

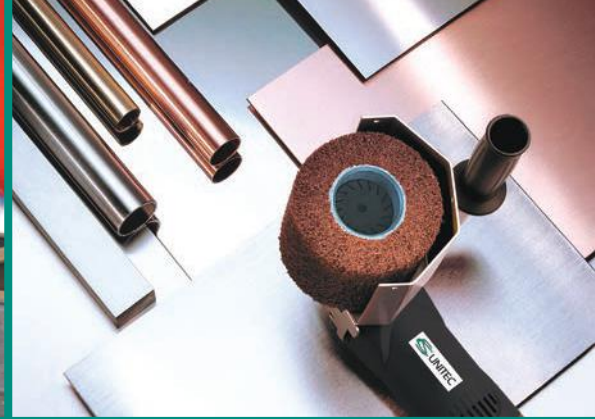


High-Performance Power Tools & Accessories

**ELECTRIC • PNEUMATIC
HYDRAULIC • GAS**
...the power of innovation!®

Metalworking Tools & Accessories

for Fabricating & Finishing



- Portable Saws**
- Surface Finishing**
- Surface Preparation**
- Magnetic Drills**
- Annular Cutters & Cutting Tools**
- Drills & Drive Units**
- Flap Discs**



UNITEC *Metalworking Tools*

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Surface Finishing Tools and Accessories

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Safety Guidelines

Use all products according to the safety regulations of OSHA and directives by ANSI (American National Safety Institute) B7.1, European DIN EN 13743 and all other applicable international safety standards.

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 up to 8x 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.



Low-Vibration Steel Deck Hammer (Pneumatic) p. 6

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

Hand-Held Scaling Hammers (Pneumatic) p. 7

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



Needle and Chisel Scalers (Pneumatic) p. 8-14

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

Long-Reach Chisels / Scrapers / Scalers (Pneumatic) p. 15

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



Floor Scarifiers (Electric • Pneumatic • Gas) p. 16-17

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

Hand-Held Scarifiers – Rotopeen™ (Pneumatic) p. 18

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



Trident Neptune Flexible Shaft Deck Descalers (Electric) p. 19

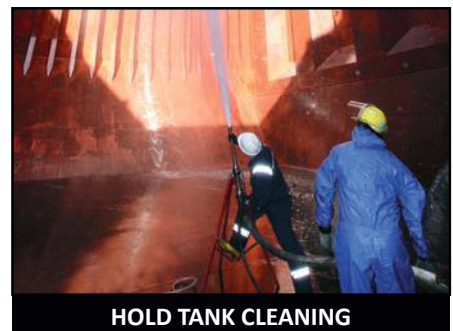
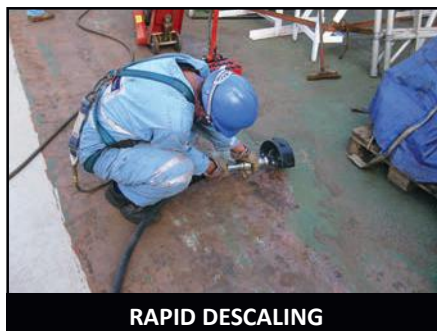
- Rapidly remove scale, rust, paint and other unwanted deposits on ship decks and other metal surfaces

Dust Collection Vacuums (Electric • Pneumatic) p. 21

- 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 for Small and Large Areas



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 ATEX model beryllium copper replacement heads to reduce risk of explosion in potentially hazardous areas
- Replaceable taper fit cutter head reduces cost of replacement and extends piston life
- Vacuum shroud reduces hazardous and nuisance dust when used with dust collectors

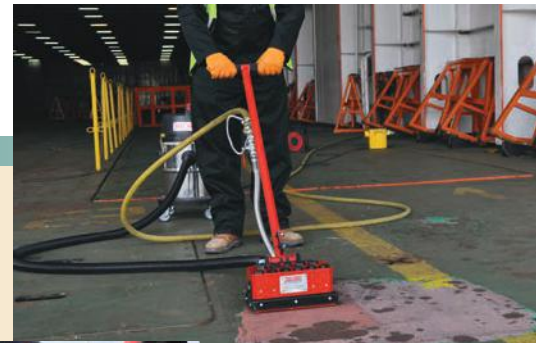


11 heads provide 33,000 BPM (11 x 3000 BPM)

Applications Include:

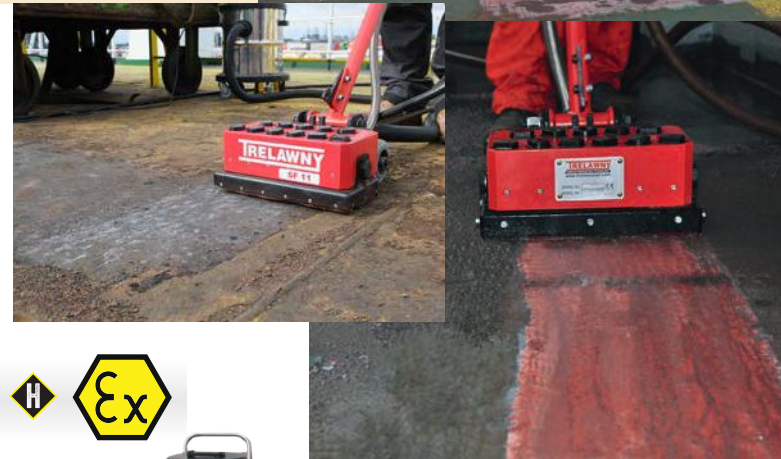
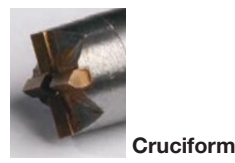
- Ship Decks
- Tank Tops
- Bridge Decks
- Floating Platforms

CS Unitec's Trelawny™ ScaleForce Eleven Pneumatic Deck Hammer operates with 8x 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



Copper Beryllium for use in potentially explosive areas



See page 21 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	Motor Specifications	Cutting Width	Blows per Minute	Dimensions (WxH)	Noise Level dB(A)	Vibration Levels m/s ²	Weight (lbs.)
SF11 with Cruciform Heads and Dust Shroud							
159.5910	70 CFM @ 90 PSI	10"	33,000	11.1" x 47.6"	113.1	5.76	83
SF11 (with ATEX certification) Copper Beryllium (CuBe) Heads							
159.5930	70 CFM @ 90 PSI	10"	33,000	11.1" x 47.6"	113.1	5.76	83



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



Applications Include:

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



Pneumatic Hand-Held Scaling Hammers

- Air consumption @ 90 PSI – Single Head: 7 CFM; Triple Head: 11 CFM
- Noise level – 88.1 dB(A) to 92.7 dB(A)

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

Service kits available. Visit our website for more information.



CS Unitec's Trelawny™ Single-Head Hand-Held scaler operates with 8x less vibration than standard models. This tool utilizes vibration damping components to offset the hammer vibration created when the head impacts the workpiece.

Hand-Held Scaling Hammer Accessories

Part No.

TCT Cruciform Cutter Head	426.5351
Copper Beryllium (CuBe) Cruciform Cutter Head	606.5303
TCT Bush Cutter Head	426.5352
Common Tapered Piston	612.5301
Single-Piece Steel Piston with Cruciform Head	612.5305



SCAN TO SEE FULL PRODUCT DETAILS



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
- High-strength, long-lasting 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



1B

Inline Grip



2B



2B Combination Kit
See next page for more information.



2BPG

Pistol Grip



3BPG

Grip	Description	Model Number	Needle Qty (3 mm)	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level dB(A)	Vibration Levels m/s ²
Inline	1B Needle Scaler	111.1099	12	3.5	3800	3	110.4	8.5
	2B Needle Scaler	121.2099	19	5.75	3000	5.5	113.3	9.3
Pistol	2BPG Needle Scaler	123.2199	19	5.75	3000	5.5	113.3	12.6
	3BPG Needle Scaler	133.3199	28	8.25	2200	8.0	114.5	18.9



Service kits available. Visit our website for more information.



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 418.2200

Model 3BPG Needle Scaler – Order Dust Shroud P/N 418.3040



Needle options – see page 14 for the following types of needles:

Chisel	Flat	Pointed	Copper Beryllium	Stainless Steel
light surface marking	light treatment and polishing effect	very hard scale	use in potentially explosive areas ⚠	use in applications where corrosion or humidity is a problem, such as the food processing industry

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 21 for dust collection systems).



Grip	Description	Model Number	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level dB(A)	Vibration Levels m/s ²
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	105.1	19.9

Service kits available. Visit our website for more information.

Heavy-Duty Chisel Scalers

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

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

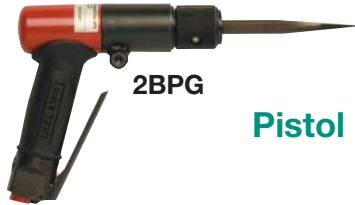
Inline Grip



1B



2B



2BPG

Pistol Grip



3BPG



Grip	Description	Model Number	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level dB(A)	Vibration Levels m/s ²
Inline	1B Chisel Scaler	114.1200	3.3	3800	3	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	105.1	25.6
	3BPG Chisel Scaler*	135.3395	6.2	2200	8	105.1	25.6



* 3BPG Chisel Scaler 135.3395 has 5/8" hexagonal chisel holder and is compatible with chisels shown on page 15. All others Chisel Scalers shown above have 1/2" square shank. Service kits available. Visit our website for more information.



2B & 2BPG Combination Kits


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

Pistol Grip Kit includes 2BPG Needle Scaler, 19 (3mm) needles, 3/4" width chisel and allen wrench. P/N 199.3121



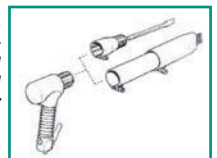
Chisels for Standard Chisel Scalers

1/2" Square Shank

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 Scalers and Chisel Scalers 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 – 8x less than standard models

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 8x 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



Scan To Learn More

ATEX-Certified Needle Scalars available for hazardous environments and Ex Zones. See page 13 for details.

Needle Scalars and Chisel Scalars convert in seconds with optional head or when purchased as a Kit. See page 12 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

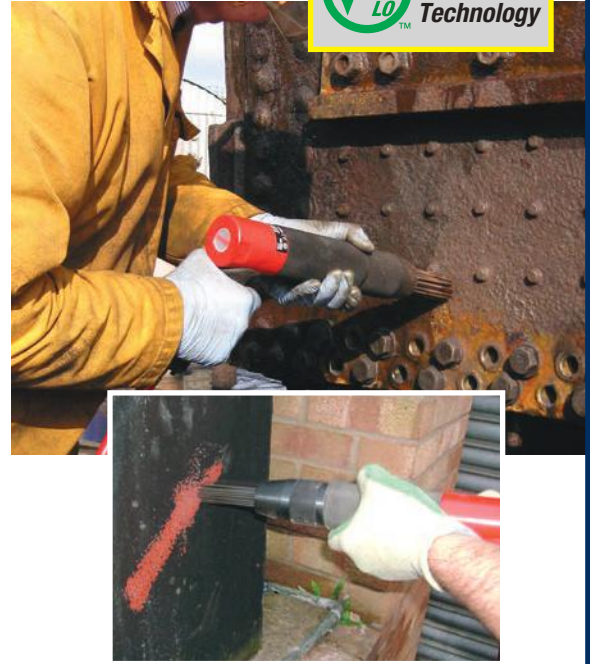


Heavy-Duty Low-Vibration Needle Scalers



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



Needle Scalers and Chisel Scalers convert in seconds with optional head or when purchased as a Kit. See page 12 for Kit information.

Grip	Description	Model Number	Needle Qty (3 mm)	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level dB(A)	Vibration Levels m/s ²
Inline	VL223 Needle Scaler	199.2103	19	5.25	2400	4	90.7	2.56
	VL223 Needle Scaler w/ dust shroud	199.2313	19	5.25	2400	4	90.7	2.56
Pistol	VL203 Needle Scaler	199.2003	19	6	2400	4	90.7	2.75
	VL203 Needle Scaler w/ Dust Shroud	199.2303	19	6	2400	4	90.7	2.75
	VL303 Needle Scaler	199.3003	28	7.75	3000	5.5	109.5	2.30
	VL303 Needle Scaler w/ Dust Shroud	199.3005	28	7.75	3000	5.5	109.5	2.30

Service kits available. Visit our website for more information.

Needle options – see page 14 for the following types of needles:

Chisel	Flat	Pointed	Copper Beryllium	Stainless Steel
light surface marking	light treatment and polishing effect	very hard scale	use in potentially explosive areas	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.

- VL223 Needle Scaler – Dust Shroud P/N 418.2003
- VL203 Needle Scaler – Dust Shroud P/N 418.2003
- VL303 Needle Scaler – Dust Shroud P/N 418.3003



See page 21 for dust extraction systems.

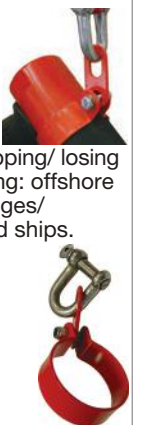
Drop Protection Kit

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.

VL223 and VL203
Order P/N 720.2003*

VL303
Order P/N 720.3003*

* Safety clip and line not supplied



Heavy-Duty Low-Vibration Chisel Scalars

Equipped with Vibro-Lo™ low vibration technology for 8x less vibration than standard models



Grip	Description	Model Number	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level dB(A)	Vibration Levels m/s ²
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

Service kits available. Visit our website for more information.

Chisels for Vibro-Lo™ Chisel Scalars

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"	1-3/8"	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.

ATEX-Certified Needle/Chisel Scalars



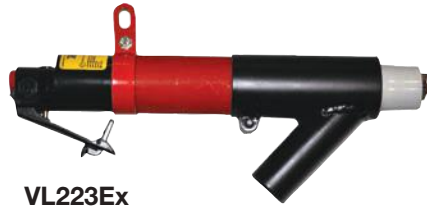
Specially-designed for use in hazardous environments – equipped with Vibro-Lo™ low vibration technology

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

- Fully certified to the classification: EX II 2G Ex h IIB T6 Gb & Ex II 2 D Ex h IIIC T135 °C Db under the ATEX Directive 94/9/EC. Certified for use in Gas Zone 1 and Dust Zone 21.
- Ideal for use in Ex Zones, 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



VL223Ex



VL203Ex



VL303Ex

Grip	Description	Tool Model Number	Kit Model Number	Needle Qty (3 mm)	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Vibration Levels m/s ²
Inline	VL223Ex Needle Scaler with dust shroud	196.2107	139.2423	19	5.25	2400	4	2.56
Pistol	VL203Ex Needle Scaler with dust shroud	196.2207	139.2403	19	6	2400	4	2.75
	VL303Ex Needle Scaler with dust shroud	196.3007	139.2433	28	7.75	3000	5	2.3

3mm Copper Beryllium needles included. Service kits available: For VL223/VL203EX P/N: 446.2003X, For VL303EX P/N: 446.3003X

Grip	Description	Tool Model Number	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Vibration Levels m/s ²
Inline	VL223Ex Chisel Scaler	196.2117	6.5	2400	4	3.33
Pistol	VL203Ex Chisel Scaler	196.2217	7	2400	4	3.69
	VL303Ex Chisel Scaler	196.3017	9.5	3000	5	3.7

Service kits available. 2" wide flat Copper Beryllium chisel included. For VL223/VL203EX P/N: 446.2003X, For VL303EX P/N: 446.3003X



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



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

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



Safety Hand Tools
LIFETIME WARRANTY

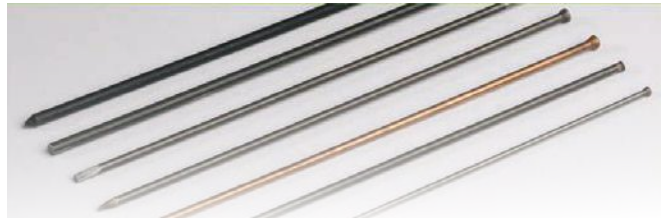
CS Unitec offers over 3000 safety hand tools for use in Ex Zones, ATEX Zones and hazardous environments where hazardous, flammable or combustible vapors, liquids, dusts or residues may be present. **Contact us for more information!**

Needles for Needle Scalers

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

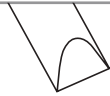
All of CS Unitec's Needle Scalers are delivered from stock complete with 7"(180mm) long x 3mm diameter high performance needles. Other needle holders are available as accessories for use with 2mm and 4mm diameter needles.

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.



Chisel Tip

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



Size	Description	Part #
3mm	Box of 100 needles	453.2110
3mm	Box of 1000 needles	443.2107

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	Box of 100 needles	453.3110
3mm	Box of 1000 needles	443.3107

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	Box of 100 needles	452.1110
3mm	Box of 100 needles	453.1110
3mm	Box of 1000 needles	443.1107

Spark-Resistant Copper Beryllium

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

Size	Description	Part #
3mm	Box of 100 needles	453.1310
3mm	Box of 500 needles	443.1307



Stainless Steel

Available in 3mm flat tip 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 needles is undesirable.

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



Conversions:

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

See page 21 for dust extraction systems.

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
- 3 tools in 1 – 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



3 tools in 1:

Chipping **A** Scraping **B** Descaling **C**



Accessories sold separately.

Long-Reach Chisels/Scrapers

Model	Description	Model Number	Weight (lbs.)	Blows per minute	CFM @ 90 PSI	Noise Level dB(A)
Standard Scrapers	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
LITE Scrapers	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

A: Chisel Accessories - 5/8" hex

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)



B: Scraper Accessories

(Assembly includes holder and 1 blade)

Assembly Part No.	Blade Pack	Blade Width	Applications
Flat			
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
Beveled			
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



C: 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 14 for needles.

Floor Scarifiers Gas • Electric • Pneumatic

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

Mounted Drum & TCT Cutter Set Included

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 button
- 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	264 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	20 Pieces 196 Pieces	320.1020G

Cutter Applications:

Wire Brushes are ideal for cleaning loose rust, flaking coatings, & cement deposits.

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

Every TFP 200 machine includes mounted drum and TCT cutter set

Scan To Learn More



Model Number	Motor Specifications	Max Cutting Depth per Pass	Cutting Width	Dimensions (WxLxH)	Weight (lbs.)
TFP 200 Electric					
320.2342T	120V, 50/60 Hz, 1Ph, 1.5 HP	1/8"	8"	14" x 35" x 35"	149
320.2404T	230V, 50/60 Hz, 1Ph, 3 HP	1/8"	8"	14" x 35" x 35"	149
TFP 200 Pneumatic					
320.2412T	165CFM @ 90 PSI, 3.5 HP	1/8"	8"	14" x 35" x 35"	99
TFP 200 Gas					
320.2400T	Honda GX160 Gas, 5.5 HP	1/8"	8"	14" x 35" x 35"	130

400V and 110V, 60hz, 3HP also available, contact CS Unitec for details | For handheld scarifier models see page 18

Floor Scarifiers Gas • Electric

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

Mounted Drum & TCT Cutter Set Included

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 320.4160	123 Pieces 129 Pieces	326.1016ST
Milling Cutters (16mm)	320.5680	60 Pieces	326.1016DM
TCT Cutters (for grooving) and Spacers	320.7009 320.4160	36 Pieces 224 Pieces	326.1016GT

TFP 260 Floor Scarifiers

Every TFP 260 machine includes a mounted drum and TCT cutter set

Model Number	Motor Specifications	Max Cutting Depth per Pass	Cutting Width	Dimensions (WxLxH)	Weight (lbs.)
TFP 260 Gas					
326.2400T	Honda GX240 Gas, 8 HP	1/4"	10"	17" x 44" x 45"	408
TFP 260 Electric					
326.2406T	415V, 50/60 Hz, 3-Phase, 7.5 HP	1/4"	10"	17" x 44" x 45"	408

For handheld scarifier models see page 18

Scan To Learn More

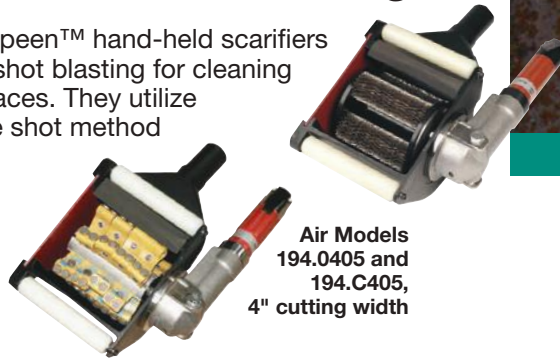


Hand-Held Scarifiers - Rotopeen™ Air Powered

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

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

- 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



ROTOPEEN FLAP FINISH



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 alkyds, adhesives, lead-based paints, mastics, coatings, corrosion, anti-skid material & more
- Cleaning & preparing steel and concrete surfaces



Optional Accessory

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

See page 21 for dust extraction systems.

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
Produces SSPC 11 Finish

HEAVY SCALING

SURFACE PROFILING



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

	Star Cutter	Beam Cutter	3M™ Rotopeen™ 'C' Flap
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

Pneumatic Hand-Held Scarifiers

Model Number	CFM @ 90 PSI	Speed (RPM)	Cutting Width	Cutting Media	Weight (lbs.)	Vibration Levels m/s ²	
194.0205	30	2700	2"	'C' Flaps	7.5	3.5	These models are compatible with Star Cutters, Beam Cutters and Rotopeen™ 'C' Flaps
194.C205	30	2700	2"	Star Cutters	11.5	6	
194.0405	30	2700	4"	'C' Flaps	9	3.1	
194.C405	30	2700	4"	Star Cutters	13.25	4.6	



SCAN TO SEE FULL PRODUCT DETAILS

Floor Models Available See Pages 16 & 17

Deck Descalers

Rapidly remove 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.

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



Scan To Learn More

Trident Neptune Deck Descalers

Model Number	Motor Specifications	ISSA Number	IMPA Number	Cutter Speed (RPM)	Dimensions (LxWxH)
Electric with Skid Base					
340.TN/S/110	110V / .75 HP	55.077.00	59 12 41	2850	106" x 8.3" x 11.4"
340.TN/S/220	220V / .75 HP	55.077.00	59 12 42	3450	106" x 8.3" x 11.4"

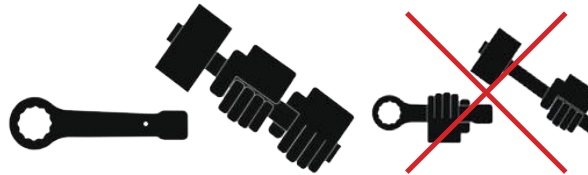
Standard equipment includes: 9' x 5/8" flexible shaft; heavy-duty leaf scaling head; 6-cutter scaling head; 6" dia. power brush, spanner set and hand guard.

SAFEWRENCH® SAFE Striking Wrench

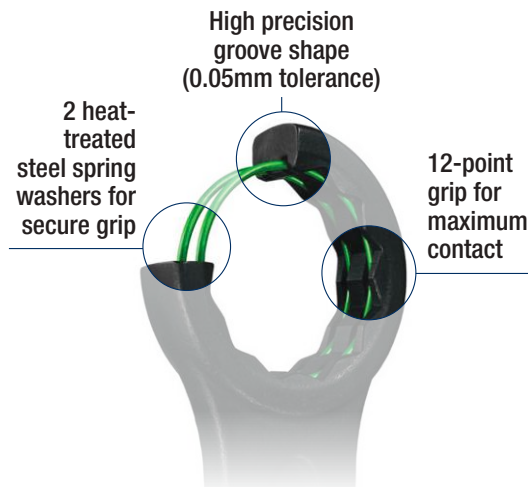
Hands-free – secures itself in any position



Prevent Hand Injuries
Operate hammer with 2 hands



- Manufactured of CRV30 chrome vanadium steel
- Black coated surface for maximum rust protection



US Inch - Imperial

Part No.	Bolt Size
SW-3031S	1-1/4"
SW-3036S	1-7/16"
SW-3041S	1-5/8"
SW-3046S	1-13/16"
SW-3050S	2"
SW-3055S	2-3/16"
SW-3060S	2-3/8"
SW-3065S	2-9/16"
SW-3070S	2-3/4"

Metric

Part No.	Bolt Size
SW-2024S	24mm
SW-2027S	27mm
SW-2030S	30mm
SW-2032S	32mm
SW-2036S	36mm
SW-2041S	41mm
SW-2046S	46mm
SW-2050S	50mm
SW-2055S	55mm
SW-2060S	60mm
SW-2065S	65mm
SW-2070S	70mm
SW-2075S	75mm

Tools for Hot Work – Ex Zones

CS Unitec's heavy-duty pneumatic and hydraulic power tools and non-sparking hand tools are specifically designed, manufactured and tested for use in hazardous areas and Ex Zones.



**ATEX Certified
Air and Hydraulic Tools**
See page 83 for ATEX details or visit
www.csunitec.com



Scan To
see all of our
ATEX tools

NEW RECIPROCATING SAWS
For cutting steel and pipe up to 6" dia.
See page 114-115

PORTABLE HACKSAWS
For on-site cutting of pipe up
to 30" OD and structural steel
See page 118-119



SDS Plus and SDS Max
**ROTARY HAMMER
DRILLS**
See page 80



CIRCULAR SAWS
7-1/2" and 9" dia., cut 90°
and 45° angles up to 3-1/4" deep
See page 112-113



**PORTABLE BAND
SAWS**
Cut up to 9"
See page 116-117



MAGNETIC DRILLS
For drilling up to 4" dia. holes
See page 54 & 56



Explosion-proof
AXIAL FANS
12" to 24" diameter

**ATEX IMPACT
WRENCHES**



Safety Tools – Non-Sparking, Non-Magnetic

- Lifetime Warranty
- Non-sparking, non-magnetic, & corrosion-resistant safety tools
- Aluminum Bronze (AlBr) or Copper Beryllium (CuBe) alloys
- For Ex and hot work zones where hazardous, flammable or combustible materials are present
- Hammers, wrenches, sockets, wedges, chisels and more
- Over 5000 different SKU's
- Produced in an ISO9001:2015 facility

TÜV Certified
for explosive
atmospheres



For use in Ex and Hot Work Zones

Dust Collection Vacuums Electric • Pneumatic

Dust Collection Vacuums with HEPA Filtration

CS Unitec's dust extraction vacuums offer strong 157 CFM air flow and an electromagnetic **iPulse** filter cleaning system to maximize vacuum power and dust collection.

- Ideal for use with power tools
- 99.995% HEPA filtration efficiency of particles down to 0.3 microns; automatic filter cleaning
- "Power Take Off" outlet activates the vacuum ON/OFF when the power tool is in use
- Kit available to connect two power tools (P/N 198804)

HEPA Vacuum Specifications

	CS 1225 HF	CS 1445 H
Power	11 Amp	11 Amp
Air flow	157 CFM	157 CFM
Static Water Lift	98"	98"
Tank capacity	6.6 gal.	9 gal.
Filter Cleaning	Yes	((iPulse)) <small>intelligent pulse filter cleaning</small>
Weight	24.3 lbs.	24.3 lbs.
Filter P/N (2pk.)	428956	428956

Accessories:

Cleaning Kit for CS 1225 HF and CS 1445 H - P/N 063201
Includes: Cleaning wand, adapter, crevice tool, 2 extensions and handle

Fleece filter bags for CS 1225 HF and CS 1445 H - P/N 435305 (5-pack)

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



CS 1225 HF



Automatic mechanical filter cleaning with up to 300x force of gravity. Maximizing suction and filter life, without interrupting operation!

FILTER DEFENSE PLATE

Protects and maximizes filter life!

POWER TAKE OFF

Activates vacuum on/off from power tool controls

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

CS Unitec 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.

Portable Magnetic Drills



MABasic Series *p. 28-31*
Capacity: \varnothing 1-3/8" to 3-1/16" cutter
Professional grade, versatile



MAB 100 K *p. 32-33*
Capacity: \varnothing 1-3/8" cutter;
 \varnothing 1/2" twist drill
Our lightest weight MAB Magnetic Drill Ever! Only 21.8 lbs!



MAB 155 *p. 34-35*
Capacity: \varnothing 1-1/2" cutter
For drilling in tight spaces



AutoMAB 350 *p. 36*
Capacity: \varnothing 1-1/2" cutter
Automatic feed – forward and reverse



AutoMAB 450 *p. 37*
Capacity: \varnothing 2" cutter; \varnothing 3/4" twist drill
Automatic feed – forward and reverse



PipeMAB 200 *p. 38*
Capacity: \varnothing 1-3/8" cutter; \varnothing 1/2" twist drill
Game changer for pipe drilling & more



PipeMAB 525 *p. 39*
Capacity: \varnothing 2-1/2" cutter; \varnothing 1" twist drill;
 \varnothing 15/16" tapping
2-speed motor
Game changer for pipe drilling & more



MAB 455 & MAB 455 SB *p. 40*
Capacity: \varnothing 2-1/16" cutter; \varnothing 7/8" twist drill
Reversible, 2-gear motor
Swivel base (MAB 455 SB)



MAB 465 *p. 41*
Capacity: \varnothing 2" cutter; \varnothing 5/8" twist drill
Reversible, 2-gear motor



MAB 485 & MAB 485 SB *p. 42-43*
Capacity: \varnothing 2-1/16" cutter; \varnothing 7/8" twist drill;
 \varnothing 15/16" tapping
Reversible, 2-gear motor
Swivel base (MAB 485 SB)



MAB 525 & MAB 525 SB *p. 44-45*
Capacity: \varnothing 2-1/2" cutter; \varnothing 1" twist drill;
 \varnothing 15/16" tapping
Reversible, 2-gear motor
Swivel base (MAB 525 SB)



MAB 825 KTS *p. 46-47*
Capacity: \varnothing 3-1/8" cutter; \varnothing 1-1/4" twist drill;
 \varnothing 1-3/16" tapping
Portable magnetic mill drill for boring, slotting, etc.
Reversible, 4-gear motor



MAB 825, MAB 825 V & MAB 845, MAB 845 V *p. 48-49*
Capacity: \varnothing 4-1/16" cutter; \varnothing 1-1/4" twist drill;
 \varnothing 1-1/8" tapping
Auto feed (MAB 825 V), Swivel base (MAB 845 & MAB 845 V), Reversible, 4-gear motor



MAB 1300 & MAB 1300 V *p. 50-53*
Capacity: \varnothing 5-1/8" cutter
 \varnothing 1-3/4" twist drill
 \varnothing 1-5/8" tapping
Reversible, 4-gear motor
Auto-feed and reverse (MAB 1300 V)
The ultimate in power

Warranty

Products of CS Unitec, Inc. are warranted to be free from defects in material and workmanship for one year from date of purchase. This warranty does not apply to normal wear or products which have been abused, misused, modified or repaired by someone other than CS Unitec, Inc. or its Authorized Service Representatives. If a product proves defective in material or workmanship within one year after purchase, return it to CS Unitec, Inc. or an Authorized Service Center, transportation prepaid. CS Unitec, Inc. will, at its option, repair or replace defective products free of charge. CS Unitec, Inc.'s sole liability and your exclusive remedy under this warranty is limited to repair or replacement of the defective product. There are no other warranties expressed or implied and CS Unitec, Inc. shall not be liable for incidental, consequential or special damages, or expenses excepting only the cost or expense of repair or replacement as described above.

Safety

Operators of any power tool should use appropriate safety precautions for work being performed. This includes safety chains, eye protection, hearing protection, gloves and more. Follow instructions included in operating manual.

Tapping Accessories for MAB 1300, MAB 825, MAB 845, MAB 825 V, MAB 845 V *p. 53*

Heavy-Duty Tap Holders, Tap Collets, & Reducing Adapters



HB 4400 *p. 55*

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



AIRBOR™ AB-4300 *p.54*

Pneumatic power
Capacity: \varnothing 2-1/16" cutter; \varnothing 1/2" twist drill
ATEX for hazardous environments



2 1345 0020 *p. 56*

Hydraulic power
Capacity: \varnothing 4" cutter; \varnothing 1-1/4" twist drill;
 \varnothing 1" tapping
ATEX certified

Underwater Tools also available, see page 57

Annular Cutters *p. 58-68*



6-Series HSS Unibroach® *p. 60-61*

High-speed steel
7/16" to 5-1/8" diameter
1", 2" 3", 4", 6", 8" depth
Metric & Special sizes available



8-Series Armor Plated Unibroach™ *p. 62-63*

For higher working temperatures
7/16" to 5-1/8" diameter
1", 2" and 3" depth
Metric & Special sizes available



9-Series TCT Hornet *p. 64-65*

Tungsten carbide-tipped
1/2" to 6" diameter
1", 2-3/8", 3-3/8", 4", 6", 8" 10" depth
Metric & Special sizes available



10-Series One-Touch NK TCT *p. 66*

4 & 47-Series Rail Cutters *p. 67*

7-Series Cobalt *p. 67*

1 & 2 Series

Carbide-Tipped Hole Saws *p. 68*

Accessories *p. 69-75*



Drilling Starter Kits *p. 69*

Lubricants and Pilot Pins *p. 70*

Arbors and Drill Chucks *p. 71*

Countersinks, Drill/Taps and Chip Guard *p. 72*

Extensions and Tapping Tools *p. 72-73*

MobilCLAMP & Drilling Stand and Vise *p. 73*

Convert magnetic drilling machine to bench drill,
Convert hand drill to drill press

Vacuum Plates *p. 74*

For channeled plates and smooth surfaces

Metal Chip Cleanup Tools *p. 74*

Pipe Drilling Solutions *p. 75*

Safe, secure drilling of pipes and tubular material

Hand-Held Drills, Drive Units and More *p. 76-83*



Electric, Slow-Speed Electric Drills & Drive Units *p. 76-77*

Pneumatic Drills and Drive Units *p. 78*

Corner Drills and Drive Units *p. 79*

Pneumatic/Hydraulic Rotary Hammer Drills *p. 80*

Pneumatic Woodboring Drills and AirPac *p. 81*

Pneumatic/Hydraulic Nut Runners *p. 82*

ATEX Directive *p. 83*

Portable Magnetic Drilling Machines

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



PORTABLE MAGNETIC DRILLS

Designed for continuous operation, CS Unitec's portable magnetic drills are ideal for drilling structural steel and virtually any metal. We offer the most compact, powerful and reliable series of portable magnetic drills for holes up to 6" diameter. All CS Unitec drills are heavy-duty for use in construction and industry. Our complete line includes electric, pneumatic and hydraulic tools. They are available for prompt delivery.

CS Unitec is the industry leader in:

- Power-to-weight ratios
- Strongest clamping force with high-density (HD) dual-coil magnets
- Magnetic drills for tapping
- Annular Cutters: TiAlN, HSS, cobalt steel and carbide-tipped

Our drills have unique features:

- Longest drills stroke in the industry
- Variable-speed, multiple-gear models
- Electric, pneumatic and hydraulic power
- Reversible motors for tapping
- Swivel base stand for hard-to-reach areas
- mm drill models for in place machining
- Patented pipe swivel base models

Rugged construction and sophisticated functionality.



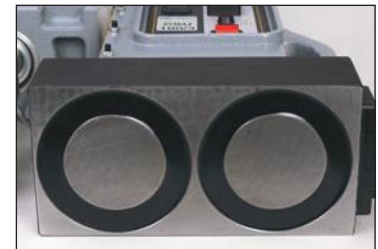
Intuitive magnets, ergonomic controls and simple operation for superior cuts.

Overheating Protection with CoolMag

COOLMAG™ Electromagnets

ensure that the magnet does not overheat. When the magnet is switched on for long periods of time, the coils could overheat or even burn out. The CoolMag feature reduces the power of the magnets when the drill motor is not active. Therefore, it won't build up heat.

CS Unitec high-density dual-coil magnets are ground, not cast, and are wound into two circles to increase the surface area and density of the magnetic field.



Keyless, quick-change system for annular cutters saves time and money. Just twist and lock.



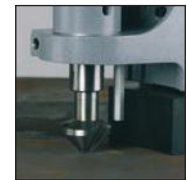
Twist Drilling



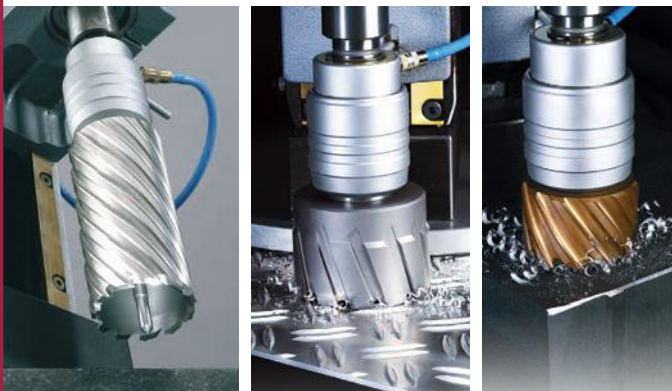
Tapping



Reaming



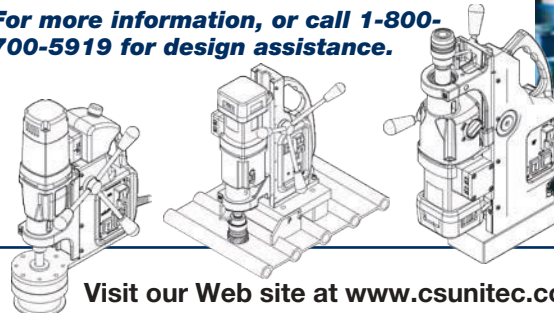
Countersinking



Custom machines for unique applications

Our engineers can create a drill, drill rig, or other application-specific arrangement to meet your needs.

For more information, or call 1-800-700-5919 for design assistance.



The value is in the engineering...
the payback is in the performance.



IQ Magnetic System for Active Safety

Magnetic force is the key to safety and success.

The magnetic force of your magnet depends on a number of factors:

- ▶ Thickness of material being drilled
- ▶ Coatings or paint layers on material
- ▶ Chips, dirt or grease between the magnet and the material

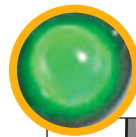
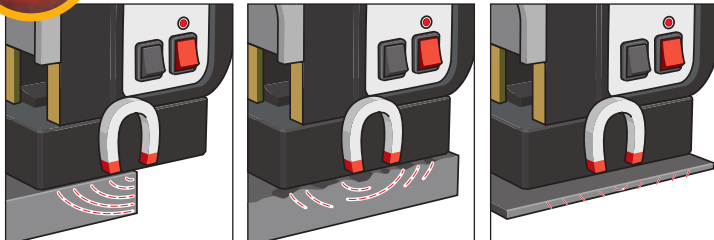
SafeMag
System

Electronic Safety
Shutoff Sensor

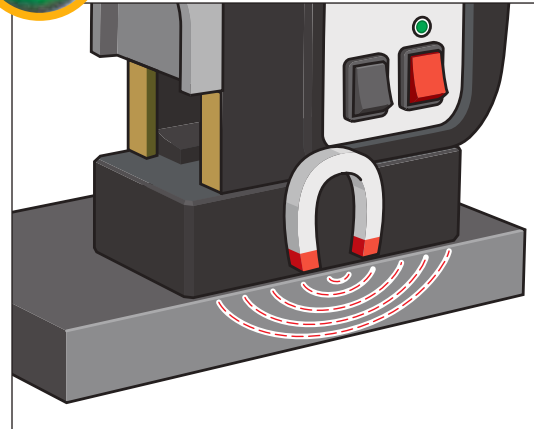
The **SAFEMAG™ System** measures whether the magnet has sufficient adhesive force on the material. An LED indicator on the switch panel warns you of insufficient magnetic force (**Red Light**) or tells you if the correct force is present (**Green Light**).



LED red... insufficient magnetic force. Drilling should not take place. Possible causes are too-thin material, coatings of paint, scale or zinc.



LED green... the magnetic adhesion meets the minimum requirements. Drilling can take place.

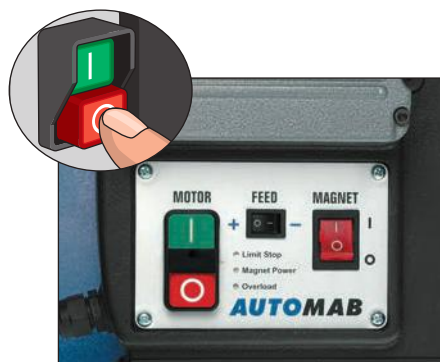


Our **Electronic Safety Shutoff Sensor** automatically shuts down the drill motor if the magnet loses contact with the material. This emergency-off feature helps to protect both operator and equipment.

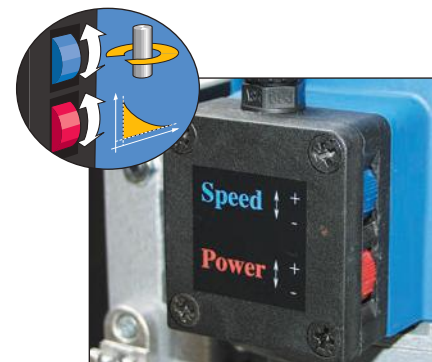
Integrated cable routing: MAB Series

The new generation of our MAB portable magnetic drilling machines has been developed for increased safety. This includes complete cable routing within the casing.

- ▶ No threading and getting caught
- ▶ No tearing or snapping off



Simple, ergonomic arrangement of controls for one-handed operation. Emergency-off function for quick shutdown.






High power at low speeds. Electronic torque control prevents damage to motor.

PORTABLE MAGNETIC DRILLS

Magnetic Drill Comparison Chart



PORTABLE MAGNETIC DRILLS

	MABasic 200	MABasic 400	MABasic 450	MABasic 850	MAB 100 K	MAB 155	AutoMAB 350	AutoMAB 450	PipeMAB 200	PipeMAB 525
Annular Cutters Diameter (ø)	up to ø 1-3/8"	up to ø 1-5/8"	up to ø 1-3/4"	up to ø 3-1/16"	1-3/8"	up to ø 1-1/2"	up to ø 1-1/2"	up to ø 2"	up to ø 1-3/8"	up to ø 2-1/2"
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 1/2"	up to ø 3/4"	up to ø 1/2"	up to ø 1"
Tapping Diameter (ø)										up to ø 15/16"
Countersinking Diameter (ø)										up to ø 2"
Reaming Diameter (ø)										
Stroke	6-1/3"	6-1/3"	6-1/3"	10"	2-3/4"	1-1/2"	6"	6"	6-1/3"	6-1/3"
Weight	27 lbs.	27 lbs.	29 lbs.	53 lbs.	21.8 lbs.	24 lbs.	33 lbs.	35-1/4 lbs.	27 lbs.	43 lbs.
Speed Range 1	450 RPM	430 RPM	250 RPM	110 RPM	460 RPM	460 RPM	460 RPM	250 RPM	450 RPM	70-280 RPM
Speed Range 2		760 RPM	450 RPM	175 RPM				450 RPM		180-580 RPM
Speed Range 3				245 RPM						
Speed Range 4				385 RPM						
										✓
									Patented Permanent Mag System	Patented Permanent Mag System
					✓		✓	✓		
Electronic Safety Shutoff Sensor	✓	✓	✓	✓	✓	✓				
Special Features					Quick-change	Low Profile			Patented Pipe Base	Patented Pipe Base
Morse Taper (MT)			MT2	MT3				MT2		MT3
Safety Friction Clutch										
Torque Control										✓
Pipe Adapted or 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"	6-1/3" x 3-1/8"	6-5/16" x 3-3/16"	6-5/8" x 3-1/3"	6-5/8" x 3-1/3"	10.5" L x 7.5" W x 3.5" H	10.5" L x 7.5" W x 3.5" H



MAB 455 MAB 455 SB	MAB 465	MAB 485 MAB 485 SB	MAB 525 MAB 525 SB	MAB 825 KTS	MAB 825 V MAB 845 MAB 845 V	MAB 1300 MAB 1300 V	AIRBOR™	HB 4400	2 1345 0020	
up to ø 2-1/16"	up to ø 2"	up to ø 2-1/16"	up to ø 2-1/2"	up to ø 3-1/8"	up to ø 4-1/16"	up to ø 6"	up to ø 2-1/16"	up to ø 2-1/16"	up to ø 4"	Max. hole diameter up to 6"
up to ø 7/8"	up to ø 5/8"	up to ø 7/8"	up to ø 1"	up to ø 1-1/4"	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 1-1/4"	Max. twist drilling up to 1-3/4"
	up to ø 5/8"	up to ø 15/16"	up to ø 15/16"	up to ø 1-3/16"	up to ø 1-1/8"	up to ø 1-5/8"			up to ø 1"	Max. tapping up to 1-5/8"
	up to ø 1-1/2"	up to ø 1-5/8"	up to ø 2"	up to ø 2"	up to ø 2"	up to ø 3"			up to ø 2"	
		up to ø 7/8"	up to ø 7/8"	up to ø 1-1/4"	up to ø 1-1/4"	up to ø 2"			up to ø 1-1/8"	
6-1/3"	6-1/3"	6-1/3"	6-1/3"	10"	10"	3.35" (12" w/ out retainer)	up to 10-1/4"	up to 3-3/4"	12"	
29 lbs.	29 lbs.	29 lbs.	35 lbs.	99 lbs.	55 lbs.	112 lbs.	43 lbs.	48-1/2 lbs.	50 lbs.	
250 RPM	50-250 RPM	50-250 RPM	70-280 RPM	40-110 RPM	40-110 RPM	30-80 RPM	400 RPM	0-630 RPM	40-250 RPM	Pneumatic Hydraulic
450 RPM	100-450 RPM	100-450 RPM	180-580 RPM	65-175 RPM	65-175 RPM	50-120 RPM				
				140-360 RPM	140-360 RPM	130-350 RPM				
				220-600 RPM	220-600 RPM	210-550 RPM				
	✓	✓	✓	✓	✓	✓			✓	Allows thread cutting
✓	✓	✓	✓	✓	✓	✓				Overheating protection
✓	✓	✓	✓	✓	✓	✓				Magnet adhesion indicator
✓	✓	✓	✓	✓	✓	✓				Shuts down motor if magnetic contact lost
Quick-change		Quick-change	Quick-change	X,Y-MILLING	Automatic Quick-change	Set Screw	Set Screw	Set Screw	Set Screw	
MT2		MT2	MT3	MT3	MT3	MT4			MT3	
				✓	✓	✓				
			✓	✓	✓	✓				
✓		✓	✓	✓	✓					Adjustable Base or Patented Pipe Base Adapter
6-5/8" H x 3-1/3" W	6-5/8" x 3-1/3"	6-5/8" x 3-1/3"	7-1/8" x 3-1/2"	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"	11-11/16" x 4"	

*Annular cutter drilling capacity 6" diameter up to 1" thick in carbon steel - Use TCT cutters for large diameters



MABasic 200



Heavy-duty, purpose-built, single-speed workhorse

Powerful • Reliable

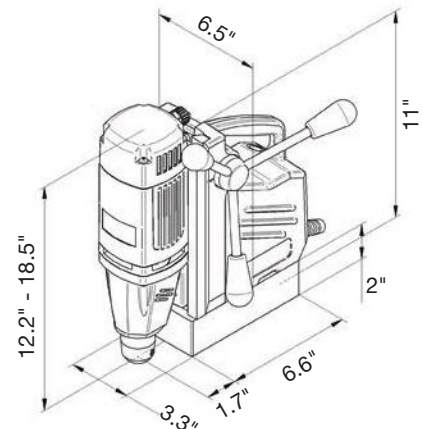
- Strong 8.2 Amp motor
- Compact, lightweight and portable – 12-1/4" high, 27 lbs.

Drill up to 1-3/8" dia.

- Uses annular cutters up to 1-3/8" dia.; 6-1/3" stroke
- Twist drilling capacity up to 1/2" dia.
- 3-1/3" stroke with included geared chuck
- Internal lubrication system



With included 1/2" geared chuck (IBC 18), this model easily converts to a standard drill press with a 3 1/3" stroke for conventional twist drills.



Equipped with Electronic Safety Shutoff Sensor (see p. 25)



Standard Equipment includes lubrication bottle, 3/4" weldon arbor, 1/2" geared chuck, safety strap, carabin hook, allen keys, pilot pin and carrying case.



MABasic 200 Specifications

Motor Power	8.2 Amp / 110 Volt
Weight	27 lbs.
Hole Capacity	1 3/8" dia.
Twist Drill Capacity	1/2" dia.
Speed	450 RPM
Magnet Base Size	6 5/8" L x 3 1/3" W
Dimensions	12 1/4" H x 9" L x 6 1/2" W
Magnetic Force (1" plate)	3080 lbs.
Arbor Bore	3/4" Weldon Shank
Internal Lubrication	Oil Bottle Included

> Annular Cutters: pages 58-67 > Accessories: pages 69-75

MABasic 400



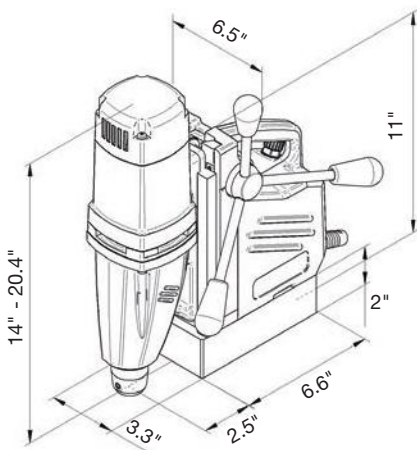
Two gears – powerful and reliable

Powerful • Reliable

- 9.5 Amp double-insulated motor
- 3/4" direct arbor

Drill up to 1-5/8" dia.

- Uses annular cutters up to 1-5/8" dia.
- Twist drilling capacity up to 5/8" dia.
- 3-1/3" stroke with chuck
- Internal lubrication system
- Compact and lightweight



With included 1/2" geared chuck (IBC 18), the MABasic 400 easily converts to standard drill press with a 3 1/3" stroke for conventional twist drills.

Equipped with Electronic Safety Shutoff Sensor (see p. 25)

MABasic 400 Specifications

Motor Power	9.5 Amp / 110 Volt
Weight	27 lbs.
Hole Capacity	1 5/8" dia.
Twist Drill Capacity	5/8" dia.
Speed	430 / 760 RPM (2 gears)
Magnet Base Size	6 5/8" L x 3 1/3" W
Dimensions	14" H x 9 1/2" L x 6 1/2" W
Magnetic Force (1" plate)	3080 lbs.
Arbor Bore	3/4" Weldon Shank
Internal Lubrication	Oil Bottle Included



Scan to Learn More!



Standard Equipment includes lubrication bottle, 3/4" weldon arbor, 1/2" geared chuck, safety strap, carabin hook, allen keys, pilot pin and carrying case.



➤ [Annular Cutters: pages 58-67](#) ➤ [Accessories: pages 69-75](#)



MABasic 450



Professional-grade, two-speed versatility

Powerful • Reliable

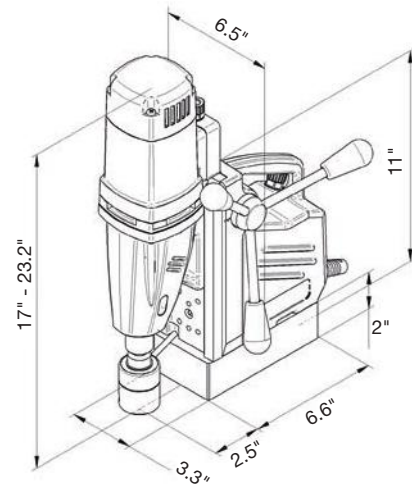
- 10.5 Amp double-insulated motor
- MT2 – 3/4" direct arbor with automatic cooling

Drill up to 1-3/4" dia.

- Uses annular cutters up to 1-3/4" dia.
- Twist drilling capacity up to 3/4" dia.
- Internal lubrication system
- Compact and lightweight



With included 3/4" geared chuck (BC 22), the MABasic 450 easily converts to standard drill press for conventional twist drills.



Equipped with Electronic Safety Shutoff Sensor (see p. 25)



Scan to Learn More!

MABasic 450 Specifications

Motor Power	10.5 Amp / 110 Volt
Weight	29 lbs.
Hole Capacity	1 3/4" dia.
Twist Drill Capacity	3/4" dia.
Speed	250 / 450 RPM (2 gears)
Magnet Base Size	6 5/8" L x 3 1/3" W
Dimensions	17" H x 9 1/2" L x 6 1/2" W
Magnetic Force (1" plate)	3080 lbs.
Arbor Bore	3/4" Weldon Shank
Spindle	MT2
Internal Lubrication	Oil Bottle Included

Standard Equipment

includes: ZIA 219KN - MT2 to 3/4 weldon internal lubrication tool holder, lubrication bottle, 3/4" geared chuck, safety strap, carabin hook, allen keys, pilot pin and carrying case.



> Annular Cutters: pages 58-67 > Accessories: pages 69-75

MABasic 850



4-gear, powerful motor for demanding jobs

Powerful • Reliable

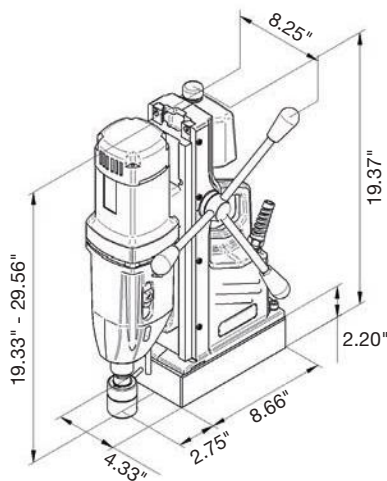
- 16 Amp double-insulated motor
- MT3 – 3/4" direct arbor with automatic cooling
- 19-3/8" high, 53 lbs.
- High-speed, 4-speed gearbox

Drill up to 3-1/16" dia.

- Uses annular cutters up to 3-1/16"; 10" stroke
- Twist drilling capacity up to 1-1/4" dia.
- Internal lubrication system



With included 3/4" chuck (IBC 21), this model easily converts to a standard drill press for conventional twist drills.



Scan to Learn More!

MABasic 850 Specifications

Motor Power	16 Amp / 110 Volt
Weight	53 lbs.
Hole Capacity	3 1/16" dia.*
Twist Drill Capacity	1 1/4" dia.
Speed	1: 110 RPM, 2: 175 RPM 3: 245 RPM, 4: 385 RPM
Magnet Base Size	8 5/8" L x 4 1/3" W
Dimensions	19 3/8" H x 11 5/8" L x 8 1/4" W
Magnetic Force (1" plate)	6000 lbs.
Arbor Bore	3/4" Weldon Shank
Spindle	MT3
Internal Lubrication	Included

* 3-1/16" cutters have 1-1/4" Weldon shank. Part No. ZIA 30/32 arbor is required.

Standard Equipment includes

ZIA 319KN - MT3 to 3/4 weldon internal lubrication tool holder, 3/4" geared chuck, safety strap, carabin hook, allen keys, pilot pin and carrying case.



➤ [Annular Cutters: pages 58-67](#) ➤ [Accessories: pages 69-75](#)

MAB 100 K NEW!



Cutter capacity
1 3/8" dia.

Ultra Lightweight, Compact and Fast to Use!

Powerful • Reliable

- 9 Amp double-insulated motor
- 3/4" Quick Change Keyless Chuck

Drill up to 1-3/8" dia.

- Uses annular cutters up to 1-3/8" dia.
- Twist drilling capacity up to 1/2" dia.
- Internal lubrication system
- Compact and lightweight

Equipped with Electronic Safety Shutoff Sensor (see p. 25)

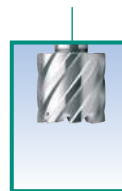
OUR LIGHTEST WEIGHT MAB MAGNETIC DRILL EVER Only 21.8lbs!



Quick-Change Chuck for Fast, Easy Cutter Changeover!

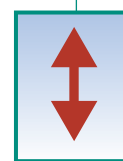


Cutter Capacity



Ø 1 3/8"

Stroke (length)



2 3/4"

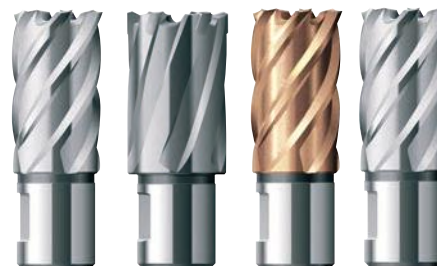
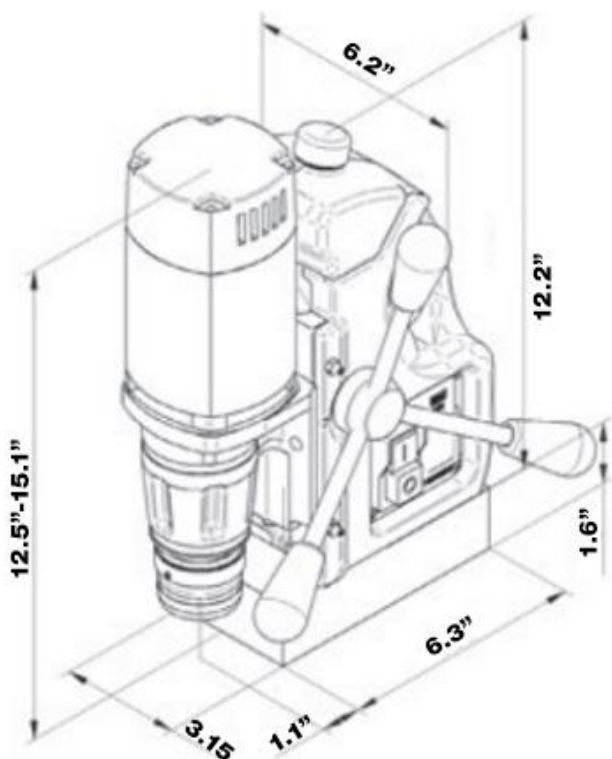
Speed Range (RPM)



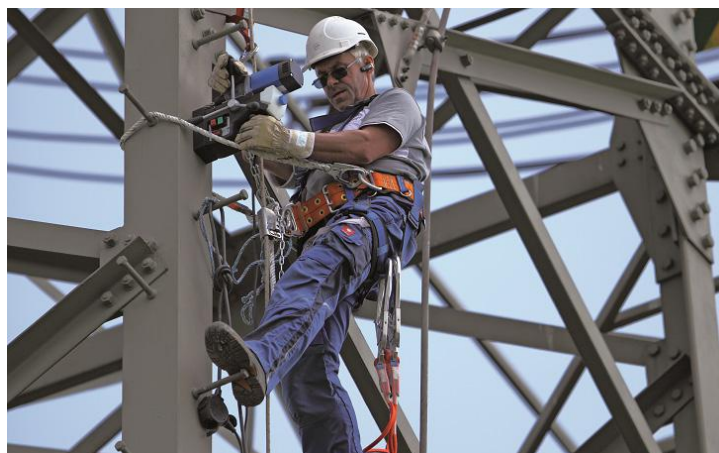
460

> Annular Cutters: pages 58-67 > Accessories: pages 69-75

MAB 100 K Specifications



See pages 58-67 for our Annular Cutters - HSS, Carbide-tipped, Armor Plated, & Cobalt. Available up to 6" Dia. and 10" Depth.



PORTABLE MAGNETIC DRILLS

MAB 100 K Specifications

Motor Power	9 Amp / 110 Volt
Weight	21.8 lbs.
Hole Capacity	1 ³ / ₈ " dia.
Twist Drill Capacity	1/2" dia.
Stroke	2-3/4"
Speed	460 RPM
Magnet Base Size	6 ⁵ / ₈ " L x 3 ¹ / ₃ " W
Dimensions	12- ¹ / ₂ " H x 7 ² / ₅ " L x 6 ¹ / ₅ " W
Magnetic Force (1" plate)	3080 lbs.
Arbor Bore	³ / ₄ " Quick Change Keyless Chuck
Internal Lubrication	Oil Bottle Included

Standard Equipment

- 1 Magnetic drilling machine
- 1 3/4" Weldon Quick Change chuck (affixed)
- 1 carrying case
- 1 1" Pilot Pin
- 1 2" Pilot Pin
- 1 Safety strap
- 1 Operating manual
- 1 Warranty certificate



Scan to Learn More!



➤ [Annular Cutters: pages 58-67](#) ➤ [Accessories: pages 69-75](#)



Cutter capacity
1 1/2" dia.

MAB 155



Horizontal motor mount for drilling in tight spaces

Powerful • Reliable

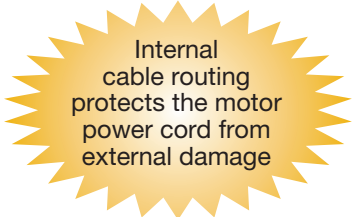
- 9.25 Amp double-insulated motor
- Ultra compact, 7" high
- Ratchet-style advancing mechanism for work in spaces with limited clearance
- Lightweight, 24 lbs.
- Intelligent electronic torque control
- Designed for continuous use

Drill up to 1-1/2" dia.*

- Uses annular cutters up to 1-1/2" dia.

Integrated Safety

- Emergency-off function
- Internal cable routing
- Simple, ergonomic arrangement of controls for one-handed operation



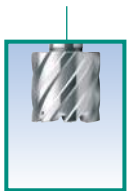
Ratchet-style advancing mechanism for work in spaces with limited clearance.

Equipped with Electronic Safety Shutoff Sensor (see p. 25)



MAB 155 uses standard 3/4" shank annular cutters

Cutter Capacity



ø 1 1/2"

Stroke (length)



1 1/2"

Speed Range (RPM)



460

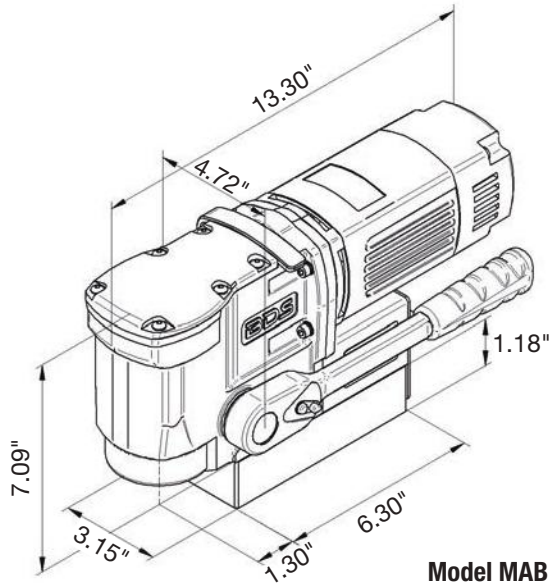
* Model MAB 155 accepts cutters with a 3/4" weldon shank and a maximum depth of cut of 1-1/2".



Switches for power and magnet adhesion are arranged for simple, uncomplicated operation.

> Annular Cutters: pages 58-67 > Accessories: pages 69-75

MAB 155 Specifications



Model MAB 155



Advancing lever can be mounted on either the left or right side of the MAB 155.

MABasic 155 Specifications

Motor Power	9.25 Amp / 110 Volt
Weight	24 lbs.
Hole Capacity	1 1/2" dia.
Speed	460 RPM
Magnet Base Size	6 ⁵ / ₁₆ " L x 3 ³ / ₁₆ " W
Dimensions	7 ¹ / ₈ " H x 13 ⁵ / ₁₆ " L x 4 ³ / ₄ " W
Magnetic Force (1" plate)	2640 lbs.
Arbor Bore	3/4" Weldon Shank

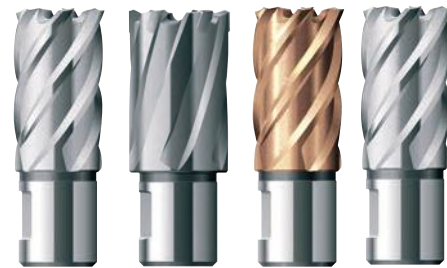


Scan to
Learn More!

Standard Equipment

- 1 Magnetic drilling machine
- 1 Pilot pin
- 1 Plastic carrying case
- 1 Safety chain
- 1 Hexagon socket screw key SW 4
- 1 Operating manual
- 1 Warranty certificate

Standard Equipment
also includes
safety strap,
carabin hook and
allen keys.



See pages 58-67 for our Annular Cutters - HSS, Carbide-tipped, Armor Plated, & Cobalt. Available up to 6" Dia. and 10" Depth.





Cutter capacity
1 1/2" dia.

AutoMAB 350



Compact drill with automatic feed – forward and reverse



Powerful • Reliable

- 10.5 Amp double-insulated motor
- Designed for continuous use
- Lightweight, 33 lbs.
- Automatic feed with auto stop and retraction
- Power feed automatically controls drill pressure to maintain optimal RPM and feed rate

Drill up to 1-1/2" dia.

- Uses annular cutters up to 1-1/2" dia.
- Twist drilling capacity up to 1/2" dia.
- 6" stroke, 3-1/3" stroke with chuck
- Integrated cutting oil reservoir
- Automatic internal lubrication

Integrated Safety

- Simple, ergonomic arrangement of controls for one-handed operation



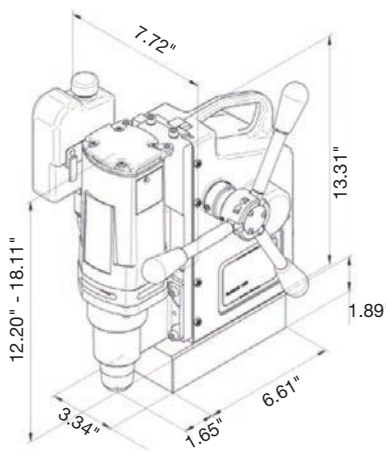
With optional 1/2" geared chuck (IBC 18), this model easily converts to a standard drill press with a 3 1/3" stroke for conventional twist drills.



Scan to
Learn More!

Model AutoMAB 350 Specifications

Motor Power	10.5 Amp / 110 Volt
Weight	33 lbs.
Hole Capacity	1 1/2" dia.
Drilling Depth	2-3/8" with pilot pin 4-3/8" without pilot pin
Speed	460 RPM
Magnet Base Size	6 5/8" L x 3 1/3" W
Dimensions	12 1/4" H x 8 3/4" L x 7 3/4" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	3/4" Weldon Shank
Automatic Lubrication	Included
Spindle	–



Standard Equipment includes auto lubrication, safety strap, carabin hook, allen keys and steel carrying case.[†]

[†] Steel case intended mainly for shipping purposes; damage may occur in transit.

> Annular Cutters: pages 58-67 > Accessories: pages 69-75

AutoMAB 450



Powerful • Reliable

- 10.5 Amp double-insulated motor
- Designed for continuous use
- Lightweight, 33 lbs.
- Automatic feed with auto stop and retraction
- Power feed automatically controls drill pressure to maintain optimal RPM and feed rate

Drill up to 2" dia.*

- Uses annular cutters up to 2" dia. (*with TCT Carbide cutters, 1-3/4" dia. with all other annular cutters)
- Twist drilling capacity up to 3/4" dia.
- 6" stroke, 3-1/3" stroke with chuck
- Integrated cutting oil reservoir
- Automatic internal lubrication

Integrated Safety

- Simple, ergonomic arrangement of controls for one-handed operation



With an optional 1/2" chuck (Part No. IBC 18), the AutoMAB 450 easily converts to a standard drill press for conventional twist drills. An optional 3/4" geared chuck is also available (Part No. IBC 22).

Model AutoMAB 450 Specifications

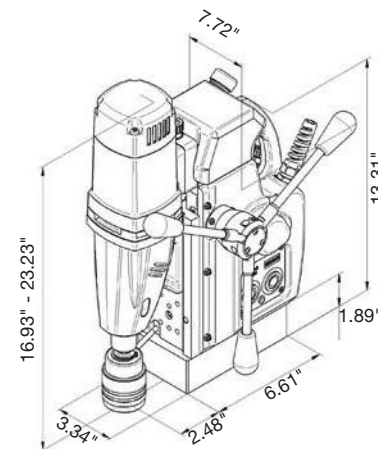
Motor Power	10.5 Amp / 110 Volt
Weight	35 1/4 lbs.
Hole Capacity	2" dia.*
Drilling Depth	2-3/8" with pilot pin 4-3/8" without pilot pin
Speed	250 / 450 RPM (2 gears)
Magnet Base Size	6 5/8" L x 3 1/3" W
Dimensions	16 7/8" H x 9 1/8" L x 7 3/4" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	3/4" Weldon Shank
Automatic Lubrication	Included
Spindle	MT2

Standard Equipment includes ZIA 219KN - MT2 to 3/4 weldon internal lubrication tool holder, lubrication bottle, safety strap, carabin hook, MT2 drift key, allen keys and plastic carrying case.

* 2" dia. with TCT Annular Cutters; 1-3/4" capacity with all other annular cutters



Scan to
Learn More!



> Annular Cutters: pages 58-67 > Accessories: pages 69-75



Cutter capacity
1 3/8" dia.

PipeMAB 200 NEW!



Game Changers for Pipe Drilling, Tapping, & More



Powerful • Reliable

- Ideal for drilling on pipe, flat or curved surfaces
- Strong magnets adhere to material as thin as 9/64" (3mm)
- 8.2 Amp double-insulated motor
- Designed for continuous use
- Lightweight, 27 lbs

Drill up to 1-3/8" dia.

- Uses annular cutters up to 1-3/8" dia.
- Twist drilling capacity up to 1/2" dia.
- 6-1/3" stroke, 3-1/3" stroke with chuck
- Elongated tool holder for maximum utilization of machine stroke
- Integrated cutting oil reservoir
- Automatic internal lubrication

Integrated Safety

- Highly stable, permanent magnet stays active independent of electricity



With optional 1/2" geared chuck (IBC 18), this model easily converts to a standard drill press with a 3 1/3" stroke for conventional twist drills.

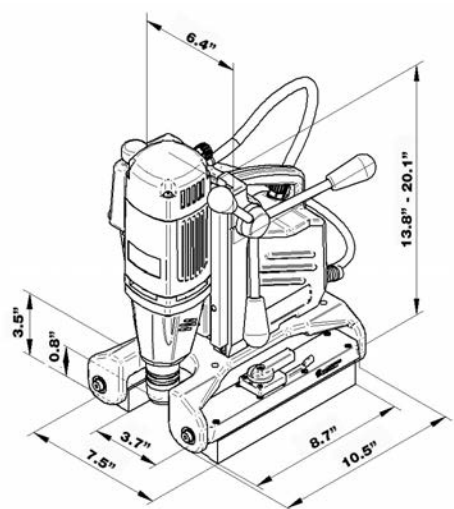


Scan to Learn More!

Model PipeMAB 200 Specifications

Motor Power	8.2 Amp / 110 Volt
Weight	35 lbs.
Hole Capacity	1 3/8" dia.
Stroke	6-1/3"
Speed	450 RPM
Magnet Base Size	10.5" L x 7.5" W x 3.5" H
Dimensions	113.75" H x 10.5" L x 7.5" W
Magnetic Force (1" plate)	2250 lbs.
Arbor Bore	3/4" Weldon Shank
Automatic Lubrication	Included

Standard Equipment includes auto lubrication, safety strap, carabin hook, allen keys and carrying case.



> Annular Cutters: pages 58-67 > Accessories: pages 69-75

PipeMAB 525 NEW!



Powerful • Reliable

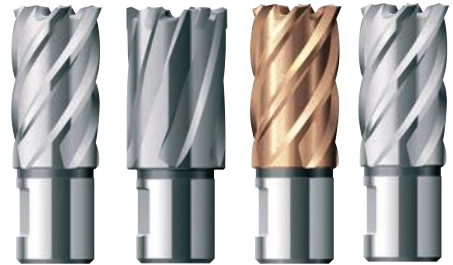
- Ideal for drilling on pipe, flat or curved surfaces
- Strong magnets adhere to material as thin as 9/64" (3mm)
- 14.5 Amp double-insulated motor
- Designed for continuous use
- Lightweight, 43 lbs

Drill up to 2-1/2" dia.

- Uses annular cutters up to 2-1/2" dia.
- Twist drilling capacity up to 1" dia.
- 6-1/3" stroke
- Integrated cutting oil reservoir
- Automatic internal lubrication

Integrated Safety

- Highly stable, permanent magnet stays active independent of electricity



See pages 58-67 for our Annular Cutters - HSS, Carbide-tipped, Armor Plated, & Cobalt. Available up to 6" Dia. and 10" Depth.



With an optional 1/2" chuck (Part No. IBC 18), the PipeMAB 525 easily converts to a standard drill press for conventional twist drills. An optional 3/4" geared chuck is also available (Part No. IBC 21).

Model PipeMAB 525 Specifications

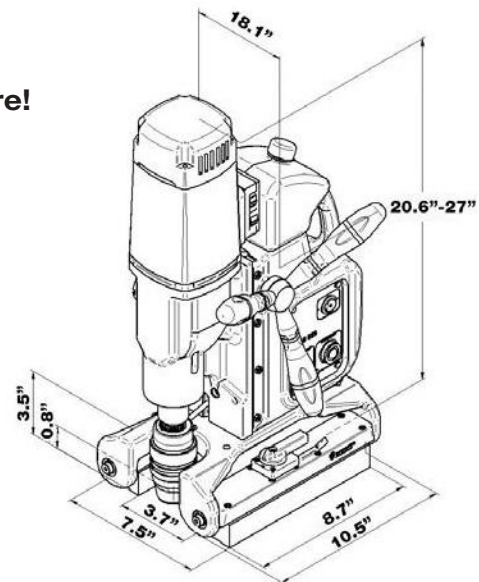
Motor Power	14.5 Amp / 110 Volt
Weight	43 lbs.
Hole Capacity	2-1/2" dia.*
Stroke	6-1/3"
Speed	70-280 & 180-580 RPM
Magnet Base Size	10.5" L x 7.5" W x 3.5" H
Dimensions	20.7" H x 10.5" L x 7.5" W
Magnetic Force (3/4" plate)	2250 lbs.
Arbor Bore	3/4" Weldon Shank
Automatic Lubrication	Included
Spindle	MT3

Standard Equipment includes auto lubrication, safety strap, carabin hook, MT#3 to 3/4" Weldon, MT3 drift key, allen keys, operation manual, warranty certificate and carrying case.

* 2-1/2" dia. drilling capacity for pipes 8" OD and larger. For smaller pipe maximum drilling diameter is 2"



Scan to Learn More!



> Annular Cutters: pages 58-67 > Accessories: pages 69-75



**Cutter capacity
2-1/16" dia.**

MAB 455 & MAB 455 SB



Powerful • Reliable

- 10.5 Amp double-insulated motor
- 17-1/4" high, 29 lbs.
- High-speed, variable-speed oilbath gearbox, ideal for annular cutters and twist drills
- Designed for continuous use
- Intelligent electronic torque control

Drill up to 2-1/16" dia.

- Uses annular cutters up to 2-1/6" dia.
- Twist drilling capacity up to 7/8" dia.
- Integrated cutting oil reservoir
- Automatic internal lubrication
- Swivel base (model MAB 485 SB)

Keyless Cutter Mount

- Quick-change keyless cutter system for 3/4" Weldon shank, standard
- Also includes manual arbor for 3/4" Weldon shank (MT2) with set screws



With included 3/4" chuck (IBC 22), this model easily converts to a standard drill press for conventional twist drills.



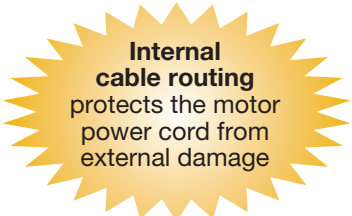
Model MAB 455 SB features a swivel base providing 20° movement left and right and 5/8" forward and backward.

Integrated Safety

- Green/Red LED magnetic force indicator for safe operation
- Internal cable routing
- Simple, ergonomic arrangement of controls for one-handed operation
- Emergency-off function



Scan to Learn More!



Internal cable routing protects the motor power cord from external damage



Equipped with Electronic Safety Shutoff Sensor (see p. 25)



Model MAB 455 & MAB 455 SB Specifications

Motor Power	10.5 Amp / 110 Volt
Weight	29 lbs.
Hole Capacity	2 1/16" dia.
Twist Drill Capacity	7/8" dia.
Speed	250 / 450 RPM
Magnet Base Size	6 5/8" L x 3 1/3" W
Dimensions	17 1/4" H x 11 5/8" L x 7" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	3/4" Weldon Shank
Spindle	MT2
Automatic Lubrication	Included
Swivel Base	Order MAB 455 SB

Standard Equipment includes MT2 quick-change arbor system KEYLESS Weldon 3/4", MT2 to Weldon 3/4" Manual arbor with set screws, auto lubrication, safety strap, carabin hook, MT2 drift key, 2 pilot pins 1" & 2", allen keys, carrying case, operation manual and warranty certificate.

➤ [Annular Cutters: pages 58-67](#) ➤ [Accessories: pages 69-75](#)

MAB 465



Reversible motor ideal for tapping and twist drilling

Powerful • Reliable

- 10.5 Amp double-insulated motor
- 14-1/8" high, 29 lbs.
- High-speed, variable-speed oilbath gearbox, ideal for annular cutters and twist drills
- Designed for continuous use

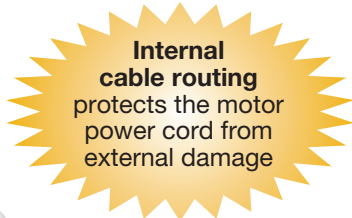
Drill up to 2" dia.* Tap up to 5/8" dia.

- Uses annular cutters up to 2"* dia.
- Twist drilling capacity up to 5/8" dia.
- Tapping capacity up to 5/8" dia.
- Integrated cutting oil reservoir
- Automatic internal lubrication

Integrated Safety

- Green/Red LED magnetic force indicator for safe operation
- Internal cable routing
- Simple, ergonomic arrangement of controls for one-handed operation
- Emergency-off function

Equipped with Electronic Safety Shutoff Sensor (see p. 25)



Scan to Learn More!



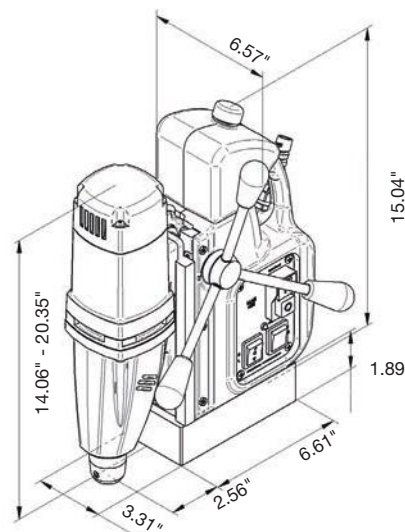
With an optional 1/2" chuck (Part No. IBC 18), the MAB 465 easily converts to a standard drill press for conventional twist drills.

PORTABLE MAGNETIC DRILLS

MABasic 465 Specifications

Motor Power	9.5 Amp / 110 Volt
Weight	29 lbs.
Hole Capacity	2" dia.
Twist Drill Capacity	5/8" dia.
Speed	50-250 and 100-450 RPM
Magnet Base Size	6 ⁵ / ₈ " L x 3 ¹ / ₃ " W
Dimensions	14 ¹ / ₈ " H x 9 ⁵ / ₈ " L x 6 ¹ / ₂ " W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	3/4" Weldon Shank
Automatic Lubrication	Included

* 2" with TCT Annular Cutters; 1-5/8" capacity with all other cutters
Standard Equipment includes auto lubrication, safety strap, carabin hook, MT2 drift key, 2 pilot pins 1" & 2", allen keys, carrying case, operation manual and warranty certificate.



> Annular Cutters: pages 58-67 > Accessories: pages 69-75



Cutter capacity
2 1/16" dia.

MAB 485 & MAB 485 SB



Versatile for workshop and assembly applications



Powerful • Reliable

- 10.5 Amp double-insulated motor
- 17-1/4" high, 29 lbs.
- High-speed, variable-speed oilbath gearbox, ideal for annular cutters and twist drills
- Designed for continuous use
- Intelligent electronic torque control

Drill up to 2-1/16" dia. Tap up to 15/16" dia.

- Uses annular cutters up to 2-1/6" dia.
- Twist drilling capacity up to 7/8" dia.
- Tapping capacity 3/16" to 15/16" dia.
- Integrated cutting oil reservoir
- Automatic internal lubrication
- Swivel base (model MAB 485 SB)

Keyless Cutter Mount

- Quick-change keyless cutter system for 3/4" Weldon shank, standard
- Also includes manual arbor for 3/4" Weldon shank (MT2) with set screws



With included 3/4" chuck (IBC 22), this model easily converts to a standard drill press for conventional twist drills.



Integrated Safety


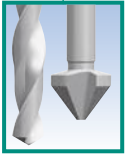
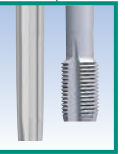
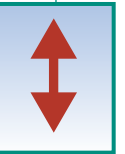


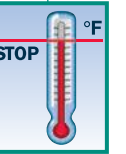


- Green/Red LED magnetic force indicator for safe operation
- Internal cable routing
- Simple, ergonomic arrangement of controls for one-handed operation
- Emergency-off function

Internal cable routing protects the motor power cord from external damage

Equipped with Electronic Safety Shutoff Sensor (see p. 25)

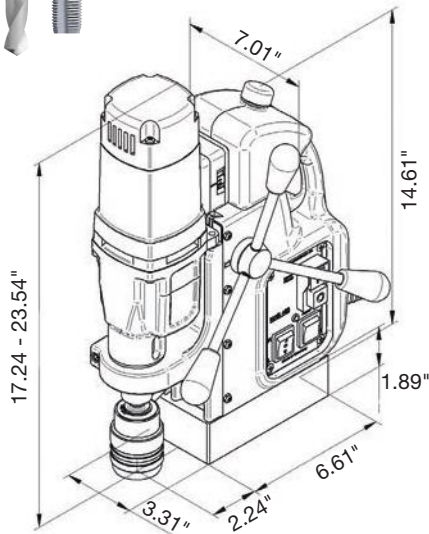


Model MAB 485 SB features a swivel base providing 20° movement left and right and 5/8" forward and backward.

Cutter Capacity	Twist Drill / Countersink	Ream / Tap	Stroke (length)	2-gear Variable Speed (RPM)	Electronics	Overheat Protection	Magnet Force Indicator	Reversible (CW/CCW)
 Ø 2 1/16"	 Ø 7/8" / Ø 1 5/8"	 Ø 7/8" / Ø 15/16"	 6 1/3"	 50-250 100-450	 Variable-speed Control	 CoolMag™	 SafeMag™	

> Annular Cutters: pages 58-67 > Accessories: pages 69-75

MAB 485 & MAB 485 SB Specifications



Model MAB 485 & MAB 485 SB



PORTABLE MAGNETIC DRILLS

Model MAB 485 & MAB 485 SB Specifications

Motor Power	10.5 Amp / 110 Volt
Weight	29 lbs.
Hole Capacity	2 ¹ / ₁₆ " dia.
Twist Drill Capacity	7/8" dia.
Speed	50-250 and 100-450 RPM
Magnet Base Size	6 ⁵ / ₈ " L x 3 ¹ / ₃ " W
Dimensions	17 ¹ / ₄ " H x 11 ⁵ / ₈ " L x 7" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	3/4" Weldon Shank
Spindle	MT2
Automatic Lubrication	Included
Swivel Base	Order MAB 485 SB

Standard Equipment

- 1 Magnetic drilling machine
- 1 Quick-change arbor system KEYLESS Weldon 3/4"
- 1 Manual arbor with set screws, Weldon 3/4", MT2
- 1 Geared chuck, 3/4"
- 2 Pilot pins - 1" and 2" depth
- 1 Safety chain
- 1 Drift key MT2
- Tap collet adapters - 1/4", 3/8", 1/2" and 3/4"
- 1 Warranty certificate

Standard Equipment also includes molded plastic carrying case, operating manual, auto lubrication, safety strap, carabin hook and allen keys.



Shown with optional Pipe Saddle Clamp System for safe, secure drilling of pipes and tubular material. See page 71 for details.

MAB 525 & MAB 525 SB



High power, ideal for production use



PORTABLE MAGNETIC DRILLS

Powerful • Reliable

- 14.5 Amp double-insulated motor
- 19" high, 35 lbs.
- High-speed, 2-speed oilbath gearbox, ideal for annular cutters and twist drills
- Designed for continuous use
- Intelligent electronic torque control

Drill up to 2-1/2" dia. Tap up to 15/16" dia.

- Uses annular cutters up to 2-1/2" dia.
- Twist drilling capacity up to 1" dia.
- Tapping capacity up to 15/16" dia.
- Integrated cutting oil reservoir
- Automatic internal lubrication
- Swivel base (model MAB 525 SB)

Keyless Cutter Mount

- Quick-change keyless cutter system for 3/4" Weldon shank
- Also includes manual arbor for 3/4" Weldon shank (MT3) with set screws

Integrated Safety

- Green/Red LED magnetic force indicator for safe operation
- Internal cable routing
- Simple, ergonomic arrangement of controls for one-handed operation
- Emergency-off function

Model MAB 525 SB features a swivel base providing 20° movement left and right and 5/8" forward and backward.



Internal cable routing protects the motor power cord from external damage

Equipped with Electronic Safety Shutoff Sensor (see p. 25)

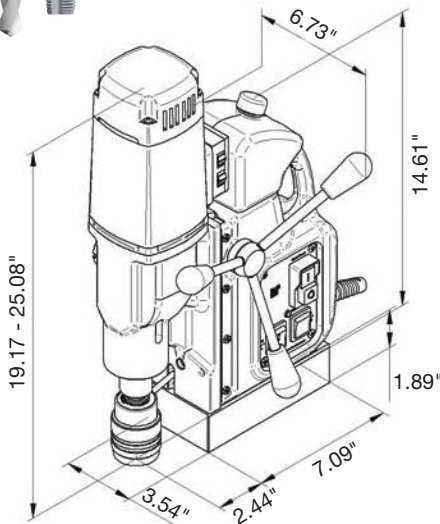
With the included 3/4" chuck (Part No. IBC 21), this model easily converts to a standard drill press with a 5" stroke for conventional twist drills.



Cutter Capacity	Twist Drill / Countersink	Ream / Tap	Stroke (length)	2-gear Variable Speed (RPM)	Electronics	Overheat Protection	Magnet Force Indicator	Reversible (CW/CCW)
$\varnothing 2\frac{1}{2}"$	$\varnothing 1" / \varnothing 2"$	$\varnothing 7/8" / \varnothing 15/16"$	6 ¹ / ₃ "	70-280 180-580	Variable-speed Control	CoolMag™	SafeMag™	

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MAB 525 & MAB 525 SB Specifications



Model MAB 525
& MAB 525 SB



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Model MAB 525 & MAB 525 SB Specifications

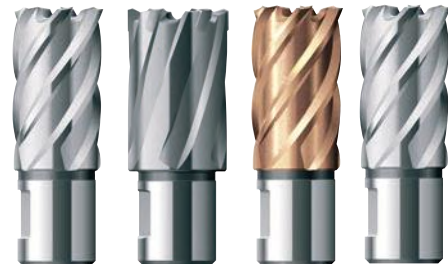
Motor Power	14.5 Amp / 110 Volt
Weight	35 lbs.
Hole Capacity	2 1/2" dia.
Twist Drill Capacity	15/16" dia.
Speed	70-280 and 180-580 RPM
Magnet Base Size	7 1/8" L x 3 1/2" W
Dimensions	19" H x 11 3/4" L x 6 3/4" W
Magnetic Force (1" plate)	4500 lbs.
Arbor Bore	3/4" Weldon Shank
Spindle	MT3
Automatic Lubrication	Included
Swivel Base	Order MAB 525 SB

Standard Equipment

- 1 Magnetic drilling machine
- 1 Quick-change arbor system
KEYLESS Weldon 3/4"
- 1 Manual arbor with set screws,
Weldon 3/4", MT3
- 1 Geared chuck, 3/4"
- 2 Pilot pins - 1" and 2" depth
- 1 Safety chain
- 1 Drift key MT3
- Tap collet adapters - 1/4", 3/8", 1/2" and 3/4"
- 1 Warranty certificate



Standard Equipment
also includes
molded plastic
carrying case,
operating manual,
auto lubrication,
safety strap,
carabin hook and
allen keys.



See pages 58-67 for our Annular Cutters - HSS, Carbide-tipped, Armor Plated, & Cobalt. Available up to 6" Dia. and 10" Depth.



➤ Annular Cutters: pages 58-67 ➤ Accessories: pages 69-75



MAB 825 KTS



Versatile machine with adjustable X and Y positioning



Powerful • Reliable

- 16 Amp double-insulated motor
- 4-speed oilbath gearbox for applications requiring high power
- Designed for continuous use
- Infinitely variable torque control and full-wave control electronics
- Ideal for drilling, boring and slotting applications
- Includes servo-assisted drilling feature to help maintain feed pressure during operation

**Drill up to 3-1/8" dia.
Tap up to 1-3/16" dia.**

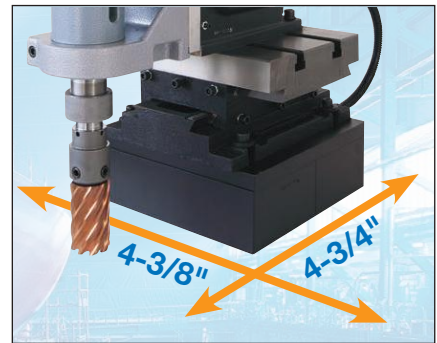
- Multi-axis positioning
- Uses annular cutters up to 3-1/8" dia.
- Twist drilling capacity up to 1-1/4" dia.
- 10" stroke
- Integrated cutting oil reservoir
- Automatic internal lubrication

Integrated Safety


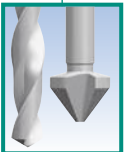
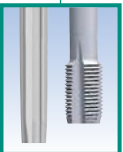



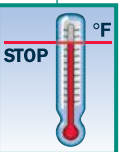


- Simple, ergonomic arrangement of controls for one-handed operation
- Emergency-off function



REVERSIBLE

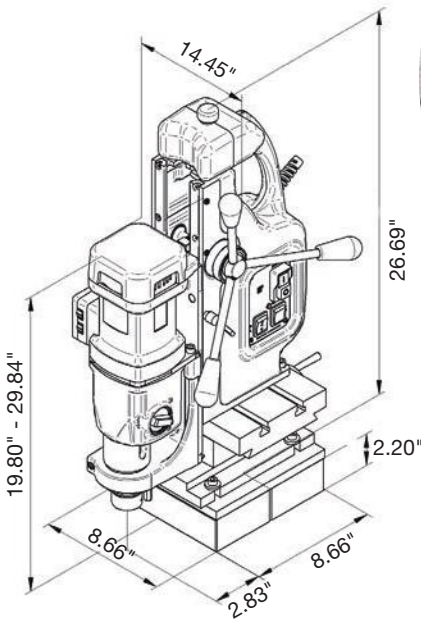


Model MAB 825 KTS features multi-axis positioning, allowing the drill to be adjusted up to 4-3/4" forward/backward and up to 4-3/8" left/right after magnet is adhered to surface. Ideal for job site drilling, boring and slotting applications where dismantling is not feasible.

Cutter Capacity	Twist Drill / Countersink	Ream / Tap	Stroke (length)	4-gear Variable Speed (RPM)	Electronics	Overheat Protection	Magnet Force Indicator	Reversible (CW/CCW)
 Ø 3 1/8"	 Ø 1 1/4" / 1 37/64"	 Ø 1 1/4" / Ø 1 1/4"	 10"	 40-110, 65-175, 140-360, 220-600	 Variable-speed Control	 CoolMag™	 SafeMag™	 Reversible (CW/CCW)

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MAB 825 KTS



Scan to Learn More!

Chuck Collet Tool Holder Set with Case

Part No. ZSF 316 (included) can hold most standard end mills with shanks from 1/8" to 5/8" dia. (3mm to 16mm dia.). Kit includes:

- MT3 collet holder with threaded adapter piece
- 15 collets for shanks diameters 1/8" to 5/8" (3 to 16mm)
- 2 collet tightening spanner wrenches



Model MAB 825 KTS Specifications

Motor Power	16 Amp / 110 Volt
Weight	99 lbs.
Hole Capacity	3 1/8" dia.
Twist Drill Capacity	1 1/4" dia.
Tapping Capacity	1 3/16" dia.
Speed	40-110, 65-175 140-360, 220-600 RPM
Magnet Base Size	8 11/16" L x 8 11/16" W
Dimensions	19 3/4" H x 13" L x 14 1/2" W
Magnetic Force (1" plate)	6600 lbs.
Arbor Bore	3/4" and 1 1/4", standard
Spindle	MT3
Automatic Lubrication	Included

Optional 3/4" geared chucks available (Part No. IBC 21)

Standard Equipment

- 1 Magnetic drilling machine
- 1 Chuck collet tool holder set
- 1 Steel carrying case†
- 1 Safety chain
- 1 Operating manual
- 1 Warranty certificate

Standard Equipment also includes auto lubrication, safety strap, carabin hook and allen keys.

† Steel case intended mainly for shipping purposes; damage may occur in transit.

➤ [Annular Cutters: pages 58-67](#) ➤ [Accessories: pages 69-75](#)



Cutter capacity
4 1/16" dia.

MAB 825/845, MAB 825 V/845 V



Ideal for steel engineering, plant construction and more



Powerful • Reliable

- 16 Amp double-insulated motor
- 4-speed oilbath gearbox for applications requiring high power
- Designed for continuous use
- Infinitely variable torque control and full-wave control electronics

**Drill up to 4-1/16" dia.
Tap up to 1-1/8" dia.**

- Uses annular cutters up to 4-1/16" dia.
- Twist drilling and reaming capacities up to 1-1/4" dia.
- Tapping capacity up to 1-1/8" dia.
- Integrated cutting oil reservoir
- Automatic internal lubrication
- Automatic feed (model MAB 825 V), ideal for production applications
- Swivel base (model MAB 845)

Keyless Cutter Mount

- Quick-change keyless cutter system for 3/4" Weldon shank
- Arbor for 1-1/4" Weldon shank
- Also includes manual arbor for 3/4" Weldon shank (MT3) with set screws

Integrated Safety

- Green/Red LED magnetic force indicator for safe operation
- Internal cable routing
- Simple, ergonomic arrangement of controls for one-handed operation
- Emergency-off function



Internal cable routing protects the motor power cord from external damage

Equipped with Electronic Safety Shutoff Sensor (see p. 25)



4 Gears with Variable Speed



Twist Drilling



Tapping



Reaming



Countersinking

MAB 825

Standard model with 16 Amp motor

MAB 825 V

Includes automatic feed – ideal for production applications


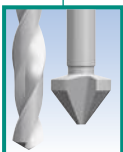
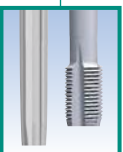


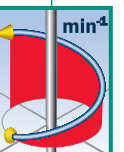
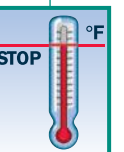


MAB 845

Includes 30° movement left and right and 3/4" forward and backward

MAB 845 V

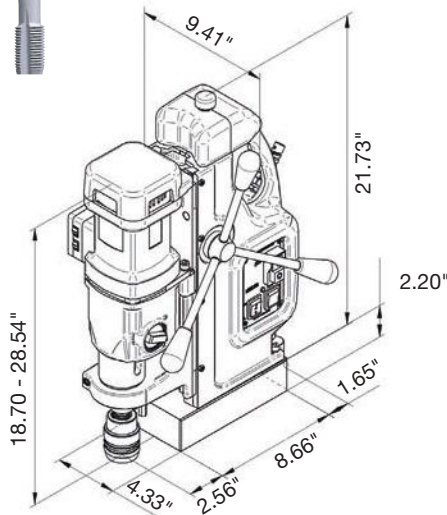
Includes 30° movement left and right and 3/4" forward and backward

See pages 53 & 72-74 for Tap Holders and Accessories

Cutter Capacity	Twist Drill / Countersink	Ream / Tap	Stroke (length)	4-gear Variable Speed (RPM)	Electronics	Overheat Protection	Magnet Force Indicator	Reversible (CW/CCW)
								
Ø 4 1/16"	Ø 1 1/4" / Ø 2"	Ø 1 1/4" / Ø 1 1/8"	10"	40-110 65-175 140-360 220-600	Variable-speed Control	CoolMag™	SafeMag™	

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Specifications



Model MAB 825, 825 V, 845, 845 V



With an optional 3/4" geared chuck (Part No. IBC 21), this model easily converts to a standard drill press for conventional twist drills.



Model MAB 845 & MAB 845 V features a swivel base providing 30° movement left and right and 3/4" forward and backward.

Model MAB 825 V & MAB 845 V features automatic forward and reverse motor for faster drilling, and increased cutter life. MSee page odel

Model MAB 825 & 845 Specifications

Motor Power	16 Amp / 110 Volt
Weight	55 lbs.
Hole Capacity	4 1/16" dia.
Twist Drill Capacity	1 1/4" dia.
Tapping Capacity	1 1/8" dia.
Speed	40-110, 65-175, 140-360, 220-600 RPM
Magnet Base Size	8 5/8" L x 4 1/3" W
Dimensions	18 5/8" H x 14 7/16" L x 9 7/16" W
Magnetic Force (1" plate)	6600 lbs.
Arbor Bore	3/4" and 1 1/4", standard
Spindle	MT3
Automatic Lubrication	Included
Automatic Feed Model	Order MAB 825 V, MAB 845 V
Swivel Base Model	Order MAB 845, MAB 845 V

Standard Equipment

- 1 Magnetic drilling machine
- 1 Quick-change arbor system
KEYLESS Weldon 3/4"
- 1 Manual arbor with set screws,
Weldon 3/4", MT3
- 1 Arbor 1 1/4" Weldon, MT3*
- 4 Pilot pins - 1", 2", 3" and 4" depth
- 1 Safety chain
- 1 Hexagon socket screw key SW 6
- 1 Drift key MT3
- 1 Warranty certificate
- 1 Carrying case**



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Learn
More!



Standard Equipment also includes operating manual, auto lubrication, safety strap, carabin hook and allen keys.

* Optional accessory for MAB 825 V

** Not available for MAB 825 V, MAB 845 V

Rolling Transport Case

Robust transport case with wheels, carrying handle and sturdy closures. Included with MAB 825/845 – protect your drill from water and dust with this rugged case. (Part No. ZHK 825)



> Annular Cutters: pages 58-67 > Accessories: pages 69-75



Cutter capacity
6" dia.

MAB 1300 & 1300V



Large holes – up to 6" diameter
Tapping up to 1⁵/₈" diameter

Powerful • Reliable

- 20 Amp double-insulated motor
- 34-1/2" high, 112 lbs.
- 4-speed oilbath gearbox for applications requiring high power
- Designed for continuous use
- Infinitely variable torque control and full-wave control electronics

Drill up to 6" dia.*

Tap up to 1-5/8" dia.

- Uses annular cutters
7/16" to 6" dia., 1" and 2" depth
7/16" to 6" dia., 3" to 8" depth**
- Twist drilling up to 1-3/4" - uses MT4, countersinking up to 3" dia.
- Tapping up to 1-5/8"
- Reaming up to 2"
- Automatic internal lubrication

Integrated Safety

- Green/Red LED magnetic force indicator for safe operation
- Equipped with Electronic Safety Shutoff Sensor
- Emergency-off function

*Ideal for use with
TCT Carbide cutters
up to 6" dia. – see
pages 60-61.*



* Annular cutter drilling capacity 6" diameter up to 1" thick in carbon steel.

** 3" depth cutters or longer require purchase of ZIA 432 KN adapter.



Equipped with Electronic Safety Shutoff Sensor
(see p. 25)



4 Gears with Variable Speed



Twist Drilling



Tapping



Reaming



Countersinking

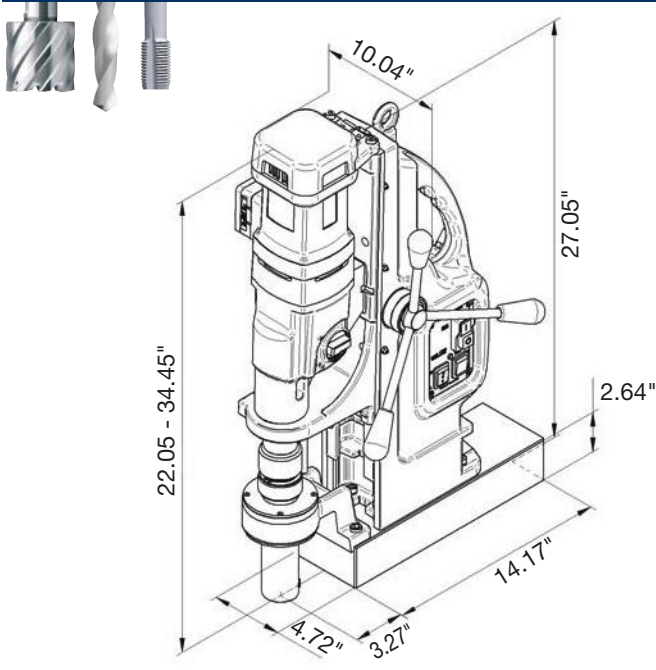


Optional Special-Purpose Cutting Tool

Cutter Capacity	Twist Drill / Countersink	Ream / Tap	Stroke (length)	4-gear Variable Speed (RPM)	Electronics	Overheat Protection	Magnet Force Indicator	Reversible (CW/CCW)
ø 6" up to 1" thick in carbon steel	ø 1 ³ / ₄ " / ø 3"	ø 2" / ø 1 ⁵ / ₈ "	3.35" (12" without retainer)	30-80 50-120 130-350 210-550	Variable-speed Control	CoolMag™	SafeMag™	

> Annular Cutters: pages 58-67 > Accessories: pages 69-75

Specifications



Model MAB 1300



Model MAB 1300 & MAB 1300 V Specifications

Motor Power	20 Amp / 110 Volt
Weight	112 lbs.
Hole Capacity	6" dia.*
Twist Drill Capacity	1 ³ / ₄ " dia.
Tapping Capacity	1 ⁵ / ₈ " dia.
Speed	30-80, 50-120, 130-350, 210-550 RPM
Magnet Base Size	14" L x 4 ³ / ₄ " W
Dimensions	27.05" H x 19 ¹ / ₂ " L x 10" W
Magnetic Force (1" plate)	23,600 lbs.
Arbor Bore	1 ¹ / ₄ " (3 ³ / ₄ " adapter included)
Spindle	MT4
Automatic Lubrication	Included
Automatic Feed Model	Order MAB 1300 V

* Annular cutter drilling capacity 6" diameter up to 1" thick in carbon steel. Use TCT cutters for large diameters - see p. 60-61

Standard Equipment

- 1 Magnetic drilling machine
- 1 Carrying case on wheels
- 1 Arbor adapter to 3/4" Weldon
- 1 Safety chain
- 1 Hexagon socket screw key SW 6
- 1 Drift key MT4
- 1 Operating manual
- 1 Warranty certificate



Standard Equipment also includes auto lubrication, safety strap, carabin hook and allen keys.



PORTABLE MAGNETIC DRILLS

➤ Annular Cutters: pages 58-67 ➤ Accessories: pages 69-75

Automatic Magnetic Drills

AutoMAB 350 & 450

- Power feed controls drill pressure to maintain optimal RPM and feed rate
- Continuously optimized drilling pressure for extend annular cutter life and reduced cutter breakage
- Increased productivity one operator can run multiple machines
- Manual drilling mode on all models



MAB 825 V / MAB 845 V

- Drill up to 4-1/16" dia.*, Tap up to 1-1/8" dia, Ream up to 2" dia.
- Power feed controls drill pressure to maintain optimal RPM and feed rate
- Extend annular cutter life and reduce cutter breakage, reducing cutting tool cost
- Ideal for production applications
- Swivel base model available, order MAB 845 V. *The largest capacity automatic-feed, swivel base magnetic drill in the industry.*



Drill automatically



Drill manually

**AUTOMATIC FEED
BOTH UP & DOWN**

See Pages 48-49 for Full Specifications

MAB 1300 V

Largest capacity automatic magnetic drill in the industry!



**AUTOMATIC FEED
BOTH UP & DOWN**



- Drill up to 6" dia.*, Tap up to 1-5/8" dia, Ream up to 2" dia.
- Power feed controls drill pressure to maintain optimal RPM and feed rate
- Extend annular cutter life and reduce cutter breakage, while increasing productivity and profit
- Ideal for production applications



Drill automatically



Drill manually

See Pages 50-51
for Full Specifications

Tapping Accessories for MAB 1300, MAB 825, MAB 845 and CSU 100/3RL



Heavy-duty Tap Holders

- Positive, accurate driving of larger-sized taps
- No slippage or tap damage
- Tap shank square engages with square drive socket
- 3 set screws secure tap in holder

Order Number	Morse Taper	Tap Size	Tap Shank Diameter	Tap Shank Square
70308	3	5/8"	.480	.366
70301	3	3/4"	.590	.442
70302	3	7/8"	.697	.523
70303	3	1"	.800	.600
70304	3	1-1/8"	.896	.672
70305	3	1-1/4"	1.02	.765
70307	3	1-1/2"	1.23	.925
70401	4	3/4"	.590	.442
70402	4	7/8"	.697	.523
70403	4	1"	.800	.600
70404	4	1-1/8"	.896	.672
70405	4	1-1/4"	1.021	.766
70406	4	1-3/8"	1.108	.831
70407	4	1-1/2"	1.233	.925
70408	4	1-5/8"	1.305	.979



Part No. **GSS 444** quick-change tapping chuck with MT4 connection (for MAB 1300). Collets not included. *GSS 444 and GSS.4xx collet set shown below.*

Order Number	Tap Collet	Shank Diameter	Square Drive
GSS.420	20mm	16mm	12mm
GSS.422	22mm	18mm	14.5mm
GSS.427	27mm	20mm	16mm
GSS.433	33mm	32mm	20mm
GSS.442	42mm	32mm	24mm



See page 72-73 for additional tapping options.



Tap Collets and Reducing Adapters

Tap Collets with 3/4" or 1-1/4" Weldon shank <i>all threads shown are ASA Standard (or DIN 376 for metric)</i>			
Thread	Order No.	Thread	Order No.
1/4	TCM 1/4	10mm	ZGA 010
5/16	TCM 5/16	12mm	ZGA 012
3/8	TCM 3/8	14mm	ZGA 014
7/16	TCM 7/16	16mm	ZGA 016
1/2	TCM 1/2	18mm	ZGA 018
9/16	TCM 9/16	20mm	ZGA 020
5/8	TCM 5/8	22mm	ZGA 022
11/16	TCM 11/16	24mm	ZGA 024
3/4	TCM 3/4	27mm	ZGA 027
1-1/4" Weldon shank:			
1	TCM 1	33mm	ZGA 033
1-1/4	TCM 1-1/4	42mm	ZGA 042

Bushing – Reduces 1-1/4" Weldon shank to 3/4" Weldon shank
Order No. **ZAP 200**



Reducing Sleeves



Order No. **ZRH 320** for MT 3:2
(adapts MT3 to MT2)

Order No. **ZRH 430** for MT 4:3
(adapts MT4 to MT3)

Unibroach® Large-Hole Cutting Cut holes up to 6" dia., 10" deep!

Available in TCT Carbide, HSS, Cobalt and ARMOR-PLATED Unibroach™



- Drill perfect holes without runout
- Pilot pin included up to 4" depth*
 - Standard with 3/4" or 1 1/4" shank diameters
 - More cutting teeth to distribute the load evenly – increase tool life and achieve faster feed rates
 - Use on milling machines, drill presses, CNC and other equipment

* For sizes over 4" depth pilot pins can be purchased separately.





AIRBOR™ AB-4300

Motor and magnet are powered completely by compressed air

Pneumatic power for hazardous environments

ATEX Certified

Safe • Reliable

- Inherently safer than electromagnetic drills in hazardous atmospheres and wet environments where electricity requires "hot work permits"
- ATEX certified
- Industry's first completely air-operated magnetic drill – NO ELECTRICITY!
- Fail-safe permanent magnet is activated "on" and "off" by air pressure; in the event of a loss of air flow, the magnet will not disengage
- 1600 lbs. magnet holding strength

Drill up to 2-1/16" dia.

- Uses annular cutters up to 2-1/16" dia.
- Twist drilling capacity up to 5/8" dia.
- Powerful 1.6 HP drill motor
- Long drill stroke – up to 10 1/4"
- Pressurized coolant system lubricates cutter and reduces risk of sparking



Model AB-4300-2



With a geared chuck adapter (Part No. IBC 18) and extra rack (Model No. AB-4300-2R), AIRBOR™ easily converts to a standard drill press with a 7 1/2" stroke.



Pressurized lubrication system (Part No. 9 4002 0020 N)



Scan to Learn More!

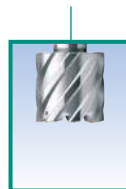


AB-4300-2R shown with extra rack up (left) and extra rack down (right).

Model Comparison

AB-4300-2R		AB-4300-2	
Drill Stroke			
w/cutters	w/chuck	w/cutters	w/chuck
10 1/4"	7 1/2"	4 7/8"	1 3/4"
Height			
closed	open	closed	open
13 1/2"	22"	13 1/2"	17 1/2"
Weight			
43 lbs.	20 kg	38 lbs.	18 kg

Cutter Capacity



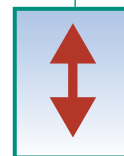
ø 2 1/16"

Twist Drill / Countersink



5/8"

Stroke (length)



Up to 10 1/4"

Speed Range (RPM)



400

Model AB-4300-2 / AB-4300-2R Specifications

Motor Power (Pneumatic)	1.6 HP
Air Consumption @ 90 PSI	64 CFM (1/2" NPT Air Connection)
Hole Capacity	2 1/16" dia.
No Load Speed	400 RPM
Magnet Base Size	8 3/4" L x 3 1/2" W
Dimensions	13 1/2" H x 12 1/2" L x 4 3/4" W
Magnetic Force (1" plate)	1600 lbs.
Arbor Bore	3/4" Weldon Shank
Automatic Lubrication	Included
Stroke Length 4 7/8"	Order Model AB-4300-2
Stroke Length 10 1/4"	Order Model AB-4300-2R

> Annular Cutters: pages 58-67 > Accessories: pages 69-75

HB 4400 for Subsea Drilling

Hydraulic for marine and construction – works underwater



Safe • Reliable

- Ideal for industrial, construction, marine and mining applications
- Drill structural steel and other metals
- Hydraulic motor safe for underwater use
- Manually operated permanent magnet with ratchet control has holding strength of 1300 lbs.

Drill up to 2-1/16" dia.

- Uses annular cutters up to 2-1/16" dia.
- Twist drilling capacity up to 1/2" dia.
- Automatic lubrication



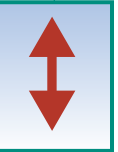



With a 3/4" chuck (Part No. 602045A), this model easily converts to a standard drill press with a 3" stroke.



Scan to Learn More!

Model HB 4400
Hoses not included

Cutter Capacity	Twist Drill	Stroke (length)	Speed Range (RPM)
			
Ø 2 1/16"	1/2"	Up to 3 3/4"	0-630



Model HB 4400 Specifications

Motor Power (Hydraulic)	1.5 HP
Weight	48 1/2 lbs.
Hole Capacity	2 1/16" dia.
Twist Drill Capacity	1/2" dia.
No Load Speed, Variable	0-630 RPM
Hydraulic Supply	Flow 6.5 GPM @ 2000 PSI
Magnet Base Size	7 1/4" L x 3" W
Dimensions	18 1/2" H x 12 1/2" L x 7" W
Magnetic Force (1" plate)	1300 lbs.
Automatic Lubrication	Included

➤ [Annular Cutters: pages 58-67](#) ➤ [Accessories: pages 69-75](#)



Cutter capacity
4" dia.

Model 2 1345 0020 – Hydraulic

Ideal for use in Ex Zones and subsea applications

ATEX Certified

Safe • Reliable

- Hydraulic motor safe for underwater use
- Ideal for industrial, construction, marine and mining applications
- ATEX Certified EX II 2Gc IIB T5
- Drill structural steel and other metals
- Manually operated permanent magnet with lever control has holding strength of 1874 lbs.

Drill up to 4" dia.

- Uses annular cutters up to 4" dia.
- Twist drilling capacity up to 1-1/4" dia.
- Tapping capacity up to 1" dia.



Scan to
Learn More!



Model 2 1345 0020 Specifications

Motor Power (Hydraulic)	3.4 HP
Weight	50 lbs.
Hole Capacity	4" dia.
Twist Drill Capacity	1 1/4" dia.
No Load Speed, Variable	40-250 RPM
Hydraulic Supply	Flow 5.3 GPM @ 2000 PSI
Magnet Base Size	11 11/16" L x 4" W
Dimensions	21 1/2" H x 15 7/16" L x 7 3/4" W
Magnetic Force (3/8" plate)	1874 lbs.
Spindle	MT3
Larger Magnet	Order Model 2 1345 0020 12.835" x 7.480" magnet 3,307 lbs. magnetic force

Pipe Clamp – Model 2 1330 8500



Optional clamp allows right angle drilling of steel, cast iron, cement and plastic pipes up to 19-1/2" dia.

Extension chains available for pipes up to 43-1/4" dia.

P/N 5 1201 9030* – For pipes up to 31-1/2" (800mm)

P/N 5 1201 9020* – For pipes up to 43-1/4" (1100mm)

* 2 pieces needed for one clamp

Cutter Capacity

Twist Drill /
Countersink

Ream / Tap

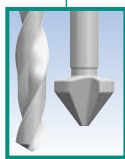
Stroke
(length)

Variable
Speed (RPM)

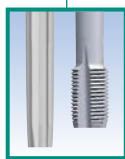
Reversible
(CW/CCW)



ø 4"



ø 1 1/4" / ø 2"



ø 1 1/8" / ø 1"



12"



40-250



Standard Equipment includes hydraulic hose set, coolant bottle, arbor adapter to 3/4" Weldon, arbor adapter to 1-1/4" Weldon, safety chain, drift key, allen keys and carrying case.

> Annular Cutters: pages 58-67 > Accessories: pages 69-75

Underwater Tools

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

Over 50 models of underwater tools available visit csunitec.com/underwater learn more about CS Unitec's wide range of underwater tools

Grinders - Hydraulic

- 1 1580 0060 N 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 2426 0010 Underwater Hydraulic Rotary Hammer Drill, SDS Plus, 1" cap. in concrete, 0-3400 BPM, .8 HP; includes built-in pressure reducing valve
- 2 2418 0020 Underwater Hydraulic Rotary Hammer Drill, SDS Max, 2" cap. in concrete, 2500 BPM, 1.75 HP, includes pressure reducing valve

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



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

Woodboring Drills - Pneumatic See page 81

Reciprocating Saws - Hydraulic and Air See page 114-115

Circular Saws - Hydraulic See page 112-113

Hacksaws - Hydraulic See page 118-119

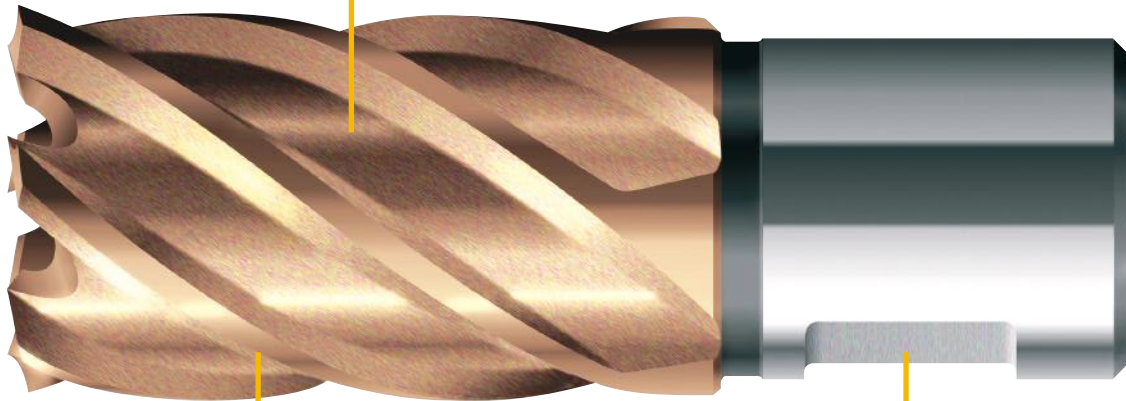
Portable Band Saws - Air, Electric, Hydraulic See page 116-117



Annular Cutters

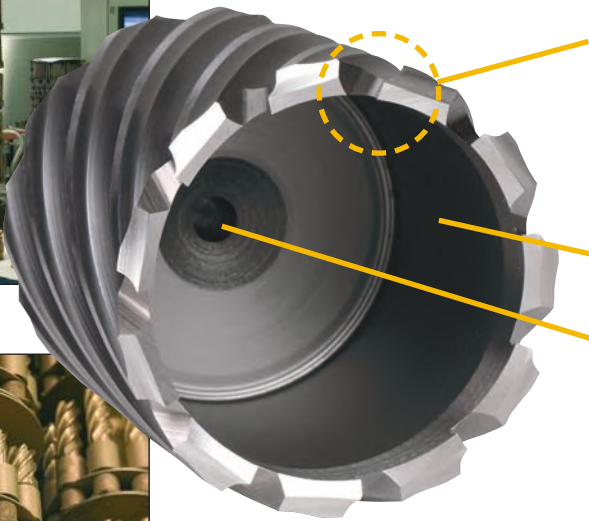
Achieve burr-free finished holes, without predrilling or stepdrilling

Precision-ground flutes provide efficient chip clearance, increasing drilling productivity and decreasing cutter breakage



Hardened, high-speed tool steel

Weldon Shank



Benefits of CS Unitec's Cutter Design:

Double-action tooth geometry cuts, splits and ejects chips more efficiently,

- increasing cutting speed
- reducing tooth load
- minimizing tool wear
- lengthening cutter life

Engineered with a tapered inner wall for smooth, easy slug ejection.

Center hole for pilot pin accurately aligns the cutter, allows for internal lubrication and removes the slug.



Perfect drilling to close tolerances without runout. The result: a burr-free finished hole.

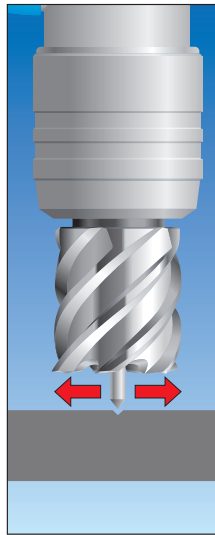


Pilot Pins: How they work...



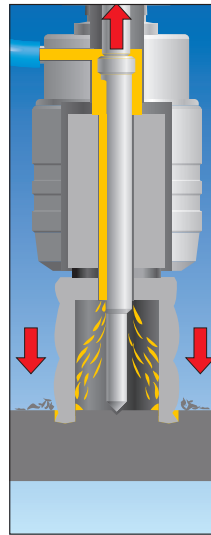
Pilot Pin included with every annular cutter up to 4" DOC

1: Centering



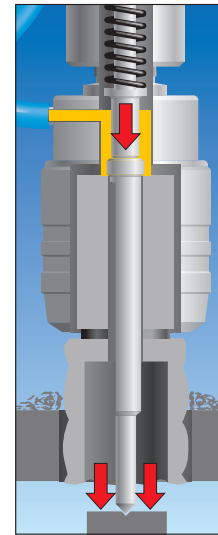
The pilot pin accurately centers cutter over area to be drilled.

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.

6-Series HSS Unibroach™ Annular Cutters – Pages 60-61

Fully Ground Dual-Action, HSS Annular Cutters - Metric, Stack and 32nd Size Cutters also Available

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



7-Series Cobalt Unibroach™ Annular Cutters – Pages 67

Fully Ground High Cobalt Annular Cutters

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



8-Series ARMOR-PLATED Unibroach™ Annular Cutters – Pages 62-63

Fully Ground HSS with TiAlN Coating Annular Cutters - Metric, Stack and 32nd Size Cutters also Available

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



9-Series Unibroach™ TCT Hornet Annular Cutters – Pages 64-65

Annular Cutters with Sintered Tungsten Carbide Tips - Metric, Stack and 32nd Size Cutters also Available

Cutting depth:	1"*	2-3/8"	3-3/8"	4"	6"	8"	10"
Drilling ø:	1/2" - 2"	1/2" - 5-1/8"	3/4" - 5-1/8"	3/4" - 6"	3/4" - 6"	3/4" - 6"	3/4" - 6"

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



4-Series TCT Rail Cutters – Pages 67

Cut holes up to 1-11/16" dia. in railroad track

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



47-Series Lightning Cobalt Rail Cutters – Pages 67

Cut holes up to 1-11/16" dia. in railroad track

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



10-Series One-Touch TCT – Pages 66

Compatible with Nitto Kohki & other auto-feed machines

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



1 & 2 Series TCT Hole Saws for metal cutting available up to 4-1/2" diameter
See page 68 for more information

➤ See pages 69-75 for Drill Accessories

Unibroach® Annular Cutters

High-speed steel for drilling 3x faster than twist drills

ANNULAR CUTTERS



Annular Cutters are the standard hole-making drills in the industry. Ideal for heavy-duty use on-site or in the shop, our HSS Unibroach™ cutters are available in the following sizes:

Drill Depth	1"	2"	3"	4"	6"	8"
Diameter	Ø 7/16" to Ø 5 1/8"	Ø 7/16" to Ø 5 1/8"	Ø 3/4" to Ø 5 1/8"	Ø 3/4" to Ø 6"	Ø 3/4" to Ø 6"	Ø 3/4" to Ø 6"

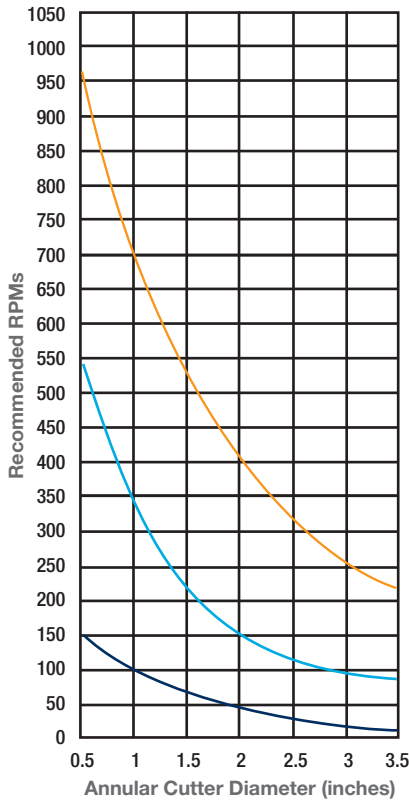
Metric, Stack and 32nd Size Cutters also Available.

Every annular cutter up to 4" DOC includes a pilot pin.*

- CNC precision ground for fast penetration, accuracy and long life
- Flutes run the length of the cutter for efficient chip clearance, increased drilling productivity and decreased cutter breakage
- Drill holes 3 times faster than twist drills
- Produce reamed-quality, burr-free holes and solid slugs
- Reduce machine size and weight
- Cutting edges are resharpenable
- Eliminate time-consuming, costly pilot holes and step drilling

HSS Cutters must be used with lubricant.
See page 70 for CS Unitec lubricants and cutting oil.

**Annular Cutter
Recommended
Revolutions Per Minute**
Recommended Feed Rate:
.002 - .004 inches per revolution



Aluminum
200 ft./min.

Mild Steel
(Carbon)
80 ft./min.

High Tensile
Steel
(Stainless)
30 ft./min.



Scan to
Learn More!

See page 69 for HSS
Annular Cutter kits

* Pilot pins supplied with annular cutters up to 4" DOC.
Other pilot pins can be purchased separately.



Unibroach® Stack Cutters are available in diameters from 9/16" to 1 1/8" in 1", 2" and 3" depths. Drill multiple layers of steel without stopping to remove the center slug. Please contact us or consult our price list for more information.

6-Series HSS

1" Depth

Order No.	Diameter
6-1-114	7/16"
6-1-116	1/2"
6-1-118	9/16"
6-1-120	5/8"
6-1-122	11/16"
6-1-124	3/4"
6-1-126	13/16"
6-1-128	7/8"
6-1-130	15/16"
6-1-132	1"
6-1-134	1-1/16"
6-1-136	1-1/8"
6-1-138	1-3/16"
6-1-140	1-1/4"
6-1-142	1-5/16"
6-1-144	1-3/8"
6-1-146	1-7/16"
6-1-148	1-1/2"
6-1-150	1-9/16"
6-1-152	1-5/8"
6-1-154	1-11/16"
6-1-156	1-3/4"
6-1-158	1-13/16"
6-1-160	1-7/8"
6-1-162	1-15/16"
6-1-164	2"
6-1-166	2-1/16"
6-1-168	2-1/8"
6-1-170	2-3/16"
6-1-172	2-1/4"
6-1-174	2-5/16"
6-1-176	2-3/8"
6-1-178	2-7/16"
6-1-180	2-1/2"
6-1-182	2-9/16"
6-1-184	2-5/8"
6-1-186	2-11/16"
6-1-188	2-3/4"
6-1-190	2-13/16"
6-1-192	2-7/8"
6-1-194	2-15/16"
6-1-196	3"
6-1-198	3-1/16"
6-1-1100	3-1/8"
6-1-1102	3-3/16"
6-1-1104	3-1/4"
6-1-1106	3-5/16"
6-1-1108	3-3/8"
6-1-1110	3-7/16"
6-1-1112	3-1/2"
6-1-1114	3-9/16"
6-1-1116	3-5/8"
6-1-1118	3-11/16"
6-1-1120	3-3/4"
6-1-1122	3-13/16"
6-1-1124	3-7/8"
6-1-1126	3-15/16"
6-1-1128	4"

2" Depth

Order No.	Diameter
6-1-214	7/16"
6-1-216	1/2"
6-1-218	9/16"
6-1-220	5/8"
6-1-222	11/16"
6-1-224	3/4"
6-1-226	13/16"
6-1-228	7/8"
6-1-230	15/16"
6-1-232	1"
6-1-234	1-1/16"
6-1-236	1-1/8"
6-1-238	1-3/16"
6-1-240	1-1/4"
6-1-242	1-5/16"
6-1-244	1-3/8"
6-1-246	1-7/16"
6-1-248	1-1/2"
6-1-250	1-9/16"
6-1-252	1-5/8"
6-1-254	1-11/16"
6-1-256	1-3/4"
6-1-258	1-13/16"
6-1-260	1-7/8"
6-1-262	1-15/16"
6-1-264	2"
6-1-266	2-1/16"
6-1-268	2-1/8"
6-1-270	2-3/16"
6-1-272	2-1/4"
6-1-274	2-5/16"
6-1-276	2-3/8"
6-1-278	2-7/16"
6-1-280	2-1/2"
6-1-282	2-9/16"
6-1-284	2-5/8"
6-1-286	2-11/16"
6-1-288	2-3/4"
6-1-290	2-13/16"
6-1-292	2-7/8"
6-1-294	2-15/16"
6-1-296	3"
6-1-298	3-1/16"
6-1-2100	3-1/8"
6-1-2102	3-3/16"
6-1-2104	3-1/4"
6-1-2106	3-5/16"
6-1-2108	3-3/8"
6-1-2110	3-7/16"
6-1-2112	3-1/2"
6-1-2114	3-9/16"
6-1-2116	3-5/8"
6-1-2118	3-11/16"
6-1-2120	3-3/4"
6-1-2122	3-13/16"
6-1-2124	3-7/8"
6-1-2126	3-15/16"
6-1-2128	4"

3" Depth*

Order No.	Diameter
N/A	
N/A	
N/A	
N/A	
6-1-322	11/16"
6-1-324	3/4"
6-1-326	13/16"
6-1-328	7/8"
6-1-330	15/16"
6-1-332	1"
6-1-334	1-1/16"
6-1-336	1-1/8"
6-1-338	1-3/16"
6-1-340	1-1/4"
6-1-342	1-5/16"
6-1-344	1-3/8"
6-1-346	1-7/16"
6-1-348	1-1/2"
6-1-350	1-9/16"
6-1-352	1-5/8"
6-1-354	1-11/16"
6-1-356	1-3/4"
6-1-358	1-13/16"
6-1-360	1-7/8"
6-1-362	1-15/16"
6-1-364	2"
6-1-366	2-1/16"
6-1-368	2-1/8"
6-1-370	2-3/16"
6-1-372	2-1/4"
6-1-374	2-5/16"
6-1-376	2-3/8"
6-1-378	2-7/16"
6-1-380	2-1/2"
6-1-382	2-9/16"
6-1-384	2-5/8"
6-1-386	2-11/16"
6-1-388	2-3/4"
6-1-390	2-13/16"
6-1-392	2-7/8"
6-1-394	2-15/16"
6-1-396	3"
6-1-398	3-1/16"
6-1-3100	3-1/8"
6-1-3102	3-3/16"
6-1-3104	3-1/4"
6-1-3106	3-5/16"
6-1-3108	3-3/8"
6-1-3110	3-7/16"
6-1-3112	3-1/2"
6-1-3114	3-9/16"
6-1-3116	3-5/8"
6-1-3118	3-11/16"
6-1-3120	3-3/4"
6-1-3122	3-13/16"
6-1-3124	3-7/8"
6-1-3126	3-15/16"
6-1-3128	4"



Shank size:

**3/4" for cutters up to 3" dia.
1-1/4" for cutters 3-1/16 to 5-1/8" dia.**

Pilot pin included with every annular cutter up to 4" DOC

Cutter Kits

Each HSS steel cutter kit comes with the following: 9/16", 11/16", 13/16", 15/16", 1-1/16", pilot pins & carrying case.

Order No.	Description
6-1-001	1" depth Cutter Kit
6-1-002	2" depth Cutter Kit

Pilot Pins for 6-Series

Order No.	Description
For 3/4" Shanks	
7-3-102	7/16" - 3" dia., 1" depth
7-3-202	7/16" - 3" dia., 2" depth
7-3-302	3/4" - 3" dia., 3" depth
For 1-1/4" Shanks	
7-3-1002	3-1/16" - 5-1/8" dia., 1" depth
7-3-2002	3-1/16" - 5-1/8" dia., 2" depth
7-3-3002	3-1/16" - 5-1/8" dia., 3" depth

Option for Cutters 3" and 4" Depth

7-3-402	2-piece pin for 3" and 4" depth cutters with 8mm pilot hole.
---------	--

Option for Cutters 6" and 8" Depth

9-3-602 C	Pin for 6" depth cutters with 8mm pilot hole.
9-3-802 C	Pin for 8" depth cutters with 8mm pilot hole.

* Cutters with 3" depth have an 8mm dia. pilot hole.



Scan or visit
www.csunitec.com to
see all sizes available

**4", 6", 8" depth HSS annular cutters also available.
Large diameter & custom sizes available with low MOQ.
Call today to speak to a CS Unitec specialist**

➤ See pages 69-75 for Drill Accessories

Unibroach® Annular Cutters

TiAlN Carbide coating for up to 4x tool life, less friction and more power

Less Friction = Less Heat = More Holes!

ANNULAR CUTTERS



ARMOR-PLATED Unibroach™ Cutters, at 90Rc hardness, are the state-of-the-art in hole cutting technology. They multiply service life, reduce cost and increase productivity.

ARMOR-PLATED Unibroach™ cutters are available in the following sizes:

Drill Depth	1"	2"	3"
Diameter	∅ 7/16" to ∅ 5 1/8"	∅ 7/16" to ∅ 5 1/8"	∅ 3/4" to ∅ 5 1/8"



Special sizes available; metric cutters available on request.

Every annular cutter up to 4" DOC includes a corresponding pilot pin.

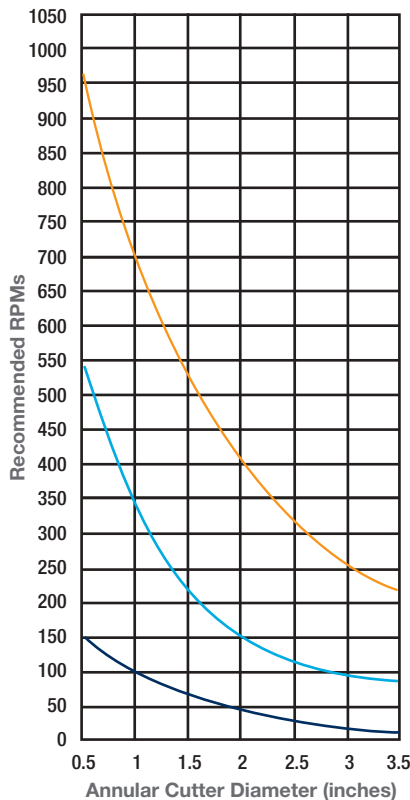
- 3 to 4 times longer tool life with TiAlN Carbide coating
- Drill with less friction and more power
- Withstands higher working temperatures – up to 1480°F (800°C)
- Dry drilling or lubricating with water simplifies working conditions and cleanup
- Prevents cold weld – metal chips do not adhere to the cutter
- Ideal for structural steel and hard metal
- 3/4" dia. shank (1 1/4" dia. shank available)

After the TiAlN Carbide coating is worn, lubricate with cutting oil



Scan to Learn More!

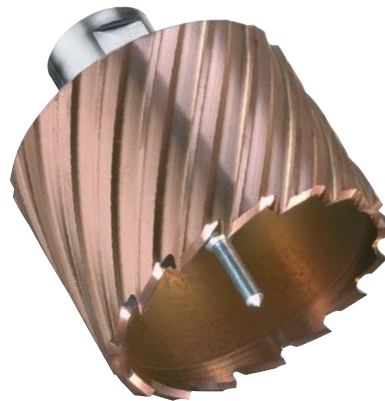
Annular Cutter Recommended Revolutions Per Minute
Recommended Feed Rate:
.002 - .004 inches per revolution



Aluminum
200 ft./min.

Mild Steel (Carbon)
80 ft./min.

High Tensile Steel (Stainless)
30 ft./min.



See page 69 for ARMOR-PLATED Unibroach™ TiAlN Carbide-Coated Annular Cutter Starter Kit.

Pilot pin included with every annular cutter up to 4" DOC

8-Series ARMOR-PLATED TiAIN

ARMOR-PLATED = Less Friction = Less Heat = More Holes!
Increase tool life and achieve faster feed rates



Shank size: 3/4" up to 3" dia.

ARMOR-PLATED Unibroach™ Cutters, at 90Rc hardness, are the state-of-the-art in hole cutting technology. They multiply service life, reduce cost and increase productivity.



Pilot pin included with every annular cutter up to 4" DOC

1" Depth	
Order No.	Diameter
8-1-114 T	7/16"
8-1-116 T	1/2"
8-1-118 T	9/16"
8-1-120 T	5/8"
8-1-122 T	11/16"
8-1-124 T	3/4"
8-1-126 T	13/16"
8-1-128 T	7/8"
8-1-130 T	15/16"
8-1-132 T	1"
8-1-134 T	1-1/16"
8-1-136 T	1-1/8"
8-1-138 T	1-3/16"
8-1-140 T	1-1/4"
8-1-142 T	1-5/16"
8-1-144 T	1-3/8"
8-1-146 T	1-7/16"
8-1-148 T	1-1/2"
8-1-150 T	1-9/16"
8-1-152 T	1-5/8"
8-1-154 T	1-11/16"
8-1-156 T	1-3/4"
8-1-158 T	1-13/16"
8-1-160 T	1-7/8"
8-1-162 T	1-15/16"
8-1-164 T	2"
8-1-166 T	2-1/16"

2" Depth	
Order No.	Diameter
8-1-214 T	7/16"
8-1-216 T	1/2"
8-1-218 T	9/16"
8-1-220 T	5/8"
8-1-222 T	11/16"
8-1-224 T	3/4"
8-1-226 T	13/16"
8-1-228 T	7/8"
8-1-230 T	15/16"
8-1-232 T	1"
8-1-234 T	1-1/16"
8-1-236 T	1-1/8"
8-1-238 T	1-3/16"
8-1-240 T	1-1/4"
8-1-242 T	1-5/16"
8-1-244 T	1-3/8"
8-1-246 T	1-7/16"
8-1-248 T	1-1/2"
8-1-250 T	1-9/16"
8-1-252 T	1-5/8"
8-1-254 T	1-11/16"
8-1-256 T	1-3/4"
8-1-258 T	1-13/16"
8-1-260 T	1-7/8"
8-1-262 T	1-15/16"
8-1-264 T	2"
8-1-266 T	2-1/16"

3" Depth*	
Order No.	Diameter
N/A	
N/A	
N/A	
N/A	
N/A	
8-1-324 T	3/4"
8-1-326 T	13/16"
8-1-328 T	7/8"
8-1-330 T	15/16"
8-1-332 T	1"
8-1-334 T	1-1/16"
8-1-336 T	1-1/8"
8-1-338 T	1-3/16"
8-1-340 T	1-1/4"
8-1-342 T	1-5/16"
8-1-344 T	1-3/8"
8-1-346 T	1-7/16"
8-1-348 T	1-1/2"
8-1-350 T	1-9/16"
8-1-352 T	1-5/8"
8-1-354 T	1-11/16"
8-1-356 T	1-3/4"
8-1-358 T	1-13/16"
8-1-360 T	1-7/8"
8-1-362 T	1-15/16"
8-1-364 T	2"
8-1-366 T	2-1/16"

ARMOR-PLATED Cutter Kits

Each armor-plated cutter kit comes with the following: 9/16", 11/16", 13/16", 15/16", 1-1/16", pilot pins & carrying case.

Order No.	Description
8-1-001 T	1" depth Cutter Kit
8-1-002 T	2" depth Cutter Kit

Pilot Pins for 8-Series

Order No.	Description
For 3/4" Shanks	
7-3-102	7/16" - 3" dia., 1" depth
7-3-202	7/16" - 3" dia., 2" depth
7-3-302	3/4" - 3" dia., 3" depth

Option for Cutters 3" and 4" Depth

7-3-402	2-piece pin for 3" and 4" depth cutters with 8mm pilot hole.
---------	--

* Cutters with 3" depth have an 8mm dia. pilot hole.

3"+ Diameter Cutters

Metric and larger diameter cutters available on request.

ARMOR-PLATED Unibroach™ TiAIN Carbide-Coated Cutters:

- Drill with less friction and more power
- Withstand higher working temperatures – up to 1480°F (800°C)
- Dry drill or lubricate with water to simplify working conditions and cleanup**
- Prevent cold weld – metal chips do not adhere to the cutter
- Are ideal for structural steel and hard metal

** After the TiAIN Carbide coating is worn, lubricate with cutting oil



Scan or visit
www.csunitec.com to
 see all sizes available

➤ See pages 69-75 for Drill Accessories

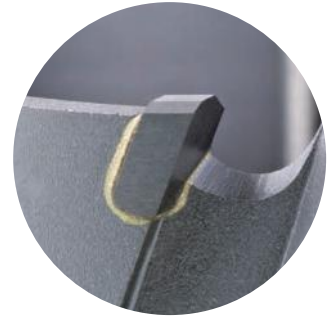
Unibroach® Annular Cutters

TCT Carbide Hornet – tungsten carbide-tipped for high-speed cutting

ANNULAR CUTTERS



- Use high-speed RPM for best results and faster holmaking
- Ideal for drilling steel with rust or paint and bolting applications
- Will outlast High-speed Steel cutters
- Leaves a burr-free finished hole
- Available in all sizes (fractional and metric)
- 2 flats
- 3/4" or 1 1/4" shank
- Pilot pins supplied with annular cutters up to 4" DOC



Closeup of tungsten-carbide teeth.

Drill Depth	1"	1-3/8"	2-3/8"	3-3/8"	4"	6"	8"	10"
Diameter	Ø 1/2" to Ø 1 1/2"	Ø 1 9/16" to Ø 2"	Ø 1 1/2" to Ø 5 1/8"	Ø 3/4" to Ø 5 1/8"	Ø 3/4" to Ø 6"	Ø 1 3/16" to Ø 6"	Ø 1 3/16" to Ø 6"	Ø 1 3/16" to Ø 6"

Metric, Stack and 32nd Size Cutters also Available



Armor plating available upon request.



Scan to Learn More!

9-Series Annular Cutter Recommended RPM Rates

Cutter Size Diameter	Stainless & Alloy Steel	Mild Steel	Iron Plate
	RPM	RPM	RPM
1/2" - 5/8"	500 - 800	600 - 1000	800 - 1200
1 1/16" - 1 3/16"	400 - 640	480 - 800	640 - 960
7/8" - 1 5/16"	330 - 530	400 - 660	530 - 800
1" - 1 3/16"	270 - 420	320 - 530	420 - 640
1 1/4" - 1 3/8"	230 - 370	270 - 460	360 - 550
1 7/16" - 1 9/16"	200 - 320	240 - 400	320 - 480
1 5/8" - 1 3/4"	180 - 280	210 - 350	280 - 420
1 13/16" - 2"	160 - 260	190 - 320	260 - 380
2 1/16" - 2 3/16"	145 - 230	170 - 290	230 - 350
2 1/4" - 2 3/8"	135 - 210	160 - 270	210 - 320
2 7/16" - 2 9/16"	120 - 200	150 - 250	200 - 300
2 5/8" - 2 3/4"	115 - 180	140 - 230	180 - 270
2 13/16" - 2 15/16"	110 - 170	130 - 210	170 - 260
3" - 3 1/8"	100 - 160	120 - 200	160 - 240
3 3/16" - 3 3/8"	95 - 150	115 - 190	150 - 230
3 7/16" - 3 9/16"	90 - 140	110 - 180	140 - 210
3 5/8" - 3 3/4"	85 - 135	105 - 170	135 - 200
3 13/16" - 3 15/16"	80 - 130	95 - 160	130 - 195
4" - 4 5/16"	70 - 120	90 - 145	120 - 170
4 3/8" - 4 3/4"	70 - 110	80 - 135	110 - 160
4 13/16" - 5 1/8"	65 - 100	75 - 125	100 - 150

9-Series - TCT Carbide Hornet

1" Depth

Order No.	Diameter
9-1-116 C	1/2"
9-1-118 C	9/16"
9-1-120 C	5/8"
9-1-122 C	11/16"
9-1-124 C	3/4"
9-1-126 C	13/16"
9-1-128 C	7/8"
9-1-130 C	15/16"
9-1-132 C	1"

1-3/8" Depth

Order No.	Diameter
9-1-134 C	1-1/16"
9-1-136 C	1-1/8"
9-1-138 C	1-3/16"
9-1-140 C	1-1/4"
9-1-142 C	1-5/16"
9-1-144 C	1-3/8"
9-1-146 C	1-7/16"
9-1-148 C	1-1/2"

2-3/8" Depth

Order No.	Diameter
9-1-266 C	2-1/16"
9-1-268 C	2-1/8"
9-1-270 C	2-3/16"
9-1-272 C	2-1/4"
9-1-274 C	2-5/16"
9-1-276 C	2-3/8"
9-1-278 C	2-7/16"
9-1-280 C	2-1/2"
9-1-282 C	2-9/16"
9-1-284 C	2-5/8"
9-1-286 C	2-11/16"
9-1-288 C	2-3/4"
9-1-290 C	2-13/16"
9-1-292 C	2-7/8"
9-1-294 C	2-15/16"
9-1-296 C	3"
9-1-298 C	3-1/16"
9-1-2100 C	3-1/8"
9-1-2102 C	3-3/16"
9-1-2104 C	3-1/4"
9-1-2106 C	3-5/16"
9-1-2108 C	3-3/8"
9-1-2110 C	3-7/16"
9-1-2112 C	3-1/2"

3-3/8" Depth

Order No.	Diameter
9-1-368 C	2-1/8"
9-1-370 C	2-3/16"
9-1-372 C	2-1/4"
9-1-374 C	2-5/16"
9-1-376 C	2-3/8"
9-1-378 C	2-7/16"
9-1-380 C	2-1/2"
9-1-382 C	2-9/16"
9-1-384 C	2-5/8"
9-1-386 C	2-11/16"
9-1-388 C	2-3/4"
9-1-390 C	2-13/16"
9-1-392 C	2-7/8"
9-1-394 C	2-15/16"
9-1-396 C	3"
9-1-398 C	3-1/16"
9-1-3100 C	3-1/8"
9-1-3102 C	3-3/16"
9-1-3104 C	3-1/4"
9-1-3106 C	3-5/16"
9-1-3108 C	3-3/8"
9-1-3010 C	3-7/16"
9-1-3112 C	3-1/2"
9-1-3114 C	3-9/16"

Order No.	Diameter
9-1-322 C	11/16"
9-1-324 C	3/4"
9-1-326 C	13/16"
9-1-328 C	7/8"
9-1-330 C	15/16"
9-1-332 C	1"
9-1-334 C	1-1/16"
9-1-336 C	1-1/8"
9-1-338 C	1-3/16"
9-1-340 C	1-1/4"
9-1-342 C	1-5/16"
9-1-344 C	1-3/8"
9-1-346 C	1-7/16"
9-1-348 C	1-1/2"
9-1-350 C	1-9/16"
9-1-352 C	1-5/8"
9-1-354 C	1-11/16"
9-1-356 C	1-3/4"
9-1-358 C	1-13/16"
9-1-360 C	1-7/8"
9-1-362 C	1-15/16"
9-1-364 C	2"
9-1-366 C	2-1/16"



Shank size:

3/4" for cutters up to 3" dia.
1-1/4" for cutters 3-1/16 to 5-1/8" dia.

Pilot pin included with every annular cutter up to 4" DOC

Cutter Kits

Each hornet carbide cutter kit comes with the following: 9/16", 11/16", 13/16", 15/16", 1-1/16", pilot pins & carrying case.

Order No.	Description
9-1-001 C	1" depth Cutter Kit
9-1-002 C	2-3/8" depth Cutter Kit

****We also stock Metric Carbide cutters. Please call us for pricing and delivery. Larger diameters and special sizes are available upon request.**

Pilot Pins for 9-Series

Order No.	Description
For 3/4" Shanks	
9-3-101 C	1/2" - 1-1/2" dia., 1" depth
9-3-102 C	1-9/16" - 2" dia., 1-3/8" depth
9-3-202 C	1/2" - 3" dia., 2-3/8" depth
9-3-302 C	3/4" - 3" dia., 3-3/8" depth

For 1-1/4" Shanks	
9-3-202A C	3-1/16" - 5-1/8" dia., 2-3/8" depth
9-3-302 C-L	3-1/16" - 5-1/8" dia., 3-3/8" depth

Option for Cutters 3-3/8" and 4" Depth

7-3-402	2-piece pin for 3-3/8" and 4" depth cutters with 8mm pilot hole.
---------	--

Option for Cutters 6" and 8" Depth

9-3-602 C	Pin for 6" depth cutters with 8mm pilot hole.
9-3-802 C	Pin for 8" depth cutters with 8mm pilot hole.



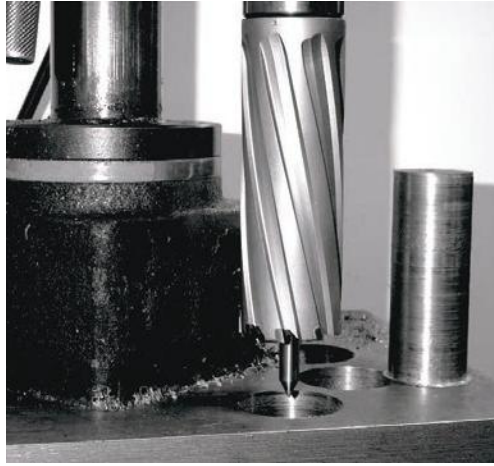
Scan or visit www.csunitec.com to see all sizes available

4", 6", 8", 10" depth TCT annular cutters also available.

➤ See pages 69-75 for Drill Accessories

10-Series One-Touch TCT

Tungsten carbide-tipped with one-touch shank



- No-tool cutter replacement
- When holding with a set screw, tighten to weld on flat rather than dimple area
- Leaves a burr-free finished hole
- 3/4" shank
- Compatible with Nitto Kohki and other auto-feed machines
- Armor plating also available upon request



Pilot pin included with every 10-Series annular cutter

One-Touch TCT cutters are available in the following sizes:

- 1-3/8" drill depth – \varnothing 1/2" to \varnothing 2"
- 2-3/8" drill depth – \varnothing 1/2" to \varnothing 2³/₄"
- 3-3/8" drill depth – \varnothing 1¹/₁₆" to \varnothing 1¹/₁₆"
- 4" drill depth – \varnothing 1¹/₁₆" to \varnothing 1¹/₁₆"

Every 10-Series annular cutter includes a corresponding pilot pin.

- Metric cutters available on request



Shank size: 3/4"

1-3/8" Depth	
Order No.	Diameter
10-1-116 C	1/2"
10-1-118 C	9/16"
10-1-120 C	5/8"
10-1-122 C	11/16"
10-1-124 C	3/4"
10-1-126 C	13/16"
10-1-128 C	7/8"
10-1-130 C	15/16"
10-1-132 C	1"
10-1-134 C	1-1/16"
10-1-136 C	1-1/8"
10-1-138 C	1-3/16"
10-1-140 C	1-1/4"
10-1-142 C	1-5/16"
10-1-144 C	1-3/8"
10-1-146 C	1-7/16"
10-1-148 C	1-1/2"
10-1-150 C	1-9/16"
10-1-152 C	1-5/8"
10-1-154 C	1-11/16"
10-1-156 C	1-3/4"
10-1-158 C	1-13/16"
10-1-160 C	1-7/8"
10-1-162 C	1-15/16"
10-1-164 C	2"

2-3/8" Depth	
Order No.	Diameter
10-1-216 C	1/2"
10-1-218 C	9/16"
10-1-220 C	5/8"
10-1-222 C	11/16"
10-1-224 C	3/4"
10-1-226 C	13/16"
10-1-228 C	7/8"
10-1-230 C	15/16"
10-1-232 C	1"
10-1-234 C	1-1/16"
10-1-236 C	1-1/8"
10-1-238 C	1-3/16"
10-1-240 C	1-1/4"
10-1-242 C	1-5/16"
10-1-244 C	1-3/8"
10-1-246 C	1-7/16"
10-1-248 C	1-1/2"
10-1-250 C	1-9/16"
10-1-252 C	1-5/8"
10-1-254 C	1-11/16"
10-1-256 C	1-3/4"
10-1-258 C	1-13/16"
10-1-260 C	1-7/8"
10-1-262 C	1-15/16"
10-1-264 C	2"

3-3/8" Depth	
Order No.	Diameter
10-1-266 C	2-1/16"
10-1-268 C	2-1/8"
10-1-270 C	2-3/16"
10-1-272 C	2-1/4"
10-1-274 C	2-5/16"
10-1-276 C	2-3/8"
10-1-278 C	2-7/16"
10-1-280 C	2-1/2"
10-1-282 C	2-5/8"
10-1-288 C	2-3/4"

4" Depth	
Order No.	Diameter
10-1-422 C	11/16"
10-1-426 C	13/16"
10-1-430 C	15/16"
10-1-434 C	1-1/16"

Pilot Pins for 10-Series

Order No.	Description
For 3/4" Shanks	
9-3-102 C	9/16" - 2" dia., 1-3/8" depth
9-3-202 C	1/2" - 2-3/4" dia., 2-3/8" depth
9-3-302 C	11/16" - 1-1/16" dia., 3-3/8" depth



Scan or visit
www.csunitec.com to
see all sizes available

➤ See pages 69-75 for Drill Accessories

Rail Cutters

Cut holes up to 1-11/16" dia. in track rail

- Round, clean, burr-free hole – better than spade drills
- 3/4" shank
- More cutting teeth to distribute the load evenly – increase tool life and achieve faster feed rates
- Pilot pin included with each 4-Series cutter
- Armor plating available upon request



4-Series TCT Rail Cutters

- Carbide-tipped rail bits for long life and quick, efficient cutting through rust and corrosion

1-3/8" Depth			
Order No.	Diameter	Order No.	Diameter
4-1-124 C	3/4"	4-1-140 C	1-1/4"
4-1-128 C	7/8"	4-1-142 C	1-5/16"
4-1-130 C	15/16"	4-1-144 C	1-3/8"
4-1-132 C	1"	4-1-146 C	1-7/16"
4-1-134 C	1-1/16"	4-1-148 C	1-1/2"
4-1-136 C	1-1/8"	4-1-152 C	1-5/8"
4-1-138 C	1-3/16"	4-1-154 C	1-11/16"



Pilot Pin for 4-Series

Order No.	Description
4-3-102	3/4" - 1-11/16" dia., 1-3/8" depth



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47-Series Lightning Rail Cutters

- Cobalt rail bits for increased wear resistance
- Thick cutter wall for extra durability and extended tool life
- Turn-style mounting allows quick and easy installation without tools.

1-1/4" Depth			
Order No.	Diameter	Order No.	Diameter
47-1-124 C	3/4"	47-1-140 C	1-1/4"
47-1-128 C	7/8"	47-1-142 C	1-5/16"
47-1-130 C	15/16"	47-1-144 C	1-3/8"
47-1-132 C	1"	47-1-146 C	1-7/16"
47-1-134 C	1-1/16"	47-1-148 C	1-1/2"
47-1-136 C	1-1/8"	47-1-152 C	1-5/8"
47-1-138 C	1-3/16"	47-1-154 C	1-11/16"



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see all sizes available



7-Series Unibroach® Cobalt Cutters

- 5% cobalt for increased wear resistance
- Excellent results when drilling high-tensile steel and difficult-to-machine materials
- Available with TiAlN coating upon request
- Available for hole sizes up to 5" dia.
- 3/4" shank is standard for cutters up to 3" dia.
- Metric cutters available on request
- See our price list for part numbers

Scan or visit
www.csunitec.com to
see all sizes available



➤ See pages 69-75 for Drill Accessories

Carbide-Tipped Hole Saws



Cut holes in steel plate up to 3/8" thick



Model EHB 16/2.4
S R/L C: 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 – see page 68



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"
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"

Order No.	Diameter
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"
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"

Order No.	Diameter
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"

1-Series Accessories

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

2-Series Carbide-Tipped Hole Cutters Extra Heavy Duty

5/8" 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

* These cutters do not include springs.



Scan or visit
www.csunitec.com
to see all sizes available

Accessories

Starter Kits

CS Unitec starter kits offer the essentials you need to begin drilling. We have three options that provide a cost-effective tool set for your application.



HSS Steel Cutter Starter Kit

ZST 100S Kit Includes:

Set of 5 annular cutters (one each of the following):

- 9/16" dia. x 1" depth (6-1-118)
- 11/16" dia. x 1" depth (6-1-122)
- 13/16" dia. x 1" depth (6-1-126)
- 15/16" dia. x 1" depth (6-1-130)
- 1-1/16" dia. x 1" depth (6-1-134)

2 pilot pins • 1 cutter storage box • 1 Power Worker magnetic stick (POW 100)
1 quart high-performance cutting oil (ZHS 006)

See pages 60-61 for more information on HSS annular cutters.



Armor-Plated TiAlN Carbide-Coated Cutter Starter Kit

ZST 100P Kit Includes:

Set of 5 annular cutters (one each of the following):

- 9/16" dia. x 1" depth (8-1-118)
- 11/16" dia. x 1" depth (8-1-122)
- 13/16" dia. x 1" depth (8-1-126)
- 15/16" dia. x 1" depth (8-1-130)
- 1-1/16" dia. x 1" depth (8-1-134)

2 pilot pins • 1 cutter storage box • 1 Power Worker magnetic stick (POW 100)
1 quart high-performance cutting oil (ZHS 006)

See pages 62-63 for more information on Armor-Plated TiAlN Carbide-Coated annular cutters.

Other annular cutter kits are available – contact CS Unitec for details.



HSS Steel Cutter Starter Kit with Power Cleaner

ZST 200S Kit Includes:

Set of 5 annular cutters (one each of the following):

- 9/16" dia. x 1" depth (6-1-118)
- 11/16" dia. x 1" depth (6-1-122)
- 13/16" dia. x 1" depth (6-1-126)
- 15/16" dia. x 1" depth (6-1-130)
- 1-1/16" dia. x 1" depth (6-1-134)

2 pilot pins • 1 cutter storage box • 1 Power Cleaner (POW 200)
1 quart high-performance cutting oil (ZHS 006)

See pages 60-61 for more information on HSS annular cutters.



See page 74 for more information on the Power Cleaner (POW 200) and Power Worker magnetic stick (POW 100)



Accessories

Coolants and Cutting Pastes

Coolant extends the life of cutting tools – Ideal for cutting steel, stainless steel and hard metals

ProLube™

Your cutting tools will work cooler, longer and more efficiently with ProLube™ Lubricants from CS Unitec.

- Prolong tool life by reducing friction and wear
- Unique composition provides excellent adhesion to cutting tools for maximum lubrication
- Corrosion inhibitor
- Non-toxic



**Water soluble
16:1**

ProLube™

Paste (12 oz. tub) – Part No. **CS 7030-712**

Liquid (1 gallon) – Part No. **CS 7010-504**



- High-performance
- Liquid coolant is concentrated for dilution with water
- Eco-friendly

Paste (tube) – Part No. **ZHS 570**

Paste (12-pack tubes) – Part No. **ZHS 572**

Paste (2.2 lb. tub) – Part No. **ZHS 550**

Liquid (1 quart) – Part No. **ZHB 001**

Upgrade your drill's cooling system: see page 71 for arbors with automatic cooling.

Cutting Oil

- High-performance, biodegradable, non-hazardous oils and pastes
- Oils for heavy removal of metal, including stainless steel
- Chlorine-free (MSDS on bottle/tub)
- Not necessary to dilute with water

Cutting Oil:
Part No. **ZHS 006** (quart)
Part No. **ZHS 005** (gallon)



Pressurized Coolant Bottle

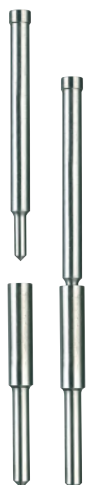
Use with any automatic internal lubrication system.
Part No. **9 4002 0020 N**

Pilot Pins for Cutters

- Milled channel efficiently supplies internal lubrication to cutting teeth
- Available for cutter diameters ranging from 7/16" to 5 1/8" and up to 8" depth of cut
- See price list for part numbers



*Shown at right:
2-piece pin for
3" and 4" depth
cutters with
8mm pilot hole
(Part No. 7-3-402).*



Accessories

Arbors for Annular Cutters

- Use on any magnetic drill stand, drill press or shop equipment with a Morse Taper intake of No. 2, 3 or 4
- Available for Annular Cutter shank sizes of $\frac{3}{4}$ " or $1\frac{1}{4}$ " Weldon
- Available for automatic internal cooling or manual cooling



Manual Cooling

- ZIA 219M** – Morse Taper No. 2
 $\frac{3}{4}$ " arbor bore
- ZIA 319M** – Morse Taper No. 3
 $\frac{3}{4}$ " arbor bore
- ZIA 30/75** – Morse Taper No. 3
 $\frac{3}{4}$ " arbor bore, 3" depth
- ZIA 419M** – Morse Taper No. 4
 $\frac{3}{4}$ " arbor bore



Automatic Cooling

- ZIA 219KN** – Morse Taper No. 2
 $\frac{3}{4}$ " arbor bore
- ZIA 319KN** – Morse Taper No. 3
 $\frac{3}{4}$ " arbor bore
- ZIA 30/32** – Morse Taper No. 3
 $1\frac{1}{4}$ " arbor bore
- ZIA 432 KN** – Morse Taper No. 4
 $1\frac{1}{4}$ " arbor bore

Quick-Lock Arbor with Automatic Internal Cooling

- Keyless for fast, no-tools changeover for $\frac{3}{4}$ " dia. shank annular cutters
- Automatic internal cooling
- Turn, click... go!

ZSS 200 – Morse Taper No. 2
for $\frac{3}{4}$ " dia. shank
annular cutters

ZSS 300 – Morse Taper No. 3
for $\frac{3}{4}$ " dia. shank
annular cutters



*turn,
click...*



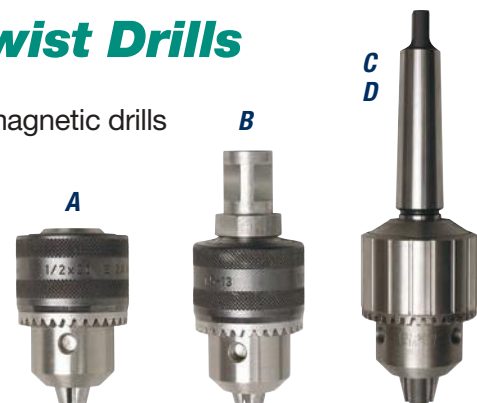
*Keyless,
quick-change
system for annular
cutters saves time
and money.*

Just twist and lock!



Drill Chucks for Straight-Shank Twist Drills

- Two capacities: $\frac{1}{2}$ " and $\frac{3}{4}$ "; four chucks and adapters to fit all magnetic drills
- IBC 17** – $\frac{1}{2}$ " chuck for CSU 32 series
 - IBC 18** – $\frac{1}{2}$ " chuck with $\frac{3}{4}$ " shank for MABasic 200, MABasic 400 and AIRBOR™ (fits all drills with $\frac{3}{4}$ " arbor bore)
 - IBC 21** – $\frac{3}{4}$ " chuck with MT3 shank for MAB 525, MAB 825, MAB 845 and CSU 100/3RL
 - IBC 22** – $\frac{3}{4}$ " chuck with MT2 shank for MABasic 450, MAB 455, MAB 485 and CSU 50 series



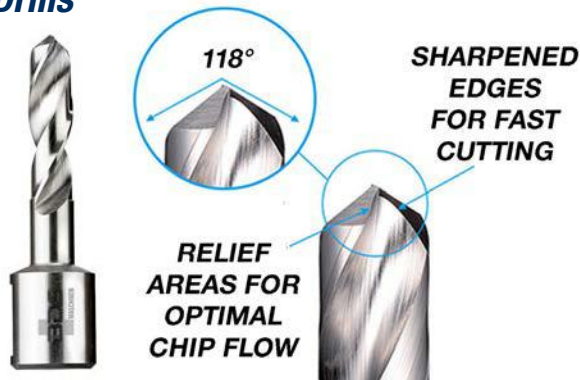
Accessories

Weldon Shank Twist Drill Bits **NEW!** Optimized for Increased Cutting Life in Magnetic Drills

- Made of M2 High Speed Steel (HSS) for increased durability
- Industry standard 3/4" weldon shank (19.05 mm) for fast, dependable securing to magnetic drills
- Increase versatility with easy, small hole drilling for magnetic drills
- 2" Depth of cut

- 8-1-108S – 1/4" Dia.
- 8-1-110S – 5/16" Dia.
- 8-1-112S – 3/8" Dia.
- 8-1-114S – 7/16" Dia.

**Save Time, Easy Changeover,
No Chuck Adapter Needed!**



Extensions for Annular Cutters

Extra-long holders extend stroke of drills



- Extend cutter reach up to 18"
- Available for magnetic drills with 3/4" arbor bore or MT3
- Also available with 3 flats for straight shank drill chucks and R8 shanks for drill presses
- Drill difficult-to-reach areas
- Extend cutter reach over the side or through an existing hole*

- 7-9-902 – 2" extension
- 7-9-903 – 3" extension
- 7-9-906 – 6" extension
- 7-9-912 – 12" extension
- 7-9-918 – 18" extension

- 7-9-1146 – 6" extension, 1-1/4" male x 1-1/4" female shank

* Hole diameter must be larger than 1 5/16" to accommodate width of extension



We also offer extensions with the following connections:

3 Flats for Geared Chucks x 3/4" arbor



- 7-9-100 – 2-1/8" length, 1/2" shank
- 7-9-200 – 2" length, 3/4" shank

R8



- 7-9-500 – R8, 1-3/4" length; 3/4" arbor bore
- 7-9-506 – R8, 6" length; 3/4" arbor bore
- 7-9-700 – R8, 2-3/4" length; 1-1/4" arbor bore

2-in-1 Drill/Taps Drill and tap with one tool

National Coarse Threads (UNC) – sizes available:

- CS500 – 1/2" x 13 UNC
- CS625 – 5/8" x 11 UNC
- CS750 – 3/4" x 10 UNC
- CS875 – 7/8" x 9 UNC
- CS1000 – 1" x 8 UNC
- CSDT-UNCKIT N – 1/2", 5/8", 3/4" & 1" drill/taps



82° and 90° Countersinks

- Manufactured of HSS with 5% cobalt
- 3/4" Weldon shank

Countersink hole sizes:

- CTS 30 from 5/8" to 2" / 82°
- CTS 50 from 5/8" to 2 1/8" / 90°



Detachable Chip Guard

Protects against flying chips when drilling

- ZSS 050 – MAB 485 and MAB 525
- ZSS 500 – MAB 825 and MAB 845



Accessories

Quick-Change Tapping Chucks

Part No. **GSW.830C** tapping chuck includes two variable clamp collets to tap $\frac{3}{8}$ " to $1\frac{1}{8}$ ". It is the least expensive system if you will tap more than 4 sizes. **GSW.830C** has an MT3 connection. For use with all MT3 drills.



Variable clamp collets for use in tap chuck No. **GSW.830C**:
 Part No. **GST-160** for shanks $\frac{3}{8}$ " - $\frac{5}{8}$ ".
 Part No. **GST-230** for shanks $\frac{5}{8}$ " - $\frac{7}{8}$ ".



GSW 444
Quick-Change Chuck

Part No. **GSW 444** quick-change tapping chuck with MT4 connection (for MAB 1300). Collets not included.



Order Number	Tap Collet	Shank Diameter	Square Drive
GSS.420	20mm	16mm	12mm
GSS.422	22mm	18mm	14.5mm
GSS.427	27mm	20mm	16mm
GSS.433	33mm	32mm	20mm
GSS.442	42mm	32mm	24mm



GSS-4xx
Collet

MobilCLAMP

A true advance in magnetic drilling technology: MobilCLAMP converts a magnetic drilling machine into a portable drill press.

The magnetic drill can be mounted onto the MobilCLAMP with only the power of the machine's magnet - no screws, clamps or needed. Increasing the versatility of magnetic drills.



Drill not included.



MobilCLAMP

Order No.	ZMC 200
Jaw Width	4" (100mm)
Clamping Range	4" (100mm)

ZMC 200 N includes ZMC 200 base, ZST 300 vise, (2 qty.) ZTN 100 screw and (2 qty.) ZSN 100 hexagon nut with collar

Drilling stand and vise for hand drills



Vise

Order No. **ZST 300**
 jaw width: 4" (100mm)
 clamping range: 4" (100mm)

Accessories

Screws for T-Slots – Order No. **ZTN 100**
 Hexagon Nut with Collar – Order No. **ZSM 100**

Drilling Pillar

Order No. **ZBS 100**

- Industrial drilling pillar for commercial hand drills with 43mm chuck journal diameter.
- 8" Stroke
- Fits ZST 300 vise accessory



Drill & Vise not included.

Magnetic Drilling Pillar

Order No. **MBS 300**

For hand drills with a 1-11/16" collar diameter and 7" stroke.



Drill not included.

Vacuum Plates

For applications where drill alone will not adhere to surface

Vacuum Plate for Channeled Plates

Order No. **ZAV 301** (vacuum plate only)
Order No. **ZAV 310** (vacuum plate and vacuum pump, 110V)

Ideal for channeled plates. High-performance vacuum pump with circular oil lubrication. Clamping plate diameter: 11.8"



Vacuum Plate for Smooth Surfaces

Order No. **ZAV 401** (vacuum plate only)
Order No. **ZAV 410** (vacuum plate and vacuum pump, 110V)

Ideal for smooth surfaces. High-performance vacuum pump with circular oil lubrication. Clamping plates with two suction surfaces and cut-through drilling area.



Metal Chip Cleanup Tools

- Easily clean up sharp-edged drill chips, screws and other metal parts
- Ideal for hard-to-reach spaces

Power Worker – POW 200

Two-in-one tool for removing chips



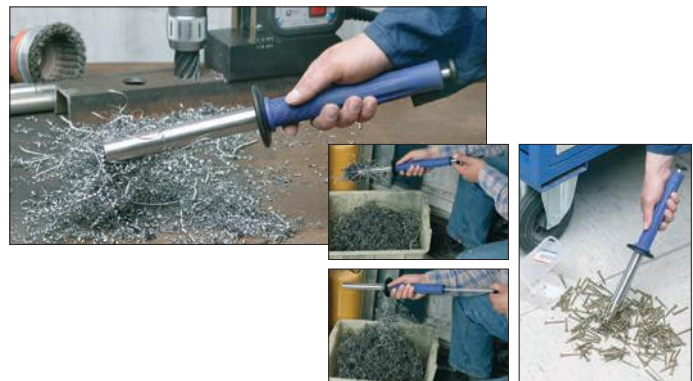
- Hook pulls away metal swarf from drill
- Brush cleans fine chips



Power Worker – POW 100

Simple cleanup of metal chips

- Items are safely ejected off of Power Worker without hand contact
- Rare earth magnet cleans metal parts and shavings



Pipe Drilling Solutions **NEW!**

Ensures safe, secure drilling of pipes and tubular material

- Ideal for drilling on pipe, flat or curved surfaces
- Easily attaches to pipe over 3" OD
- Strong magnets adhere to material as thin as 9/64" (3mm)
- Drilling up to 2-1/2" Dia. holes, tapping up to 15/16"
- Increased safety with patented permanent magnet system

PipeMAB 200



PipeMAB 525

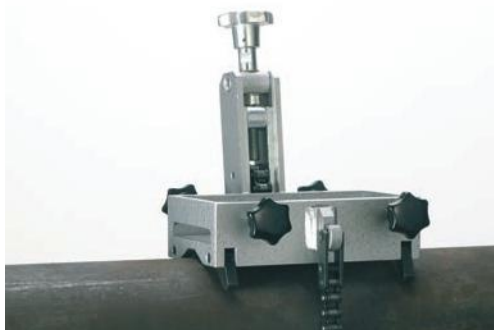


See pages 38-39 for PipeMAB specifications

Pipe Saddle Clamps

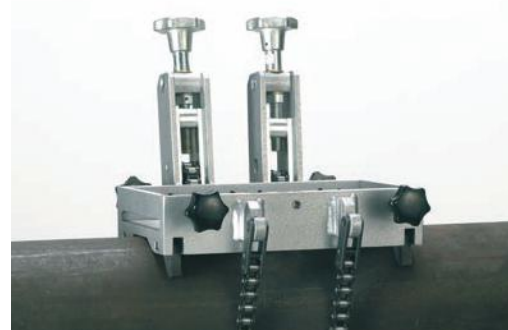


Scan or visit www.csunitec.com to learn more



ZRO 250 Pipe Saddle Clamp

Pipe diameters 3 1/4" - 10"
Chain length: 35 1/2"
If using on pipe larger than 10", need 1 qty. ZRO 001 extension chains.
For models: MABasic 200, MABasic 400, MABasic 450, MAB 455, MAB 465, MAB 485 & CSU 32



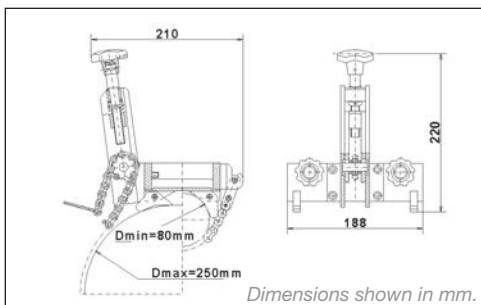
ZRO 500 Pipe Saddle Clamp

Pipe diameters 6" - 20" (extension chain available)
Chain length: 65"
If using on pipe larger than 20", need 2 qty. ZRO 001 extension chains.
For models: MABasic 850, MAB 525, MAB 825, MAB 845, AB-4300-2 and HB 4400

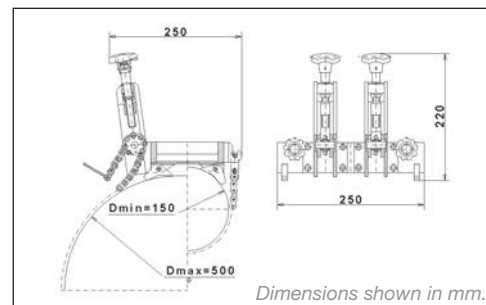


2 1330 8500 Pipe Saddle

Pipe diameters 6" - 19.5" (extension chain available)
Chain length: 65"
If using on pipe larger than 19.5", order 5 1201 9030 extension chains up to 31.5"OD, 5 1201 9020 for extension chains up to 43.25"OD
For models: 2 1345 0020



Order No. **ZRO 001** extension chain for ZRO 250 and ZRO 500 pipe saddle clamps. 35" length.



Electric Drills and Drive Units

High-torque, multi-gearred and variable-speed motors



Model EHB 16/2.4 S R/L C



Model EHB 20/2.4



Model EHB 32/4.2



Model EHB 16/1.4 S



Model EAU 34/4 CB



Model EAU 36/4 R R/L CB

Heavy-Duty Drills for Industry and Construction:

- High-torque output
- Variable-speed, two- and four-gearred drills for optimum speed selection
- Reversible motors and electronic torque control on selected models
- Ideal for special applications including valve turning, tube rolling and other jobs
- Safety slip clutch on 1¹/₄" capacities to protect operator and tool
- Drilling capacities up to 1¹/₄" in steel
- Special OEM motors available on request
- One-year warranty



Scan to Learn More



Model No.	Motor Power (Amps)	Voltage	Load Speed (RPM)	Drilling Capacity in Steel	Max. Torque Output (ft./lbs.)	Reversible	Chuck/Arbor	Weight (lbs.)
EHB 16/2.4 S/RL	10	110V	0-430/0-760	5/8"	19	YES	5/8" Geared	7
EHB 16/2.4 S R/L C with slip clutch	10	110V	0-430/0-760	5/8"	19	YES	5/8" Geared	7
EAW 16/2 R/L	9	110V	510/950	N/A	8	YES	5/8" X 16 UN	7
EHB 20/2.4	10.5	110V	250/450	3/4"	32	NO	MT2	9.2
EHB 32/4.2	15.5	110V	110/175/245/385	1 ¹ / ₄ "	112	NO	MT3	15.2
EAU 34/4 CB**	20	110V	80/130/360/570	-	203	YES	MT3	19.5
EAU 36/4 R R/L CB** with 4-speed gearbox and variable speed	22	110V	50-120 80-190 110-270 180-420	-	187	YES	MT3	20

* All units available in 220 Volt / 50Hz

** EAU 34/4 CB and EAU 36/4 R R/L CB include control box Special Motors available upon request.

Electric Drills and Drive Units

Slow Speed: two-gearred, variable-speed reversible motors



Model ETE 32/2.3 R/RL
(shown with optional
Square Drive adapter)

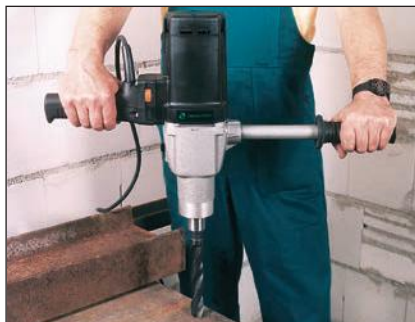
- High-torque, two-gearred and variable-speed reversible motors
- Ideal for drilling, reaming and tapping steel
- Driving applications include mills, spindles, bar boring, pipe beveling and valve turning
- Perfect for tube rolling and expanding for fire tube and water tube boilers
- Mechanical safety clutch prevents operator injury or damage to the tool
- Morse Taper #3 arbor
- One-year warranty



Scan to
Learn More



Model EHB 32/2.2 R/RL
Model ETE 32/2.3 R/RL



Up to 1 1/4" twist
drill capacity

1/2" and 3/4" Square Drive
accessories allow motor
compatibility for various
drive applications.*



Model No.	Motor Power (Amps)	Voltage**	Load Speed (RPM)	Drilling Capacity in Steel	Tube Rolling (max.)	Reversible	Torque Output (ft./lbs.)	Torque Control	Arbor	Weight (lbs.)
EHB 32/2.2 R/RL	16.3	110V	60-140/ 200-470	1 1/4"	2"	YES	95 max.	YES	MT3	14
ETE 32/2.3 R/RL	16.3	110V	30-75/ 90-230	N/A	3" ***	YES	174 max.	No	MT3	15

** All units available in 220 Volt / 50Hz
*** With Expander (Up to 2 1/2" with Bead Roller)

* 1/2" Square Drive with MT3 – Part No. 830-1230-050
3/4" Square Drive with MT3 – Part No. 830-1230-075

Pneumatic Drills and Drive Units

High-torque reversible drilling and tapping machines

ATEX

- High-torque reversible drilling, tapping and threading machines
- Ideal for drilling, reaming, tube rolling, tube expanding and tapping
- Special applications include mills, spindles, slides, controllers, pipe tapping, valve turning and more
- Drill chucks and Morse Taper arbors
- Hammer drills for drilling concrete with up to 2200 blows per minute
- Special OEM air motors available on request
- 6-month warranty

Scan to Learn More



Morse Taper Drills w/ Feed Spindle



Model 2 2089 0030 with reverse and safety twist throttle

D-handle Drills



Model 2 1310 0010

Pneumatic Hammer Drills



Model 2 1266 0010

Pneumatic Pistol Drills



Model 2 1261 0010



See page 80 for Rotary Hammer Drills

Model No.	Motor Power (HP)	Load Speed (RPM)	Reversible	Chuck/ Arbor	Drilling Capacity in Steel	Tube Rolling Capacity	Torque Output (ft./lbs.)	CFM at 90 PSI	Length	Feed Length	Weight (lbs.)
Pistol Drills											
2 1261 0010	0.7	850	NO	1/2" Chuck	1/2"	N/A	7 max.	21	9 ³ / ₄ "	N/A	4.6
Hammer Drills (for concrete and underwater applications)											
2 1266 0010	0.75	950	NO	1/2" Chuck	1/2"	N/A	7 max.	21	12"	N/A	6.7
D-Handle Drills											
2 1310 0010	0.8	650	NO	1/2" Chuck	1/2"	N/A	8 max.	24	12 ¹ / ₂ "	N/A	12
2 1311 0010	0.8	650	NO	MT1	5/8"	N/A	8 max.	24	11"	N/A	12
Morse Taper Drills w/ Feed Spindle											
2 2089*	1.7	250	YES	MT3	1 ¹ / ₄ "	1"	36 max.	24	26 ¹ / ₂ "	1 ⁵ / ₈ "	28
2 2506*	2.5	220	YES	MT3	1 ¹ / ₄ "	2"	63 max.	70	26 ¹ / ₂ "	2 ¹ / ₂ "	32
2 2502*	2.5	80	YES	MT4	2"	2 ¹ / ₂ "	173 max.	70	26 ¹ / ₂ "	2 ¹ / ₂ "	37

* The last four digits of the Model No. identify the type of throttle. Please specify the four digits when ordering: 0010 for Lever Throttle or 0030 for Safety Twist Throttle.

Corner Drills and Drives



Pneumatic, electric and hydraulic: high-torque drilling, reaming and driving units

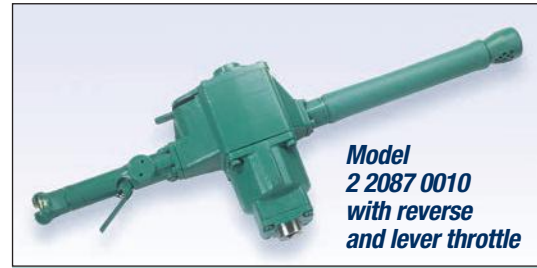
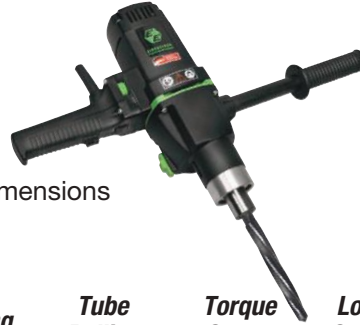
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Model 2 1801 0030

Corner Drills and Bridge Reamers

- Small side-to-side distance for tight spaces
- Self-closing roll throttle
- Built-in oiler for motor
- Ideal for bridge reaming and drilling applications
- 6-month warranty
- Visit www.csunitec.com for dimensions



Model 2 2087 0010 with reverse and lever throttle

- Ideal for heavy-duty reaming, tube expanding and tapping
- Perfect for special driving applications, including pipe tapping and valve turning

Square Drive Accessories

2 2089 7020 – 7/8" Male Sq. Drive to 3/4" Male Sq. Drive
 6 1016 7940 – 7/8" Male Sq. Drive to 1" Male Sq. Drive with retaining pin

Pneumatic Corner Drill Model No.	Morse Taper	Drilling (in steel)	Reaming (in steel)	Tube Rolling Capacity	Torque Output (ft./lbs.)	Load Speed (RPM)	Motor Power (HP)	CFM at 90 PSI	Length	Weight (lbs.)
Nonreversible										
2 1602 0030	#1	5/8"	1/2"	N/A	7	500	0.7	21	12.5"	7
2 1701 0030	#2	7/8"	5/8"	N/A	35	270	1.8	49	20.9"	19
2 1801 0030	#3	1 1/4"	1"	N/A	53	260	2.6	63	22.5"	25

Reversible										
2 2104 0030	#4	2 1/8"	2"	2"	86	2 1/2"	3.0	71	23.8"	37

Model No. 2 1602 0030 has a 3/8" NPT air inlet. 1/2" (13mm) hose is recommended. All other models have 3/4" NPT air inlet. A 1/2" (13mm) hose is recommended for model 2 1701 0030. A 5/8" (15mm) hose is recommended for models 2 1801 0030 and 2 2104 0030.

Hydraulic Corner Drill Model No.	Morse Taper	Drilling (in steel)	Reaming (in steel)	Tube Rolling Capacity	Torque Output (ft./lbs.)	Load Speed (RPM)	Motor Power (HP)	Oil Flow/PSI	Length	Weight (lbs.)
2 1806 0010	#3	1 1/4"	1"	N/A	60	220	3.8	4 GPM @ 2000	21"	25

Electric Drill Model No.	Motor Power (Amps)	Voltage	Load Speed (RPM)	Drilling (in steel)	Tube Rolling Capacity	Reversible	Torque Output (ft./lbs.)	Torque Control	Arbor	Weight (lbs.)
EHB 32/2.2 R/RL	16.3	110	60-140, 200-470	1 1/4"	2"	Yes	92 max.	Yes	MT3	14

Pneumatic Drive Unit Model No.	Square Drive ID	Torque Output (ft./lbs.)	Load Speed (RPM)	Reversible	Tube Rolling Capacity	Tapping Capacity	Motor Power (HP)	CFM at 90 PSI	Height x Length	Weight (lbs.)
2 2081*	13/16"	413	20	YES	3"	1 1/2"	1.35	53	10.9" x 26.5"	29
2 2087*†	7/8"	413	5/8"	N/A	3"	1 1/2"	1.35	53	10.9" x 26.5"	29
2 2087*†	7/8"	138	2"	2"	2"	3/4"	1.35	53	10.9" x 26.5"	29

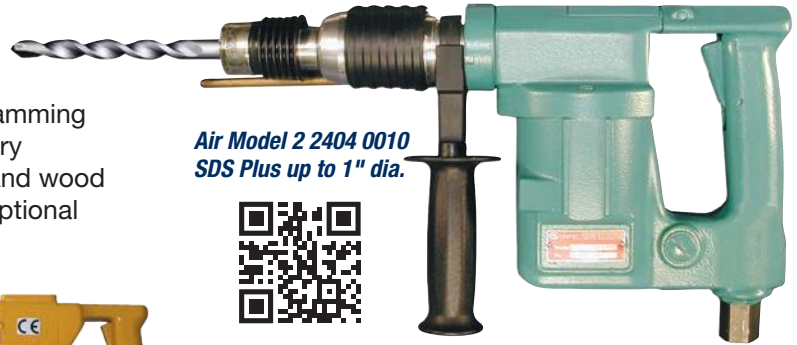
* The last four digits of the Model No. identify the type of throttle. † Square drive accessories available (see above). Please specify the four digits when ordering: 0010 for Lever Throttle or 0030 for Safety Twist Throttle.

SDS Rotary Hammer Drills

ATEX

Pneumatic and hydraulic: powerful percussion drilling for concrete and masonry

- SDS Plus or SDS Max models
- Safety clutch protects against overloading and jamming
- Hammer drill holes in concrete, brick and masonry
- Rotary drilling mode for straight drilling of steel and wood
- Open center hydraulic standard, closed center optional



Air Model 2 2404 0010
SDS Plus up to 1" dia.



SDS Max – Modes of Operation

2" bit capacity for drilling concrete and masonry

Hammer with Rotation
Ideal for concrete drilling

Rotation Only For drilling steel and wood (not reversible)



Air Model 2 2417 0010
SDS Max



Hydraulic Model
2 2418 0010
SDS Max

Second handle position
SAE #8 port for hydraulic hose connection

SDS Plus – Hammer and Drill

1" bit capacity for drilling concrete and masonry

Drill concrete anchor holes, thru holes, piping and mechanical openings for construction and repair work. Switches to rotary drilling mode for steel and wood.



Hydraulic Model
2 2426 0010
SDS Plus

SAE #8
oil port

Closed Center Flow Control Valve

Optional accessory – Part No. 38632



SDS Drill Bits



Small Masonry Bits
SDS Plus up to 1" dia.



Large Masonry Bits
SDS Max up to 2" dia.

Hydraulic Pressure Reducing Valves

CS 70350 for reducing earth moving equipment 5000 psi to 2000 psi

2 2406 9900 reduces 5075 psi to 1160 psi
2 2406 9700 reduces 2000 psi to 1160 psi



Pneumatic Hammer Drill Model No.	Blows/Minute (BPM)	Drill Speed (RPM)	Solid Bit Capacity (concrete)	Core Bit Capacity (concrete)	Twist Drill (wood)	Motor Power (HP)	CFM at 90 PSI	Tool System	Dimensions (inches)	Weight (lbs.)
2 1266 0010*	0-2000	0-950	1/2" dia.	1" dia.	3/8" dia.	0.75	21	1/2" Chuck	12 x 8 1/2 x 4	7
2 2404 0010	0-3000	0-625	1" dia.	3" dia.	3/4" dia.	0.70	21	SDS Plus	16 x 8 1/2 x 4	11
2 2404 0030*	0-3000	0-625	1" dia.	3" dia.	3/4" dia.	0.70	21	SDS Plus	16 x 8 1/2 x 4	11
2 2417 0010*	0-2500	0-250	2" dia.	6" dia.	1 1/4" dia.	1.60	53	SDS Max	19 1/2 x 9.8 x 4 1/2	26

* Underwater model – optional underwater air tool line conditioner to displace moisture, Part No. MS 9105. See page 57.

Hydraulic Hammer Drill Model No.	Blows/Minute (BPM)	Drill Speed (RPM)	Solid Bit Capacity (concrete)	Core Bit Capacity (concrete)	Twist Drill (wood)	Motor Power (HP)	Oil Flow/PSI	Tool System	Dimensions (inches)	Weight (lbs.)
2 2426 0010	0-3400	0-625	1" dia.	3" dia.	3/4" dia.	0.8	5.8-13.2 GPM @ 1160 PSI	SDS Plus	18 x 10 1/4 x 4	15
2 2418 0010	0-2500	0-250	2" dia.	6" dia.	1 1/4" dia.	1.8	2.6-13.2 GPM @ 1160 PSI	SDS Max	16 x 8 1/2 x 4	31
2 2418 0020	Same as 2 2418 0010 above. Includes 2 2406 9700 Pressure Reducing Valve for 2000 PSI.									

* Hydraulic Hammer Drills operate at hydraulic pressures of 1160 PSI max. Pressure reducing valves are available to reduce pressure from 2000 PSI or 5000 PSI. See above. Available with optional closed center.

Woodboring Air Drills, Reversible



Scan to
Learn More



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



Model 2 1924 0010
with self-closing roll throttle
Up to 2" for boring wood

Model 2 1903 0010
with lever throttle
Up to 1" for boring wood

- Ideal for drilling wood in marine timbers, underwater use and railroad repair work
- Thrust bearing support for long life and efficient operation
- Lever throttle and durable spur gearing
- Breast plate and dead handle included
- Includes threaded exhaust port
- Use underwater with Air Tool Line Conditioner (shown below)

Accessories and woodboring drill bits from 1/2" dia. to 1 1/8" dia. in lengths from 12" to 36"

Specifications	Model 2 1903 0010	Model 2 1924 0010	Model 2 1932 0010 N
Capacity in Wood	1" Diameter	2" Diameter	3" Diameter
Reversible	Yes	Yes	Yes
Power	2 HP	3 HP	3 HP
Chuck Style	1/2" Woodboring	1/2" Woodboring	1/2" Woodboring
Spindle	Stub Taper	#2 Morse Taper	#3 Morse Taper
Free Speed	750 RPM	700 RPM	380 RPM
Recommended Hose Size	1/2"	1/2"	1/2"
Overall Height	17 1/2"	18 1/2"	18 1/2"
Weight	14 1/2" lbs.	24 3/4" lbs.	24 3/4" lbs.
Air Inlet Thread	1/2" ID	1/2" ID	1/2" ID
Air Exhaust Thread	1/2" NPT	1/2" NPT	1/2" NPT
Air Consumption at 90 PSI	39 CFM	39 CFM	39 CFM
Optional Geared Drill Chuck	Part No. DE-99C	Part No. IBC 22 (MT2)	Part No. IBC 21 (MT3)

AirPac Extends life of pneumatic power tools

See page 123 for all Air & Hydraulic Tool Accessories



Model CSAP-2

- Removes moisture and dirt from air lines; a float valve automatically ejects water and dirt
- Includes automatic oiler; prevents 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 Line Conditioner

Underwater air tool conditioner for marine applications. Displaces moisture and inhibits rust/corrosion of air motors.

9109 – 1 quart/liter



Nut Runners - High Torque

ATEX

Pneumatic and hydraulic: ideal for turning valves, tightening, tapping, reaming, pipe beveling, expanding and more



Scan to Learn More



- Worm gear drive provides high torque – up to 554 ft.-lbs.
- Lightweight and reversible
- Compact angle head allows access to confined spaces



Model 6 1055 0075

Model numbers pictured above (listed from top to bottom): 6 1055 0075 (with male drive), 6 1055 0010 (female), 6 1014 0075 (with male drive)

Available with Male or Female Square Drives, in a variety of sizes



Male Sq. Drive Head
1/2" or 3/4"



Female Sq. Drive Head
3/4" or 7/8"

Square Drive Accessories



6 1015 7030 – 3/4" Male Square Drive with retaining hole (included with model numbers 6 1014 0075, 6 1055 0075 and 6 1056 0075)

6 1017 7940 – 3/4" Male Square Drive with retaining pin



6 1018 7940 – 1/2" Male Square Drive with retaining pin (included with model numbers 6 1014 0099, 1055 0099 and 6 1056 0099)

6 1016 7940 – 1" Male Square Drive

Pneumatic Nut Runner Model No.	Square Drive F=Female M=Male	Stall Torque at 90 PSI (ft.-lbs.)	Free Speed (RPM)	Load Speed (RPM)	Power (HP)	CFM at 90 PSI	Side to Center Distance	Length	Weight (lbs.)	Air Connection	Hose ID
6 1014 0075*	3/4" M	95	200	100	0.9	46	1"	22"	11	3/8" NPT	1/2"
6 1014 0099	1/2" M	95	200	100	0.9	46	1"	22"	11	3/8" NPT	1/2"
6 1055 0075*	3/4" M	405	40	22	0.9	46	1"	21"	10	3/8" NPT	1/2"
6 1055 0099	1/2" M	405	40	22	0.9	46	1"	21"	10	3/8" NPT	1/2"
6 1056 0075*	3/4" M	133	120	67	0.9	46	1"	21"	11	3/8" NPT	1/2"
6 1056 0099	1/2" M	133	120	67	0.9	46	1"	21"	11	3/8" NPT	1/2"
6 1057 0075*	3/4" M	73.5	250	125	0.9	46	1"	21"	11	3/8" NPT	1/2"
6 1057 0099	1/2" M	73.5	250	125	0.9	46	1"	21"	11	3/8" NPT	1/2"
6 1061 0010	7/8" F	405	40	22	0.9	46	1"	21"	11	3/8" NPT	1/2"

* Also available with 3/4" Female Square Drive – use 0010 instead of 0075 in model number.

Hydraulic Nut Runner Model No.	Square Drive F=Female M=Male	Drive Torque (ft.-lbs.)	Free Speed (RPM)	Load Speed (RPM)	Power (HP)	Oil Flow (GPM)	Oil Pressure (PSI)	Side to Center Distance	Length	Weight (lbs.)	Connection Quick Couplers
3 6242 0010*	3/4" F	369	40	22	1.6	4-13	90-2000	1"	20"	22	1/2" FF
3 6243 0010*	3/4" F	125	180	90	1.6	4-13	1300-2000	1"	20"	22	1/2" FF

* Also available with 1/2" (3 6242 0099) and 3/4" (3 6242 0075) Male Square Drive

ATEX Directive

ATEX classified power tools ensure a high level of safety in explosive atmospheres

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

What is ATEX?

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

How are ATEX tools classified?

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

What types of tools receive ATEX certification?

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

How can I tell if my tool is ATEX certified?

The tool will be marked with the appropriate ATEX classification label and Ex symbol (Ex).

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

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

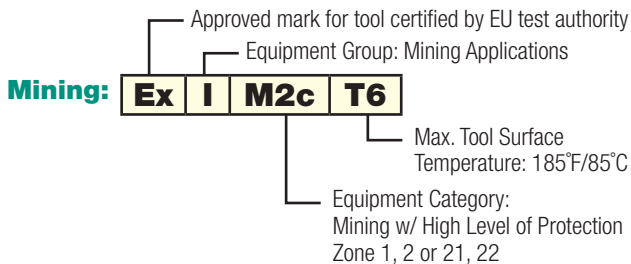
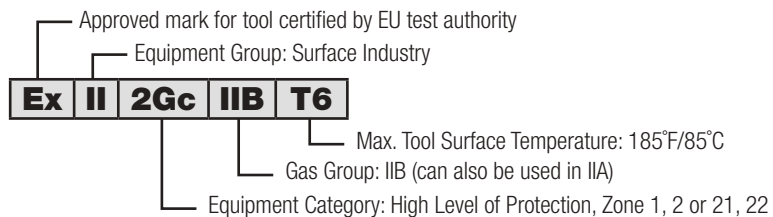
For ATEX information, visit: <http://ec.europa.eu/growth/sectors/mechanical-engineering/atex/>

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

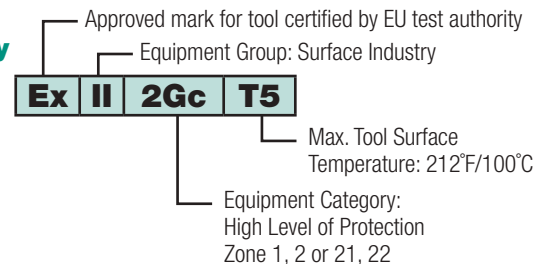
For a FREE poster explaining Ex zones, visit www.csunitec.com/poster.

Tool Classification Examples:

Industry with explosion group for specified types of gas:



Industry for all types of gas:



For a complete list of CS Unitec's ATEX tools, visit: www.csunitec.com/specialty/atex-power-tools

UNITEC Surface Finishing Tools & Accessories

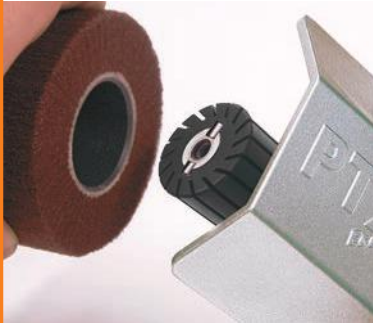
The value is in the engineering... the payback is in the performance.™

CS Unitec offers high-performance power tools and abrasive accessories for surface finishing on **STEEL, STAINLESS STEEL, ALUMINUM** and other metals, as well as rigid plastics and wood.

Innovation is the engine of efficiency!™

Innovations in machine design, abrasive materials and production methods have led the way to:

SURFACE FINISHING TOOLS, ABRASIVES & ACCESSORIES



Hollow-core abrasives for linear grinding

The PTX Eco Smart is a linear surface finishing machine with a finned shaft for quick abrasive changing – simply slide on the abrasives and they secure automatically. This saves time and the abrasive wheels cost less. (Patented!)

Belts with buttonhole fastening system for grinding and polishing closed pipe constructions. (Patented!)



5/8"-11 SPEED NUT changeover

The **EASY-LOCK SPEED NUT** allows you to change flap discs in seconds, without tools. It is easily hand tightened and eliminates the need for wrenches or expensive hubs. (Patented!)



Important advancements in flap disc technology

- PLANTEX® high-tech hemp fiber compound (Patented!)
- POLY-MAGIC-WHEEL for dry polishing inside corners
- MAGNUM® FLEECE TOP for surface conditioning, fine finishing and polishing



Industrial hemp fiber is an almost ideal base material for backing plates of flap discs... and it is a renewable resource!

Safer and more efficient!

CS Unitec is the source for flap discs and abrasives that are free of fiberglass, mineral fibers and epoxy resin. They offer superior material removal, longer service life and smoother ergonomic handling.

Better for the environment!

The fiber in the high-tech PLANTEX® compound is derived from the hemp plant – a sustainable raw material which counteracts greenhouse emissions as it grows. The PTX hollow-core abrasives not only improve production efficiencies, but also minimize pollution from production to waste disposal... no plastic insert!

Better for your bottom line!

In addition to their time-saving features and high quality, flap discs and abrasives from CS Unitec can save you money – their cost of production is lower, their quality is among the best and they offer superior service life. Hollow-core abrasive wheels from CS Unitec are more affordable than traditional solid-core abrasives since they can be produced from less raw material. These new hollow-core abrasive wheels can also be used on traditional finishing machines with the aid of a simple core adapter (see page 85).



View product demonstrations at www.csunitec.com.

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Abrasives & Accessories for Pipe Sanders & Grinders		p. 105
Deburring, Beveling and Faceting Machines		p. 106-111
ROLEI® PEF 500 Beveling & Deburring Machine		p. 106
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PTX ECO SMART

PLANTEX®

VARILEX®

FIX HOOK & LOOP

DEBURRING

BEVELING

Safety Guidelines

Use all products according to the safety regulations of OSHA and directives by ANSI (American National Safety Institute) B7.1, European DIN EN 13743 and all other applicable international safety standards.

PTX ECO SMART

The professional linear finishing system for hard, continuous use.

A revolution in linear grinding! Simply slide on the abrasives and they secure themselves automatically when the machine turns. Fast and easy!



Press the spindle lock and simply slide on the abrasive wheels or brushes, turning in the correct direction onto the finned shaft. They will be secured automatically.



Grinding in corners is easy – simply slide the abrasive wheel on the finned shaft a little towards the outside.



Even narrow abrasive wheels can be used on the PTX Eco Smart and positioned freely on the finned shaft (no spacer rings required).



1 Adjustable handle for right and left-handed users. Anti-vibration handle for comfortable, fatigue-free working.



2 Simple speed control during operation. Tachogenerator for stable speeds.



3 QUICK-LOCK cable for fast, easy replacement if cable is damaged. 13 ft., included. **Part Number: 52004-2**



4 Infinitely adjustable cover guard with securing points for the extraction cover. **Part Number: 40005**



5 Extended polycarbonate cover guard for grinding wheel widths up to 6". **Part Number: 52706**



6 Hollow core shaft adapter for roller wheel widths up to 6" and vibration-free operation. **Part Number: 42004**



PTX Eco Smart

110 Volt or 220 Volt

Perfect finishes on large surfaces, with no shadows or streaks.



www.csunitec.com

New abrasive mounting system saves time, reduces cost and eliminates vibration.

PTX Eco Smart is a multi-functional 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
- Balanced straight-line handling, high torque and electronic speed control
- Abrasive mounting system allows quick changeover, vibration-free operation and 100% concentricity
- Core-free abrasives save money and produce less waste



Satin finishing using interleaf fleece wheel.



A wide selection of hollow-core abrasives is available for the PTX Eco Smart. The lack of a core insert means that the abrasives are lighter, easier to use and less expensive.

PTX Eco Smart Specifications

Order No.	PTX ECO SMART	
Motor Power	15 Amp (1710 Watts); 110 Volt/60Hz (Also available: 230 Volt / 50 Hz)	
Speed Control Dial	Variable speed control from 1000 to 3800 RPM with tachogenerator for constant speed, even under load	
Wheel Width	2", 4" or 6" wide abrasives	
Wheel Diameter	up to 4 1/2"	
Weight	7.25 lbs.	
Standard Equipment	4" Interleaf (combi) wheel – P/N 47312 Shaft Adapter – P/N 42004	



Scan to Learn More



A range of professional PTX Eco Smart kits is available for a variety of applications. See page 88 for more information.

Accessories



Hollow-core Shaft Adapter

Allows user to utilize more economical hollow-core abrasives on traditional surface finishers. Fits 3/4" dia. x 4" long shaft and 1/4" keyway(s). Overall diameter of adapter is 1-3/4" (45mm)
Part Number: 42004

The PTX Bench Grinder – MULTI-MAX

Multipurpose sander with two shaft mountings for grinding discs, angle grinders and grinding rollers for longitudinal grinders. Uses all PTX abrasive wheels and discs. (See page 95 for more details.)



PTX Eco Smart Kits

PTX Professional Kit For Metalworking

This set comes in a strong, impact-resistant transport case and contains everything you need for shadow-free industrial finishes. Match or create any finish up to a mirror finish on metals. Prevent marks and fingerprints with newly developed cleaning products and preservatives.

Part Number 47004A



PTX Professional Kit for Metalworking includes:

- 1 PTX Eco Smart machine
- 1 Professional Case (P/N 80002)
- 1 40 grit flap wheel, 4" x 4-1/8" (P/N 47211)
- 1 80 grit Interleaf (Combi) wheel, 4" x 4-1/8" (P/N 47312)
- 1 Expansion roller, 3-1/2" x 4" (P/N 47005)
- 2 80 grit grinding belt sleeve, 3-1/2" x 4" (P/N 42080)
- 1 Fine fleece (Nonwoven) sleeve, 3-1/2" x 4" (P/N 42012)
- 1 Medium fleece (Nonwoven) sleeve, 3-1/2" x 4" (P/N 42011)
- 2 A45 TZ Pyramid sleeves, 3-1/2" x 4" (P/N 42245)
- 2 A30 TZ Pyramid sleeves, 3-1/2" x 4" (P/N 42230)
- 2 A16 TZ Pyramid sleeves, 3-1/2" x 4" (P/N 42216)
- 2 A06 TZ Pyramid sleeves, 3-1/2" x 4" (P/N 42206)
- 3 SuperPolish sleeves, 3-1/2" x 4" (P/N 42013N)
- 1 Belt driving roller (P/N 47006)
- 2 80 grit grinding belts, 1.2" x 24" (P/N 49080)
- 1 Medium fleece (Nonwoven) belt, 1.2" x 26" (P/N 49002)
- 2 A45 TZ Pyramid belts, 1.2" x 24" (P/N 49345)
- 2 A30 TZ Pyramid belts, 1.2" x 24" (P/N 49330)
- 2 A16 TZ Pyramid belts, 1.2" x 24" (P/N 49316)
- 2 A06 TZ Pyramid belts, 1.2" x 24" (P/N 49306)
- 3 SuperPolish belts, 1.2" x 26" (P/N 49004N)
- 1 Mini high gloss polishing paste, pink (P/N 40015T)
- 2 Big polishing pastes, white and blue [P/N 40013 (white) P/N 40014 (blue)]
- 1 PTX Brightex® scatter can (P/N 40029)
- 5 Microfiber cloths (P/N 40031)
- 1 Brilliance-Clean spray bottle (P/N 40050)
- 1 INOX-Protect spray bottle (P/N 40040)

PTX Basic Kit for Metal

Basic set for coarse finishing to #4 finish on flat surfaces and pipes.

Part Number 47003A



PTX Basic Kit for Metal includes:

- 1 PTX Eco Smart machine
- 1 Carrying Case (P/N 40008)
- 1 60 grit flap wheel, 4" x 4-1/8" (P/N 47212)
- 1 80 grit Interleaf (Combi) wheel, 4" x 4-1/8" (P/N 47312)
- 1 Expansion roller, 3-1/2" x 4" (P/N 47005)
- 1 Medium fleece (Nonwoven) sleeve, 3-1/2" x 4" (P/N 42011)
- 1 Belt driving roller (P/N 47006)
- 1 80 grit grinding belt, 1.2" x 24" (P/N 49080)
- 1 Medium fleece (Nonwoven) belt, 1.2" x 26" (P/N 49002)
- 1 40 grit grinding belt, 3.6" x 4" (P/N 42040)
- 1 60 grit grinding belt, 3.6" x 4" (P/N 42060)
- 1 80 grit grinding belt, 3.6" x 4" (P/N 42080)
- 1 120 grit grinding belt, 3.6" x 4" (P/N 42120)

PTX Kit For Woodworking

The complete set for treating wooden surfaces. Strong transport case with PTX Eco Smart and a range of brush wheels for various wood structures. Suction cover for extracting grinding dust particles.

Part Number 40004-3A



PTX Basic Kit for Woodworking includes:

- 1 PTX Eco Smart machine
- 1 Carrying Case (P/N 40008)
- 1 Suction cover (P/N 40005)
- 1 Spacer ring (P/N 40007)
- 1 PTX stranded wire wheel (P/N 46301)
- 1 Bristle wheel (P/N 46101)
- 1 Fiber wheel (P/N 46400)

PTX Grinding Wheels for Coarse and Fine Finishing

PTX abrasives from CS Unitec are made according to high quality standards. A unique production process guarantees high concentricity for vibration-free grinding – ideal for fatigue-free working and perfect surface finishes with no transitions or shadows. **Simply try it!** You will be surprised how much smoother a PTX grinding wheel or brush wheel is.



PTX FLEECE (Nonwoven) Wheel

Flexible nylon fleece impregnated with abrasives for a first-class finish. Produces shadow-free matte, satin and polished finishes. For removing oxidation on stainless steel and nonferrous metals and also suitable for smoothing wooden surfaces. Very high fleece content by fleece compression.

Diameter: 4"
Width: 2", 4-1/8" or 6"
Grit: 60, 80, 180, 280, 400, 600



PTX Interleaf (Combi) Wheel

Nylon fleece combined with abrasive flaps for matte finishing, burnishing and removing light scratches, oxidation and handling marks on stainless steel and all metals. For removing old paint on wood while smoothing at the same time.

Diameter: 4"
Width: 2", 4-1/8" or 6"
Grit: 60, 80, 180



PTX Flap Wheel

With radial abrasive cloth flaps in various grit sizes for removing rust, oxidation layers, minor scratches and for the regraining and burnishing of metals.

Diameter: 4"
Width: 2" or 4-1/8"
Grit: 24, 40, 50, 60, 80, 120, 180, 240



PTX CLEAN Wheel

Made of hard-textured, nonwoven fleece for cleaning and descaling welds, pore-deep removal of rust, oxidation and coatings, cleaning beams, bricks, etc. Produces an effective linear finish on stainless steel.

Diameter: 4"
Width: 2" or 4"
Grit: Medium



PTX GUM Wheel

Soft rubber impregnated with abrasive grit for the removal of minor scratches. Ideal for a bright, decorative linear finish on stainless steel and nonferrous metals and for smoothing wooden fibers.

Diameter: 4"
Width: 2" or 4"
Grit: 60, 180

HOLLOW-CORE ABRASIVES HAVE MANY ADVANTAGES:

- Easy to mount – simply slide on and off
- 100% concentricity – no vibration
- Lower cost and higher productivity!

We continue to carry abrasives with core inserts.
Contact us for more information.

PTX Fleece Nonwoven Wheels

Part No.	Grit	Size (dia. x width)
47411	60	4" x 4 1/8"
47412	80	4" x 4 1/8"
47413	180	4" x 4 1/8"
47414	280	4" x 4 1/8"
47415	400	4" x 4 1/8"
43601*	600	4" x 4 1/8"
47401	60	4" x 2"
47402	80	4" x 2"
47403	180	4" x 2"
47404	280	4" x 2"
47405	400	4" x 2"
47422	80	4" x 6"
47423	180	4" x 6"

* Keyed shaft

PTX Interleaf (Combi) Wheels

Part No.	Grit	Size (dia. x width)
47311	60	4" x 4 1/8"
47312	80	4" x 4 1/8"
47313	180	4" x 4 1/8"
47301	60	4" x 2"
47302	80	4" x 2"
47303	180	4" x 2"
47322	80	4" x 6"
47323	180	4" x 6"

PTX Flap Wheels

Part No.	Grit	Size (dia. x width)
47211	40	4" x 4 1/8"
47212	60	4" x 4 1/8"
47213	80	4" x 4 1/8"
47214	120	4" x 4 1/8"
47215	180	4" x 4 1/8"
47201	24	4" x 2"
47202	40	4" x 2"
47204	60	4" x 2"
47205	80	4" x 2"
47206	120	4" x 2"
47207	180	4" x 2"
47208*	240	4" x 2"

* Keyed shaft

PTX CLEAN Wheels

Part No.	Grit	Size (dia. x width)
47511	Medium (black)	4" x 4"
40018A*	Medium (black)	4" x 2"

* Keyed shaft

PTX GUM Wheels

Part No.	Grit	Size (dia. x width)
45061*	60	4" x 4 1/8"
45181*	180	4" x 4 1/8"
45180*	180	4" x 2"

* Keyed shaft



Expansion Roller

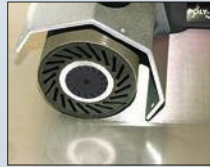
Use with sanding belts, fleece and felt sleeves. The sleeves are simply pushed over the expansion roller and held securely in place by the centrifugal force. **3-1/2" dia. x 4" wide - Part Number: 47005**

TIPS & TRICKS

Expansion Roller - Hard Rubber

Internal expansion slots now allow easier sleeve replacement and improved adjustment to the workpiece, as well as vibration absorption and concentricity.

Part Number: 47005



Belt Sleeves for Expansion Roller



PTX Zirconium Grinding Belt Sleeve

Made of zirconium. Removes deep scratches and grinds weld seams on metals. Far less rework is required as a result of using the time-saving linear grinding technique.

3-1/2" dia. x 4" wide
Grit: 40, 60, 80, 120, 150, 180



PTX Ceramic Grinding Belt Sleeve

High-performance ceramic aluminum oxide grain. Increased removal rate and longest life for highest productivity. Excels in all metals.

3-1/2" dia. x 4" wide
Grit: 40, 60, 80



PTX TZ Pyramid Sleeve

New abrasive cloth with pyramid-shaped grit structure. High material removal while producing a very fine finish, reducing the amount of work required when compared to grinding belt sleeves and fleece sleeves. Ideal for pre-polishing for fine mirror finishes and removing scratches and spot welds. Even roller scale can be removed easily.

3-1/2" dia. x 4" wide
Grit: A65/280, A45/400, A30/600, A16/1200, A06/2000



PTX Fleece "Nonwoven" Sleeve

Nylon impregnated with abrasive grit for removing minor to medium scratch marks and oxidation coatings, matte and satin finishing and deburring applications.

3-1/2" dia. x 4" wide
Grit: Coarse, Medium, Fine, Superfine



The expansion roller is helpful when grinding large areas and removing large welds.

PTX Zirconium Grinding Belt Sleeves

Part No.	Grit	Size (dia. x w)	Quantity
42040	40	3 1/2" x 4"	10 per pack
42060	60	3 1/2" x 4"	10 per pack
42080	80	3 1/2" x 4"	10 per pack
42120	120	3 1/2" x 4"	10 per pack
42150	150	3 1/2" x 4"	10 per pack
42180	180	3 1/2" x 4"	10 per pack

PTX Ceramic Grinding Belt Sleeves

Part No.	Grit	Size (dia. x w)	Quantity
42440	40	3 1/2" x 4"	10 per pack
42460	60	3 1/2" x 4"	10 per pack
42480	80	3 1/2" x 4"	10 per pack

PTX TZ Pyramid Sleeves

Part No.	Grit	Size (dia. x w)	Quantity
42270	A100/220	3 1/2" x 4"	10 per pack
42265	A65/280	3 1/2" x 4"	10 per pack
42245	A45/400	3 1/2" x 4"	10 per pack
42230	A30/600	3 1/2" x 4"	10 per pack
42216	A16/1200	3 1/2" x 4"	10 per pack
42206	A06/2000	3 1/2" x 4"	10 per pack

TZ PYRAMID GRIT COMPARISON TABLE

Corresponds to grit size	A65	A45	A30	A16	A06
	280	400	600	1200	2000

PTX Fleece "Nonwoven" Sleeves

Part No.	Grit	Size (dia. x w)	Quantity
42010	coarse (brown)	3 1/2" x 4"	4 per pack
42011	medium (red)	3 1/2" x 4"	4 per pack
42012	fine (blue)	3 1/2" x 4"	4 per pack
42009	superfine (grey)	3 1/2" x 4"	4 per pack

FLEECE COMPARISON TABLE

Corresponds to grit size	Coarse (brown)	Medium (red)	Fine (blue)	Superfine (grey)
	80	180	280	400

TIPS & TRICKS



To remove the grinding sleeve, place the expansion roller on a round object that is slightly smaller than the roller. Then push the sleeve down slightly using both hands.

Special Brushes for Metals, Wood and Hard Plastics



PTX Stranded Wire Wheels
Sturdy steel wire brush. For deburring, rust removal, roughing and cleaning metal. For brushing out soft annual rings on timber, leaving a rough rustic effect.
4" dia. x 2-7/8" wide – **Part No. 46301***
4" dia. x 1" wide – **Part No. 47702***
* Requires spacer ring 40007



PTX Bristle Wheel
Elastic nylon brush impregnated with abrasive grit. For roughing and deburring metal, as well as creating a rustic effect with even annual ring transitions on timber.
4" dia. x 2-7/8" wide – **Part No. 46101***
4" dia. x 1" wide – **Part No. 46102N***
* Requires spacer ring 40007



PTX Stainless Steel Wire Wheels
Elastic stainless steel wire brush. For cleaning welds, deburring, removing rust, roughing and removing coatings.
4" dia. x 2-7/8" wide – **Part No. 47721***
4" dia. x 1" wide – **Part No. 46202N***
* Requires spacer ring 40007



PTX Fiber Wheel
Elastic fiber brush. For polishing stained wood, satin finishing, pore-deep dust removal and cleaning applications.
4" dia. x 4" wide – **Part No. 46400**

Note: Above wheels are configured for keyed shaft. Hollow-core shaft adapter not necessary.



Stranded wire wheel for creating a rustic effect on wood



Cotton Buffering Wheel
Cotton yarn wheel for use with compounds. Produces a very bright high mirror finish. Use on flat, contoured or irregular surfaces.
4" dia. x 2" wide
Part No. CS 2405*
4" dia. x 4" wide
Part No. CS 2410
4" dia. x 6" wide
Part No. CS 2420
* Requires spacer ring 40007

Abrasives for Polishing to High-Gloss and Mirror Finish



PTX Felt Sleeve
Made of soft merino (endless) for polishing large stainless steel and nonferrous surfaces quickly to a mirror finish. Also suitable for hard plastics. Must be used with the expansion roller.
3-1/2" dia. x 4" wide (4 per pack)
Part No. 42013



PTX SuperPolish Sleeve
Revolutionary special fleece produces perfect brilliant, shadow-free mirror finishes on stainless steel and nonferrous metal surfaces using polishing compounds (white and blue) and pink polishing cream. SuperPolish fleece is absorbent, does not smear and saves significant work time. Must be used with the expansion roller.
3-1/2" dia. x 4" wide (4 per pack)
Part No. 42013N



Poly-PTX Cotton Rings
Fleece rings for polishing narrow or uneven stainless steel and nonferrous metal surfaces using polishing compounds (white and blue) and pink polishing cream. A separate Poly-PTX Cotton Ring must be used for each compound or cream so as not to mix different compound grits.
For polishing narrow or uneven stainless steel surfaces:
100mm x 12mm (4" dia. x 1/2" wide), 8 per pack, **Medium Part No. 40019M**
100mm x 12mm (4" dia. x 1/2" wide), 8 per pack, **Soft Part No. 40019-T**
For polishing aluminum, brass and other nonferrous metals:
100mm x 12mm (4" dia. x 1/2" wide)
Part No. 250 521

See page 92 for pre-grinding and polishing compounds, mirror finish creams, cleaners and protective sprays for finished metal surfaces.



Polishing and Maintenance Products (cont'd)



PTX Pre-grinding & Polishing Compound
Essential for polishing all metals, including stainless steel, aluminum, etc.

PTX WHITE pre-polishing compound (23 oz.) – **Part No. 40013**
PTX BLUE finishing compound (23 oz.) – **Part No. 40014**
PTX WHITE and BLUE mini pastes (approx 4.2 oz. ea.) – **Part No. 40009**



PTX Brightex® Softclean Powder (non-caustic)
For removing cream and compound residues. Scatter on the surface and wipe off with a microfiber cloth.

Aluminum scatter container with Brightex®
(approx. 7 oz.) – **Part No. 40029**
Bag, 2.2 lbs. – **Part No. 40028**
Scatter container only – **Part No. 40020**



PTX Polishing Cream, Pink
For high reflective finishing. Produces a perfect mirror finish on stainless steel and nonferrous metals when used with the SuperPolish Sleeve or Belt.

Miniature tube, 2 oz. – **Part No. 40015T**
Can, 2.2 lbs. – **Part No. 40015**

Microfiber Cloths

For pore-deep cleaning and even distribution of maintenance products and polishes. Our microfiber cloths produce a top finish on all materials.

Size: 13" x 14", package of 25 – **Part No. 40031**



INOX-Protect (hard sealant)
Protects finished and polished metal surfaces (stainless steel, steel, aluminum, brass, copper, etc.) with a clear, dry adhesive film. Removes fingerprints and other dirt.

Canister (w/ spray bottle), **1.3 gal.** – **Part No. 40041**



Brilliance-Clean
For streak- and residue-free cleaning of all surfaces, including stainless steel, steel, aluminum, brass and copper. Brilliance-Clean is not harmful to plastics, wood or coated surfaces. Remove fingerprints, dust, compound residue, minor oil and grease marks and adhesive residue. Evaporates quickly without leaving residue.

Part No. 40051
Spray bottle, 17 oz. – **Part No. 40050**

Canister (w/ spray bottle), **1.3 gal.** –



POLY Protection (oil film)
For cleaning and preserving finished and polished stainless steel and nonferrous metal surfaces. Protects against shadows and finger and water marks for a long time. Spray on and rub off with a microfiber cloth. Produces a darker effect on finished surfaces.

Canister (w/ spray bottle), **1.3 gal.** – **Part No. 40012**
Spray bottle, 17 oz. – **Part No. 40011**

TIPS & TRICKS

A perfect mirror finish on stainless steel

The newly developed grinding and polishing system, featuring special **TZ Pyramid** and **SuperPolish** fabrics from CS Unitec, produces a perfect mirror finish quickly and in just a few steps.



Step 1 - Pre-grinding
Prepare with **TZ Pyramid** sleeve grit A45 (possibly A65) to remove mill skin, scratches and minor unevenness.



Step 2 - Intermediate grinding
Rework with **TZ Pyramid A30** and complete with **TZ Pyramid A16**. Use very little grinding pressure and grind perpendicular and diagonally.



Step 3 - Mirror finish polish
Use the **SuperPolish** sleeve with **white polishing paste**, then with **blue polishing paste**. Use a different sleeve for each paste grit. Polish diagonally. For a high-gloss finish, use the **SuperPolish** sleeve with the **pink high-gloss polishing cream**. Polish in one direction only.

*Tip: After each step, remove the compound residue from the workpiece with **PTX Brightex® Softclean Powder** and a microfiber cloth.*

The result... a brilliant mirror finish!



Maintain and protect finished or polished stainless steel surfaces.

Compound and cream residues can be removed using **PTX Brightex® Softclean** powder. Simply scatter on the softclean powder and wipe it off using a microfiber cloth.

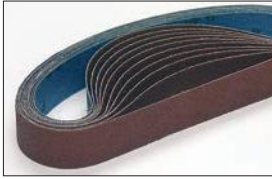
Compound residues, fingerprints, dust, minor oil and grease marks and adhesive residue can be removed effortlessly with **Brilliance-Clean**. Any residue will evaporate immediately.

To protect finished or polished metal surfaces, spray **INOX-Protect** on the surface, rub off with a microfiber cloth, wipe the surface dry and then polish briefly. The surface will be protected by a dry, invisible film for several weeks. Polished finishes will not be darkened by this product.

Abrasives for Pipe Constructions – Open or Closed



PTX Grinding Belt Roller with stainless steel flanges
For use with grinding, fleece, SuperPolish and felt belts. The belt roller is made of wear-resistant soft Vulculan with stainless steel discs on the sides. The surface is grooved to ensure that the abrasive belt does not slip.
Diameter: 3.5" x 2.8" Part No. 47006



PTX Grinding Belt in high-quality aluminum oxide (closed)
For coarse and initial grinding, rust removal and smoothing round metal pipes. For use with grinding belt rollers. For use on closed pipe constructions, see TIPS & TRICKS below. **Dimensions: 1.2" x 24"**
Grit: 40, 60, 80, 120, 150, 180, 240
See ordering information at right.



PTX TZ Pyramid Belt (closed)
Abrasive fabric with pyramid-shaped grit structure for removing scratches, roller scale and spot welds. TZ Pyramid belts allow high material removal while producing a very fine finish. They are ideal for initial grinding before polishing to a mirror finish. Because grit fineness is increased slowly, it is possible to omit several operations. Use with grinding belt rollers. For use on closed pipe constructions, see TIPS & TRICKS below.
Dimensions: 1.2" x 24", Grit: A65, A45, A30, A16, A06
See ordering information at right.



PTX Fleece Nonwoven Belt (open)
Buttonhole fastening system for fine grinding and pre-polishing open and closed pipe constructions and handrails. The fleece belt can be opened and closed as often as necessary. For use with grinding belt rollers. International patent and design protected.
Dimensions: 1.2" x 26", Grit: coarse, medium, fine, superfine. See ordering information at right.

With buttonhole – **PATENTED!**



PTX Felt Belt (open)
Made of merino felt with buttonhole fastening system for polishing open and closed pipe constructions and handrails. The polishing belt can be opened and closed as often as necessary. Use with grinding belt rollers and our polishing compounds and creams. Use a separate felt belt for each compound and cream grit - do not mix grits. International patent and design protected.
Dimensions: 1.2" x 26" Part No. 49004



PTX SuperPolish Belt (closed)
For a perfect mirror finish on pipe constructions and handrails. SuperPolish is a new, special micro fleece that produces a perfect, brilliant mirror finish on stainless steel and nonferrous metals. Smears and shadows are eliminated when used with our polishing compounds (white and blue) and pink cream. SuperPolish is absorbent and saves time. Use with grinding belt rollers.
Dimensions: 1.2" x 26" (not available with buttonhole fastening system) Part No. 49004N

PTX Grinding Belts (Aluminum Oxide)

Part No.	Grit	Size (w x l)	Quantity
49040	40	1.2" x 24"	10 per pack
49060	60	1.2" x 24"	10 per pack
49080	80	1.2" x 24"	10 per pack
49120	120	1.2" x 24"	10 per pack
49150	150	1.2" x 24"	10 per pack
49180	180	1.2" x 24"	10 per pack
49240	240	1.2" x 24"	10 per pack

PTX TZ Pyramid Belts

Part No.	Grit	Size (w x l)	Quantity
49365	A65/280	1.2" x 24"	10 per pack
49345	A45/400	1.2" x 24"	10 per pack
49330	A30/600	1.2" x 24"	10 per pack
49316	A16/1200	1.2" x 24"	10 per pack
49306	A06/2000	1.2" x 24"	10 per pack

PTX Fleece Nonwoven Belts (open)*

Part No.	Grit	Size (w x l)	Qty.
49001	coarse (brown)	1.2" x 26"	1
49002	medium (red)	1.2" x 26"	1
49003	fine (blue)	1.2" x 26"	1
49007	superfine (grey)	1.2" x 26"	1

* Feature buttonhole fastening system



PTX Special Adhesive Tape
Integrated glass fabric for joining grinding belts. Strong, heat-resistant adhesive. Join PTX grinding and TZ Pyramid belts for use on closed pipe constructions. Wrap tape around entire length of grinding belt, overlapping approximately 370°.
Dimensions: 1" x 165' Part No. 49000



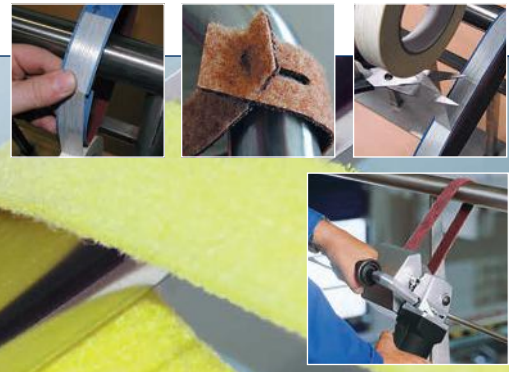
INOX Miter Tape
Protect adjacent finishes when grinding. Self-adhering 304 Stainless tape for use when creating distinct edges on finishes. Excellent for creating mitered corners. Easily cut with scissors, fast application and residue-free removal. Minimal thickness for accurate grinding lines.
Dimensions: One roll measures 6" x 8.2 ft. Part No. 40070

TIPS & TRICKS

Grinding and polishing closed pipe constructions

Fleece and felt belts with the patented buttonhole fastening system are ideal for working on closed pipe constructions and handrails. The grinding belt can be placed over the pipe and closed or opened again in a twist using the buttonhole system. Changing a belt is quick and easy. The belt can be opened and closed as often as required.

Closed belts such as the high-quality aluminum oxide belt or the TZ Pyramid belt must be cut open to work on closed pipe constructions. Place the belt over the pipe and join using our special adhesive tape (P/N 49000) over the entire length (approx. 370°).



VARILEX® NEW!
1802 HT *Professional*

The most powerful speed-controlled angle surface finishing and blending tool in its class.

Variable speed from 2400 to 8900 RPM, 15 Amp (1710 W) power, disc change in seconds without tools. For disc diameters up to 7".



VARILEX® is designed to efficiently maximize the capabilities of flap, grinding and cutting discs and the Hook & Loop system.

**INDUSTRY'S MOST POWERFUL
 BLENDING & FINISHING TOOL!**

Optimal speed setting for a range of grinding and polishing applications, yielding perfect results every time!



FLEXIBLE SHAFT - The new flexible drive shaft can now upgrade the VARILEX® to a powerful professional drive motor for all applications. See page 95 for details.



More than just an angle grinder – the most powerful single-handed multi-function machine available!



Change discs in seconds, without tools.

The VARILEX® has an infinitely adjustable speed between 2400 and 8900 RPM, for applications from grinding to blending, pre-polishing and polishing

- Ideal for use with both flap discs and polishing discs, as well as grinding and cutting wheels
- Balanced handle ensures fatigue-free grinding
- Tachogenerator keeps speed constant, even when grinder is operating at full load or low speeds
- Variable-speed control doubles disc service life, prevents glazing of disc and workpiece heat deformation and reduces noise level
- Motor design allows exceptional performance at low RPM – without motor overheating or burnout
- EASY-LOCK clamping nut and spindle lock allows disc changeover in seconds



VARILEX® Specifications

Order No.	65030U	
Motor Power	15 Amp (1710 Watts); 110 Volt/60Hz (Also available: 230 Volt / 50 Hz)	
Speed Control Dial	Infinitely adjustable from 2400 to 8900 RPM	
Wheel Diameter	4" to 7"	
Spindle Thread	5/8"-11 UNC	
Arbor Size	7/8"	
Weight	6.2 lbs.	

Use with various discs and safety guards

Available with optional 7" safety guard for use with various-size grinding discs from 4" to 7" diameter (typical disc diameters are 4", 4-1/2", 5", 6" and 7").

The VARILEX® is not designed for continuous use at low speed for polishing paint in the automotive trade.

FIX Hook & Loop Kits for VARILEX® System

Two versatile FIX Hook & Loop System kits for polishing up to a #8 mirror finish!

- Changeover in seconds between abrasives
- Wide selection available

See pages 98-101 for kits & abrasive accessories.



5/8"-11 EASY-LOCK SPEED NUT Clamping System



Using the **EASY-LOCK SPEED NUT**, you can change the abrasive disc on the VARILEX® in a matter of seconds – without tools!

Easy hand tightening eliminates the need for wrenches and expensive 5/8"-11 hubs. **Part No. 65008-1**

↓ TIPS & TRICKS



Polish stainless steel to a mirror finish with the VARILEX® I

(1) Initial grinding (remove scratches and roller scale, level welds) with TZ Pyramid disc A45 (grit 400) or A65 (grit 280). Finish with TZ Pyramid disc A30 (grit 600) and A16 (grit 1200). (→page 105)

(2) Main polish with SuperPolish disc and white polishing compound, then with blue polishing compound. Important: Use a separate disc for each compound grit.

(3) Mirror finish with SuperPolish disc and pink polishing cream. (→page 105)

Flexible Shaft Ordering Information

Item	Part No.
Flexible shaft with 5/16" steel wire and 5/8" thread	10015
Separate 1/8" collet for flexible shaft	10011A
Separate 1/4" collet for flexible shaft	10011B
Machine holder (powder-coated steel) incl. clamping screw for VARILEX®	10008

PLANTEX[®] Flap Discs

**INDUSTRY FIRST! NEW ECO-FRIENDLY
PLANTEX DISCS WITH INDUSTRIAL
PROTECTED HEMP BACKING**

**Renewable Resource
Environmentally Sustainable**

**More Impact Resistant
vs. Fiberglass**

**Plant-Based Hemp
Backing Plate**

**Built-in Easy Spin-on
5/8" x 11**

Absorbs Heat & Sound

**Trimmable for
Extended Life**



SUPERIOR PERFORMANCE

Made in Germany 

- **Internationally Protected unique Formula: Optimal grinding, blending, & finishing**
- **Eco-Friendly: 50% less energy is used in production of PLANTEX Discs**
- **100% Usable flaps, down to the backing**

COMPETITIVELY PRICED



High performance, patented grain & design that excels on stainless steel, carbon steel, & heat sensitive alloys providing extra long-life. (Type 29)

Part No.	Diameter	Arbor	Grit	QTY
93520	4-1/2"	5/8" x 11 Spin On	Multigrain 40/60	10 Pack
93519	4-1/2"		80	
93521	5"		Multigrain 40/60	
93523	5"		80	
93516	6"	7/8"	Multigrain 40/60	
93517	6"	7/8"	80	



A premium zirconia grain for use on carbon steel and stainless steel. High metal removal rates and long life. (Type 29)

Part No.	Diameter	Arbor	Grit	QTY
93564	4-1/2"	5/8" x 11 Spin On	40	10 Pack
93566	4-1/2"		60	
93568	4-1/2"		80	
93569	4-1/2"		120	
93574	5"		40	
93576	5"		60	
93578	5"		80	
93579	5"		120	
93499	6"	7/8"	40	
93500	6"		60	
93501	6"		80	
93502	6"		120	



A zirconia grain for use on carbon steel & stainless steel, overhang excels for corners & tight areas, for fast cut & long-life- an excellent value. (Type 29)

Part No.	Diameter	Arbor	Grit	QTY
93485	4-1/2"	5/8" x 11 Spin On	Multigrain 40/60	10 Pack
93486	4-1/2"		80	
93488	5"		Multigrain 40/60	
93489	5"		80	



A special grain & formula to grind & blend aluminum and other non-ferrous materials while minimizing loading and providing long-life. (Type 29)

Part No.	Diameter	Arbor	Grit	QTY
93854	4-1/2"	5/8" x 11 Spin On	40	10 Pack
93856	4-1/2"		60	
93858	4-1/2"		80	
93859	4-1/2"		120	
93864	5"		40	
93866	5"		60	
93868	5"		80	
93869	5"		120	



Overhang

PLANTEX® INDUSTRIAL HEMP FLAP DISCS

FIX HOOK & LOOP SYSTEM

PATENTED!

Highly flexible backing disc for high-quality finishes. Ideal for surface conditioning and polishing up to a mirror finish.

The FIX Hook & Loop system takes advantage of a flexible backing pad and allows a disc to be changed in seconds without tools.

The FIX Hook & Loop system is a good fit wherever disc flexibility and frequent changeover are required. It will save time in industrial metalworking applications such as car body shops and repair shops.

The system requires a speed-controlled angle grinder, such as the VARILEX®. A wide range of abrasives are available for all steps – from rough grinding up to a mirror finish.

The FIX Hook & Loop's "green" backing disc is made of natural materials. The flexibility of the abrasives allows you to achieve results similar to stationary grinding machines.



The FIX family of abrasives must be used with the FIX original backing pads.

The FIX Hook & Loop system is an essential surface finishing and polishing system for all sheet metal applications.

FIX Hook & Loop System Kits

FIX Starter Kit

This kit includes a range of FIX Hook & Loop components, as well as a VARILEX® WSF 1802 Angle Grinder. **Part No. 80050U**

- 1 VARILEX® WSF 1802 HT, 110V, 5/8" spindle
- 1 Carrying case
- 1 FIX backing pad - 4-7/16"
- 1 Wheel guard for discs up to 5"
- 3 FIX fleece discs 4-1/2" (1 each - coarse, medium, fine)
- 1 EASY-LOCK SPEED NUT
- 2 FIX FLEECE TOP 4-1/2" (1 each - grit 80, 180)
- 2 FIX flap discs 4-1/2" (1 each - grit 40, 60)
- 2 FIX SuperPolish discs 4-1/2"
- 1 FIX clean 4-1/2"
- 1 PTX Brightex® Softclean Powder scatter can
- 4 FIX Zirconium discs 4-1/2" (1 each - grit 40 - 120)
- 2 Mini-polishing pastes, white and blue

FIX Test Kit

This kit contains all the FIX Hook & Loop System components to go from rough grinding up to a mirror finish. **Part No. 80051U**

- 1 Carrying case
- 1 FIX backing pad
- 8 FIX Zirconium discs 4-1/2" (2 each - 40, 60, 80, 120 grit)
- 10 FIX TZ Pyramid discs 4-1/2" (2 each - 280, 400, 600, 1200, 2000 grit)
- 8 FIX Surface Conditioning discs 4-1/2" (2 each - coarse, medium, fine, superfine)
- 6 FIX SuperPolish discs 4-1/2"
- 2 Mini-polishing pastes, white and blue
- 1 PTX polishing cream pink
- 1 PTX Brightex® Softclean Powder scatter can
- 2 PTX microfiber cloths
- 1 Sample size PTX Poly Protection
- 1 Sample size PTX Brilliance Clean



↓ TIPS & TRICKS

Perfect mirror finish on stainless steel and nonferrous metals

The new TZ Pyramid and SuperPolish discs for the FIX Hook & Loop system can be used with an angle grinder to create perfectly polished finishes on stainless steel and nonferrous metals.

Pre-grinding to remove scratches and level welds using TZ Pyramid discs with grit A30.

Fine grinding using TZ Pyramid discs with grit A16.

These two stages prepare the surface for polishing. TZ Pyramid is an aggressive abrasive, so there is no need to slowly increase the grit fineness. Use only contact pressure to grind – the weight of the grinder is generally sufficient.

Pre-polish with SuperPolish disc and white polishing compound.

Main polish with SuperPolish disc and blue polishing compound.

Perfect mirror finish with SuperPolish disc and pink cream.

Use a separate SuperPolish disc for each step – the different compound grits must not be mixed. Remove compound and cream residues after each stage using PTX Brightex® Softclean Powder and a microfiber cloth.

Abrasives for the FIX Hook & Loop System

The FIX family of abrasives must be used with the FIX original backing disc.



FIX Backing Pads with Centering Pin

For use with the FIX Zirconium, FIX TZ and FIX SuperPolish discs. The backing disc is made of special elastic with a centering pin for perfect alignment.

Without Foam:

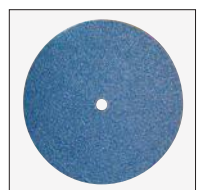
Diameter: 4.5" with 5/8"-11 thread – **Part No. 80115U**

Diameter: 6" with 5/8"-11 thread – **Part No. 80150U**

With 1/4" PUR Foam absorptive coating:

Diameter: 4.5", 5/8"-11 thread – **Part No. 80115UF**

Diameter: 6", 5/8"-11 thread – **Part No. 80150UF**



FIX Zirconium Disc

Abrasive disc with Hook & Loop fastening and an outstanding grinding capacity. Ideal for body shops and car workshops.

FIX Zirconium Disc Ordering Information

Part No.	Diameter	Grit	Quantity
80904	4 1/2"	40	50 pack
80906		60	
80908		80	
80909		120	
80914	6"	40	50 pack
80916		60	
80918		80	
80919		120	



FIX Fleece (Nonwoven) Disc

Versatile disc for fine surface conditioning and pre-polishing.

FIX Fleece (Nonwoven) Disc Ordering Information

Part No.	Diameter	Grit	Quantity
80615	4 1/2"	coarse (brown)	10 pack
80616		medium (red)	
80617		fine (blue)	
80618		superfine (grey)	
80650	6"	coarse (brown)	10 pack
80651		medium (red)	
80652		fine (blue)	
80653		superfine (grey)	



FIX (Nonwoven) Disc

The new FIX-Klett disc is a superfine soft nylon-fleece material for pre-polishing aluminum or other soft, nonferrous materials to a mirror finish.

Diameter: 4-1/2"; Superfine grit, **Part No. 80680 (10 pack)**

Diameter: 6"; Superfine grit, **Part No. 80690 (10 pack)**



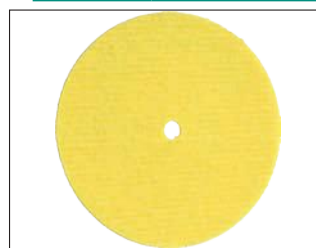
FIX TZ Pyramid Disc

Abrasive fabric with pyramid-shaped grit structure for high material removal while producing a very fine finish. FIX TZ Pyramid discs reduce the amount of work required compared to grinding belt and

fleece sleeves. Ideal for pre-polishing for mirror finishes and for removing scratches and spot welds. An additional coating dramatically reduces the grinding temperature and protects the Hook & Loop components and workpiece.

FIX TZ Disc Ordering Information

Part No.	Diameter	Grit/Equivalent	Quantity
80932	4 1/2"	A65/280	10 pack
80940		A45/400	
80960		A30/600	
80970		A16/1200	
80980		A06/2000	
80985	6"	A65/280	10 pack
80986		A45/400	
80987		A30/600	
80988		A15/1200	
80989		A06/2000	



FIX SuperPolish Disc

SuperPolish is a special needle fleece that produces a perfect, brilliant mirror finish on stainless steel and nonferrous metals. Use with our polishing compounds (white and blue)

and pink cream to avoid smears and shadows. SuperPolish is absorbent, does not smear and saves time.

Diameter: 4-1/2"; Thickness: 1/4", **Part No. 80715N (10 pack)**

Diameter: 6"; Thickness: 1/4", **Part No. 80750N (10 pack)**



FIX SuperPolish Felt Disc

Special merino wool felt that produces a perfect, brilliant mirror finish on stainless steel and nonferrous metals. Use with our polishing compounds (white and blue) and pink cream to avoid smears and shadows.

Diameter: 4-1/2"; Thickness: 1/4", **Part No. 80715 (10 pack)**

Diameter: 6"; Thickness: 1/4", **Part No. 80750 (10 pack)**

When polishing with **FIX SuperPolish Discs**, use a separate SuperPolish disc for each compound and cream. The different compound grits *must not* be mixed. Remove compound and cream residues from the workpiece after each stage using PTX Brightex® Softclean Powder and a microfiber cloth.



POLY-MAGIC UNITIZED WHEEL

Dry polish stainless steel in corners up to a mirror finish!

The POLY-MAGIC-WHEEL is designed for finishing and dry polishing in corners, producing up to a perfect mirror finish in just two steps. These discs are composed of highly compressed fleece material, made by compressing single flaps that are then impregnated with foam for greater strength. This special process allows considerably more abrasive material to be used than on conventionally wound "unitized wheels and discs."

The POLY-MAGIC-WHEEL is ideal for grinding and polishing bead and corner welds. It may only be used frontally.



Polishing corner welds with the POLY-MAGIC-WHEEL

Obtaining good polish quality when finishing corner welds is difficult, especially for the fabrication of railings. The POLY-MAGIC-WHEEL was designed to help you more easily produce a truly perfect finish in these applications. This highly compacted fleece disc was designed specifically for grinding and polishing bead and corner welds.

Carry out the initial grinding and leveling of welds with the red disc, grit A (80 grit).

Then polish to a mirror finish using the POLY-MAGIC gray disc, grit B (900 grit). These discs are very aggressive and improve productivity. No polishing compounds or creams are required for polishing with the POLY-MAGIC-WHEEL (dry polish).

POLY-MAGIC-WHEEL

Dimensions 6 1/2" dia. x 7/8" arbor

Max. Speed 5000 RPM

Ideal Speed 3000 to 4000 RPM

A/80 (light gray): for initial grinding and leveling welds
(P/N 96720, 5 pk.)

B/900 (dark gray): for polishing to a perfect mirror finish
(P/N 96721, 5 pk.)

Mirror finish in 2 steps:



1 POLY-MAGIC-WHEEL A (80 grit)



2 POLY-MAGIC-WHEEL B (900 grit)



MAGNUM® TOPMIX

Increased material removal, longer service life.

The MAGNUM® TOPMIX was developed to increase material removal during finishing while also improving service life. The 80 combination grit is much more aggressive than our MAGNUM® FLEECE TOP 80 grit (see next page). Individual flaps with foamed and compressed fleece offer a much higher removal capacity, making it ideal for removing spot welds and deep scratches on stainless steel, steel and nonferrous metals. The coordinated fleece combination additionally ensures that a good finish is achieved. The MAGNUM® TOPMIX also offers excellent service life, making deburring and cleaning of cast parts and welds a breeze.

Ideal for speed-controlled angle grinders.

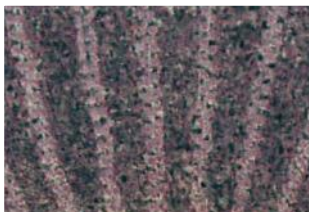
MAGNUM® TOPMIX

Dimensions 5 dia. x 7/8" arbor

Max. Speed 6000 RPM

Ideal Speed 2000 to 4500 RPM

Grits 40/80 (P/N 96705, 5 pk.)



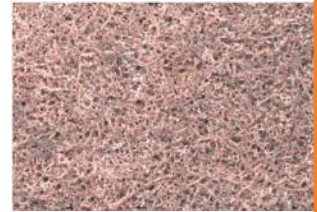
MAGNUM® FLEECE TOP

Made of foamed, compressed grit, interspersed nonwoven fleece.

The MAGNUM® FLEECE TOP is a versatile fleece disc for surface conditioning, fine finishing and polishing, offering up to 8x the service life of traditional fleece and surface conditioning discs. The FLEECE TOP is an ideal disc for metalworking that requires fine grinding and pre-polishing to a uniform clean finish. It is effective at descaling and removing oxidation, scratches, rust, burrs and paint. It replaces a wire brush, abrasive paper and grinding rubbers and is self cleaning, with a special mixture that prevents glazing and loading. The foamed fleece ring is approx. 5/8" thick. This highly compressed quantity of fleece material ensures an extra-long service life.

Ideal for speed-controlled angle grinders.

MAGNUM® FLEECE TOP	
Dimensions	4 1/2" dia. x 7/8" arbor
Max. Speed	8000 RPM
Ideal Speed	2000 to 4500 RPM
Grits	80 (P/N 96710, 5 pk.)
	180 (P/N 96711, 5 pk.)
	280 (P/N 96712, 5 pk.)
	400 (P/N 96713, 5 pk.)
	600 (P/N 96714, 5 pk.)
	900 (P/N 96715, 5 pk.)



Scan to
Learn More



MAGNUM® CLEAN

For pore-deep cleaning of metals
(sandblasting effect).

MAGNUM CLEAN® is a flexible cleaning disc for the pore-deep cleaning of metals. This flexible coarse fleece disc is interspersed with silicon carbide grit and cleans without harming the base material. The disc itself is iron free, which means that there is no risk of corrosion. The coarse fleece material will not glaze or load, even if exposed to heavy contamination. MAGNUM CLEAN® is the ideal cleaning disc for pore-deep removal of paint, rust, scale and oil smears, as well as for cleaning and exposing without material removal. It is ideal for use in body shops (cleans thin sheet metal with no material removal) and in the automotive industry, and it is also suitable for undersealing, renovating, painting and building work. MAGNUM CLEAN® is particularly good for removing paint and other coatings on wood, stone and metal (including window frames, doors and frames, furniture, house facades, graffiti, railings, fences, supports and machines).

Ideal for speed-controlled angle grinders.

MAGNUM® CLEAN	
Dimensions	5 dia. x 7/8" arbor
Max. Speed	5000 RPM
Ideal Speed	2000 to 4500 RPM
Grits	Medium (P/N 96700, 5 pk.)



PIPE-MAX

Pipe Belt Grinder

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

Follow contours to grind and polish pipes and handrails up to a high-gloss finish

- Grinds weld seams on flat surfaces – leaves no edges
- Belt wraps around pipe and requires only a few steps to polish entire circumference
- Powerful 15 Amp motor and variable-speed control from 950 to 3500 RPM
- Quick and easy changing of sanding belts
- Ideal for stainless steel, aluminum and high-quality metals
- Patented damping concept with gas pressure damper enables maximum "pipe enclosure" with minimal effort.
- Tachogenerator provides constant speed, even under load



The new contour concept with the elastic return roller allows the grinding and polishing belts to conform around the external diameter of the pipes with light, uniform pressure.



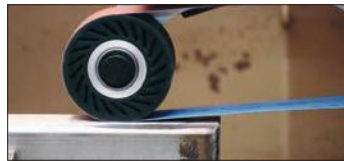
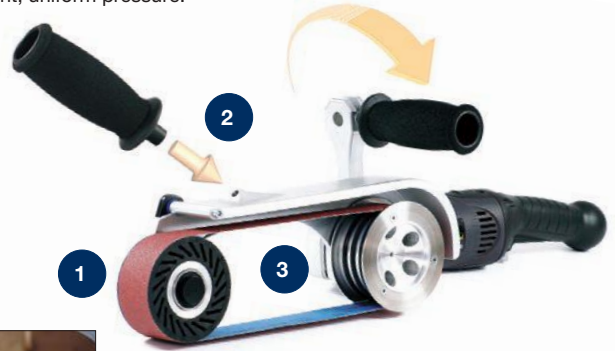
1 Gas pressure cylinder allows belt to conform to contour of pipe with proper pressure.



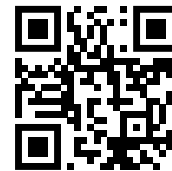
2 Additional handle for comfortable, overhead working.



3 The drive roller with the rubber rings ensures that the grinding belts will not slip.



The soft grinding roller made of PUR material also allows comfortable longitudinal grinding of flat surfaces, for example to remove spot welds or eliminate deep scratches.



Scan to Learn More

PIPE-MAX Specifications

Order No.	38502A
Belt Size	30.7" L x 1.5" W*
Power	15 Amp (1710 W) / 110V
Pipe ø Max.	14"
Weight	11.25 lbs.

230V models also available

Standard Equipment

1 PIPE-MAX basic machine, 110V	2 PIPE-MAX SC-fleece belts, medium
1 QUICK-LOCK cable, 13 feet	2 PIPE-MAX SC-fleece belts, fine
1 additional handgrip	3 spare rubber rings
PIPEMAX grinding belts, 2 each grits 40, 60, 80 and 120	

The King-Boa, Pipe-Max & Gladius all use the same abrasives. To see the abrasives offered see page 105



KING-BOA™ **NEW!**

**Blend, finish and polish up to a mirror finish
For use on all metal handrails, railing, tubing and pipe**

LET THE KING-BOA DO THE WORK FOR YOU!

- Fast, efficient and uniform blending and finishing on round handrails and pipe up to 5" dia.
- Wraps around the workpiece 270° - rotate slightly for 360° all-around finish.
- Increase productivity and reduce fatigue – ergonomic design and optimal belt tension requires minimal user pressure.
- Planetary gearbox engineered for 50% more torque



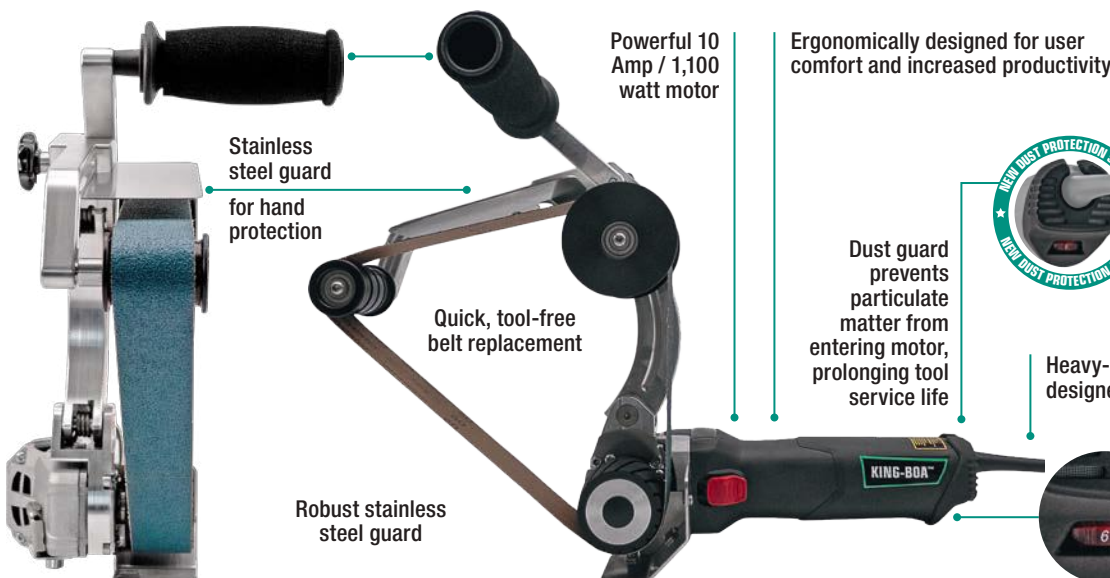
**Scan to
Learn More**



IDEAL FOR USE IN NARROW SPACES

180° adjustable top handle and compact head fit in narrow areas between walls and floors

180° adjustable handle for working in tight spaces (closed handrails and small-diameter pipe)



HighTorque

Powerful, high-torque planetary gearbox
30% higher power reserves with up to 50% more torque vs. the competition
Electronic overload protection and soft start
Made in Germany



Dust guard prevents particulate matter from entering motor, prolonging tool service life

Heavy-duty housing and electrical cord – designed for professional use

See KING-BOA Abrasives & Specifications on Next Page

KING-BOA™ *NEW!* SPECIFICATIONS

KING-BOA™ Specifications

Part No.	38810U
Power	10 Amp / 1,100 watt
Belt Speed	800-3000 RPM
Belt Size	30.7" x 1.5" (780mm x 40mm)
Weight	9 lbs.
Capacity	3/4" to 3-1/4" (Ideal Pipe Dia.) 5" (Maximum Pipe Dia.)

230V models also available

Standard Equipment

- 1 KING-BOA Railing Belt Sander
- 1 Motor Protection Dust Guard
- 6 Zirconium Belts (2 ea. 60, 80, & 120 Grit)
- 2 SC Fleece Belts (1 medium & 1 fine)



Gladius® Multifunctional Grinder *NEW!*

Ideal for hard-to-reach areas such as corners, angles and tight spaces.

- Grind, deburr, blend and polish ferrous and nonferrous metals, wood and plastic
- Tachogenerator provides constant speed, even under load
- Fast changing of belts
- Abrasive guide extension arm consists of a new special alloy for significantly reduced grinding temperatures



Gladius® Specifications

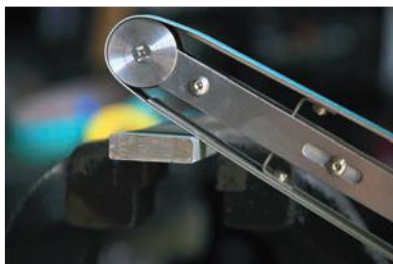
Order No.	38901U
Belt Size	30.7" L x 1.5" W*
Power	15 Amp / 110V
Speed	820 - 3800 RPM
Weight	10 lbs.



Scan to Learn More

Standard Equipment

- 1 GLADIUS®
- 1 pre-installed fine dust protective cap
- 4 premium zirconia belts
- 5 replacement rubber O-rings



Abrasives & Accessories for PIPE-MAX, KING-BOA & GLADIUS

Abrasive Grinding Belts

10 Belts per package

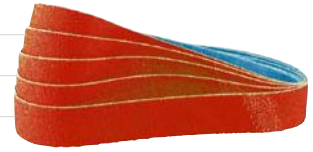
Grit	Part No.
24	38523
40	38524
50	38525
60	38526
80	38528
120	38529



Ceramic Grinding Belts

10 Belts per package

Grit	Part No.
24	38124
36	38136
60	38160
80	38180
100	38100



Surface Conditioning Fleece Belts

4 Belts per package

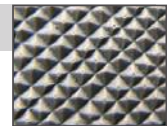
Grit	Part No.
Coarse (brown)	38531
Medium (red)	38532
Fine (blue)	38533
Superfine (grey)	38534



TZ Pyramid Belts

10 Belts per package

Grit	Part No.
A100/220	38544
A65/280	38545
A45/400	38546
A30/600	38547
A16/1200	38548



Polishing Compounds

PTX Pre-grinding & Polishing Compound

Essential for polishing all metals.

PTX WHITE pre-polishing (23 oz.) – **Part No. 40013**

PTX BLUE finishing (23 oz.) – **Part No. 40014**

PTX Polishing Cream, Pink

High reflective finishing – perfect mirror finish on stainless steel and nonferrous metals. Use with SuperPolish Belt.

Miniature tube (2 oz.) – **Part No. 40015T**

Can (2.2 lbs.) – **Part No. 40015**



SuperPolish Belt

4 Belts per package
Part No. 38850



PTX Brightex® Softclean Powder (non-caustic) Remove cream and compound residues.

Microfiber cloths, 25 qty. (13" x 14") – **Part No. 40031**

Aluminum scatter container w/ Brightex® (approx. 7oz.) – **Part No. 40029**

Bag (2.2 lbs.) – **Part No. 40028**



Cleaners/Sealants also available

Brilliance-Clean

Streak- and residue-free cleaning

POLY Protection (oil film)

Clean and preserve finished and polished metal surfaces.

INOX-Protect

(hard sealant)
Protect finished/polished metal surfaces.

Scan QR Code for all polishing and maintenance products



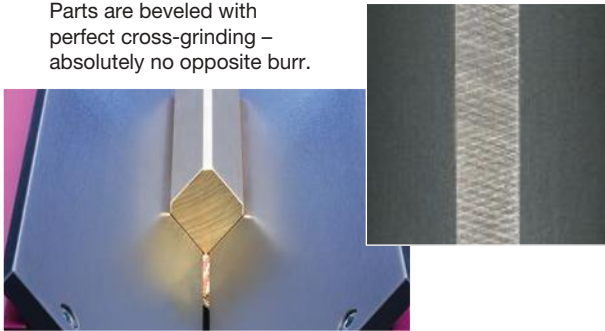
Speak to one of our technical specialists for assistance with your metal finishing applications

ROLEI® PEF 500

Beveling and deburring machine for facets at angles of 30° to 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).

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



ROLEI® PEF 500 Specifications

Order No.	30201 (220 Volt) 30200 (380 Volt)
Motor	220V single-phase or 380V 3-phase
Dimensions	20" x 14" x 14"
Weight	88 lbs.
Options	Machine stand, extraction port for dust extractor connection

Supplied with 80 grit disc. Other grits available.

Optional accessories:



Machine stand
Part No. 30220
Sturdy steel machine stand with black powder coating.



Sliding feed plate
Part No. 30210

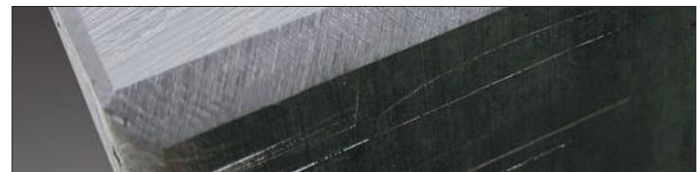


Spare flap discs
The flat disc with special hard compression for deburring machines. Self-sharpening and extremely long service life!

60 Grit Part No. 36060
80 Grit Part No. 36080
120 Grit Part No. 36120



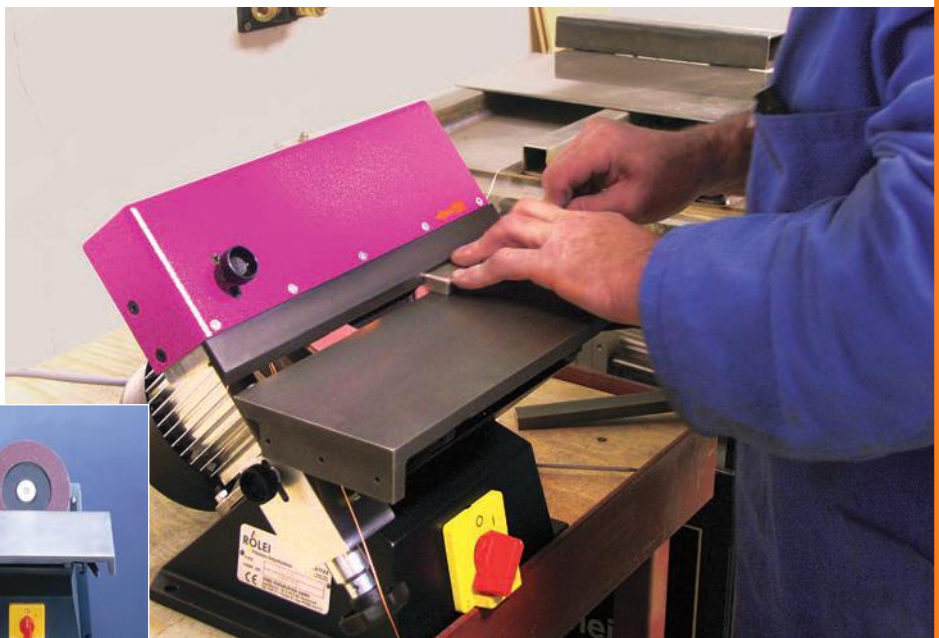
Infinitely adjustable facet angle from 30° to 60°



Scan to Learn More

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.



Scan to Learn More

ROLEI® EF 165
Speed: 2800 RPM



Optional accessories:



Machine stand
Part No. 30120
Sturdy steel machine stand with black powder coating.



Extended support table
Part No. 30110
Made of sliding grey cast material.
27-1/2" long



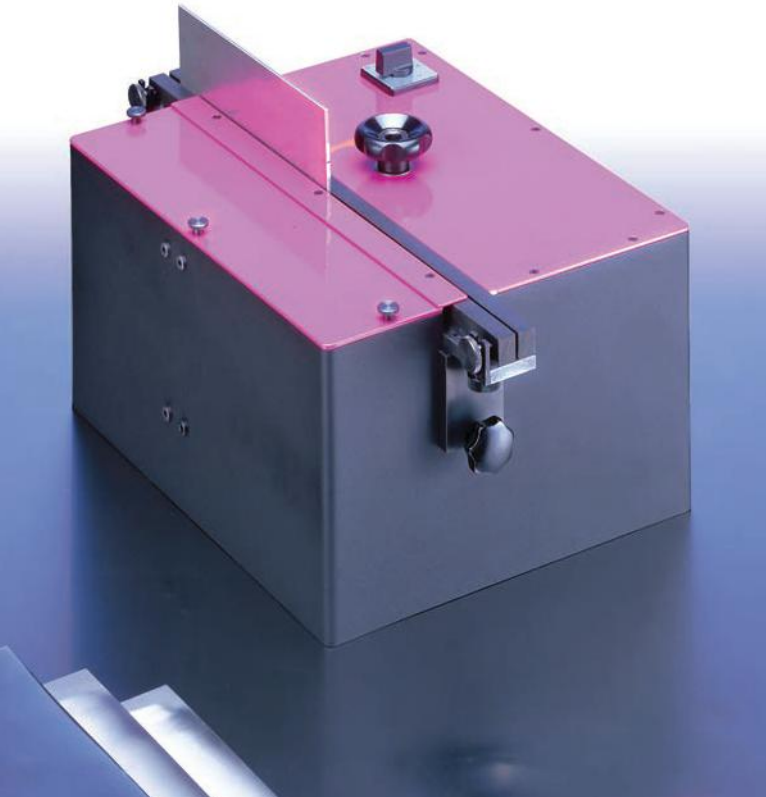
Spare flap discs
The flat disc with special hard compression for deburring machines. Self-sharpening and extremely long service life!

60 Grit Part No. 36060
80 Grit Part No. 36080
120 Grit Part No. 36120

ROLEI® EF 165 Specifications

Order No.	30101 (220 Volt) 30100 (380 Volt)
Motor	220V single-phase or 380V 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

Supplied as standard with 80 grit disc. Other grits can also be used to suit the facet width and materials.



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.



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Features two-speed operation:

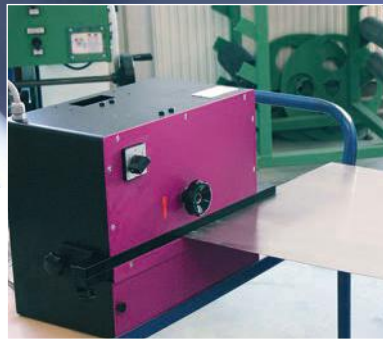
- Speed 1: fine deburring, 600 RPM
- Speed 2: standard deburring, 1200 RPM

Optional accessories:

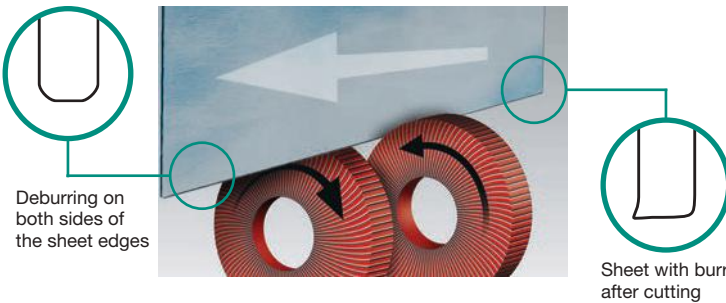
- Spare flap wheels (40, 60, 80, and 120 grit)
- Machine stand, made from strong steel
- Port for industrial dust extractor (Part No. 30330)

ROLEI® BE 5 Specifications

Order No.	30310A (220 Volt) 30310 (380 Volt)
Motor	220V 3-phase, 2 speeds, .2 KW, 0.9 Amp 380V 3-phase, 2 speeds, .2 KW, 0.45 Amp
Dimensions	19.7" x 12.8" x 7.9"
Weight	64 lbs
Options	Machine stand, dust extractor connection port, teflon tape



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



ROLEI® BE 5 Flap Wheels

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



Spare flap wheels for sheet metal deburring machine BE 5
Grit 40, 60, 80, 120



Machine stand - Part No. 30320
Strong steel machine stand with black powder coating



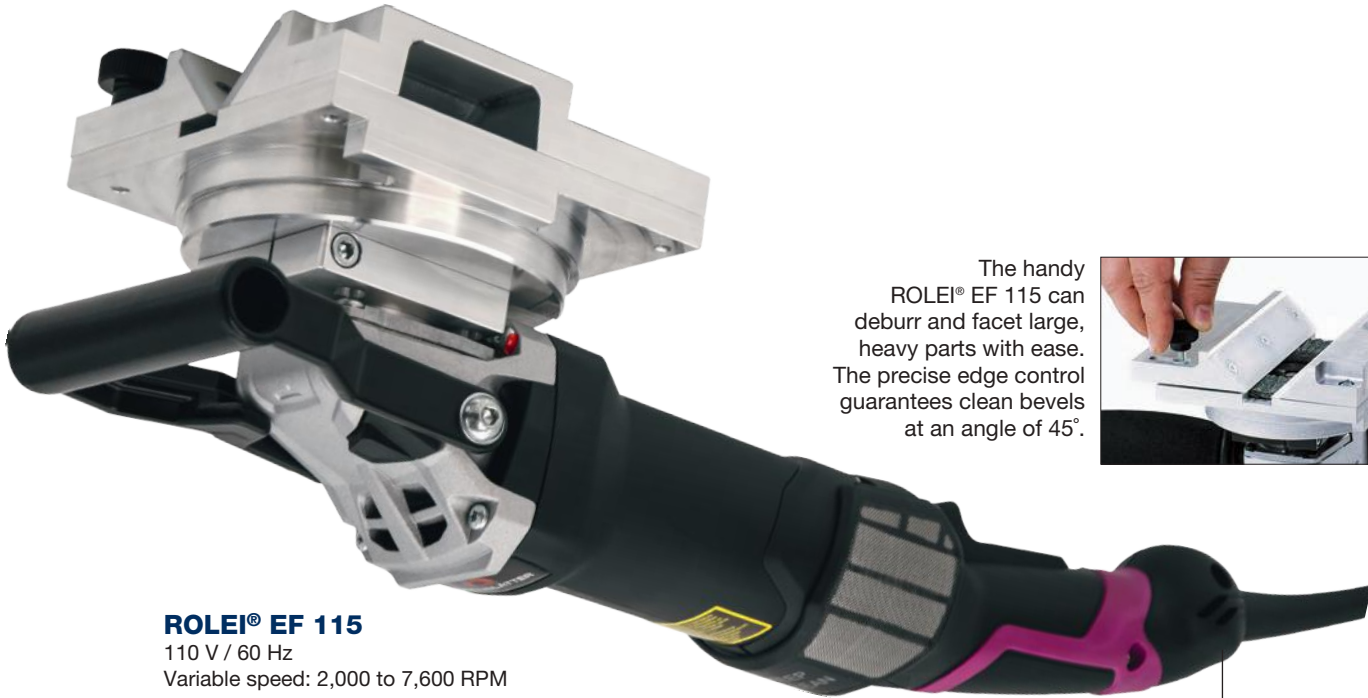
Dust extraction port (end and bottom views shown above)
Part No. 30330



Teflon protective tape – self-adhesive (2 required)
Part No. 30341 (27.5" L x 3/4" W)
For extension rail to protect from scratching the workpiece

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
110 V / 60 Hz
Variable speed: 2,000 to 7,600 RPM

The handy ROLEI® EF 115 can deburr and facet large, heavy parts with ease. The precise edge control guarantees clean bevels at an angle of 45°.



ROLEI® EF 115 Specifications

Order No.	30116
Universal Motor	15 Amp (1710 W) 110/60 Hz (230V / 50 Hz, 1600 W also available)
Speed	Infinitely adjustable from 2000 to 7600 RPM
Weight	9 lbs
Options	Sliding Guide rail, plastic (Part no. 30117, 2-piece set)

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

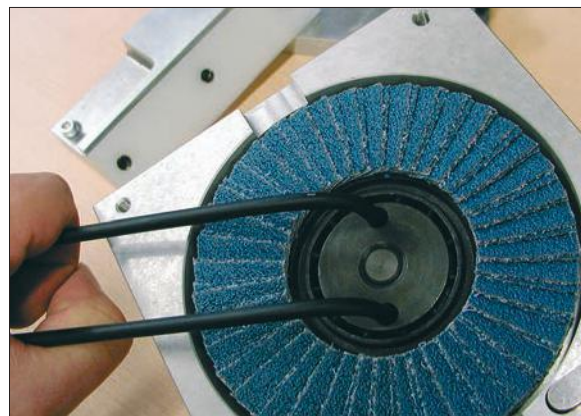


QUICK-LOCK cable for fast, easy replacement, e.g. if the cable is damaged. 13 ft., included. Part No. 52004-2



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Simple disc changing.






Multipurpose Beveling Machines

Bevel, deburr and chamfer edges of steel plate faster and cleaner than angle grinders.

- Bevel 30°, 45°, 2.5mm or 1.6mm 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 Milling Options

30° 	45° 	2.5mm radius 
Milling cutter 30°, Chamfer 0 - 1/4"	Milling cutter 45°, Chamfer 0 - 1/4"	Milling cutter 2.5mm radius (0.098")



0-1/4" beveling width

- 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.



Fine adjustment
Precise control of chamfer when deburring for weld seam preparation

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0-9/16" (15mm) beveling width

- Two Models:
EKF 630 - 30°
EKF 645 - 45°

Standard equipment includes milling head and two inserts, SW22 key, carrying case and user's manual. See our Price List for available accessories.

Specifications	Model EKF 300.3*	Model EKF 450.3*	Model EKF 452.3*	Model EKF 630	Model EKF 645
Beveling Angle	30°	45°	2.5mm (0.098")	30°	45°
Bevel Width (max.)***	1/4"	1/4"	1/4"	9/16"	9/16"
Motor Power	13.5 Amp/110V**			19.1 Amp/110V**	
Cutting Speed	3000 SFPM			1200-1500 SFPM	
Cutting Inserts Qty.	3			20	
Available Inserts (Sold as pack of 10)	SHM200; SHM 200-E (for stainless steel); SHM 202 (2.5mm radius); SHM 201 (1.6mm radius)			SHM 900	
Dimensions	12 1/2" L x 5 1/2" W x 11 5/8" H			15 3/4" L x 13 13/16" W x 11 13/16" H	
Weight	10.5 lbs.			22.5 lbs.	

*Heads are interchangeable *220 V / 50 Hz also available

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

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



Standard equipment includes one milling head, 10 sintered carbide reversible cutting inserts, tools for assembly, built-in pipe roller guide, steel carrying case and user's manual. Please see our Price List for available accessories.

Cutting Plates - Sold as pack of 20
Part No. **SHM 800 N:** for beveling carbon and stainless steel

SKF Portable Beveler Specifications

Order No.	SKF 025
Beveling Width	3/4" max.***
Motor Power	15 Amp
Voltage	110V (220V / 50 Hz also available)
Cutting Speed	1800 SFPM
Cutting Inserts	10
Dimensions	16 1/2" L x 13" H
Weight	43 lbs.

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

EASY ACCESS / SAFETY CONTROLS

ERGONOMIC HANDLES

ROLLER GUIDES FOR ACCURACY & REDUCED USER FATIGUE



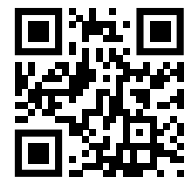
PIPE BEVELING FOR PIPE OVER 6-1/4" OD

EXCEPTIONAL COOLING FOR CONTINUOUS USE

HEAVY-DUTY 10 AMP (1100 w) MOTOR

SEAMLESS ANGLE ADJUSTMENT 15° - 60°

CHAMFER WIDTH ADJUSTMENT UP TO 3/4"



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Portable Saws and Accessories

Saws for Pipes, Structural Steel, Profiles and more p. 112-123

Dry Cutting Circular Saws - Pneumatic & Hydraulic	p. 112-113
Portable Reciprocating Saws and Blades - Pneumatic, Hydraulic	p. 114-115
Portable Band Saws and Blades - Pneumatic, Electric, Hydraulic	p. 116-117
Power Hacksaws and Blades - Pneumatic, Electric, Hydraulic	p. 118-119
Pipe Cutting Machine - Pneumatic, Hydraulic	p. 120-121
Electric Nibblers	p. 122
Hydraulic & Air Tool Accessories	p. 123

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

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

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



1.7 HP
Air Motor

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



Optional Carbide-Tipped 7" (180mm) Dry Cut Saw Blade

P/N 9 2503 0120, 36T, for standard use - dry cuts metal, plastics and wood

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

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 ²
Length, Weight	13-1/2", 14 lbs.

* Model 5 1116 0020 also accepts 7-1/4" dia. blades
Standard equipment includes rip fence and blade wrench. Blade not included.

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

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



ATEX Certified



9" diameter (1" arbor)

- Cut steel, nonferrous metal, plastic, grating, composite and corrugated materials
- Cuts at 90° and 45° angles
- Ideal for petrochemical, marine, demolition and fabrication applications

2 HP Air Motor



9" dia. Dry Cut Air Saw for 90° & 45° Cuts

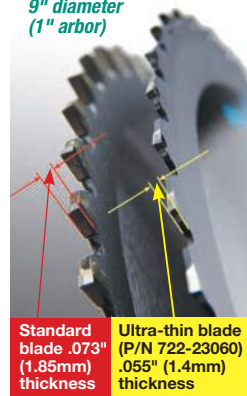
Order No.	5 1115 0020 N
Motor Power	2 HP (1.5 kW)
Blade Diameter	9"
Max. Depth of Cut	3-1/4" at 90° / 2-1/8" at 45°
Speed (Free)	1,500 RPM
Air Consumption	71 CFM at 90 PSI
Air Connection	1/2" NPT
Vibration	<2.5 m/s ²
Weight	19 lbs.

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



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



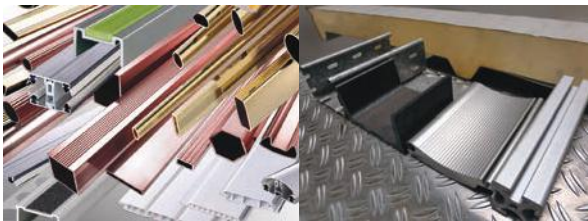
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Dry Cutting Circular Saws – Pneumatic

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
- 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

**4-3/4" max. cutting depth;
Cuts 3/8" thick steel plate**



Scan to
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12-5/8" dia. Dry Cut Air Saw

Order No.	5 1117 0020 N
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 ²
Weight	24 lbs.

Guide Rail Clamping System Available

(P/N 608275 SET) Rail provides straight edge length up to 55" (1,400mm).

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

P/N 608276, 84T
for standard use

P/N 608276SI, 84T
for stainless steel

Dry Cutting Circular Saws – Hydraulic



ATEX Certified

**Up to 4-3/4" depth;
Cut up to 3/8" thick
steel plate**



- Powerful 3.1 HP motor for demanding applications
- Ideal for EX zone, underwater, construction and universal use
- D-handle design with inside trigger and safety lock button to prevent accidental starting
- Up to 45° miter adjustment
- Suction nozzle and internal chip collector for clean operation

7" dia. Dry Cut Air Saw

Order No.	5 1128 0010
Motor Power	3.1 HP (2.3 kW)
Blade Diameter	7" (180mm)
Max. Depth of Cut	2-1/2" at 90° / 1-1/2" at 45°
Speed (Free)	3,200 RPM
Motor Specifications	5.25 GPM at 2000 PSI
Coupling	1/2" FF (HTMA)
Vibration	<2.5 m/s ²
Weight	22.5 lbs.

* Model 5 1128 0020 also accepts 7-1/4" dia. blades
Standard equipment includes rip fence and blade
wrench. Blade not included.

12-5/8" dia. Dry Cut Air Saw

Order No.	5 1127 0010
Motor Power	3.1 HP (2.3 kW)
Blade Diameter	12-5/8"
Max. Depth of Cut	4-3/4"
Speed (Free)	1,800 RPM
Motor specifications	5.25 - 6 GPM at 2000 PSI
Couplings	1/2" FF (HTMA)
Vibration	<2.5 m/s ²
Weight	27 lbs.

608276 12-5/8" Dry cutting saw blade included
Available: 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



Scan to Learn More

CHEETAH Model 5 1217 0020

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



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.



FOX Model 5 1219 0010

12 Amp, 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.)
CHEETAH – Pneumatic						
5 1217 0020	1.7 HP, 51 CFM @ 90 PSI	1-1/8"	0-2300	1/2" NPT (ID)	18.5"	9.9
SHARK – Hydraulic						
5 1219 0010	2 HP, Oil Pressure 2000 PSI, Oil Flow 6 GPM (up to 13 GPM)	1-1/8"	1500	M 18 x 1.5 Female	18"	13.2
FOX - Electric						
5 6002 6000 5 6002 7000 5 6002 0000	12 Amp, 110V (220V Available)	1-1/8"	0-2200	Standard 15A Plug US	19"	6

For the models above, pipe clamp Model 5 1217 9910 available for use up to 6" pipe, contact a CS Unitec specialist for details.

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

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 cutting speed
- Heavy-duty cast steel and aluminum saw bodies; built-in motor lubrication
- Safety STOP/Isolator button disconnects air supply



For use in hazardous areas and around gas and other flammable materials



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

Optional inside trigger for handheld use only, add FT to Model # ex: PL905FT Pipe clamps available, contact CS Unitec for details.

Reciprocating Saw Blades & Accessories

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

Saw Blades for Quick Connect Blade Holders & Allen Style Blade Holders

Mega Sharp M-Tooth Saw Blades for Freehand Cutting, Single Tang

CUTS 2x FASTER THAN ORDINARY BLADES! M42 Bi-metal for cutting steel and stainless steel
 Universal 1/2" single tang for easy mounting to quick change and allen blade holders.
 The teeth of the patented M-Tooth saw blade 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

* 007D/200 extra thick for heavier-duty cutting

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
No. 007D/280*	M-Tooth	8" L x 1" W x .5" T

General-Purpose Blades, Single Tang

General Purpose Blades – These bi-metal saw blades are made to meet demanding cutting applications in metal and more!
 Universal 1/2" single tang for easy mounting to quick change and allen blade holders.

Metal 1/8" and Thicker

No. 3013/150	14 TPI	6" L x 3/4" W x .035" T
No. 3013/200	14 TPI	8" L x 3/4" W x .035" T
No. 3018/280	10 TPI	12" L x 3/4" W x .035" T

Metal up to 1/8" Thick

No. 3014/150	18 TPI	6" L x 3/4" W x .035" T
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Metal up to 1/8" Thick (For Curved Cuts)

No. 3017/90	18 TPI	6" L x 3/4" W x .035" T
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Cast Steel, Ductile Iron, Ceramics & Fiberglass

No. D12/200	Tungsten Carbide	6" L x 3/4" W x .035" T
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Plastic, Wood, Plasterboard

No. 3021/150	6 TPI	6" L x 3/4" W x .035" T
No. 3021/225	6 TPI	8" L x 3/4" W x .035" T
No. 3021/300	6 TPI	12" L x 3/4" W x .035" T

All Woods w/ Embedded Nails

No. 810C/150	8/10 TPI	6" L x 3/4" W x .035" T
No. 810C/225	8/10 TPI	9" L x 3/4" W x .035" T

Saw Blades for Allen Style Blade Holders

Extra-Thick Blades, Dual Tang*

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" single tang



Ask for special blades to cut steel.

Heavy-Duty HSS Bi-metal Blades, Dual Tang

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

Air Saw Blades for PL905, CL50, CL75

1/2" Wide Bi-metal Blades (CL50 / PL905) 3/4" Wide Bi-metal Blades (CL75)

HB300/18	Hand	18 TPI	12" L	MB150/18	Machine	18 TPI	6" L
HB300/24	Hand	24 TPI	12" L	MB200/10-14	Machine	10/14 TPI	8" L
HB300/32	Hand	32 TPI	12" L	MB200/18	Machine	18 TPI	8" L
MC220/18	Machine	18 TPI	8 ^{3/4} " L	MB200/24	Machine	24 TPI	8" L
MC220/24	Machine	24 TPI	8 ^{3/4} " L	MB250/18	Machine	18 TPI	10" L
MYN150/18	Notched Yellow	18 TPI	6" L	MB250/24	Machine	24 TPI	10" L
MYT150/18	Tapered Yellow	18 TPI	6" L	MB300/10-14	Machine	10/14 TPI	12" L
				MB300/18	Machine	18 TPI	12" L



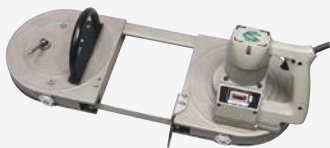
Portable Band Saws Electric • Air • Hydraulic

Fast, on-site cutting of pipe up to 8" diameter

Cold cutting saws for industry, including refineries, chemical plants, utilities, construction, offshore oil, mining, marine and demolition



Electric Band Saws



Deep Throat™:
Cut 7" round or 7" x 7"

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

- 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
- Vise clamps available for straight cutting of round, square and angular materials



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Pneumatic AirBand™ Saws



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



ATEX Certified

BELOW MODELS ONLY



5 6093 0010:
Cut 4" round or 4" x 4"

Includes stationary cutting table and vise



Deep Throat™:
Cut 7" round or 7" x 7"

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

Hydraulic Band Saws



ATEX Certified



Standard:
Cut 4" round or 4" x 4"

Deep Throat™:
Cut 7" round or 7" x 7"

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

Electric Band Saws

6 Amp, 220VAC

Model No.	Cutting Capacity	Blade Speed (ft/sec)	Overall Length	Wt. (lbs.)
Deep Throat™ – Stainless Steel housing				
5 6078 0010-220	7" OD / 7" x 7"	5.5-6.8*	29"	31
Wide Mouth™ – Stainless Steel housing				
5 6079 0010-220	7" OD 7" x 9 1/2"	5.6-6.8*	31 1/2"	32

*variable speed.

Pneumatic Band Saws

Model No.	Cutting Capacity	Motor Power (90 PSI)	Blade Speed (ft/sec)	Overall Length	Wt. (lbs.)
Standard AirBand™ – Aluminum Housing; 1/4" NPT ID Air Connection; 3/8" Air Hose					
5 6003 0011	4 3/4" OD / 4 1/2" x 4 3/4"	20 CFM	2.2-3.3*	21 1/2"	14
5 6093 0010	4" OD / 4" x 4"	19 CFM	5.75	25"	17*
Deep Throat™ AirBand – Stainless Steel housing; 1/2" NPT ID Air Connection; 1/2" Air Hose					
5 6031 0010 N	7" OD / 7" x 7"	43 CFM	4.0-4.9*	28 3/4"	28
Wide Mouth™ AirBand – Stainless Steel housing; 1/2" NPT ID Air Connection; 1/2" Air Hose					
5 6062 0010	7" OD / 7" x 9 1/4"	43 CFM	4.0-4.9*	31"	35

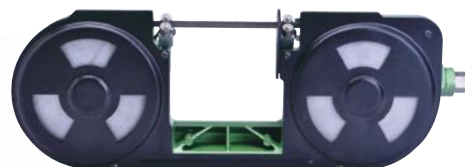
5 6093 0010 model weight is only of the saw, weight is 48 lbs with stationary cutting table and vise.

Hydraulic Band Saws

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

Model No.	Cutting Capacity	Blade Speed (ft/sec)	Overall Length	Wt. (lbs.)
Standard – Stainless Steel housing				
5 6043 0010	4" OD / 4" x 4"	4.2	22"	23
Deep Throat™ – Stainless Steel housing				
5 6041 0010	7" OD / 7" x 7"	4.2	28 3/4"	30
Wide Mouth™ – Stainless Steel housing				
5 6054 0010	7" OD / 7" x 9 1/2"	4.2	33"	36

**Optional blade guards available
for CS Unitec Band Saws
P/N 1 1022 0196**



Portable Band Saw Blades and Accessories

M42 Cobalt Steel SuperBand™ Saw Blades

Blades for Models 5 6093 0010 (3/pk.)

Exact blade dimensions: 1335mm L x 13mm W x .65mm T

No. 9 2506 0690	24 TPI	Cuts material 1/8" - 1/4" thick
No. 9 2506 0680	18 TPI	Cuts material 3/16" - 1/2" thick
No. 9 2506 0660	10/14 TPI*	Cuts material 3/16" - 1/2" thick
No. 9 2506 0650	8/12 TPI*	Cuts material 1/2" and thicker



Blades for Model 5 6003 0011 and 5 6043 0010 (per pc.)

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



Deep Throat™ Blades (Models 5 6031 0010, 5 6078 0010-220 and 5 6041 0010) (per pc.)

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



Wide Mouth™ Blades (Model Nos. 5 6062 0010, 5 6079 0020-220 and 5 6054 0010) (per pc.)

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
- Easily attach to CS Unitec Portable Band Saws

Clamp-on vise for 4-3/4" Band Saws

Model No. 5 6030 9000

(for saw 5 6043 0010)

Max. material size – rounds: 4 3/4"; squares: 4 1/2"; angles: 4 1/2"

Clamp-on vise for 7" Deep Throat™ Band Saws

Model No. 5 6031 9400

(for saw 5 6031 0010, 5 6078 0010-220 and 5 6041 0010)

Max. material size – rounds: 7"; squares: 5"; angles: 5"



Power Hacksaws Air • Electric • Hydraulic



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

Model 5 1212 0050

AIR



ATEX Certified

Model 5 1215 0070

ELECTRIC



Model 5 1220 0050

HYDRAULIC



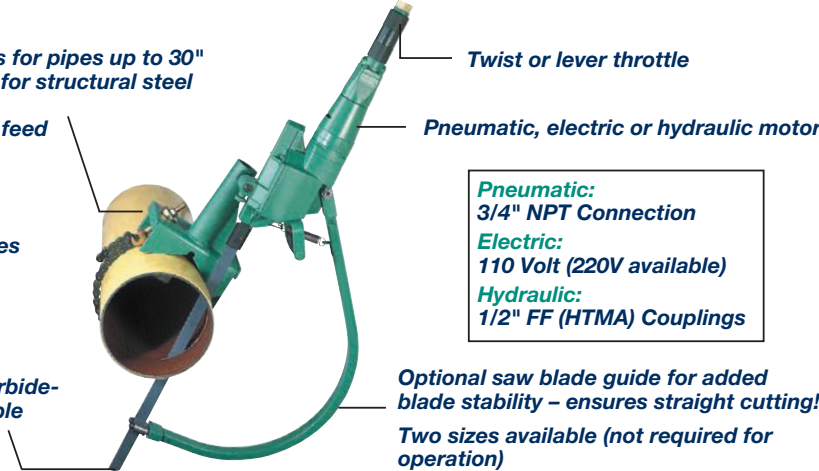
Model No.	Power	Throttle	Motor Specifications (90 PSI)	Strokes per Min.	Blade Stroke	Hose	Wt. (lbs.)
Pneumatic – 3/4" ID NPT Air Connection							
5 1212 0010	1.5 HP	Roll	Air Consumption: 51 CFM	100-350	2 ³ / ₈ "	1/2"	16.5
5 1212 0050	1.5 HP	Lever		100-350	2 ³ / ₈ "	1/2"	16.5
5 1212 0050A	1.5 HP	Lever		II2GExhIIBT5Gb	100-350	2 ³ / ₈ "	1/2"
Electric – 11 Amps / 110 Volt (Also available as 220 Volt/50 Hz)							
5 1215 0070	1.5 HP	Trigger	110V/60 Hz	60-500	2 ³ / ₈ "	Cable	16.5
Hydraulic – 1/2" FF (HTMA) Couplings							
5 1230 0050	3.8 HP	Lever	Oil Flow: 4 GPM at 2000 PSI	100-500	2 ³ / ₈ "	1/2" ID	24.2

Assorted pipe clamps for pipes up to 30" OD or profile clamps for structural steel

Manual or automatic feed

Heavy-duty saw blades from 8" to 37" long

HSS, HSS-SL, and carbide-coated blades available



Metal carrying case available P/N 9 9910 0080

Throttle Types for Pneumatic Saws:



Roll Throttle
(air model 5 1212 0010)
used only with automatic feed clamps

Lever Throttle
(model 5 1212 0050)
on/off for manual clamps

Hacksaw Clamps and Blade Guides

Model No.	Cutting Diameter	Description
5 1207 9910	2" to 6"	Pipe Clamp
5 1202 9960	4" to 12 ³ / ₄ "*	Pipe Clamp
5 1207 9970	Up to 13" OD	Blade Guide
5 1207 8910	Up to 21" OD	Blade Guide
5 1202 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 12³/₄" dia.*



Model 5 1208 9980 Self-feeding Pipe Clamp for up to 12³/₄" dia. pneumatic saws*



Model 5 1208 9990 Self-feeding Pipe Clamp for up to 12³/₄" dia. electric and hydraulic saws*

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

NEW! FAST CUT Hacksaw Blades

UP TO 60% FASTER THAN STANDARD BLADES!

Order No.	Length	Teeth/Inch	Thickness	Material	Max. Dia. of Cut
Z23-33 HSS	18"	6-8	5/64"	Cast Iron, Aluminum, Plastic	12 ³ / ₄ "
Z23-33 HSS-SL*	18"	6-8	5/64"	Cast Iron, Aluminum, Plastic	12 ³ / ₄ "
Z23-29 HSS	18"	8	5/64"	Cast Iron, Aluminum, Plastic	12 ³ / ₄ "
Z23-29 HSS-SL*	18"	8	5/64"	Cast Iron, Aluminum, Plastic	12 ³ / ₄ "
Z23-7 HSS	18"	14	5/64"	Steel	12 ³ / ₄ "
Z23-7 HSS-SL*	18"	14	5/64"	Stainless Steel	12 ³ / ₄ "
Z23-72 HSS	22"	6-8	5/64"	Cast Iron, Aluminum, Plastic	16 ³ / ₄ "
Z23-72 HSS-SL*	22"	6-8	5/64"	Cast Iron, Aluminum, Plastic	16 ³ / ₄ "
Z23-30 HSS	22"	8	5/64"	Cast Iron, Aluminum, Plastic	16 ³ / ₄ "
Z23-30 HSS-SL*	22"	8	5/64"	Cast Iron, Aluminum, Plastic	16 ³ / ₄ "
Z23-73 HSS	22"	14	5/64"	Steel	16 ³ / ₄ "
Z23-73 HSS-SL*	22"	14	5/64"	Stainless Steel	16 ³ / ₄ "
Z23-45 HSS	26"	6-8	5/64"	Cast Iron, Aluminum, Plastic	20 ³ / ₄ "
Z23-45 HSS-SL*	26"	6-8	5/64"	Cast Iron, Aluminum, Plastic	20 ³ / ₄ "
Z23-74 HSS	26"	8	5/64"	Cast Iron, Aluminum, Plastic	20 ³ / ₄ "
Z23-74 HSS-SL*	26"	8	5/64"	Cast Iron, Aluminum, Plastic	20 ³ / ₄ "
Z23-79 HSS	26"	14	5/64"	Steel	20 ³ / ₄ "
Z23-79 HSS-SL*	26"	14	5/64"	Stainless Steel	20 ³ / ₄ "
Z23-76 HSS	30"	6-8	5/64"	Cast Iron, Aluminum, Plastic	24 ³ / ₄ "
Z23-76 HSS-SL*	30"	6-8	5/64"	Cast Iron, Aluminum, Plastic	24 ³ / ₄ "
Z23-78 HSS	30"	8	5/64"	Cast Iron, Aluminum, Plastic	24 ³ / ₄ "
Z23-78 HSS-SL*	30"	8	5/64"	Cast Iron, Aluminum, Plastic	24 ³ / ₄ "
Z23-75 HSS	30"	14	5/64"	Steel	24 ³ / ₄ "
Z23-75 HSS-SL*	30"	14	5/64"	Stainless Steel	24 ³ / ₄ "
Z23-37 HSS	37"	14	5/64"	Steel	31 ³ / ₄ "
Z23-37 HSS-SL*	37"	14	5/64"	Stainless Steel	31 ³ / ₄ "

Heavy Duty Hacksaw Blades

Order No.	Length	Teeth/Inch	Thickness	Material	Max. Dia. of Cut
Z22-9 HSS	8"	8	1/16"	Steel/Aluminum	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/Aluminum	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/Aluminum	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 "

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

Pipe Cutting Machines Air • Hydraulic



ATEX Certified

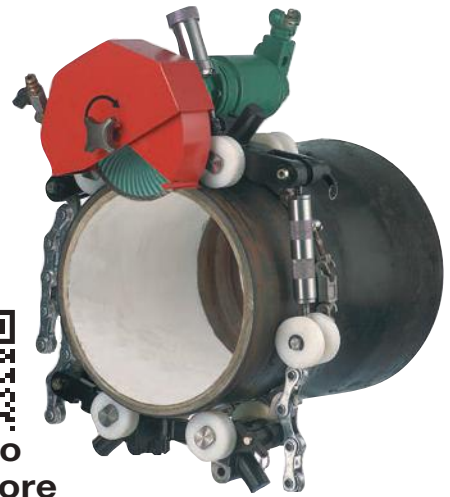
Cut pipe up to 63" dia. with wall thickness up to 2"

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

- Heavy-duty, versatile air and hydraulic pipe cutting machines
- Cut pipe quickly from 6" to 63" dia. with wall thicknesses from 1/4" to 2"
- Use on steel, ductile iron, nonferrous metal, HDPE, plastic, concrete pipe and more
- Cut pipe underground with minimal excavation
- 7" blade with adjustable cutting depth and fully enclosed blade guard
- Machine is manually guided with hand lever feed to make a 360° cut in pipe at 90 degrees
- Guide chain is adjustable by adding and removing chain links
- ATEX certified for use in Ex Zones (ATEX II 2G Ex h IIB T6 Gb)



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PIPE CUTTING MACHINES



*Pneumatic Model
No. 5 8010 0050*

- Features include:**
- Fast cutting of pipe
 - Adjustable cutting depth
 - Fully enclosed blade guard
 - Cooling water connection
 - Carbide-tipped or diamond-coated blades



*Hydraulic Model
No. 5 8006 7000*

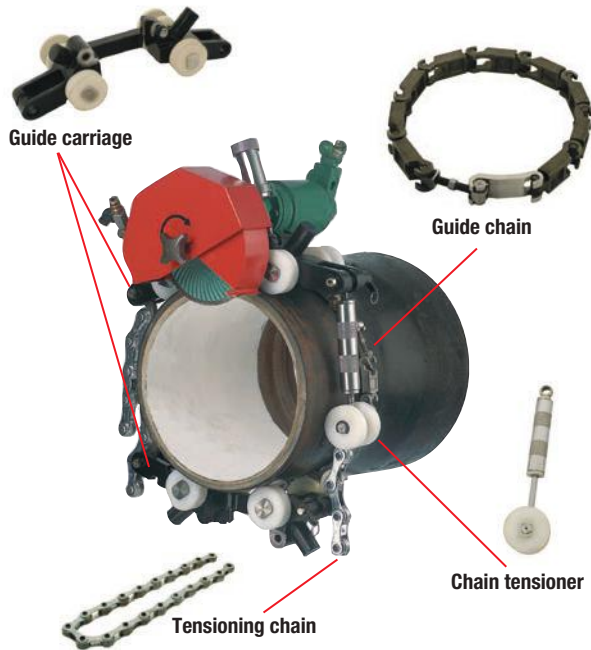
When ordering, specify pipe diameter and application for assistance with determining required blade, feed handle, guide carriage & chain and tensioning chain & tensioner.

Model Number	Power	Blade Arbor	Motor Specifications	Speed (RPM)	Blade Dia.	Hose Connection	Weight (lbs.)
Pneumatic Motor							
5 8002 7000	2.4 HP	7/8"	77 CFM @ 90 PSI	350/1800	7"	1/2" NPT	28
5 8010 0050	3.4 HP	7/8"	106 CFM @ 90 PSI	1800	7"	3/4" NPT	28
Hydraulic Motor							
5 8006 7000	3 HP	7/8"	6-13 Gallons @ 2000 PSI	350/1800	7"	1/2" FF (HTMA)	28

Pipe Cutting Machine

Pipe Cutting Machine Kits		
For Pipe Diameters	Pneumatic Kit Part No.	Hydraulic Kit Part No.
6" to 16" (150-400mm)	5 8010 16PK	5 8006 16HK
6" to 32" (150-800mm)	5 8010 32PK	5 8006 32HK
6" to 63" (150-1600mm)	5 8010 63PK	5 8006 63HK

For a list of contents included with hydraulic kits, visit our website at: www.csunitec.com/saws/pipe-cutting-machines



Pneumatic Kits



Select Appropriate Kit Based on Pipe Diameter
For cutting pipe with diameter greater than 63", please contact CS Unitec for help identifying necessary components.

6" to 16" (150-400mm)	6" to 32" (150-800mm)	6" to 63" (150-1600mm)
Kit 5 8010 16PK	Kit 5 8010 32PK	Kit 5 8010 63PK
(1) Drive Unit P/N 5 8010 0050	(1) Drive Unit P/N 5 8010 0050	(1) Drive Unit P/N 5 8010 0050
(1) Guide Carriage, small P/N 5 8010 8090	(1) Guide Carriage, small P/N 5 8010 8090	(2) Guide Carriage, small P/N 5 8010 8090
(1) Chain Tensioner, small PN 5 8003 8300	(1) Chain Tensioner, small PN 5 8003 8300	(1) Chain Tensioner, small PN 5 8003 8300
(1) Guide Chain, 16" OD (24 chain links) P/N 5 8002 8760	(1) Guide Carriage, large P/N 5 8010 8100	(2) Guide Carriage, large P/N 5 8010 8100
(1) 7" Dia. Carbide-tipped blade P/N 9 2503 0120	(1) Chain Tensioner, large P/N 5 8002 8400	(2) Chain Tensioner, large P/N 5 8002 8400
(1) 7" Dia. Diamond blade P/N 9 2503 0100	(1) Tensioning Chain P/N 5 8002 8710	(2) Tensioning Chain P/N 5 8002 8710
(1) Tool Kit P/N 5 8002 9200	(1) Guide Chain, 32" OD (46 chain links) P/N 5 8002 8780	(1) Guide Chain, 63" OD (90 chain links) P/N 5 8002 8830
(1) Steel Transport Box P/N 5 8002 9300	(1) 7" Dia. Carbide-tipped blade P/N 9 2503 0120	(1) 7" Dia. Carbide-tipped blade P/N 9 2503 0120
	(1) 7" Dia. Diamond blade P/N 9 2503 0100	(1) 7" Dia. Diamond blade P/N 9 2503 0100
	(1) Tool Kit P/N 5 8002 9200	(1) Tool Kit P/N 5 8002 9200
	(1) Steel Transport Box P/N 5 8002 9300	(1) Steel Transport Box P/N 5 8002 9300

Guide Chain

All guide chains include tightener

Part No.	Description
5 8002 8760	24 chain links
5 8002 8770	35 chain links
5 8002 8780	46 chain links
5 8002 8810	57 chain links
5 8002 8790	68 chain links
5 8002 8820	79 chain links
5 8002 8830	90 chain links

	Chain Link Part No. 5 8001 8750 (Length: 2-1/4")
	Chain Link Set (5 connected links) Part No. 5 8001 8860 (Length: 11-1/4")
	Tightener – Part No. 5 8002 6800

Tensioning Chain

Small Chain Tensioner
Part No. 5 8003 8300



Large Chain Tensioner
Part No. 5 8002 8400



Tensioning Chain
Length: 37-3/8" (950mm)
Part No. 5 8002 8710



Guide Carriages



Small Guide Carriage – Part No. 5 8010 8090

Large Guide Carriage – Part No. 5 8010 8100

Feeding Pipe – Part No. 5 8002 9500

7" Saw Blades – for 2" max. cutting depth

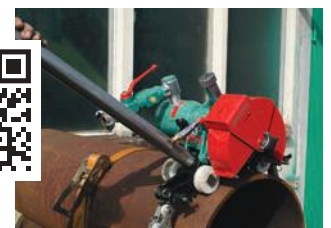


Carbide-Tipped Blade
Part No. 9 2503 0120
For steel, stainless steel (min. 1/4" wall thickness), plastics, HDPE and PVC
6-1/4" also available for 6" OD pipe cutting
P/N 9 2503 0090



Diamond Blade
Part No. 9 2503 0100
For cast iron, ductile iron, cement, concrete and clay
6" also available for 6" OD pipe cutting
P/N 9 2503 0050

View a demonstration of our versatile pipe cutting machine:



Nibblers

Cut Steel Up To 3/8" Thick

- Fast cutting without feed force, distortion or sparks.
- Reduced fatigue and ergonomic fitment
- Easily rotate the direction of cut up to 360°
- Clear view of the work surface
- Heavy-duty punches for cutting steel and more!
- Cut over 90 degree bends with optional die accessory
- Two speed models available for faster cutting!

Ideal for wide range of applications from cutting sheet metal, steel plate, weldments, I-beam, tanks, double sheets & more



Model Number	Power	RPM	Working Speed (ft/Min)	Start Hole Dia.	Min. Radius	Max Material Thickness Steel / Stainlss / Aluminum	Weight (lbs.)
CS-350-E	12 Amp,	0-650	4	1.25"	0.28"	0.135" / 0.09" / 0.135"	7.5
CS-500-E	12 Amp, 110 V	0-600	4.5	1.25"	3.125"	0.197" / 0.135" / 0.276"	8.5
CS-700-E	17 Amp, 110 V	400	5	2.75"	5.5"	0.276" / 0.197" / 0.394"	26
CS-3400-E	17 Amp, 110 V	230/370	5.2	3"	16"	0.375" / 0.276" / 0.5"	32

Air Tool Accessories

Dryers/Cleaner & Filters



Model CSAP-2

- Removes moisture and dirt from air lines; a float valve automatically ejects water and dirt
- Includes automatic oiler
- Connections for two tools, max. air flow 185 CFM



Model 9 2406 0650

- Removes moisture and dirt from air lines
- Adjustable air pressure 0-140 PSI, maintains constant downstream pressure
- Maximum air volume 125 CFM

Lubricants & Conditioners



- 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 9109 (quart)

Whip Hoses

Model Number	Tool Fitting	Integral Swivel Fitting (MPT)	Hose Connection
14HW-HYD	CP/ Chicago Style Fittings	0-650	1/2" ID x 6'
38HW-HYD		0-600	
12HW-HYD		400	



Whip Checks

- P/N CS-WHIPCHECK1 - For 1/2" to 1-1/4" OD
- P/N CS-WHIPCHECK2 - For 1-1/2" to 3" OD



Whip Hoses with Inline Oilers

Model Number	Tool Fitting	Lubricator Connection	Hose Connection
CS-1HW-HDS	1/4"	O-R w/ CP (Chicago Style Fitting)	1/2" ID x 6'
CS-2HW-HDS	3/8"		
CS-3HW-HDS	1/2"		
CS-4HW-0.500-HDS*	1/2"		



For Air & Hydraulic Hose Needs, Please Contact a CS Unitec Specialist

Hydraulic Tool Accessories

Hydraulic Power Units

- 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
- Weighs 330 lbs.
- 18 HP gas engine



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

Model Number	GPM (LPM)	Output Pressure (PSI)
Gas: P95 Electric 3PH: P95E	5 - 8 (19 - 30)	2000
Gas: CSM300-23G-HPP	8-14 (30 - 53)	2500

Pressure reducers also available:
CS 70350 for reducing earth moving equipment 5000 psi to 2000 psi, 2 2406 9900 reduces 5075 psi to 1160 psi
2 2406 9700 reduces 2000 psi to 1160 psi

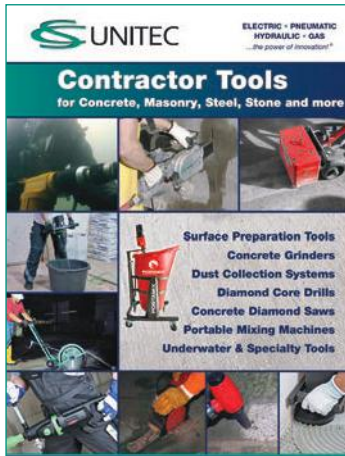
Also Available from CS Unitec

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

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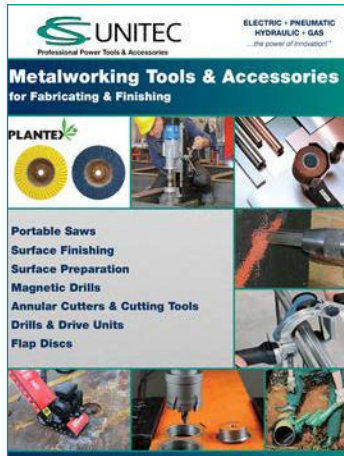
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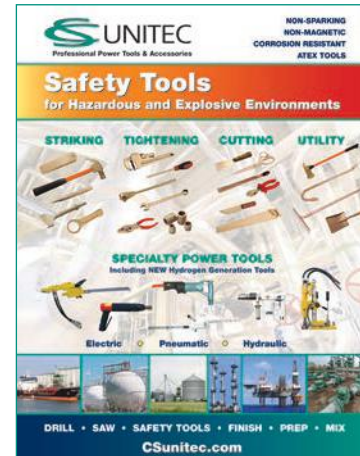
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