model EHB 16/2.4**  
**SR/LC: 2-speed,**  
**variable-speed**  
**drill with safety**  
**clutch**

- Tungsten carbide-tipped cutting edges last longer and can be run at higher feeds and speeds to create holes of exceptional quality and accuracy
- One-piece construction; diameters from 9/16" to 4-1/2"
- Designed for use with hand-held drills – recommended drills include our EHB 16 series or other hand-held drills with slip clutch



### 1-Series Carbide-Tipped Hole Cutters

**1" effective length**  
**Center twist pilot drill**  
**Safety Collar Stop**

3/8" shank on cutters up to 3-1/4" dia.  
1/2" shank on cutters 3-5/16" dia. and larger



Order No.	Diameter
1-1-118	9/16"
1-1-120	5/8"
1-1-122	11/16"
1-1-124	3/4"
1-1-126	13/16"
1-1-128	7/8"
1-1-130	15/16"
1-1-132	1"
1-1-134	1-1/16"
1-1-136	1-1/8"
1-1-138	1-3/16"
1-1-140	1-1/4"
1-1-142	1-5/16"
1-1-144	1-3/8"
1-1-146	1-7/16"
1-1-148	1-1/2"
1-1-150	1-9/16"
1-1-152	1-5/8"
1-1-154	1-11/16"

Order No.	Diameter
1-1-156	1-3/4"
1-1-158	1-13/16"
1-1-160	1-7/8"
1-1-162	1-15/16"
1-1-164	2"
1-1-166	2-1/16"
1-1-168	2-1/8"
1-1-170	2-3/16"
1-1-172	2-1/4"
1-1-174	2-5/16"
1-1-176	2-3/8"
1-1-178	2-7/16"
1-1-180	2-1/2"
1-1-182	2-9/16"
1-1-184	2-5/8"
1-1-186	2-11/16"
1-1-188	2-3/4"
1-1-190	2-13/16"
1-1-192	2-7/8"

Order No.	Diameter
1-1-194	2-15/16"
1-1-196	3"
1-1-198	3-1/16"
1-1-1100	3-1/8"
1-1-1102	3-3/16"
1-1-1104	3-1/4"
1-1-1106	3-5/16"
1-1-1108	3-3/8"
1-1-1110	3-7/16"
1-1-1112	3-1/2"
1-1-1114	3-9/16"
1-1-1116	3-5/8"
1-1-1118	3-11/16"
1-1-1120	3-3/4"
1-1-1122	3-13/16"
1-1-1124	3-7/8"
1-1-1126	3-15/16"
1-1-1128	4"
1-1-1136	4-1/4"
1-1-1144	4-1/2"

### 2-Series Carbide-Tipped Hole Cutters

**Extra Heavy Duty**

**9/16" effective length**  
**Spring-loaded Pilot Pin**

Cutters feature milled, 3-flat shank designed to fit 1/2" chucks.



Order No.	Diameter
2-1-118	9/16"
2-1-120	5/8"
2-1-122	11/16"
2-1-124	3/4"
2-1-126	13/16"
2-1-128	7/8"
2-1-130	15/16"
2-1-132	1"
2-1-134	1-1/16"
2-1-136	1-1/8"
2-1-138	1-3/16"
2-1-140	1-1/4"
2-1-142	1-5/16"
2-1-144	1-3/8"

### 2-Series Accessories

Order No.	Description
2-1-pilot	Pilot/Ejector Pin
2-1-screw	Screw

### 1-Series Accessories

Order No.	Description
1-1-drill	Center Pilot Drill
1-1-spring	Spring
1-1-screw	Screw



Electric Bridge Reamer  
EHB 32/2.2 R/RL



## Bridge Reamers, Corner Drills and Drive Units

Air, electric and hydraulic power for bridge reaming and heavy-duty drilling applications in steel and other metals, as well as tube rolling, tube expanding, tapping, valve turning and more.



Model  
EAU 34/4 CB


Model  
EAU 36/4

- Electric bridge reamers and drive units have high torque, two gears and variable-speed reversible motors
- Air and hydraulic bridge reamers include self-closing roll throttle and built-in oiler for motor



AIR  
Bridge  
Reamer



Model Number	Motor Specifications	Load Speed	Drilling (in steel)	Reaming (in steel)	Tube Rolling	Torque Output (ft./lbs.)	Arbor	Weight (lbs.)
<b>Electric Motor for reaming, drilling and tapping – with torque control</b>								
EHB 32/2.2 R/RL (reversible)	16.3 Amp / 110V	60-140 / 200-470	1-1/4"	1-1/4"	2"	92	MT3	14
<b>Pneumatic Bridge Reamers / Corner Drills – ATEX Classified for Ex Zones</b>  <b>ATEX Classified</b>								
2 1602 0030	0.7 HP, 21 CFM @ 90 PSI	500	5/8"	1/2"	–	7	MT1	7
2 1701 0030	1.8 HP, 49 CFM @ 90 PSI	270	7/8"	5/8"	–	35	MT2	19
2 1801 0030	2.6 HP, 63 CFM @ 90 PSI	260	1-1/4"	1"	–	53	MT3	25
2 2104 0030 (reversible)	3.0 HP, 63 CFM @ 90 PSI	180	2-1/8"	2"	2"	86	MT4	37
<b>Hydraulic Bridge Reamer / Corner Drill</b>								
2 1806 0010	3.8 HP, Oil Pressure 2000 PSI, Oil Flow 4 GPM	220	1-1/4"	1"	–	60	MT3	25
<b>Electric Drive Units with reverse and variable speeds</b>								
ETE 32/2.3 R/RL	16.3 Amp / 110V	30-230	N/A	N/A	3"	174	MT3	15
EAU 34/4*	20 Amp / 110 V	80-570	N/A	N/A		203	MT3	19.5
EAU 36/4 R R/L** with 4-speed gearbox and variable speed	22 Amp / 110 V	50-420	N/A	N/A		187	MT3	20

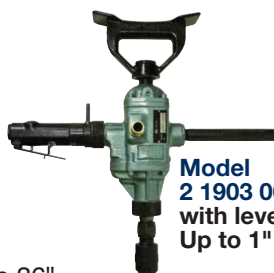
\* EAU 34/4 available with control box (on/off, reverse) – order Model No. EAU 34/4 CB

\*\* EAU 36/4 R R/L available with control box – order Model No. EAU 36/4 R R/L CB

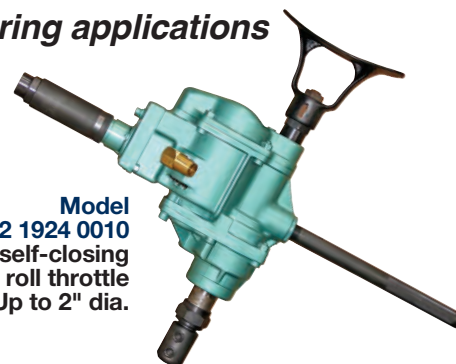
## Woodboring Air Drills – Reversible

Heavy-duty power for underwater drilling and other wood boring applications

- Ideal for drilling wood in marine timbers, underwater use and railroad repair work
- 1/2" woodboring chuck style
- Thrust bearing support for long life and efficient operation
- Lever throttle and durable spur gearing
- Includes breast plate and dead handle
- Accessories include 1/2" to 1-1/2" dia. woodboring drill bits in lengths from 12" to 36"



Model  
2 1903 0010  
with lever throttle  
Up to 1" dia.



Model  
2 1924 0010  
with self-closing  
roll throttle  
Up to 2" dia.

Model Number	Motor Specifications	Drilling (in wood)	Free Speed	Spindle	Weight (lbs.)	Optional Geared Drill Chuck
<b>Woodboring Drills – include 1/2" NPT threaded exhaust port</b>						
2 1903 0010	2 HP, 39 CFM @ 90 PSI	1"	750 RPM	Stub	14.5	Part no. DE-99C
2 1924 0010	3 HP, 50 CFM @ 90 PSI	2"	700 RPM	MT2	24.75	Part no. IBC 22 (MT2)
2 1932 0010	3 HP, 50 CFM @ 90 PSI	3"	380 RPM	MT3	24.75	Part no. IBC 21 (MT3)

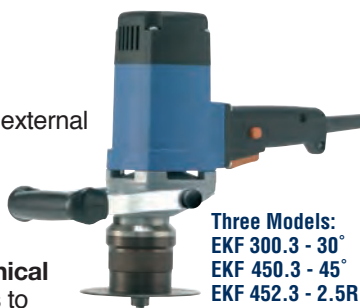


# Portable Beveling Machines

## EKF Multipurpose Beveling Machines

*Bevel, deburr, chamfer and prepare weld seams faster and cleaner than angle grinders*

- Bevel 30°, 45° or 2.5mm radius on steel, stainless, nonferrous metals, brass and plastics
- Deburr and chamfer; straighten edges, internal and external radii; and countersink holes from 7/8" dia.
- Fine adjustment feature for slight chamfers when deburring for the preparation of weld seams
- Ideal for: **Boiler and process plant construction** (prepare weld seams on heat exchangers); **Mechanical engineering** (deburr machine parts, chamfer edges to protect against paint peeling and create visible edges); **Sheet metal** (deburr cut edges); **Moldmaking** (straighten edges, internal and external radii and countersink holes from 7/8" dia.)

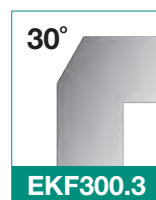


**Three Models:**  
EKF 300.3 - 30°  
EKF 450.3 - 45°  
EKF 452.3 - 2.5R

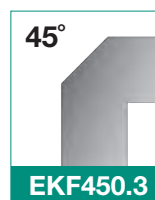
Also available:  
1.6mm / 0.063"  
cutting inserts  
(SHM 201).  
Contact us for  
details.



### One Machine, Three Milling Options



**EKF300.3**  
Milling cutter 30°,  
Chamfer 0 - 1/4"



**EKF450.3**  
Milling cutter 45°,  
Chamfer 0 - 1/4"



**EKF452.3**  
Milling cutter  
2.5mm radius  
(0.098")

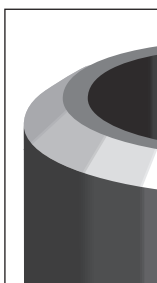
## SKF Beveling Machine for Plates and Pipes

*Fast, easy preparation of weld seams and bevels on plate or pipe*

- Bevel 15° to 60° angles and land width up to 3/4" on steel, stainless steel, aluminum and nonferrous metal plates and pipe
- Work on welding angles and weld preparation on pipes/tubes with a minimum OD of 6-1/4" (160mm) with built-in pipe roller guide; ideal for beveling pipe 6-1/4" OD and larger
- Robust design, single operator control and easy handling
- Anti-vibration system for operator comfort



**SKF  
025**

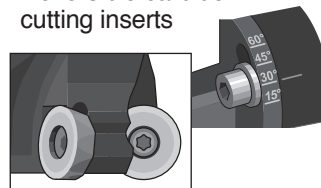
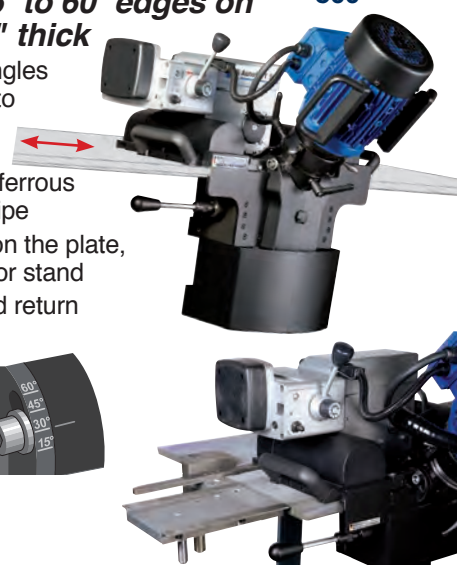


## AutoCUT 500 Automatic Edge Processing Machine

*Powerful, self-guiding beveling machine for 15° to 60° edges on plate up to 1.5" thick*

**AutoCUT  
500**

- Bevel 15° to 60° angles and land width up to 1-3/16" on steel, stainless steel, aluminum and nonferrous metal plates and pipe
- Unit propels itself on the plate, no need for a cart or stand
- Automatic feed and return
- Reversible carbide cutting inserts



Model No.	Motor Power	Beveling Angle	Max. Bevel Width*	Cutting Speed	Cutting Inserts Qty.	Dimensions	Weight (lbs.)
EKF Multipurpose Beveling Machines							
EKF 300.3	13.5 Amp/110 V	30°	1/4"	3000 SFPM	3	12-1/2" L x 5-1/2" W x 11-5/8" H	10.5
EKF 450.3	13.5 Amp/110 V	45°					
EKF 452.3	13.5 Amp/110 V	2.5mm (0.098")					
SKF Beveling Machine for Plates and Pipes							
SKF 025	10 Amp/110 V	15° - 60° Continuously Adjustable	3/4"	1800 SFPM	12	16-1/2" L x 13" W	43
AutoCUT 500 Automatic Edge Processing Machine							
AutoCUT 500	10 Amp/230 V 3-phase	15° - 60° Continuously Adjustable	1-3/16"	2750 SFPM	6	23-1/2" L x 24" W x 20-1/2" H	110

\* Max. bevel width may require several passes, depending on material hardness

220 V / 50 Hz also available

# Dry Cutting Circular Saws – Electric

Fast, portable, burr-free cutting of metal plates, pipes, profiles and more... *without coolant*



## Super Hand-Held Dry Cut Saw

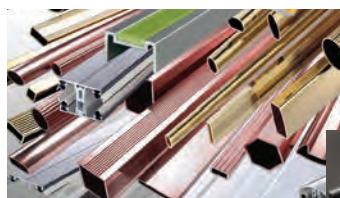
**12-5/8" diameter, cut up to 4-3/4" depth and 3/8" thick steel plate**

- Largest portable dry metal cutting saw on the market
- Cut steel, sandwich panels, sheet metal, I-beams, trapezoidal sheets, conduit, pipes, and more – without coolant
- Side-mounted tilt tray for disposal of chips
- Motor protection with optical overload indicator
- Dust collection port



8320 SHDC Super Hand-Held Dry Cut Saw (608270 U) standard equipment includes a saw blade (P/N 608276).

Integrated dust collection port



### Order No. 608270 U

Motor Power	16 Amp/110V*
Blade Diameter	12-5/8" (320mm)
Max. Depth of Cut	4-3/4" (120mm)
Speed (Free)	1,400 RPM
Arbor Size	1"
Blade Part No.	608276 (12-5/8" dia.)
Blade No. of Teeth	84T
Weight	21 lbs.

\* 230V also available – Order No. 608270

### Optional 12-5/8" Saw Blade for Model 8320 SHDC

P/N 608276SI, 84T, for stainless steel  
Blade specially coated, increasing cutting life by 2.5X

### Super Hand-Held Accessory: Guide Rail with Clamping System – 2 x 23 5/8" Rails



(P/N 608275 SET - shown at left)

Ideal for straight cutting of sandwich panels and sheets, guide rail and clamping system provides secure and jam-free guidance of saw blade through material. Rails can be used together for straight edge length up to 55" (1,400mm).



# Dry Cutting Circular Saws – Electric

## Dry Cut Miter Saw – 10" dia.



### 9410 ND Max. Cutting Capacities

	90° Cut	45° Cut
Round	2.00"	1.25"
Square	2.00"	1.25"
Rectangular	3.9" x 2.00"	2.36" x 1.25"

### Precise 45° cuts left and right

- Cut tubes, profiles, etc. from steel, stainless, non-ferrous metal, plastic, composite and more – no coolant or deburring necessary
- Fine cuts in soft and sensitive materials
- Adjustable saw head for miter cuts of -45° to +45°
- Easy clamping with 3-step quick-release system
- Lightweight and portable at only 42 lbs.

#### Order No. 608700

Motor Power	13 Amp/110V
Blade Diameter	10" (255mm)
Max. Depth of Cut	4" at 90°
Speed (Free)	1,600 RPM
Arbor Size	1"
Blade Part No.	600598 (10" dia.)
Blade No. of Teeth	60T
Weight of Saw and Stand	42 lbs.

**9410 ND standard equipment includes carrying case and saw blade (P/N 600598).**

#### 10" Saw Blades for 9410 ND

P/N 600598, 60T, for mild steel  
P/N 600654, 66T, for thin steel  
P/N 600654SI, 66T, for stainless steel

## Premium Super Dry Cutter – 14" dia.



### Model 9435 Max. Cutting Capacities

	90° Cut	45° Cut
Round	5.5"	4.72"
Square	4.92"	3.15"
Rectangular	4.13" x 6.1"	2.95" x 3.93"

### 6" max. depth of cut

- Cut stainless steel, ferrous and non-ferrous metal, plastic and aluminum tubes, profiles and more – no coolant or deburring necessary
- Exclusive blade stabilizing system reduces vibration
- Powerful, high-torque motor for continuous operation
- Patented quick-release vise for precise bevel cuts

#### Order No. 608302

Motor Power	15 Amp/110V*
Blade Diameter	14" (355mm)
Max. Depth of Cut	6" at 90°
Speed (Free)	1,600 RPM
Arbor Size	1"
Blade Part No.	724072 (14" dia.)
Blade No. of Teeth	72T
Weight	55 lbs.

\* 220V also available – Order No. 608301-220V

**9435 Premium Super Dry Cut Saw (608302) standard equipment includes saw blade (P/N 724072).**

Optional stand available – Order No. 600526T3



#### 14" Saw Blades for Model 9435

P/N 724072, 72T, for construction

P/N 600570, 90T, for stainless and thin steel

P/N 600570SI, 90T, for stainless steel

P/N 600580, 72T, for stainless and medium steel

P/N 600590, 60T, for stainless and thick steel

P/N 600591, 60T, recommended for cast iron

P/N 600595, 66T, recommended for mild steel

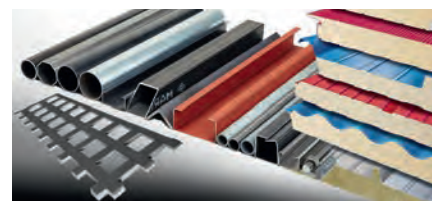
P/N 600594, 96T, recommended for aluminum

# Dry Cutting Circular Saws – Pneumatic

Air power ideal for petrochemical, marine, demolition and fabrication industries

## 7-1/2" dia. Heavy-Duty Air Saw

Cut up to 2-1/2" depth at 90° and 1-1/2" at 45°



- Heavy-duty air-powered circular saw, ideal for wet and dirty conditions
- Pneumatic power eliminates burn out from stalls
- Cuts up to 2-1/2" depth at 90° and 1-1/2" depth at 45°
- 7-1/2" max. blade capacity
- D-handle design with inside trigger and safety lock button to prevent accidental starting

1.7 HP  
Air Motor



### Order No. 5 1116 0020

Motor Power	1.7 HP (1.3 kW)
Blade Diameter*	7-1/2" (190mm)
Max. Depth of Cut	2-1/2" at 90° / 1-1/2" at 45°
Speed (Free)	3,200 RPM
Air Consumption	53 CFM at 90 PSI
Air Connection	1/2" NPT
Vibration	<2.5 m/s <sup>2</sup>
Length	13-1/2"
Weight	19 lbs.

\* The Model 5 1116 0020 saw also accepts 7-1/4" dia. blades.

**Standard equipment includes rip fence and blade wrench. Blade not included.**



## 9" dia. Air Saw for 90° and 45° Cuts

Dry cut up to 3-1/4" depth and 3/8" thick steel plate



**ATEX Classified**

- Cut steel, non-ferrous metal, plastic, grating, composite and corrugated materials
- Cuts at 90° and 45° angles
- Ideal for petrochemical, marine, demolition and fabrication applications
- Cuts steel plate up to 3/8" thick

### Order No. 5 1115 0020

Motor Power	2 HP (1.5 kW)
Blade Diameter	9"
Max. Depth of Cut	3-1/4" at 90° / 2-1/8" at 45°
Speed (Free)	1,700 RPM
Air Consumption	71 CFM at 90 PSI
Air Connection	1/2" NPT
Vibration	<2.5 m/s <sup>2</sup>
Weight	19 lbs.

**Standard equipment includes an impact-resistant carrying case and Ultra-thin LBS blade (P/N 722-23060).**

## Dry Cutting TCT Saw Blades

### 9" Laser Beam Saw (LBS) ultra-thin blade for all-purpose use features:

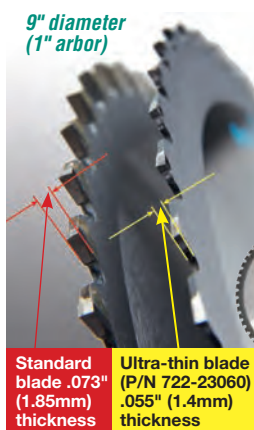
- Thinner than conventional saw blades: LBS = .055" vs. Std. = .073" thickness
- Shock-resistant, less vibration
- Produces 35% fewer chips

2 HP Air Motor



### Optional Adjustable Rail Guide

Ideal for clean and straight cutting up to 47" of metal grids, sandwich panels, multiple profiles and more. Cutting depth of 3-1/8" with rail. (P/N 608284)



Standard blade .073" (1.85mm) thickness

Ultra-thin blade (P/N 722-23060) .055" (1.4mm) thickness



Part No.	Teeth	Thickness
722-23060*	60	.055"

\* Standard with Model 5 1115 0020 Pneumatic Metal Saw.

### Tungsten Carbide-Tipped Dry Cutting Blades, 9" dia., .073" thick for Model 5 1115 0020

P/N 721-23048, 48T, for standard use  
P/N 721-23060, 60T, for aluminum  
P/N 721-23068, 68T, for thin-wall metal  
P/N 721-23084, 84T, for sheet metal

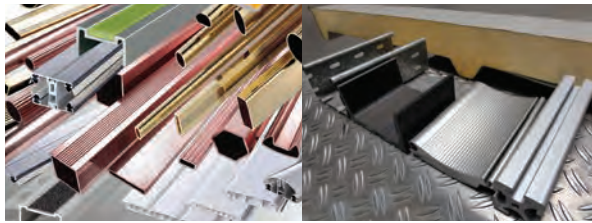


# Dry Cutting Circular Saws – Pneumatic

## Cut I-beams, 3/8" thick steel plate, insulation boards, sandwich panels, aluminum, plastics and more

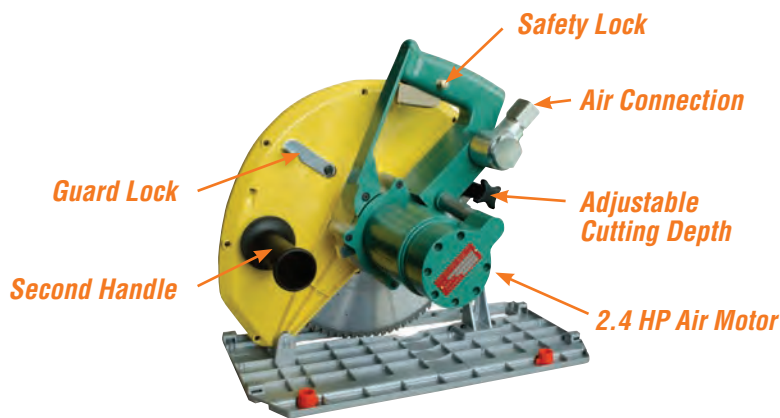
- Heavy-duty air-powered circular saw
- Pneumatic power eliminates burn out from stalls and dusty jobsite conditions
- Powerful 2.4 HP motor for demanding applications
- Cuts 3/8" thick steel plate and up to 4-3/4" in other materials
- 12-5/8" max. blade capacity
- Suction nozzle and internal chip collector for clean operation
- D-handle design with inside trigger and safety lock button to prevent accidental starting
- Ideal for steel construction, demolition and more

**Model 5 1117 0020**  
**4<sup>3</sup>/<sub>4</sub>" max. cutting depth;**  
**Cuts 3/8" thick steel plate**



### Order No. 5 1117 0020

Motor Power	2.4 HP (1.8 kW)
Blade Diameter	12-5/8"
Max. Depth of Cut	4-3/4"
Speed (Free)	1,200 RPM
Air Consumption	71 CFM at 90 PSI
Air Connection	1/2" NPT
Vibration	<2.5 m/s <sup>2</sup>
Weight	24 lbs.

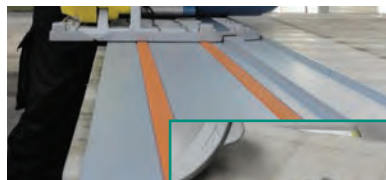


**12-5/8" Dry Cutting  
Saw Blade included  
(P/N 608276).**



### **Dry Cutting Circular Saw Accessory: Guide Rail with Clamping System (P/N 608275 SET)**

Ideal for straight cutting of sandwich panels and sheets, guide rail and clamping system provides secure and jam-free guidance of saw blade through material. Rail provides straight edge length up to 55" (1,400mm).



### **12-5/8" Saw Blades for Model 5 1117 0020**

P/N 608276, 84T  
for standard use

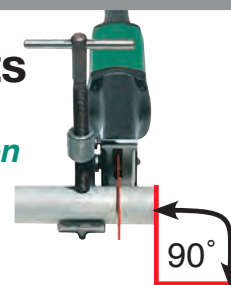
P/N 608276SI, 84T  
for stainless steel

# Portable Reciprocating Saws Air • Hydraulic

## Hand-held or clamp-on cutting in tough environments

*Ideal for a wide range of industries, including subsea, gas utilities, offshore oil, petrochemical, power generation, industrial plant maintenance and construction*

- Fast cutting of pipe, structural steel, bolts, nails, pallets and other material
- The best power-to-weight ratios in the industry; compact size for cutting in confined spaces
- Accessories include wide variety of heavy-duty blades and clamps for 90° cuts



### The CAT Model 5 1217 0020



1.3 HP, Cuts steel pipe and channel 1/2" to 4" dia., plastic pipe to 8" dia.

### The WOLF Model 5 6005 0010



1.6 HP, Cuts steel pipe and channel 1/2" to 6" dia., plastic pipe to 8" dia.

### The SHARK Model 5 1219 0010



2 HP, cuts pipe up to 6" dia., wood up to 8" dia., metal plate up to 3/4" dia.

Model Number	Motor Specifications	Stroke Length	Strokes per Minute	Connection	Length	Weight (lbs.)
<b>The CAT – Pneumatic</b>						
5 1217 0020	1.3 HP, 46CFM @ 90 PSI	1-1/8"	0-1800	1/2" NPT (ID)	15-7/8"	9
<b>The WOLF – Pneumatic</b>						
5 6005 0010	1.6 HP, 51CFM @ 90 PSI	1-1/8"	0-2200	1/2" NPT (ID)	17-3/4"	10.75
<b>The SHARK – Hydraulic</b>						
5 1219 0010	2 HP, Oil Pressure 2000 PSI, Oil Flow 6 GPM (up to 13 GPM)		1700	M 18 x 1.5 Female		13.2

## Low Vibration/Low Air Volume – Compact, Quiet & Reliable

*Cut Pipe, Structural Steel, Sheet Metal, Fiberglass, Plastic and More*

*Workhorses for use in the fabrication, shipbuilding, ship repair, oil and petrochemical, boat building and aircraft maintenance fields, as well as by fire and rescue professionals*



- Piston air motors use low air volume while maintaining a cutting speed of 1200 to 2000 strokes per minute
- For use in hazardous areas and around gas and other flammable materials
- Heavy-duty cast steel and aluminum saw bodies; built-in motor lubrication
- Safety STOP/Isolator button disconnects air supply
- Variety of Cengar Air Saw blades available



### PL Series



### CL Series



*Optional inside trigger\* for hand-held use only. Add FT to Model No.*

Model No.	Trigger	Motor Power	Stroke Length	Strokes per minute	Dimensions (LxHxW)	Weight (lbs.)	CFM @ 90 PSI	Connection	Noise Level db(A)	Vibration Levels m/s <sup>2</sup>
PL905	Outside	1 HP	7/8"	2000	11 <sup>3</sup> / <sub>4</sub> " x 5 <sup>1</sup> / <sub>4</sub> " x 1 <sup>5</sup> / <sub>8</sub> "	5.25	4	1/2" NPT ID	69	1.73
CL50	Outside	1 HP	1-3/4"	1200	15 <sup>3</sup> / <sub>4</sub> " x 5 <sup>1</sup> / <sub>4</sub> " x 1 <sup>5</sup> / <sub>8</sub> "	5.5	5.75	1/2" NPT ID	83	3.69
CL75	Outside	1 HP	1-3/4"	1200	15 <sup>3</sup> / <sub>4</sub> " x 5 <sup>1</sup> / <sub>4</sub> " x 1 <sup>5</sup> / <sub>8</sub> "	5.5	5.75	1/2" NPT ID	83	3.69



# Reciprocating Saw Blades & Accessories

Super quick and precise for pipe, steel, plastic, etc.

## Extra-thick Blades for 90° Cutting with a Pipe Clamp, Double Shank\*

**Heavy-duty Blades** – These blades are much thicker than standard blades and have a stronger double-tang mount for heavy-duty cutting, either free-hand or with a clamp.

No. 1001	Cuts pipe up to 2"	8 TPI	6" L x 1" W x .060" T
No. 1002	Cuts pipe up to 4"	8 TPI	8" L x 1" W x .060" T
No. 007D/200*	Cuts pipe up to 4"	M-Tooth	8" L x 1" W x .050" T

\* 007D/200 has universal 1/2" tang



Ask for special blades to cut steel.

## Heavy-duty HSS-Bi-metal Blades for Freehand Sawing, Double Shank

Made of tough, resilient steel with 10/14 variable tooth pitch. Large blade width and double-shank mount deliver excellent cutting performance and durability.



No. 1005	10/14 TPI	6" L x 1" W x .035" T
No. 1003	10/14 TPI	8" L x 1" W x .035" T
No. 1004	10/14 TPI	12" L x 1" W x .035" T

## Mega Sharp M-Tooth Saw Blades for Freehand Cutting with Standard 1/2" Shank

**CUTS 2x FASTER THAN ORDINARY BLADES!** M42 Bi-metal for cutting steel and stainless steel  
The teeth of the Patented M-Tooth Sawblade cut on the forward and back strokes, saving time.

**Metal up to 1/8" Thick**

No. 006/150	M-Tooth	6" L x 3/4" W x .035" T
No. 006/200	M-Tooth	7" L x 3/4" W x .035" T

**Metal 1/8" and Thicker**

No. 007/150	M-Tooth	6" L x 3/4" W x .035" T
No. 007/200	M-Tooth	8" L x 3/4" W x .035" T
No. 007/280	M-Tooth	12" L x 3/4" W x .035" T



## Cengar Air Saw Blades

### 1/2" Wide Bi-metal Blades (CL50 / PL905)

HB300/18	Hand	18 TPI	12" L
HB300/24	Hand	24 TPI	12" L
HB300/32	Hand	32 TPI	12" L
MC220/18	Machine	18 TPI	8 3/4" L
MC220/24	Machine	24 TPI	8 3/4" L
MYN150/18	Notched Yellow	18 TPI	6" L
MYT150/18	Tapered Yellow	18 TPI	6" L

### 3/4" Wide Bi-metal Blades (CL75)

MB150/18	Machine	18 TPI	6" L
MB200/10-14	Machine	10/14 TPI	8" L
MB200/18	Machine	18 TPI	8" L
MB200/24	Machine	24 TPI	8" L
MB250/18	Machine	18 TPI	10" L
MB250/24	Machine	24 TPI	10" L
MB300/10-14	Machine	10/14 TPI	12" L
MB300/18	Machine	18 TPI	12" L



## AirPac Dryer/Cleaner

### Model CSAP-2

- Removes moisture and dirt from air lines; a float valve automatically ejects water and dirt
- Includes automatic oiler; protects tools from freezing in cold environments
- Eliminates air motor downtime caused by water and dirt
- Connections for two tools, max. air flow 185 CFM



#### Air Tool Lubricant

ProLube-ATL - P/N CS 7043-001 (gallon)

#### Air Tool Lubricant with Anti-Freeze

ProLube-ATL/AF - P/N CS 7049-001 (gallon)

#### Air Tool Line Conditioner/Cleaner

For use in underwater air tools – displaces moisture and inhibits rust and corrosion of air motors - P/N MS 9105 (quart)

## Hydraulic Power Unit

### Model P95

- Ideal for use with our hydraulic power tools.
- Delivers 5 GPM or 8 GPM at 2000 PSI
- Easy to move with lift and latch handle
- Weights 330 lbs.
- 18 HP gas engine



**The Hydraulic Power Unit is available with gas, electric or diesel engines. Contact us for more information.**

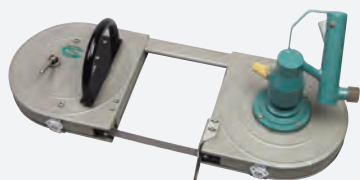
## Fast, on-site cutting of pipe up to 8-1/2" diameter

*Cold cutting saws for a wide range of industries, including refineries, chemical plants, utilities, construction, offshore oil, mining, marine and demolition*

### Pneumatic AirBand™ Saws



**Standard:**  
Cut 4 3/4" round or 4 1/2" x 4 3/4"



**Deep Throat™:**  
Cut 7" round or 7" x 7"

**Wide Mouth™:**  
Cut 8 1/2" round or 9" x 8"

### Electric Band Saws

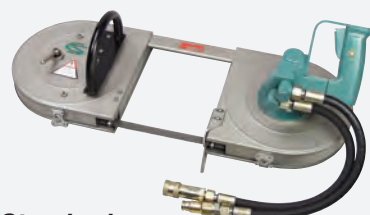


**Standard:**  
Cut 4 3/4" round or 4 1/2" x 4 3/4"

**Deep Throat™:**  
Cut 7" round or 7" x 7"

**Wide Mouth™:**  
Cut 8 1/2" round or 9" x 8"

### Hydraulic Band Saws



**Standard:**  
Cut 4 3/4" round or 4 1/2" x 4 3/4"

**Deep Throat™:**  
Cut 7" round or 7" x 7"

**Wide Mouth™:**  
Cut 8 1/2" round or 9" x 8"

- Fast, deep, cold cutting of pipe, conduit, bolts, cable, angle iron, structural steel, chain and more
- Cut steel, stainless steel, Inconel, chrome, Hastelloy, aluminum, copper, iron, fiberglass, plastics, wood and more



### Pneumatic Band Saws

Model No.	Cutting Capacity	Motor Power and Specs.	Air Connection (ID)	Air Hose	Wgt. (lbs.)
<b>Standard AirBand™ – Aluminum housing</b>					
5 6003 0010	4 3/4" OD / 4 1/2" x 4 3/4"	90 PSI @ 20 CFM	1/4" NPT	3/8"	14
<b>Deep Throat™ AirBand – Stainless Steel housing</b>					
5 6031 0010	7" OD / 7" x 7"	90 PSI @ 43 CFM	1/2" NPT	1/2"	8
<b>Wide Mouth™ AirBand – Stainless Steel housing</b>					
5 6062 0010	8 1/2" OD / 9" x 8"	90 PSI @ 43 CFM	1/2" NPT	1/2"	35

### Electric Band Saws

6 Amp, 110VAC

Model No.	Cutting Capacity	Wgt. (lbs.)
<b>Standard – Aluminum housing</b>		
5 6046 0010	4 3/4" OD / 4 1/2" x 4 3/4"	14
<b>Deep Throat™ – Stainless Steel housing</b>		
5 6040 0010	7" OD / 7" x 7"	28
<b>Wide Mouth™ – Stainless Steel housing</b>		
5 6079 0020	8 1/2" OD / 9" x 8"	34

### Hydraulic Band Saws

1.6 HP; Oil Flow: 4 GPM @ 2000 PSI  
1/2" FF (HTMA) Couplings

Model No.	Cutting Capacity	Wgt. (lbs.)
<b>Standard – Stainless Steel housing</b>		
5 6043 0010	4 3/4" OD / 4 1/2" x 4 3/4"	23
<b>Deep Throat™ – Stainless Steel housing</b>		
5 6041 0010	7" OD / 7" x 7"	28
<b>Wide Mouth™ – Stainless Steel housing</b>		
5 6054 0010	8 1/2" OD / 9" x 8"	35.6

### M42 Cobalt Steel SuperBand™ Saw Blades

<b>Blades for standard saws</b> (Model Nos. 5 6003 0010, 5 6046 0010 and 5 6043 0010) Blade dimensions: 44 7/8" L x 1/2" W x .025" T	No. 9 2506 0010	18 TPI	Cuts material 1/8" - 1/4" thick
	No. 9 2506 0020	14 TPI	Cuts material 3/16" - 1/2" thick
	No. 9 2506 0030	10/14 TPI*	Cuts material 3/16" - 1/2" thick
	No. 9 2506 0040	8/12 TPI*	Cuts material 1/2" and thicker
<b>Blades for Deep Throat™ saws</b> (Model Nos. 5 6031 0010, 5 6047 0010 and 5 6041 0010) Blade dimensions: 66" L x 5/8" W x .025" T	No. 9 2506 0220	14 TPI	Cuts material 3/16" - 1/2" thick
	No. 9 2506 0230	10/14 TPI*	Cuts material 3/16" - 1/2" thick
	No. 9 2506 0240	8/12 TPI*	Cuts material 1/2" and thicker
	No. 9 2506 0200	8 TPI	Cuts material 3/4" and thicker
<b>Blades for Wide Mouth™ saws</b> (Model Nos. 5 6062 0010, 5 6099 0020 and 5 6054 0010) Blade dimensions: 71" L x 5/8" W x .025" T	No. 9 2506 0350	10/14 TPI*	Cuts material 3/16" - 1/2" thick
	No. 9 2506 0340	8/12 TPI	Cuts material 1/2" and thicker
	No. 9 2506 0330	6/10 TPI	Cuts material 3/4" and thicker



\* Variable tooth pitch (10/14 TPI and 8/12 TPI) saw blades cut faster and last longer than standard pitch blades. Varying tooth size and gullet depth reduce harmonic vibration for quieter, more efficient cutting.

### Vise Clamps for Accurate Cuts • Securely clamp to round, square and angular materials for straight cutting

**Model No. 5 6030 9000**  
Clamp-on vise for 4-3/4" Band Saws  
Max. material size – rounds: 4 3/4";  
squares: 4 1/2"; angles: 4 1/2"

**Model No. 5 6031 9400**  
Clamp-on vise for 7" Deep Throat™ Band Saws  
Max. material size – rounds: 7"; squares: 5";  
angles: 5"

**Model 5 6031 9400**  
with Band Saw





## Cold cutting of large pipe up to 30" diameter and structural steel – on site

*Ideal for a wide range of industries, including refineries, chemical plants, utilities, construction, offshore oil, mining, marine and demolition*

- Cold cutting of large pipe, structural steel, tanks, profiles and more
- Compact size for cutting in confined spaces
- Accessories include wide variety of heavy-duty blades and clamps for 90° cuts



### Model 5 1212 0050

**AIR**



### Model 5 1215 0070

**ELECTRIC**



### Model 5 1220 0050

**HYDRAULIC**



Model Number	Power	Throttle	Motor Specifications	Strokes per Min.	Blade Stroke	Hose	Weight (lbs.)
Pneumatic – 3/4" ID NPT Air Connection							
5 1212 0010	1.5 HP	Roll	Air Consumption: 51 CFM	100-350	2 <sup>3</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	15.4
5 1212 0050	1.5 HP	Lever	Air Pressure: 90 PSI	100-350	2 <sup>3</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> "	15.4
Electric – 11 Amps / 110 Volt <i>(Also available as 220 Volt/50 Hz)</i>							
5 1215 0070	1.5 HP	Trigger	110V/60 Hz	200-400	2 <sup>3</sup> / <sub>8</sub> "	Cable	13
Hydraulic – 1/2" FF (HTMA) Couplings							
5 1220 0050	3.8 HP	Lever	Oil Flow: 4 GPM at 2000 PSI	100-500	2 <sup>3</sup> / <sub>8</sub> "	1 <sup>1</sup> / <sub>2</sub> " ID	13.5

## Hacksaw Accessories

### Hacksaw Blades – 8" to 37" length

Order No.	Dimensions			Material	Max. Dia. of Cut
	Length	Teeth/Inch	Thickness		
Z22-9 HSS	8"	8	1/16"	Steel/Alum.	3 1/8"
Z22-10 HSS	8"	16	1/16"	Steel	3 1/8"
Z22-11 HSS	8"	24	1/16"	Sheet Metal	3 1/8"
Z22-6 HSS	12"	16	1/16"	Steel	6 5/8"
Z22-6 HSS-SL*	12"	16	1/16"	Stainless Steel	6 5/8"
Z22-31 HSS	12"	12	1/16"	Steel	6 5/8"
Z22-7 HSS	16"	16	1/16"	Steel	10 5/8"
Z22-29 HSS	16"	8	1/16"	Steel/Alum.	10 5/8"
Z22-33 HSS	16"	6	1/16"	Cast Iron	10 5/8"
Z22-72 HSS	20"	14	5/64"	Steel	14 5/8"
Z22-30 HSS	21"	12	1/16"	Steel	15 5/8"
Z22-30 HSS-SL*	21"	12	1/16"	Stainless Steel	15 5/8"
Z22-73 HSS	24"	14	5/64"	Steel	18 1/2"
Z22-74 HSS	24"	8	5/64"	Steel/Alum.	18 1/2"
Z22-75 HSS	30"	12	5/64"	Steel	24 7/8"
Z22-75 HSS-SL*	30"	12	5/64"	Stainless Steel	24 7/8"
Z22-76 HSS	30"	6	5/64"	Cast Iron	24 7/8"
Z22-37 HSS	37"	12	5/64"	Steel	31 7/8"

### Hacksaw Clamps and Guide

Model No.	Cutting Dia.	Clamp Type
5 1207 9910	2" to 6"	Pipe Clamp
5 1202 9960	4" to 12 3/4"*	Pipe Clamp
5 1207 8910	Up to 21"	Blade Guide
5 1207 8970	21 5/8" x 11 3/8"	Profile Clamp
5 1208 9980	Up to 12 3/4"*	Automatic - Self-feeding Clamp (for pneumatic saws)
5 1208 9990	Up to 12 3/4"*	Automatic - Self-feeding (for electric and hydraulic saws)



**Model 5 1202 9960 Pipe Clamp for 4" to 12 3/4" dia. \***



**Model 5 1208 9980 Self-feeding Pipe Clamp for up to 12 3/4" dia. pneumatic saws\***



**Model 5 1208 9990 Self-feeding Pipe Clamp for up to 12 3/4" dia. electric and hydraulic saws\***

\* Use HSS-SL Blades for best cutting performance on stainless steel and hard metal. Blades for plastic, wood and masonry also available.

\* Cut up to 30" OD with two extension chains (order 2x P/N 5 1201 9030)

# Pipe Cutting Machine

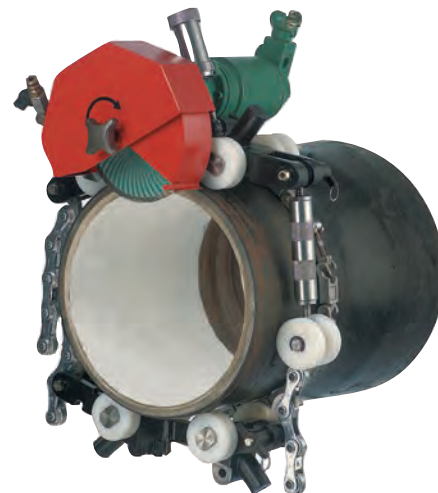
## Cut pipe up to 63" dia. with wall thickness to 2"

*Ideal for use in municipal, water, utilities, refinery, marine, petrochemical, power generation, industrial plant maintenance, pipe line construction and demolition applications.*

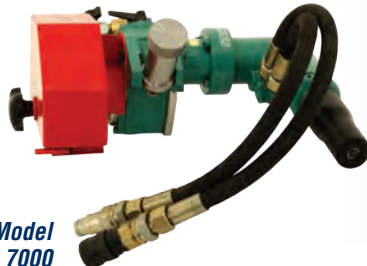
- Heavy-duty, versatile air and hydraulic pipe cutting machines
- Cut pipe from 12" to 63" dia. with wall thicknesses from 1/4" to 2"
- Use on ductile iron, steel, non-ferrous metal, PVC, plastic, cement pipe and more
- 2-speed motors operate at 350 and 1800 RPM
- Machine is manually guided with hand lever feed to make a 360° cut in pipe
- Guide chain is adjustable by adding and removing chain links
- ATEX certified under class II 2 GcT6 for use in industrial zones where flammable gas, vapor, mist and dust may be present and where surface temperatures do not exceed 185°F/85°C
- 7" blade with adjustable cutting depth

**ATEX Certified**

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



**Pneumatic Model  
No. 5 8010 0050**



**Hydraulic Model  
No. 5 8006 7000**

### Features include:

- Adjustable cutting depth
- Blade guard
- Cooling water connection
- Carbide-tipped or diamond-coated blades (sold separately)



*When ordering, specify pipe diameter and application for assistance with determining required blade, feed handle, guide carriage & chain and tensioning chain & tensioner.*

Model Number	Power	Blade Arbor	Motor Specifications	Speed (RPM)	Blade Dia.	Hose Connection	Weight (lbs.)
<b>Pneumatic Motor</b>							
5 8010 0050	4 HP	7/8"	77 CFM @ 90 PSI	1800	7"	3/4" NPT	28
<b>Hydraulic Motor – 1/2" FF (HTMA) Couplings</b>							
5 8006 7000	4 HP	7/8"	6-13 Gallons @ 2000 PSI	350/1800	7"	1/2" FF (HTMA)	28



## Pneumatic Chain Saws – Powerful, efficient cutting of wood and plastic

*Used successfully for many years in petrochemical industries, marine applications, utilities, underground mines and polyethylene plants*

**Saws available with 10", 15", 17", 21" and 25" bar lengths**

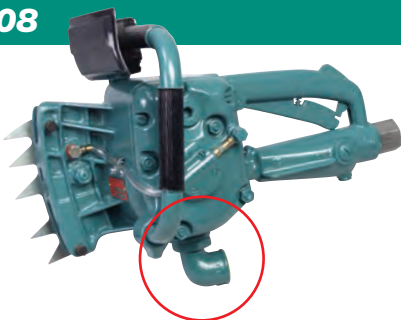
- Pneumatic power is safer than gas or electric in hazardous atmospheres and wet environments, including underwater applications
- Low maintenance and easy startup – saw chain and motor are automatically oiled by two separate lubricating systems
- Powerful 4 HP motors at 90 PSI air pressure, 92 CFM
- Standard with .404 pitch Super Chisel saw chain
- Optional carbide-tipped and ripping saw chain available



**Series 5 1007**

### Series 5 1008

*Includes exhaust valve and chain guard to protect operator.*



### Series 5 1026, 5 1027 & 5 1028

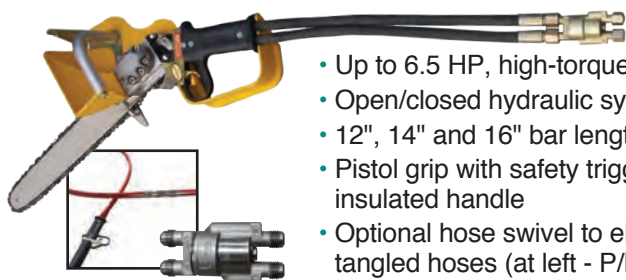
*Includes chain brake to stop chain during kickback or for repositioning saw during cutting.*



Model Number	Motor Specifications	Cutting Capacity	Length with Bar	Air Connection	Hose ID	Weight (lbs.)
<b>5 1005 Series – Utility Air Chain Saw - Compact, Lightweight and Powerful</b>						
5 1005 0010	1.2 HP, 30 CFM @ 90 PSI	10"	21"	1/4" NPT (ID)	3/8"	5.4
<b>5 1007 Series – General Use Air Chain Saw with Chain Guard (15", 17", 21" and 25" bar lengths available)</b>						
5 1007 0010	4 HP, 92 CFM @ 90 PSI	17"	33"	3/4" NPT (ID)	5/8"	25
5 1007 0040	4 HP, 92 CFM @ 90 PSI	25"	41"	3/4" NPT (ID)	5/8"	31
<b>5 1008 Series – Underwater Air Chain Saw with Chain Guard (15", 17", 21" and 25" bar lengths available)</b>						
5 1008 0030	4 HP, 92 CFM @ 90 PSI	21"	37"	3/4" NPT (ID)	5/8"	29
5 1008 0040	4 HP, 92 CFM @ 90 PSI	25"	41"	3/4" NPT (ID)	5/8"	31
<b>5 1026 Series – Cutting Wood, with Brake (17", 21" and 25" bar lengths available)</b>						
5 1026 0010	4 HP, 92 CFM @ 90 PSI	17"	33"	3/4" NPT (ID)	5/8"	25
<b>5 1027 Series – Cutting Plastic, with Brake and Water Feed System (17", 21" and 25" bar lengths available)</b>						
5 1027 0020	4 HP, 92 CFM @ 90 PSI	21"	37"	3/4" NPT (ID)	5/8"	28
<b>5 1028 Series – Underwater Air Chain Saw with Brake (17", 21" and 25" bar lengths available)</b>						
5 1028 0040	4 HP, 92 CFM @ 90 PSI	25"	41"	3/4" NPT (ID)	5/8"	31

## Hydraulic Pistol Grip Chain Saws

*Ideal for use in utilities, subsea, mines, construction and agriculture*



- Up to 6.5 HP, high-torque gear motor
- Open/closed hydraulic system
- 12", 14" and 16" bar lengths available
- Pistol grip with safety trigger lock and insulated handle
- Optional hose swivel to eliminate tangled hoses (at left - P/N 640080)

### Model ACH000-12 Pistol Grip Saw

Motor Power	Up to 6.5 HP Oil Flow: 3-8 GPM @ 2000 PSI
Handle	Pistol Grip
Overall Length	23" (with bar)
Bar Length	12" (14" and 16" optional)
Weight	5.8 lbs.
Hose Connection	3/8" JIC 37°

*For 14" bar, order no. ACH000-14*

*For 16" bar, order no. ACH000-16*

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

### Grinders - Hydraulic

- 1 1580 0060 Underwater Hydraulic Horizontal Grinder, 1.3HP, 7000 RPM, Twist throttle, straight grinding wheels
- 1 1585 0010 Underwater Hydraulic Angle Grinder, 1.3HP, 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, 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
- 2 1335 0010 Underwater Pneumatic Core Drill, 3" max. dia., 3.8 HP, 300/700/1350 RPM

### Impact Wrenches - Hydraulic and Pneumatic

- 6 1316 0070 3/4" Air Impact Wrench, 1-1/8" (M 30) max. bolt size, 995 ft-lbs. torque
- 6 1316 0060 1" Air Impact Wrench, 1-1/8" (M 30) max. bolt size, 995 ft-lbs. torque
- 6 1515 0010 3/4" Hydraulic Impact Wrench, 1" (M 27) max. bolt size, 1220 ft-lbs. torque
- 6 1520 0010 1" Hydraulic Impact Wrench, 1-3/8" (M 36) max. bolt size, 1840 ft-lbs. torque



### Other Underwater Tools Available:

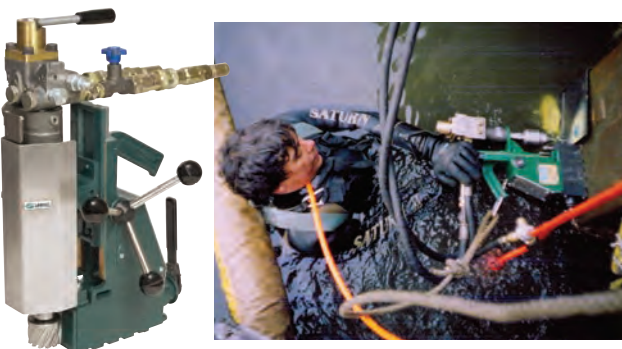
**Woodboring Drills - Pneumatic** See page 26

**Reciprocating Saws - Hydraulic and Air** See page 32

**Hacksaws - Hydraulic** See page 35

**Chain Saws - Air and Hydraulic** See page 37

**Portable Magnetic Drills - Hydraulic** See page 21



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





# Axial Fans and Air Movers Pneumatic • Electric

**Highly efficient, explosion-proof units for ventilating, exhausting and cooling**

*Ideal for 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.**



**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



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

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



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



**W 70 6" dia. Pneumatic Air Mover**  
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 50Hz 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

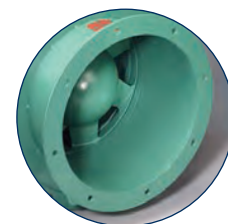
**Optional Axial Fan Accessories include:**

**Mounting Flanges** for fitting fans to flanged pipes for suction or discharge (shown at right)

**Protective Grilles** for use on non-ducted fans

**Antistatic Items** including Connectors, Quick-Seal Couplings and Plastic Ducting

**Contact CS Unitec for more information.**



# Linear Grinder and Angle Grinder

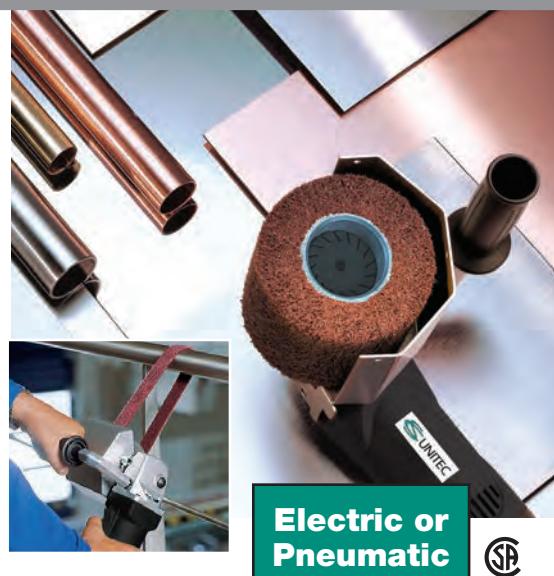
## PTX Eco Smart Linear Grinder

*The professional surface finisher for hard, continuous use*

- Multifunctional grinding and polishing system for flat surfaces and open or closed pipe constructions
- Grind from coarse to shadow-free matte finish, up to a mirror polish
- Remove welds, deep scratches, oxidation and rust
- Ideal for stainless steel, steel and nonferrous metals including aluminum, brass, bronze and copper, as well as wood and rigid plastic
- Complete line of grinding wheels, belt sleeves, special brushes, polishing and maintenance abrasives available



**Abrasive mounting system saves time, reduces cost and eliminates vibration!** No-tools changeover of grinding and polishing wheels – wheels and accessories slide onto the finned, rubber shaft and secure themselves when machine turns. A wide selection of hollow-core slip-on abrasives is available for the PTX Eco Smart.



### PTX Eco Smart Specifications

Order Number PTX ECO SMART	
Power	15 Amp (1710 Watts), 110 V / 60 Hz (230 V / 60 Hz available)
Variable Speed	Variable speed control from 1000 to 3800 RPM with tachogenerator for constant speed, even under load
Speed Control Dial	With fine adjustment for using abrasives at optimum efficiency
Wheel Width	up to 4" (or 6" wide abrasives)
Wheel Dia.	up to 4-1/2"
Weight	7.25 lbs. (3.3 kg)

## VARILEX® WSF 1800 Angle Grinder

*The most powerful speed-controlled angle grinding tool in its class*



- Change discs in seconds, without tools
- Variable speed control allows for exceptional performance at low RPM – without motor overheating or burnout
- Complete line of flap discs, cutting wheels, polishing and maintenance abrasives available

### PLANTEX®

Hightech-Compound

PLANTEX® discs are made of 100% pure zirconium with hemp fiber backing plate

- Self-trimming during grinding process
- No fiberglass, mineral compounds or epoxy resin
- High shape stability while maintaining elasticity



FIX Hook & Loop System Kits available. Kit includes a range of 4-1/2" discs and polishing compounds. Contact CS Unitec for more information.



### VARILEX® WSF 1800 Specifications

Order Number 65000A	
Power	15 Amp (1710 Watts), 110 V / 60 Hz (230 V / 60 Hz available)
Variable Speed	Infinitely adjustable from 2000 to 7600 RPM
Diameters	4" to 7"
Spindle Thread	5/8"-11 UNC
Arbor Size	7/8"
Weight	6.2 lbs. (2.8 kg)



# Pipe Sanders

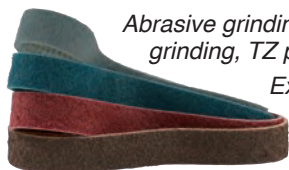
## PIPE-MAX Pipe Belt Grinder

**Combination pipe belt sander and grinder for diameters up to 14"**

- Sand pipes from small to large diameter, up to 14"
- Follows handrail contours to grind and polish up to a high-gloss finish
- Remove weld seams from flat surfaces, leaving no edges
- Ideal for stainless steel, aluminum and high-quality metals
- Powerful 15 Amp motor and variable-speed control from 950 to 3500 RPM (3/4HP pneumatic model available)
- Complete line of grinding wheels, belt sleeves, special brushes, polishing and maintenance abrasives available



**Electric or Pneumatic**



*Abrasive grinding, surface conditioning fleece, ceramic grinding, TZ pyramid and Super Polish belts available.*

*Exact belt size is 40mm x 780mm (1.5" x 30.7").*

*Contact CS Unitec for more information.*

### PIPE-MAX Specifications

Order Number 38502A	
Power	15 Amp (1710 W) 110V (220 V also available)
Belt Size (LxW)	30.7" x 1.6"
Belt Speed	33 - 100 ft./sec.
Pipe ø max.	14"
Weight	11.25 lbs.

## LRP 1503 Boa Pipe Grinder

**All-around polishing solution for handrails, pipe and tubing**

The LRP 1503 Boa Pipe Sander is the perfect solution for sanding and polishing pipe constructions. The sanding arm snakes up to 270° around the radius of the pipe. The operator simply rotates the BOA slightly to achieve a full 360° finish. Spring resistance between the deflection rollers ensures that the sanding arm and belt are always uniformly tensioned. The BOA saves time finishing stainless steel and other ferrous and nonferrous pipe.

- Variable-speed control; 12 to 40 ft./sec. belt speed
- Maximum pipe Ø : 5" diameter
- Quick, tool-free replacement of sanding belt
- High-quality 270° sanding arm is made of light alloy with two deflection rollers for quick progress, perfect finish and simple operation
- Additional side handle can be rotated 180° in narrow spaces



**Electric or Pneumatic**



### Boa Pipe Sander Specifications

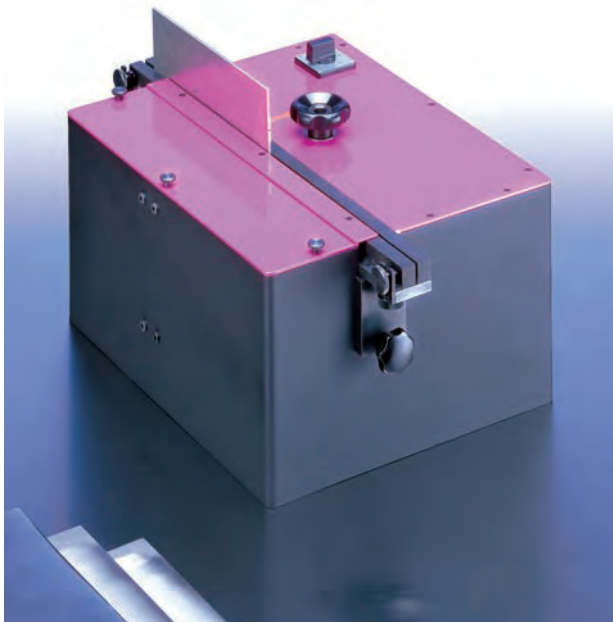
Order Number LRP 1503 VRA	
Power	11 Amp
Belt Size (LxW)	30" x 1-1/2" or 3/4"
Belt Speed	12-40 ft./sec.
Pipe ø max.	5"
Weight	8.2 lbs.

#### **Pneumatic Model: LRP 1503 AIR**

- 1 HP motor
- 28 ft./sec/ belt speed
- 20 CFM @ 90 PSI air consumption

# Metal Deburring Machines

## ROLEI® BE 5 Sheet Metal Deburring Machine – 2 Speeds



Double-sided deburring of sheet metal up to 0.2" thick can be achieved in a single operation with no additional treatment. The machine's flap wheels can be easily adjusted as they wear. One set of wheels lasts for approximately 6500 feet of stainless steel sheet. Supplied standard with two 80 grit flap wheels, the ROLEI® BE 5 can be used with other optional grits to suit the facet width and materials of your particular application.

### Features two-speed operation:

Speed 1: fine deburring, 600 RPM

Speed 2: standard deburring, 1200 RPM

### Optional accessories:

- Spare flap wheels (40, 60, 80, and 120 grit)
- Machine stand, made from strong steel
- Port for industrial dust extractor (part no. 30330)

### ROLEI BE 5 Specifications

**Order Number: 30310A (220 Volt)  
30310 (380 Volt)**

3-phase motor	220 - 240 V 3-phase / 2 speeds .2 KW / .9 Amp 380 V 3-phase / 2 speeds .2 KW / .45 Amp
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Dimensions	19.7" x 12.8" x 7.9"
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Weight	64 lbs.
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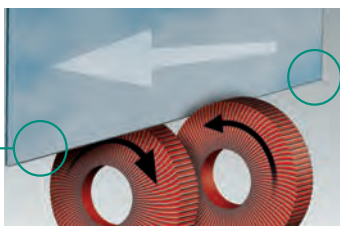
Options	Machine stand, dust extractor connection port, teflon tape
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### ROLEI BE 5 Flap Wheels

Part No.	Grit	Quantity
37040	40	2 discs per pack
37060	60	2 discs per pack
37080	80	2 discs per pack
37120	120	2 discs per pack



Can also be used on its side with roller tables for large thin sheets.



## ROLEI® EF 115 Hand-held Deburring and Faceting Machine

This handy deburring machine is designed for awkward, heavy parts, such as machine tables, frame constructions or large sheets of metal. Easy to handle, with good edge control. The EF 115 is also ideal for chamfering welds. Fixed beveling angle of 45°, infinitely adjustable facet width from 0" to 3/8".



### ROLEI EF 115 Specifications

**Order Number: 30116**

Universal motor	12.27 Amp (1350 W) 110 V / 60 Hz (230 V / 50 Hz, 1600 W also available)
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Speed	Infinitely adjustable from 2,000 to 7,600 RPM
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Weight	9 lbs.
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Options	Sliding guide rail, plastic (P/N 30117, 2-piece set)
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### ROLEI EF 115 Flap Discs

Part No.	Grit	Quantity
21050A	50	10 discs per pack
21060A	60	10 discs per pack
21080A	80	10 discs per pack
21120A	120	10 discs per pack



# Metal Deburring Machines

## ROLEI® EF 165 Beveling and Deburring Machine

*For facets at an angle of 45°*

Beveling and deburring machine with a fixed beveling angle of 45° and an infinitely adjustable beveling width from 0" to 3/8" for all metals from stainless steel to aluminum. Precise adjustment of the face width using a hand wheel.

### ROLEI EF 165 Specifications

Order Number: 30101 (220 Volt)  
30100 (380 Volt)

Motor	220 V, single-phase or 380 V, 3-phase
Dimensions	14" x 13" x 12"
Support table	5" x 13"
Weight	40 lbs.
Options	Table extension, machine stand, extraction port for dust extractor connection

*For spare flap discs, see PEF 500 below.*



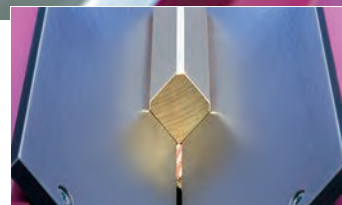
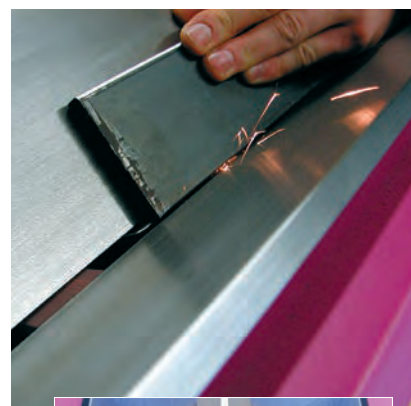
## ROLEI® PEF 500 Beveling and Deburring Machine

*For facets at angles of 30° and 60°*

Precision beveling and faceting machine for all metals from stainless steel to aluminum. Infinitely adjustable beveling angle from 30° to 60° and infinitely adjustable face width from 0" to 3/8" (precise adjustment using knob).

### Optional accessories:

- Extraction port for dust (P/N 30230)
- Sliding feed plate, plastic (P/N 30210)
- Spare flap discs (see below left)



*Parts are beveled with perfect cross-grinding – absolutely no opposite burr.*

### ROLEI PEF 500 Specifications

Order Number: 30201 (220 Volt)  
30200 (380 Volt)

Motor	220 V, single-phase or 380 V, 3-phase
Dimensions	20" x 14" x 14"
Weight	88 lbs.
Options	Machine stand, extraction port for dust extractor connection

### ROLEI EF 165 and PEF 500 Spare Flap Wheels

Part No.	Grit
36060	60
36080	80
36120	120

# Also Available from CS Unitec

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

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

For tool specifications and ATEX and Ex Zone information, visit [www.csunitec.com](http://www.csunitec.com).

Call 1-800-700-5919 or 203-853-9522 to request any of the catalogs shown below.

**UNITEC ... the power of innovation!®**



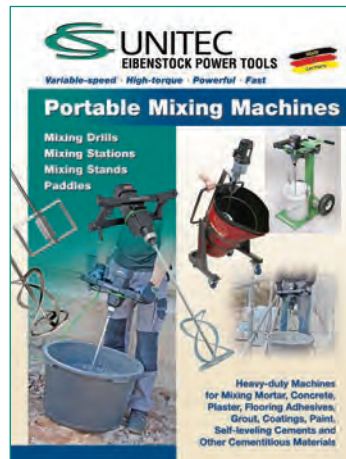
View demo videos at [www.csunitec.com](http://www.csunitec.com)



**Concrete Tools:**  
Surface Preparation Tools, Concrete Grinders, Dust Collection Systems, Diamond Core Drills, Air Concrete Saws and more



**Metalworking Tools:**  
Surface Preparation Tools, Dust Collection Systems, Dry Cutting Portable Saws, Portable Magnetic Drills, Bridge Reamers and more



**Portable Mixers:**  
Portable Mixing Machines for Mortar, Concrete, Plaster, Flooring Adhesives, Grout, Coatings, Paint, Self-Leveling Compounds and more



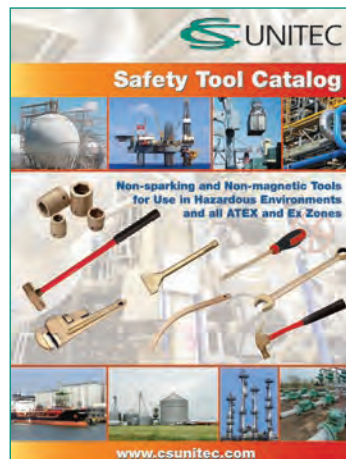
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Hacksaws, Reciprocating Saws, Band Saws, Chain Saws, Cut-off Saws and more



**Portable Magnetic Drills:**  
Magnetic Drills & Accessories, Hand-held Drills and Drive Units, Nut Runners, Hammer Drills and more



**Surface Finishing Tools:**  
High-performance tools and accessories for grinding, sanding, polishing, deburring and beveling stainless steel, steel, nonferrous metals, wood and more



**Non-Sparking Hand Tools:**  
Non-sparking Hand Tools, Power Tools for use in Ex Zones, ATEX Zones and Hazardous Environments



**Concrete & Masonry Tools:**  
Power tools for the professional contractor to drill, cut, grind and smooth concrete, masonry, wood, drywall and more - includes dust collection tool systems

# UNITEC

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