

SUNITEC

ELECTRIC • PNEUMATIC • HYDRAULIC



**Hole Cutting • Twist Drilling
Tapping • Reaming**



**Magnetic Drills
Annular Cutters
Hand-held Drills
Drive Units
Nut Runners
Beveling Machines**

Portable Magnetic Drilling Machines

PORTABLE MAGNETIC DRILLS

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



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 5-1/8" 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 drill stroke in the industry
- Variable-speed, multiple-g geared models
- Electric, pneumatic and hydraulic power
- Reversible motors for tapping
- Swivel base stand for hard-to-reach areas
- Battery-operated for on-site cordless drilling



Rugged construction and sophisticated functionality.



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

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.



Twist Drilling



Tapping



Reaming



Countersinking

ARMOR-PLATED™ TiAlN Cutters

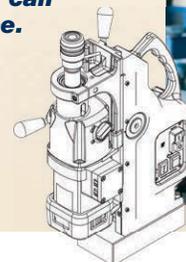
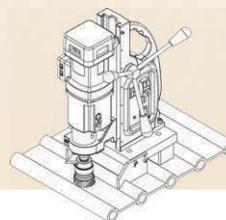
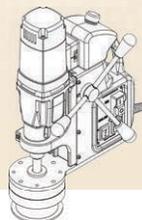
are ideal for all drilling applications. A high surface hardness and greater lubricity allow for drilling at high operating temperatures with more power and speed.



Custom machines for unique applications

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

See page 61 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

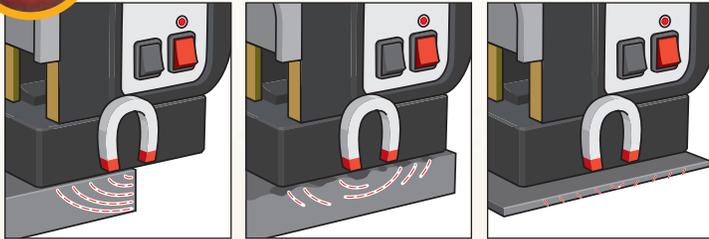
SafeMag System

Electronic Safety Shutoff Sensor

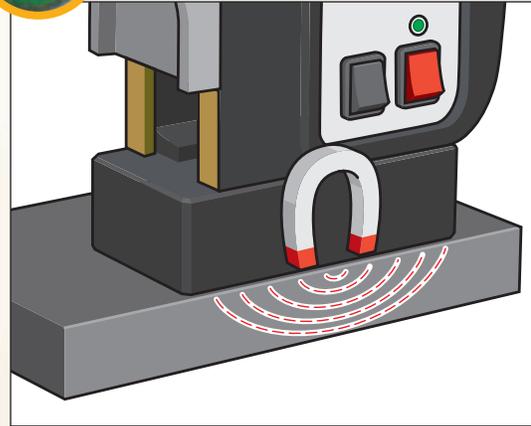
The **SAFEMAG™ System** measures whether the magnet has sufficient adhesive force on the material. An LED indicator on the switch panel warns you of insufficient magnetic force (**Red Light**) or tells you if the correct force is present (**Green Light**).



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.

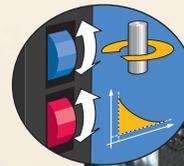
Integrated cable routing: MAB Series

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



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MABasic Series p. 8-11
Capacity: \varnothing 1-3/8" to 3-1/16" cutter
Professional grade, versatile



MAB 155 p. 12
Capacity: \varnothing 1-1/2" cutter
For drilling in tight spaces



MAB 465 p. 14
Capacity: \varnothing 1-5/8" cutter; \varnothing 5/8" twist drill
Reversible, 2-gear motor



MAB 455 & MAB 455 SB p. 16
Capacity: \varnothing 2-1/16" cutter; \varnothing 7/8" twist drill
Swivel base (MAB 455 SB)
2 speeds



MAB 485 & MAB 485 SB p. 18
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. 20
Capacity: \varnothing 2-1/2" cutter; \varnothing 1" twist drill;
 \varnothing 15/16" tapping
Reversible, 2-gear motor
Swivel base (MAB 525 SB)



AutoMAB 350 & AutoMAB 450 p. 22
Capacity: \varnothing 1-1/2" to \varnothing 1-3/4" cutter
Automatic feed – forward and reverse



MAB 825 KTS p. 23
Capacity: \varnothing 3-1/8" cutter; \varnothing 1-1/4" twist drill;
 \varnothing 1-3/16" tapping
Multi-axis positioning for boring, slotting, etc.
Reversible, 4-gear motor



MAB 825, MAB 825 V & MAB 845 p. 24
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)
Reversible, 4-gear motor



MAB 1300 & MAB 1300 V p. 26-28
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



CSU Series p. 30-32
Capacity: \varnothing 1-1/4" to 4" cutter
Reversible for tapping



AIRBOR™ AB-4300 p. 33
Pneumatic power
Capacity: \varnothing 2-1/16" cutter; \varnothing 1/2" twist drill
ATEX for hazardous environments



Model 2 1345 0010 p. 34
Hydraulic power
Capacity: \varnothing 4" cutter; \varnothing 1-1/4" twist drill
Reversible for tapping
ATEX classified



HB 4400 p. 35
Hydraulic power
Capacity: \varnothing 2-1/16" cutter;
 \varnothing 1/2" twist drill
For marine, construction
and underwater applications

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.

Annular Cutters p. 36-46



HSS Unibroach® p. 38-39

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



TiAlN Carbide-Coated Unibroach™ p. 40-41

For higher working temperatures
7/16" to 5-1/8" diameter
1", 2" and 3" depth



TCT Hornet p. 42-43

Tungsten carbide-tipped
1/2" to 5-1/8" diameter
1", 2-3/8" and 3-3/8" depth
Special sizes available



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MOBIL CLAMP p. 51

Convert magnetic drilling machine to bench drill

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Convert hand drill to drill press

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For channeled plates and smooth surfaces

Metal Chip Cleanup Tools p. 52

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Safe, secure drilling of pipes and tubular material

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Magnetic Drill Comparison Chart

PORTABLE MAGNETIC DRILLS



	MABasic 200	MABasic 400	MABasic 450	MABasic 850	MAB 155	MAB 465	MAB 455 MAB 455 SB	MAB 485 MAB 485 SB	MAB 525 MAB 525 SB
	Page 8	Page 9	Page 10	Page 11	Page 12	Page 14	Page 16	Page 18	Page 20
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"	up to ø 1-1/2"	up to ø 1-5/8"	up to ø 2-1/16"	up to ø 2-1/16"	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 5/8"	up to ø 7/8"	up to ø 7/8"	up to ø 1"
Tapping Diameter (ø)						up to ø 5/8"		up to ø 15/16"	up to ø 15/16"
Countersinking Diameter (ø)						up to ø 1-1/2"		up to ø 1-5/8"	up to ø 2"
Reaming Diameter (ø)							up to ø 7/8"	up to ø 7/8"	up to ø 7/8"
Stroke	6-1/3"	6-1/3"	6-1/3"	10"	1-1/2"	6-1/3"	6-1/3"	6-1/3"	6-1/3"
Weight	27 lbs.	27 lbs.	29 lbs.	53 lbs.	24 lbs.	29 lbs.	29 lbs.	29 lbs.	35 lbs.
Speed Range 1 (RPM)	450	430	250	110	460	50-250	250	50-250	70-280
Speed Range 2 (RPM)		760	450	175		100-450	450	100-450	180-580
Speed Range 3 (RPM)				245					
Speed Range 4 (RPM)				385					
 REVERSIBLE						✓		✓	✓
 CoolMag						✓		✓	✓
 SafeMag System						✓	✓	✓	✓
 Electronic Safety Shutoff Sensor	✓	✓	✓		✓	✓	✓	✓	✓
Tool Holder	Set Screw	Set Screw	Set Screw	Set Screw	Set Screw	Set Screw	Quick-change keyless	Quick-change keyless	Quick-change keyless
Morse Taper (MT)			MT2				MT2	MT2	MT3
Safety Friction Clutch									
Torque Control									✓
Swivel/Adjustable Base							✓	✓	✓
Magnet Size	6-5/8" x 3-1/3"	6-5/8" x 3-1/3"	6-5/8" x 3-1/3"	8-5/8" x 4-1/3"	6-5/16" x 3-3/16"	6-5/8" x 3-1/3"	6-5/8" x 3-1/3"	6-5/8" x 3-1/3"	7-1/8" x 3-1/2"



AutoMAB 350 / AutoMAB 450	MAB 825 KTS	MAB 825 V MAB 845	MAB 1300 MAB 1300 V	AIRBOR™	Model 2 1345 0010	HB 4400	CSU 32RL	CSU 50AC CSU 50RL	CSU 100/3RL	<i>Special Features</i>
<i>Page 22</i>	<i>Page 23</i>	<i>Page 24</i>	<i>Page 26</i>	<i>Page 33</i>	<i>Page 34</i>	<i>Page 35</i>	<i>Page 30</i>	<i>Page 31</i>	<i>Page 32</i>	
up to ø 1-1/2" up to ø 1-3/4"	up to ø 3-1/8"	up to ø 4-1/16"	up to ø 5-1/8"	up to ø 2-1/16"	up to ø 4"	up to ø 2-1/16"	up to ø 1-1/4"	up to ø 2"	up to ø 4"	Max. hole diameter up to 5-1/8"
up to ø 1/2" up to ø 3/4"	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 1-1/4"	up to ø 1/2"	up to ø 1/2"	up to ø 7/8"	up to ø 1-1/4"	Max. twist drilling up to 1-3/4"
	up to ø 1-3/16"	up to ø 1-1/8"	up to ø 1-5/8"		up to ø 1"		up to ø 3/4"	up to ø 15/16" <i>(CSU 50RL only)</i>	up to ø 1-1/8"	Max. tapping up to 1-5/8"
	up to ø 2"	up to ø 2"	up to ø 3"		up to ø 2"					
	up to ø 1-1/4"	up to ø 1-1/4"	up to ø 2"		up to ø 1-1/8"					
6" 6"	10"	10"	3.35" (12" w/ out retainer)	up to 10-1/4"	12"	up to 3-3/4"	5-3/4"	5-1/4"	10"	
33 lbs. 35-1/4 lbs.	99 lbs.	55 lbs.	112 lbs.	43 lbs.	50 lbs.	48-1/2 lbs.	24 lbs.	29 lbs.	57 lbs.	
460 250	40-110	40-110	30-80	400	40-250	0-630	100-450	250	40-140	Pneumatic Hydraulic
450 (<i>AutoMAB 450 only</i>)	65-175	65-175	50-120					450	120-480	
	140-360	140-360	130-350							
	220-600	220-600	210-550							
	✓	✓	✓		✓		✓	✓ <i>(CSU 50RL only)</i>	✓	Allows thread cutting
	✓	✓	✓				✓	✓	✓	Overheating protection
✓	✓	✓	✓				✓	✓	✓	Magnet adhesion indicator
		✓	✓				✓	✓	✓	Shuts down motor if magnetic contact lost
Set Screw Set Screw	Set Screw	Quick-change keyless	Set Screw	Set Screw	Set Screw	Set Screw	Set Screw	Quick-change keyless	Quick-change keyless	
MT2 (<i>AutoMAB 450 only</i>)	MT3	MT3	MT4		MT3			MT2	MT3	
	✓	✓	✓							
	✓	✓	✓				✓	✓	✓	
	✓	✓								Swivel/adjustable base
6-5/8" x 3-1/3" 6-5/8" x 3-1/3"	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"	11-11/16" x 4"	7-1/4" x 3"	6-5/16" x 3-1/4"	6-1/2" x 3-1/2"	9" x 4"	



Cutter capacity
1³/₈" dia.

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



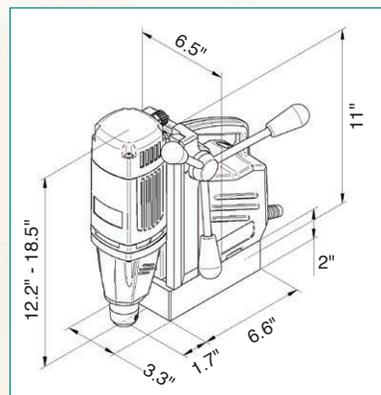
With included 1/2" chuck, this model easily converts to a standard drill press with a 3 1/3" stroke for conventional twist drills.



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



Equipped with Electronic Safety Shutoff Sensor (see p. 3)



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 / ₈ " 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 36-46 ► Accessories: pages 47-53

MABasic 400



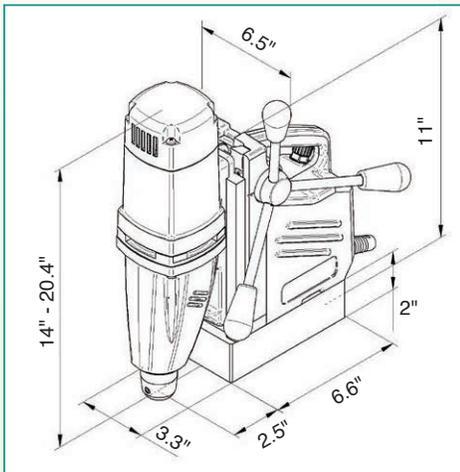
Two gears – powerful and reliable

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



Equipped with Electronic Safety Shutoff Sensor (see p. 3)



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



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.
Speeds	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

Standard Equipment
includes lubrication bottle, geared chuck, safety strap, carabin hook, allen keys, pilot pin and carrying case.



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Cutter capacity
1 3/4" dia.

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 1/2" geared chuck, the MABasic 450 easily converts to standard drill press for conventional twist drills. Optional 3/4" geared chuck available (Part No. IBC 22).



Equipped with Electronic Safety Shutoff Sensor (see p. 3)

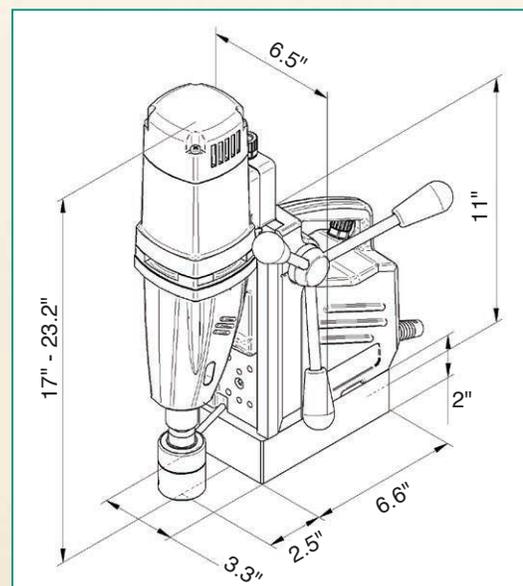
MABasic 450 Specifications

Motor Power	10.5 Amp / 110 Volt
Weight	29 lbs.
Hole Capacity	1 3/4" dia.
Twist Drill Capacity	3/4" dia.
Speeds	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 lubrication bottle, 1/2" geared chuck*, safety strap, carabin hook, allen keys, pilot pin and carrying case.

* Optional 3/4" geared chuck available



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MABasic 850



Cutter capacity
3 1/16" dia.

4-gear, powerful motor for demanding jobs

Powerful • Reliable

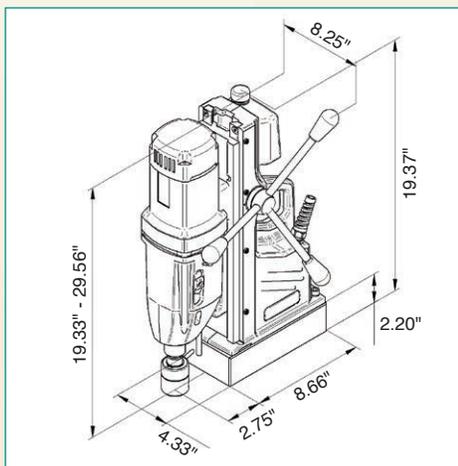
- 16 Amp double-insulated motor
- MT3 – 3/4" direct arbor with automatic cooling
- 19-3/8" high, 53 lbs.
- High-speed, 4-speed gearbox

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 1/2" chuck this model easily converts to a standard drill press for conventional twist drills. Optional 3/4" geared chuck available (Part No. IBC 21).



Standard Equipment includes 1/2" geared chuck, safety strap, carabin hook, allen keys, pilot pin and carrying case.



* Optional 3/4" geared chuck available

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.
Speeds	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

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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

Equipped with Electronic Safety Shutoff Sensor (see p. 3)



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

MAB 155 uses standard 3/4" shank annular cutters



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

Cutter Capacity



ø 1 1/2"

Stroke (length)



1 1/2"

Speed Range (RPM)



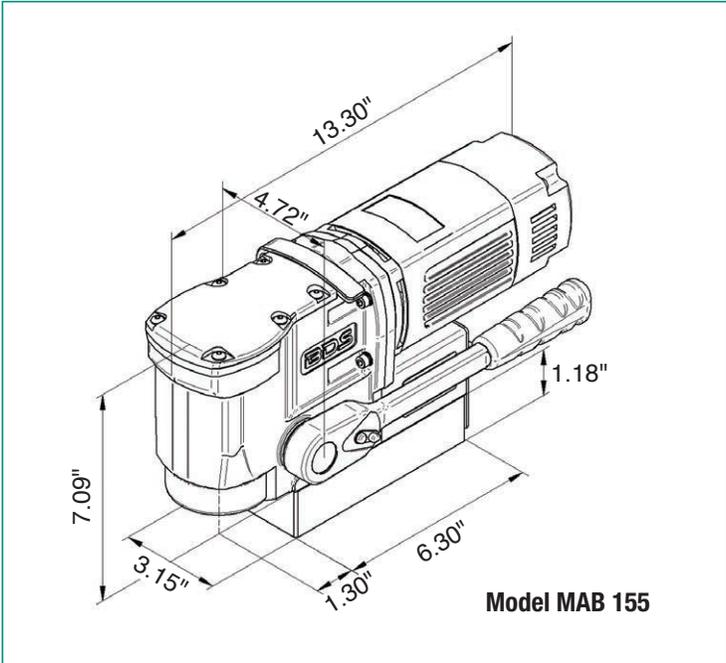
460

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



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MAB 155 Specifications



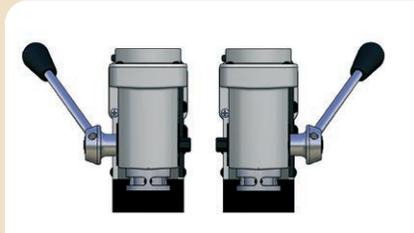
Model MAB 155 Specifications

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

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.



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



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

See pages 36-43 for our HSS, TiAIN and Carbide-tipped cutters.



PORTABLE MAGNETIC DRILLS



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 1-5/8" dia. Tap up to 5/8" dia.

- Uses annular cutters up to 1-5/8" 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. 3)

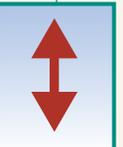


Internal cable routing protects the motor power cord from external damage



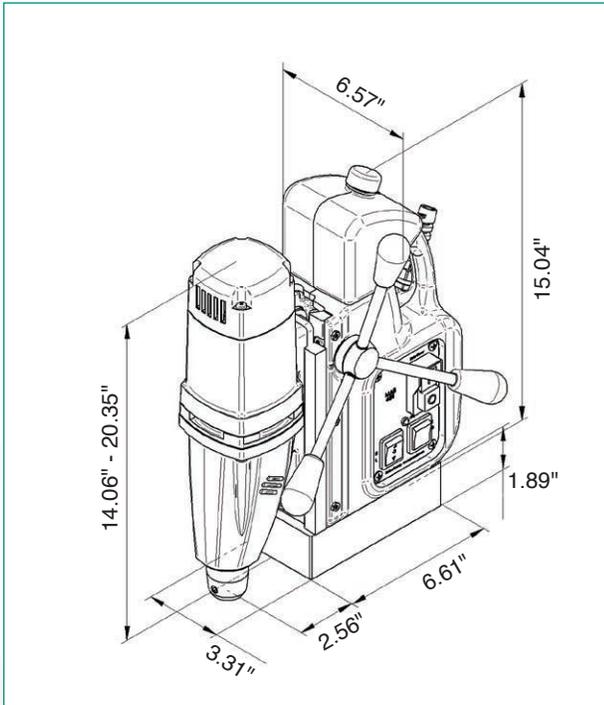
Optional Geared Chucks

With an optional 1/2" geared chuck (Part No. IBC 18), this model easily converts to a standard drill press with a 5" stroke for conventional twist drills. A 3/4" geared chuck is also available (Part No. IBC 22).

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

► *Annular Cutters: pages 36-46* ► *Accessories: pages 47-53*

MAB 465 Specifications



Model MAB 465



Model MAB 465 Specifications

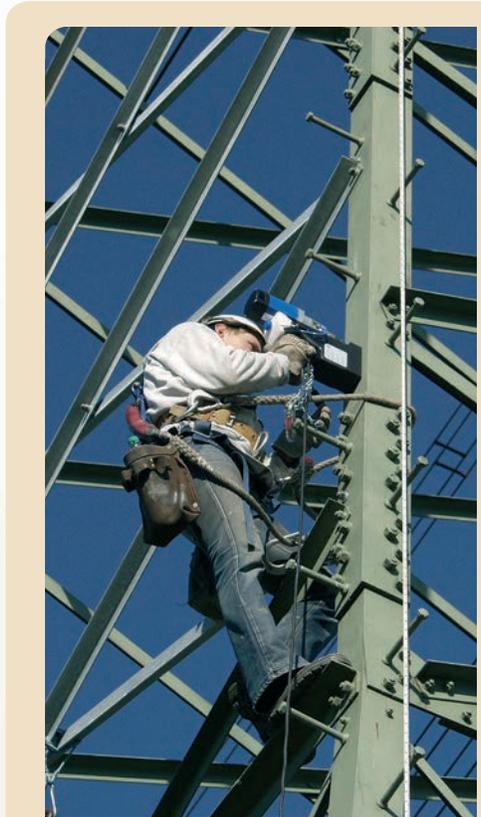
Motor Power	10.5 Amp / 110 Volt
Weight	29 lbs.
Hole Capacity	1 ⁵ / ₈ " dia.
Twist Drill Capacity	5/8" dia.
Speeds	50-250 and 100-450 RPM
Magnet Base Size	6 ⁵ / ₈ " L x 3 ¹ / ₃ " W
Dimensions	14 ¹ / ₈ " H x 9 ⁵ / ₈ " L x 6 ¹ / ₂ " W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	3/4" Weldon Shank
Automatic Lubrication	Included

Standard Equipment

- 1 Magnetic drilling machine
- 1 Manual arbor with set screws, Weldon 3/4"
- 2 Pilot pins - 1" and 2" depth
- 1 Safety chain



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



See pages 36-43 for our HSS, TiAlN and Carbide-tipped cutters.

➤ *Annular Cutters: pages 36-46* ➤ *Accessories: pages 47-53*



Cutter capacity
2 1/16" dia.

MAB 455 & MAB 455 SB



High power with keyless quick-change chuck system

Powerful • Reliable

- 10.5 Amp double-insulated motor
- 17-1/4" high, 29 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 2-1/16" dia.

- Uses annular cutters up to 2-1/16" dia.
- Twist drilling capacity up to 7/8"
- Integrated cutting oil reservoir
- Automatic internal lubrication

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

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



With an optional 1/2" geared chuck (Part No. IBC 18), this model easily converts to a standard drill press with a 5" stroke for conventional twist drills. A 3/4" geared chuck is also available (Part No. IBC 22).



MAB 455

For swivel base, order MAB 455 SB

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

Cutter Capacity



MAB 455: \varnothing 2 1/16"
MAB 455 SB: \varnothing 2 1/16"

Twist Drill



\varnothing 7/8"

Stroke (length)



6 1/3"

Two-Speed (RPM)



250 / 450

Magnet Force Indicator

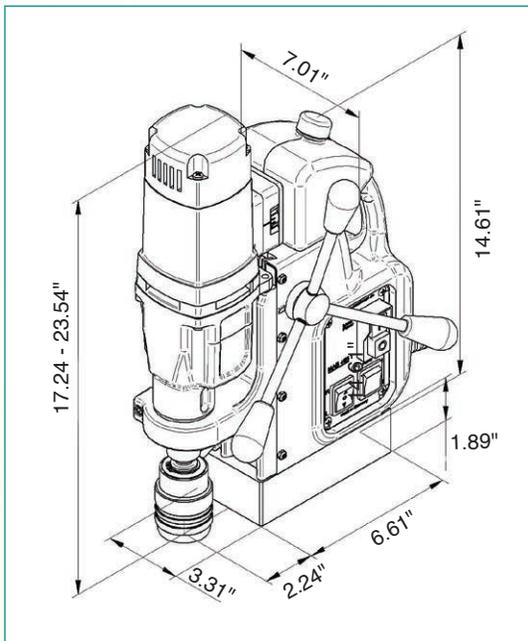


SafeMag™

Equipped with Electronic Safety Shutoff Sensor (see p. 3)

► Annular Cutters: pages 36-46 ► Accessories: pages 47-53

MAB 455 & MAB 455 SB Specifications



Model MAB 455 & MAB 455 SB



Model MAB 455 & 455 SB Specifications

Motor Power	10.5 Amp / 110 Volt
Weight	29 lbs.
Hole Capacity MAB 455	2 ¹ / ₁₆ " dia.
Hole Capacity MAB 455 SB	2 ¹ / ₁₆ " dia.
Twist Drill Capacity	7/8" dia.
Speeds	250 / 450 RPM (2 gears)
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

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



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

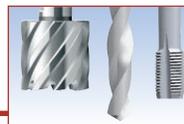
➤ *Annular Cutters: pages 36-46* ➤ *Accessories: pages 47-53*

PORTABLE MAGNETIC DRILLS



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 2-1/8" 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



Optional Geared Chuck

With an optional 1/2" geared chuck (Part No. IBC 18), this model easily converts to a standard drill press with a 5" stroke for conventional twist drills. A 3/4" geared chuck is also available (Part No. IBC 22).

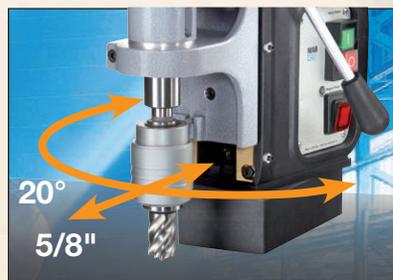


Integrated Safety

- 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. 3)

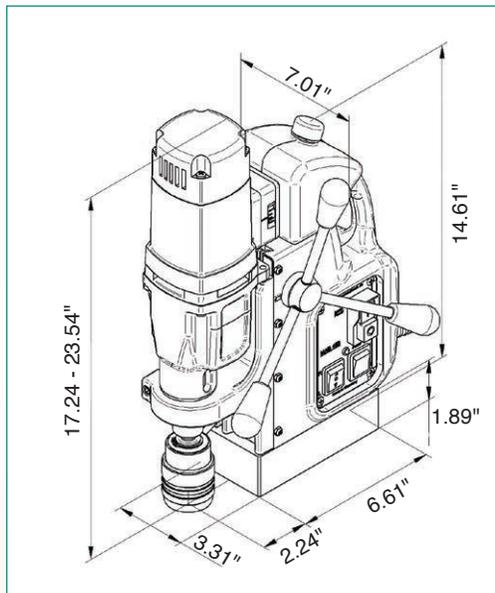


Model MAB 485 SB features a swivel base providing 20° movement left and right and 5/8" forward and backward.

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 1 5/16"	6 1/3"	50-250 100-450	Variable-speed Control	CoolMag™	SafeMag™	

► Annular Cutters: pages 36-46 ► Accessories: pages 47-53

MAB 485 & MAB 485 SB Specifications



Model MAB 485
& MAB 485 SB



Model MAB 485 Specifications

Motor Power	10.5 Amp / 110 Volt
Weight	29 lbs.
Hole Capacity	2 ¹ / ₁₆ " dia.
Twist Drill Capacity	7/8" dia.
Tapping Capacity	15/16" dia.
Speeds	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
- 2 Pilot pins - 1" and 2" depth
- 1 Safety chain
- 1 Drift key MT2
- Tap collet adapters - 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 53 for details.

PORTABLE MAGNETIC DRILLS

➤ Annular Cutters: pages 36-46 ➤ Accessories: pages 47-53



Cutter capacity
2 1/2" dia.

MAB 525 & MAB 525 SB



High power, ideal for production use

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.



REVERSIBLE

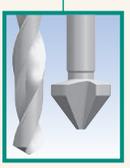
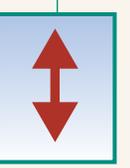
Internal cable routing protects the motor power cord from external damage

Equipped with Electronic Safety Shutoff Sensor (see p. 3)



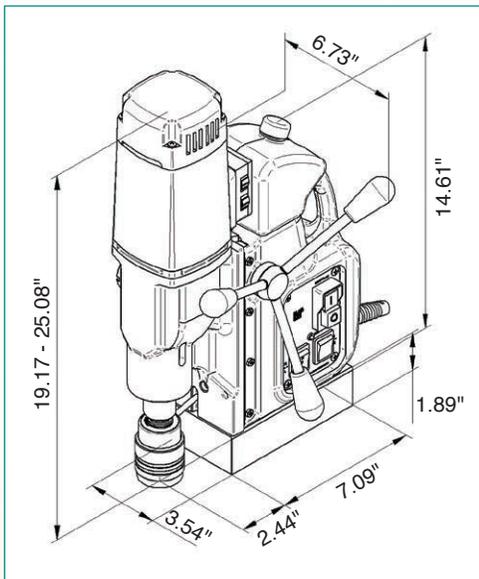
With an optional 3/4" chuck (Part No. IBC 21), this model easily converts to a standard drill press with a 5" stroke for conventional twist drills.



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

► Annular Cutters: pages 36-46 ► Accessories: pages 47-53

MAB 525 & MAB 525 SB Specifications

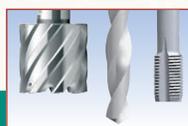


Model MAB 525 & MAB 525 SB



PORTABLE MAGNETIC DRILLS

Model MAB 525 Specifications

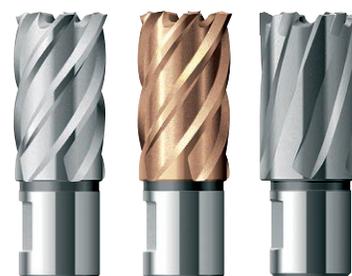


Motor Power	14.5 Amp / 110 Volt
Weight	35 lbs.
Hole Capacity	2 1/2" dia.
Twist Drill Capacity	1" dia.
Tapping Capacity	15/16" dia.
Speeds	70-280 and 180-580 RPM
Magnet Base Size	7 1/8" L x 3 1/2" W
Dimensions	19" H x 11 3/4" L x 6 3/4" W
Magnetic Force (1" plate)	4500 lbs.
Arbor Bore	3/4" Weldon Shank
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
- 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 36-43 for our HSS, TiAlN and Carbide-tipped cutters.



➤ *Annular Cutters: pages 36-46* ➤ *Accessories: pages 47-53*



Cutter capacity
1 1/2" & 1 3/4" dia.

AutoMAB 350 & AutoMAB 450



Compact drill with automatic feed – forward and reverse

AutoMAB 350 Drill up to 1-1/2" dia.

- 10.5 Amp double-insulated motor
- 3/4" direct arbor
- Uses annular cutters up to 1-1/2" dia.
- Twist drilling capacity up to 1/2" dia.
- 3-1/3" stroke with chuck



AutoMAB 450 Drill up to 1-3/4" dia.*

- 10.5 Amp double-insulated motor
- MT2 – 3/4" direct arbor with automatic cooling
- Uses annular cutters up to 1-3/4" dia.*
- Twist drilling capacity up to 3/4" dia.
- 3-1/2" stroke with chuck

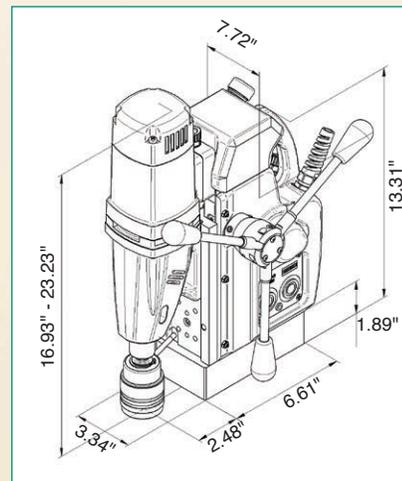
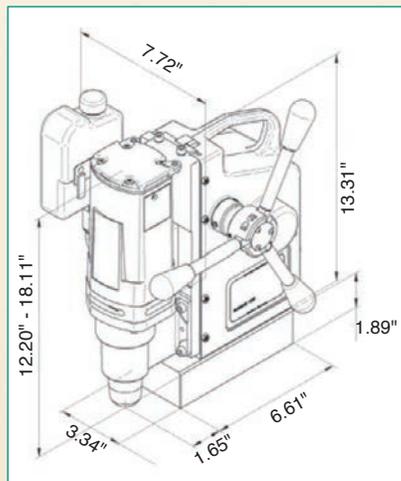


* Drilling capacity up to 2" dia. with TCT Carbide cutters.



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).

Specifications	AutoMAB 350	AutoMAB 450
Motor Power	10.5 Amp / 110 Volt	10.5 Amp / 110 Volt
Weight	33 lbs.	35 1/4 lbs.
Hole Capacity	1 1/2" dia.	1 3/4" dia.*
Drilling Depth	2-3/8" with pilot pin 4-3/8" without pilot pin	2-3/8" with pilot pin 4-3/8" without pilot pin
Speeds	460 RPM	250 / 450 RPM (2 gears)
Magnet Base Size	6 5/8" L x 3 1/3" W	6 5/8" L x 3 1/3" W
Stroke	6"	6"
Dimensions	12 1/4" H x 8 3/4" L x 7 3/4" W	16 7/8" H x 9 1/8" L x 7 3/4" W
Magnetic Force (1" plate)	3750 lbs.	3750 lbs.
Arbor Bore	3/4" Weldon Shank	3/4" Weldon Shank
Spindle	—	MT2



MAB 825 KTS



Cutter capacity
3 1/8" dia.

Versatile machine with adjustable X and Y positioning

Powerful • Reliable

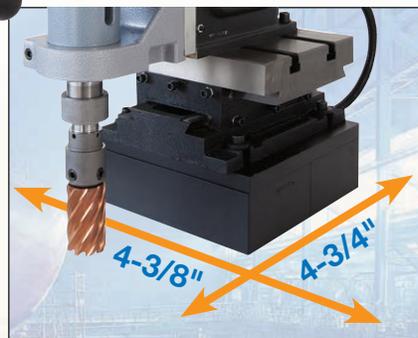
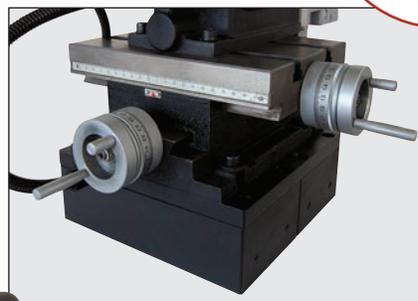
- 16 Amp double-insulated motor
- 4-speed oilbath gearbox for applications requiring high power
- Designed for continuous use
- Infinitely variable torque control and full-wave control electronics
- Ideal for a wide variety of drilling, boring and slotting applications
- Includes servo-assisted drilling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

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

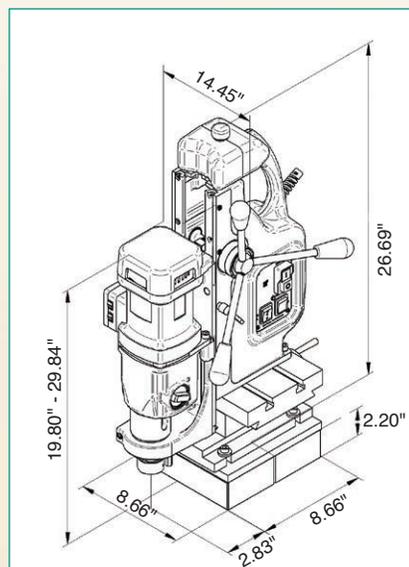
- Multi-axis positioning
- Uses annular cutters up to 3-1/8" dia.
- 10" stroke
- Twist drilling capacity up to 1-1/4" dia.
- Integrated cutting oil reservoir
- Automatic internal lubrication

Integrated Safety

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



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.



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.
Speeds	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



Standard Equipment

- 1 Magnetic drilling machine, 1 Steel carrying case†
- 1 Safety chain, 1 Operating manual,
- 1 Warranty certificate

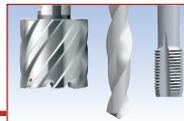
Standard Equipment also includes auto lubrication, safety strap, carabin hook and allen keys.

† Steel case intended mainly for shipping purposes; damage may occur in transit.
Optional 3/4" geared chucks available (Part No. IBC 21)

➤ **Annular Cutters:** pages 36-46 ➤ **Accessories:** pages 47-53



MAB 825 & MAB 845



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. 3)



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

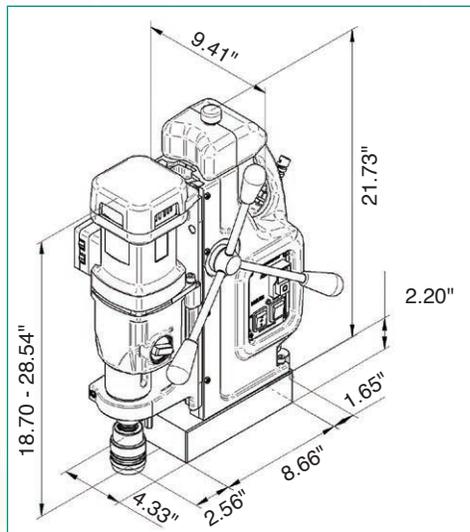
MAB 845

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

See pages 29 and 50 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)
$\varnothing 4\frac{1}{16}"$	$\varnothing 1\frac{1}{4}" / \varnothing 2"$	$\varnothing 1\frac{1}{4}" / \varnothing 1\frac{1}{8}"$	10"	40-110 65-175 140-360 220-600	min ⁻¹ Variable-speed Control	°F CoolMag™	SafeMag™	

MAB 825 & MAB 845 Specifications



Model MAB 825, 825 V & 845

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 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.
Speeds	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	Order MAB 825 V
Swivel Base	Order MAB 845



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

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**

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

Rolling Transport Case

Optional robust transport case with wheels, carrying handle and sturdy closures. Protect your MAB 825/845 from water and dust with this rugged case.

Order No. ZHK 825



➤ Annular Cutters: pages 36-46 ➤ Accessories: pages 47-53



Cutter capacity
5 1/8" dia.

MAB 1300



Large holes – up to 5 1/8" diameter
Tapping up to 1 5/8" diameter

Powerful • Reliable

- 20 Amp double-insulated motor
- 22" 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 5-1/8" dia.
Tap up to 1-5/8" dia.

- Uses annular cutters
7/16" to 5-1/8" dia., 1" and 2" depth
7/16" to 5-1/8" 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 (see p. 3)
- Emergency-off function

*Ideal for use with
TCT Carbide cutters
up to 5 1/8" dia. –
see pages 42-43.*



* 3" depth cutters or longer require purchase of ZIA 432 KN adapter and 1-1/4" Weldon adapter.



Equipped with
**Electronic Safety
Shutoff Sensor** (see p. 3)



**4 Gears
with Variable
Speed**



Twist Drilling



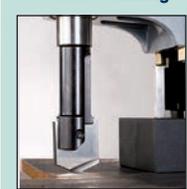
Tapping



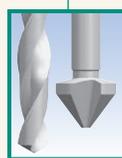
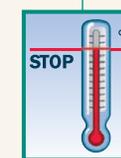
Reaming



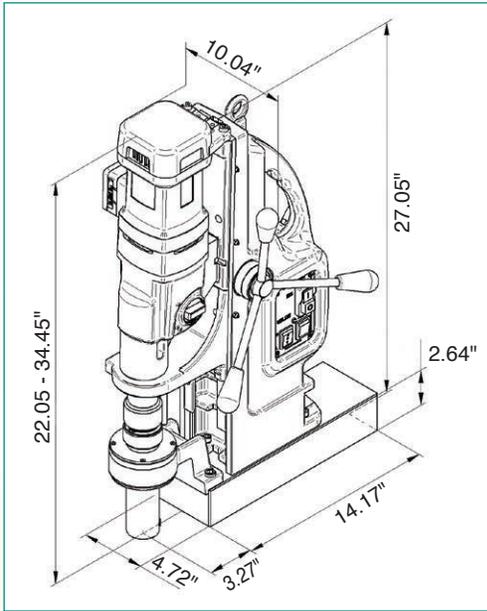
Countersinking



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 5 1/8"	 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™	

MAB 1300 Specifications



Model MAB 1300



Model MAB 1300 Specifications

Motor Power	20 Amp / 110 Volt
Weight	112 lbs.
Hole Capacity	5 1/8" dia.**
Twist Drill Capacity	1 3/4" dia.
Tapping Capacity	1 5/8" dia.
Speeds	30-80, 50-120 130-350, 210-550 RPM
Magnet Base Size	14" L x 4 3/4" W
Dimensions	22" H x 19 1/2" L x 10" W
Magnetic Force (1" plate)	23,600 lbs.
Arbor Bore	1 1/4" (3/4" adapter included)
Spindle	MT4
Automatic Lubrication	Included

** Maximum hole diameter is with TCT Carbide cutters - see p. 42-43.

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 SW6
- 1 Drift key MT4
- 1 Operating manual
- 1 Warranty certificate



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



Accessories

See pages 28-29 for tapping accessories and wheeled carrying case.



ZHK 1300 wheeled carrying case included with MAB 1300

PORTABLE MAGNETIC DRILLS

➤ Annular Cutters: pages 36-46 ➤ Accessories: pages 47-53



MAB 1300 V

Strongest magnetic drill with adjustable automatic feed and reverse

- Ideal for production applications
- Power feed controls drill pressure to maintain optimal RPM and feed rate

Drill up to 5-1/8" dia.
Tap up to 1-5/8" dia.
Ream up to 2" dia.

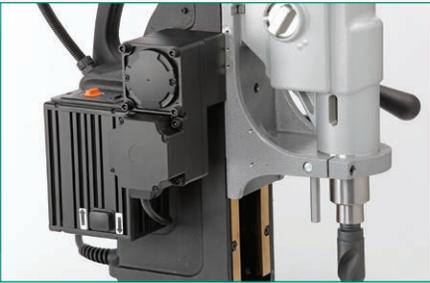


Drill automatically



Drill manually

Automatic feed motor



Rolling Transport Case for MAB 1300



Order No. **ZHK 1300**

Robust transport case with wheels, carrying handle and sturdy closures. Protect your investment from water and dust with this rugged case. Four large ABS locks and an interior configuration customized for machine to secure drill and accessories during transit. Lightweight, heavy-duty plastic construction and robust ABS wheels.

Drill not included with ZHK 1300. Purchase of MAB 1300 drill includes ZHK 1300 case. See page 25 for MAB 825/845 case.



Watertight, shock-proof and robust – the right protection for your machine.

Four large ABS locks secure the robust plastic case

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
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. **GSW 444** quick-change tapping chuck with MT4 connection (for MAB 1300). Collets not included. *GSW 444 and GSS-4xx collet set shown below.*

- GSS-420** collet for 20mm shanks
- GSS-422** collet for 22mm shanks
- GSS-427** collet for 27mm shanks
- GSS-433** collet for 33mm shanks
- GSS-442** collet for 42mm shanks



See page 50 for additional tapping options.

Tap Collets and Reducing Adapters



Tap Collets with 3/4" or 1-1/4" Weldon shank
all threads shown are ASA Standard (or DIN 376 for metric)

Thread	Order No.	Thread	Order No.
1/4	TCM 1/4	9/16	TCM 9/16
5/16	TCM 5/16	5/8	TCM 5/8
3/8	TCM 3/8	11/16	TCM 11/16
7/16	TCM 7/16	3/4	TCM 3/4
1/2	TCM 1/2		

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



Reducing Sleeve
DIN 2185

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



Unibroach® Large-Hole Cutting

Cut holes up to 5-1/8" dia., 12" deep!



Large HSS, TCT or M42 Cutters

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

Drill perfect holes up to 5 1/8" diameter without runout

- 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
- A solid slug has a higher value for scrap metal

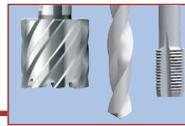


* Pilot pins not supplied with 6" or larger depth cutters. Pilot pins can be purchased separately.



Cutter capacity
1 1/4" dia.

CSU 32RL



Best power-to-weight performance in the industry

Powerful • Reliable

- Strong 8.2 Amp motor
- Compact, lightweight and portable – 14-1/4" high, 24 lbs.
- Designed for continuous use
- Variable speed

Drill up to 1-1/4" dia.

- Uses annular cutters up to 1-1/4" dia.; 5-3/4" stroke
- Twist drilling capacity up to 1/2" dia.
- Tapping capacity up to 3/4" dia.*
- Automatic lubrication system



Model CSU 32RL
has a variable-speed
(100-450 RPM),
reversible motor for
tapping up to 3/4"



Integrated Safety

- SafeMag™ Green/Red LED magnetic force indicator for safe operation
- Equipped with CoolMag™ overheat protection
- Emergency-off function



With included 1/2" chuck (Part No. IBC 17), this model easily converts to standard drill presses with a 6 1/2" stroke for conventional twist drills.

Power Assist

The Power Assist is a standard capstan, designed with delayed torque transfer. This decreases the load on both cutter and drilling machine, allowing the machine to maintain max. RPM under full load.



- Reduces drilling time
- Prevents cutter breakage
- Extends lifespan of cutter/drill bit and machine

ZPA 401 – Power Assist for CSU 32 and CSU 50 series

Standard Equipment includes auto lubrication, auto chuck cutter holder, 1/2" geared chuck, safety chain, carabin hook, allen keys, pilot pins and carrying case.



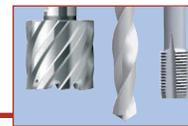
Tap collet set included with Model CSU 32RL

CSU 32RL Specifications

Motor Power	8.2 Amp / 110 Volt
Weight	24 lbs.
Hole Capacity	1 1/4" dia.
Twist Drill Capacity	1/2" dia.
Tapping Capacity	3/4"
Speed	100-450 RPM
Magnet Base Size	6 5/16" L x 3 1/4" W
Dimensions	14 1/4" H x 9 1/2" L x 4 3/8" W
Magnetic Force (1" plate)	3080 lbs.
Arbor Bore	3/4" Weldon Shank
Spindle	1/2"-20 UNF Thread
Automatic Lubrication	Included

► Annular Cutters: pages 36-46 ► Accessories: pages 47-53

CSU 50AC & CSU 50RL



Lightweight, two-speed, high-performance drills



Powerful • Reliable

- Strong 10.5 Amp motor
- Compact, lightweight and portable – 16-1/2" high, 29 lbs.
- 2-gear variable speed gearbox
- Designed for continuous use

Drill up to 2" dia.

- Uses annular cutters up to 2" dia.; 5-1/4" stroke
- Twist drilling capacity up to 7/8" dia.
- Tapping capacity up to 15/16" dia.*
- Automatic lubrication system

Keyless Cutter Mount

- Easy "twist and lock" keyless arbor
- Also includes manual arbor for 3/4" Weldon shank (MT2) with set screws

REVERSIBLE

Model CSU 50RL has a variable-speed, reversible motor for tapping up to 15/16"

Optional quick-change tapping chuck with MT2 connection (Model GSW-222) has flexible collet to fit taps 5/16" to 5/8"



Integrated Safety

- SafeMag™ Green/Red LED magnetic force indicator for safe operation
- Equipped with CoolMag™ overheat protection
- Emergency-off function



With included geared chuck, these models easily convert to standard drill presses with a 4 1/2" stroke for conventional twist drills. Optional 3/4" geared chuck available (Part No. IBC 22).

CSU 50AC Specifications

Motor Power	10.5 Amp / 110 Volt
Weight	29 lbs.
Hole Capacity	2" dia.
Twist Drill Capacity	7/8" dia.
Tapping Capacity	15/16" (CSU 50RL only)
Speeds	1: 250 RPM, 2: 450 RPM
Magnet Base Size	6 1/2" L x 3 1/2" W
Dimensions	16 1/2" H x 9" L x 6 3/8" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	3/4" Weldon Shank
Spindle	MT2
Automatic Lubrication	Included
Reversible Motor	Order CSU 50RL
Power Assist	Order Accessory ZPA 401

* Model CSU 50RL for tapping up to 15/16" dia.



Tap collet set included with Model CSU 50RL

Standard Equipment includes auto lubrication, auto chuck cutter holder, manual chuck with set screws, geared chuck, safety chain, carabin hook, allen keys, pilot pins and carrying case. (CSU 50RL shown)

➤ **Annular Cutters:** pages 36-46 ➤ **Accessories:** pages 47-53

PORTABLE MAGNETIC DRILLS



Cutter capacity
4" dia.

CSU 100/3RL

Powerful reversible motor for drilling and tapping

Powerful • Reliable

- 16 Amp double-insulated motor
- 19-1/2" high, 574 lbs.
- 2-gear variable speed gearbox
- Designed for continuous use

Drill up to 4" dia.

- Uses annular cutters up to 4" dia.; 10" stroke
- Twist drilling capacity up to 1-1/4" dia.
- Tapping capacity up to 1-1/8" dia.
- Automatic lubrication system

Keyless Cutter Mount

- Quick-change keyless cutter system for 3/4" Weldon shank
- Optional 1-1/4" arbor

Integrated Safety

- SafeMag™ Green/Red LED magnetic force indicator for safe operation
- Equipped with CoolMag™ overheat protection
- Emergency-off function

Power Assist

The Power Assist is a standard capstan, designed with delayed torque transfer. This decreases the load on both cutter and drilling machine, allowing the machine to maintain max. RPM under full load.

- Reduces drilling time
- Prevents cutter breakage
- Extends lifespan of cutter/drill bit and machine

ZPA 402 – Power Assist for CSU 100/3RL

Standard Equipment includes auto lubrication, auto chuck cutter holder, manual chuck with set screws, safety chain, carabin hook, allen keys, pilot pins and carrying case†.

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



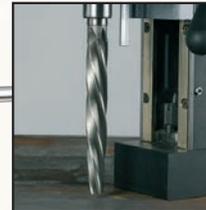
2 Gears with Variable Speed



Twist Drilling



Tapping



Reaming



Countersinking



Optional MT3 tapping chuck with two variable clamp collets (Model GSW.830C) fits taps 3/8" to 1-1/8"

See pages 29 and 50 for Tap Holders and Accessories

CSU 100/3RL Specifications

Motor Power	16 Amp / 110 Volt*
Weight	57 lbs.
Hole Capacity	4" dia.
Twist Drill Capacity	1 1/4" dia.
Tapping Capacity	1 1/8" dia.
Speeds (variable)	40-140 RPM, 120-480 RPM
Magnet Base Size	9" L x 4" W
Dimensions	19 1/2" H x 13 3/8" L x 7 1/2" W
Magnetic Force (1" plate)	6600 lbs.
Arbor Bore	3/4" (1 1/4" also available)
Spindle	MT3
Automatic Lubrication	Included
Power Assist	Order Accessory ZPA 402

► Annular Cutters: pages 36-46 ► Accessories: pages 47-53

AIRBOR™ AB-4300

Motor and magnet are powered completely by compressed air



Pneumatic power for hazardous environments

ATEX Classified

Safe • Reliable

- Inherently safer than electromagnetic drills in hazardous atmospheres and wet environments where electricity requires "hot work permits"
- ATEX classified
- 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)



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

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

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			
lbs.	kg	lbs.	kg
43	20	38	18

➤ *Annular Cutters: pages 36-46* ➤ *Accessories: pages 47-53*



Cutter capacity
4" dia.

Model 2 1345 0010 – Hydraulic

Ideal for use in Ex Zones and subsea applications

ATEX Classified

Safe • Reliable

- Hydraulic motor safe for underwater use
- Ideal for industrial, construction, marine and mining applications
- ATEX Classified 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.

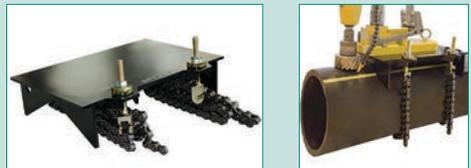
- Uses annular cutters up to 4" dia.
- Twist drilling capacity up to 1-1/4" dia.
- Tapping capacity up to 1" dia.



Model 2 1345 0010 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

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 36-46 ► **Accessories:** pages 47-53

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.

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
Hoses not included



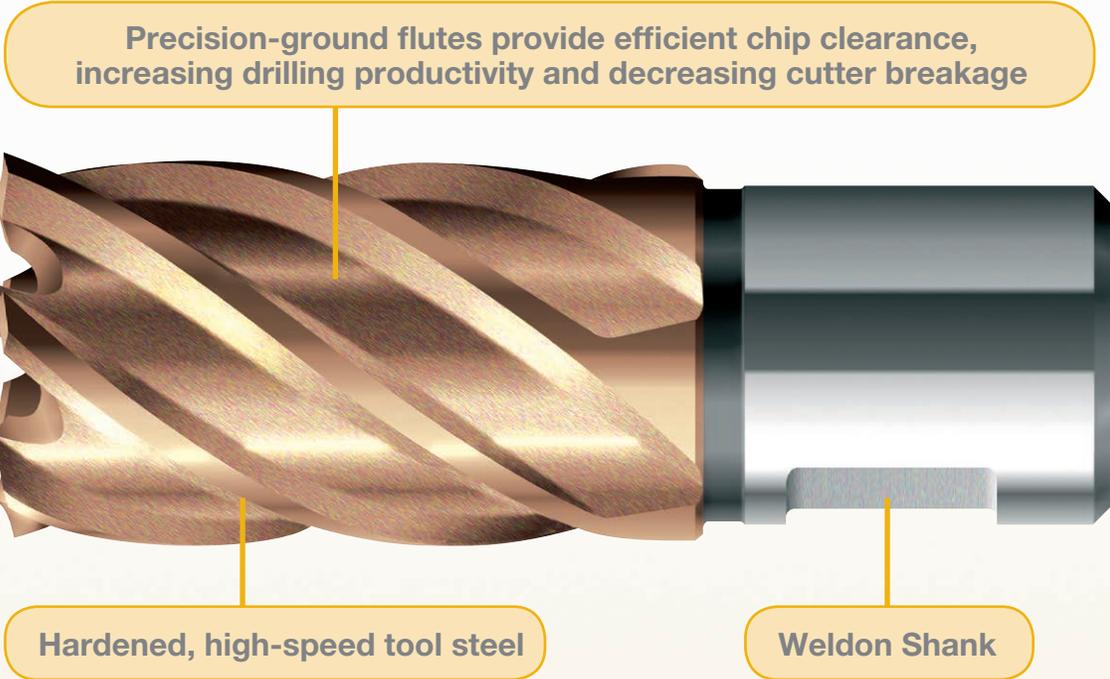
Model HB 4400 Specifications

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 36-46* ➤ *Accessories: pages 47-53*

Annular Cutters

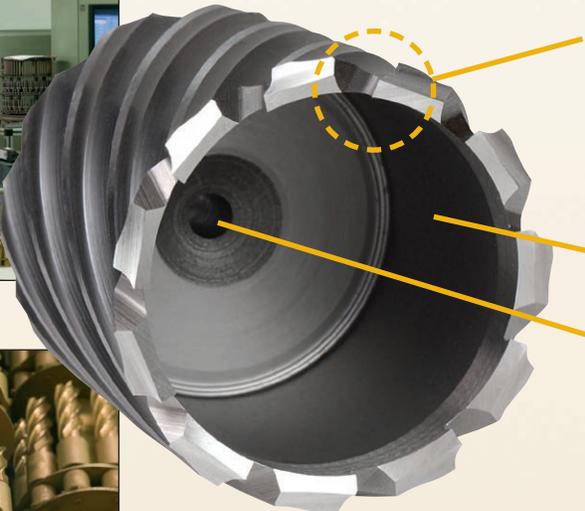
Achieve burr-free finished holes, without predrilling or stepdrilling



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.



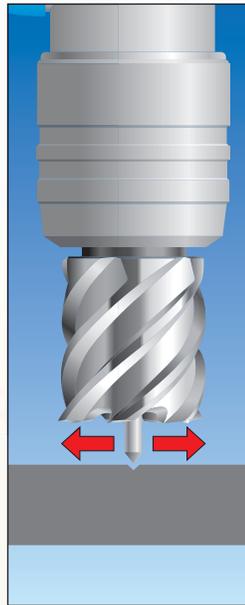
Perfect drilling to close tolerances without runout. The result: a burr-free finished hole.



Pilot Pins: How they work...

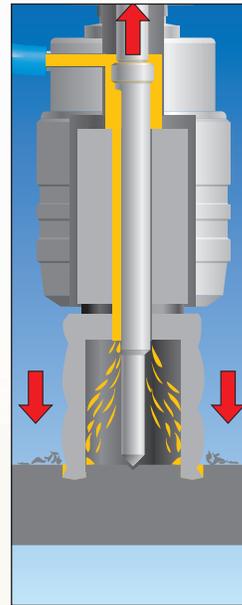


1: Centering



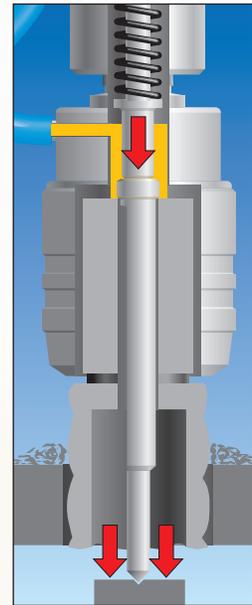
The pilot pin accurately centers cutter over area to be drilled.

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 38-39

Fully ground HSS annular cutters

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" - 5-1/8"	3/4" - 5-1/8"	3/4" - 5-1/8"



8-Series ARMOR-PLATED Unibroach™ Annular Cutters – Pages 40-41

Fully ground HSS annular cutters with TiAlN hard coating

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 42-43

Sintered carbide annular cutters with Tungsten Carbide tips

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

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



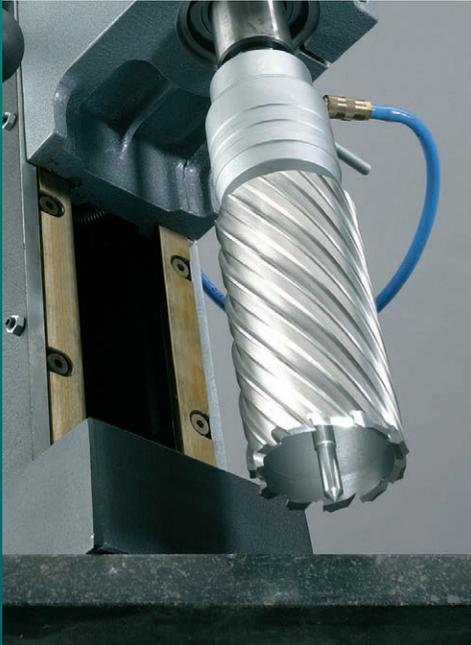
For Cobalt Cutters, Rail Cutters and special sizes, see pages 45 and 29. For One-Touch TCT Cutters, see page 44.



➤ See pages 47-53 for Drill Accessories.

Unibroach® Annular Cutters

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



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"			

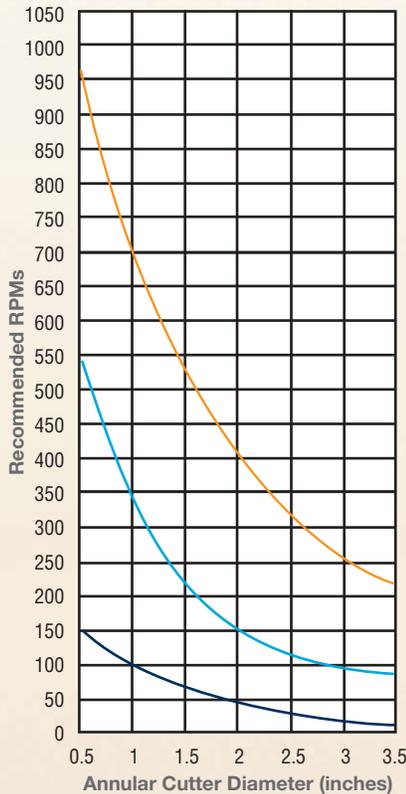
*Special sizes available; metric cutters available on request.
Every annular cutter includes a corresponding pilot pin.**

- 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 48 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.



*See page 47 for HSS
Annular Cutter Starter Kit.*



** Pilot pins not supplied with 6" and 8" drill depth cutters. 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	
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"

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



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" dia.

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.
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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.

† We also stock 8" depth HSS cutters and Metric HSS cutters. Larger diameters and special sizes available upon request. Please call us for pricing and delivery.



➤ See pages 47-53 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!



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"

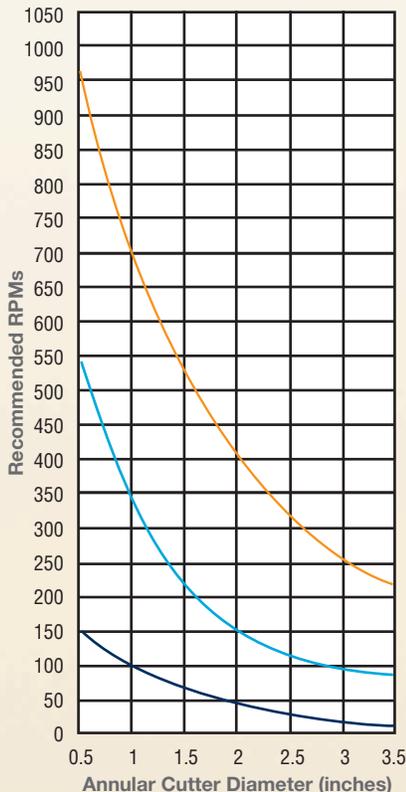


Special sizes available; metric cutters available on request.
Every annular cutter includes a corresponding pilot pin.

- 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

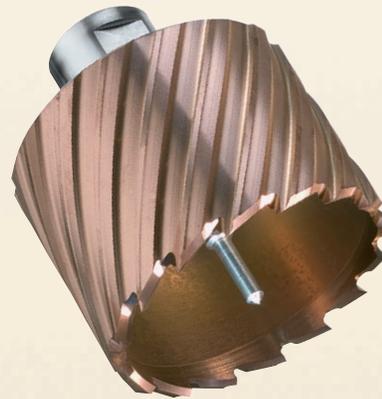
**Annular Cutter
Recommended
Revolutions Per Minute**
 Recommended Feed Rate:
 .002 - .004 inches per revolution



Aluminum
200 ft./min.

**Mild Steel
(Carbon)**
80 ft./min.

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



See page 47 for ARMOR-PLATED Unibroach™ TiAlN Carbide-Coated Annular Cutter Starter Kit.

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

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	
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"

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

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.

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

➤ See pages 47-53 for Drill Accessories.

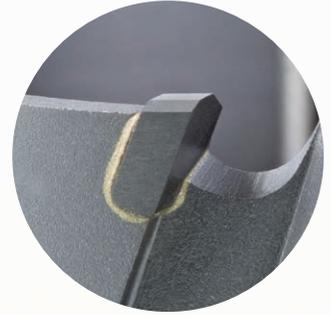
Unibroach® Annular Cutters

ANNULAR CUTTERS

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



- Use high-speed RPM for best results and faster holemaking
- 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
- $\frac{3}{4}$ " or $1\frac{1}{4}$ " shank



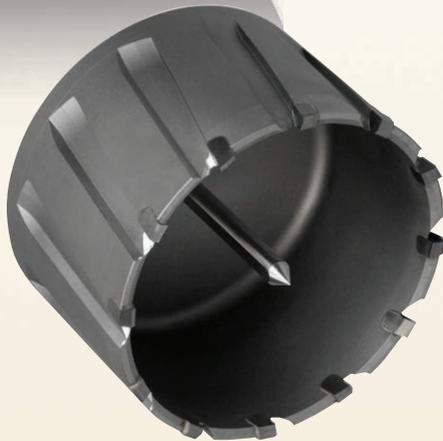
Closeup of tungsten-carbide teeth.

TCT Hornet cutters are available in the following sizes:

Drill Depth	1"	1-3/8"	2-3/8"	3-3/8"	4"	6"	8"
Diameter	$\varnothing \frac{1}{2}$ " to $\varnothing 1\frac{1}{2}$ "	$\varnothing 1\frac{9}{16}$ " to $\varnothing 2$ "	$\varnothing 1\frac{1}{2}$ " to $\varnothing 5\frac{1}{8}$ "	$\varnothing \frac{3}{4}$ " to $\varnothing 5\frac{1}{8}$ "	$\varnothing \frac{3}{4}$ " to $\varnothing 5\frac{1}{8}$ "	$\varnothing 1\frac{13}{16}$ " to $\varnothing 5\frac{1}{8}$ "	$\varnothing 1\frac{13}{16}$ " to $\varnothing 5\frac{1}{8}$ "

Special sizes available; metric cutters available on request.

Every annular cutter includes a corresponding pilot pin.*



Armor plating available upon request.

9-Series Annular Cutter Recommended RPM Rates

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

* Pilot pins not supplied with 6" and 8" drill depth cutters. Pilot pins can be purchased separately.

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
9-1-150 C	1-9/16"
9-1-152 C	1-5/8"
9-1-154 C	1-11/16"
9-1-156 C	1-3/4"
9-1-158 C	1-13/16"
9-1-160 C	1-7/8"
9-1-162 C	1-15/16"
9-1-164 C	2"



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" dia.

2-3/8" Depth

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

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"

Order No.	Diameter
9-1-2114 C	3-9/16"
9-1-2116 C	3-5/8"
9-1-2118 C	3-11/16"
9-1-2120 C	3-3/4"
9-1-2122 C	3-13/16"
9-1-2124 C	3-7/8"
9-1-2126 C	3-15/16"
9-1-2128 C	4"
9-1-2130 C	4-1/16"
9-1-2132 C	4-1/8"
9-1-2134 C	4-3/16"
9-1-2136 C	4-1/4"
9-1-2138 C	4-5/16"
9-1-2140 C	4-3/8"
9-1-2142 C	4-7/16"
9-1-2144 C	4-1/2"
9-1-2146 C	4-9/16"
9-1-2148 C	4-5/8"
9-1-2150 C	4-11/16"
9-1-2152 C	4-3/4"
9-1-2154 C	4-13/16"
9-1-2156 C	4-7/8"
9-1-2158 C	4-15/16"
9-1-2160 C	5"
9-1-2162 C	5-1/8"

3-3/8" Depth

Order No.	Diameter
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"
9-1-368 C	2-1/8"

Order No.	Diameter
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"
9-1-3116 C	3-5/8"

Order No.	Diameter
9-1-3118 C	3-11/16"
9-1-3120 C	3-3/4"
9-1-3122 C	3-13/16"
9-1-3124 C	3-7/8"
9-1-3126 C	3-15/16"
9-1-3128 C	4"
9-1-3130 C	4-1/16"
9-1-3132 C	4-1/8"
9-1-3134 C	4-3/16"
9-1-3136 C	4-1/4"
9-1-3138 C	4-5/16"
9-1-3140 C	4-3/8"
9-1-3142 C	4-7/16"
9-1-3144 C	4-1/2"
9-1-3146 C	4-9/16"
9-1-3148 C	4-5/8"
9-1-3150 C	4-11/16"
9-1-3152 C	4-3/4"
9-1-3154 C	4-13/16"
9-1-3156 C	4-7/8"
9-1-3158 C	4-15/16"
9-1-3160 C	5"
9-1-3162 C	5-1/8"

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
9-3-302A C	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.



➤ See pages 47-53 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 weldon 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



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 1¹¹/₁₆"

Every annular cutter includes a corresponding pilot pin.

- Metric cutters available on request

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"

Pilot pin included with every annular cutter



Shank size: 3/4"

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

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 cutter
- Armor plating available upon request



4-Series Carbide-Tipped Rail Cutters

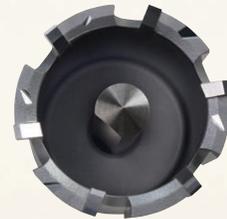
- Carbide-tipped rail bits for long life and quick, efficient cutting through rust and corrosion

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
For 3/4" Shanks	
4-3-102	3/4" - 1-11/16" dia., 1-3/8" depth



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"



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

► See pages 47-53 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 58



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

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
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

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.

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 38-39 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 40-41 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 38-39 for more information on HSS annular cutters.



See page 52 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**

Upgrade your drill's cooling system: see page 49 for arbors with automatic cooling.



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

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

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

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**

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 3/4" or 1 1/4" Weldon
- Available for automatic internal cooling or manual cooling



Manual Cooling

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



Automatic Cooling

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

Quick-Lock Arbor with Automatic Internal Cooling

- Keyless for fast, no-tools changeover for 3/4" dia. shank annular cutters
- Automatic internal cooling
- Turn, click... go!

ZSS 200 – Morse Taper No. 2
for 3/4" dia. shank
annular cutters

ZSS 300 – Morse Taper No. 3
for 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: 1/2" and 3/4"; four chucks and adapters to fit all magnetic drills

- A) **IBC 17** – 1/2" chuck for CSU 32 series
- B) **IBC 18** – 1/2" chuck with 3/4" shank for MABasic 200, MABasic 400 and AIRBOR™ (fits all drills with 3/4" arbor bore)
- C) **IBC 21** – 3/4" chuck with MT3 shank for MAB 525, MAB 825, MAB 845 and CSU 100/3RL
- D) **IBC 22** – 3/4" chuck with MT2 shank for MABasic 450, MAB 455, MAB 485 and CSU 50 series



Accessories

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 – 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 – for MAB 155, MAB 485
 and MAB 525

Quick-Change Tapping Chucks

Part No. **GSW.830C** tapping chuck includes two variable clamp collets to tap 3/8" to 1 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 3/8" – 5/8".

Part No. **GST-230** for shanks 5/8" – 7/8".



GSW 444
 Quick-Change
 Chuck



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

GSS-420 collet for 20mm shanks

GSS-422 collet for 22mm shanks

GSS-427 collet for 27mm shanks

GSS-433 collet for 33mm shanks

GSS-442 collet for 42mm shanks



GSS-4xx
 Collet

Clamping Devices

MOBIL CLAMP

A true advance in magnetic drilling technology: The new clamping system MOBIL CLAMP can be used to convert a magnetic drilling machine into a bench drill.

Extends the functionality of your portable magnetic drill. Ideal for parts that previously could only be drilled in the workshop – they can now be machined on site. MOBIL CLAMP makes it possible to drill, countersink, ream or tap small parts, since these can be mounted into the quick clamping device.

With the mounting of a magnetic drilling machine onto the surface of the vice and the subsequent activation of the magnet, you will have a versatile, stationary drilling machine in next to no time. The magnetic drilling machine becomes a multi-purpose machine: whether large or small applications, flat or high, with the twist drill or the reamer, everything is possible. A stable support, designed for the MOBIL CLAMP clamping device, ensures the correct working height and a comfortable and reliable operation.



ZMC 300

Base stand for clamping device



MOBIL CLAMP

Order No.	Jaw width	Quick-action clamping jaw	V-block clamping jaw
ZMC 180	4" (100mm)	3.15" (80mm) clamping width	•

Drilling stand and vise for hand drills



Drill not included.

- Industrial drilling pillars for commercial hand drills with 43mm chuck journal diameter.
- Optimum stability by cast base plate combined with a pillar top of the MAB series.
- Versatile usability by a drill vise with 4" (100mm) jaw width (special accessories).
- Screws for slots are available for additional security under higher loads (special accessories).
- Working stroke of 9" - 17" (230 - 425mm).

Magnetic Drilling Pillar

Order No. **MBS 300**

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



Drill not included.

Drilling Pillar

Order No. **ZBS 100**



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**

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 Cleaner – 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 Saddle Clamp System

Ensures safe, secure drilling of pipes and tubular material



Ideal for applications requiring the flexibility of clamping on pipes from 3-1/4" to 20" diameter. These pipe clamp systems are flexible and easy to use. Swivelling V-blocks fit the contour of the pipe while the heavy-duty tension chains securely affix the clamps to the piece being drilled. The drilling position can be easily and safely adjusted.



PIPE SADDLE CLAMP



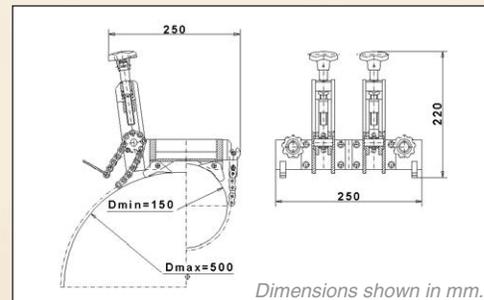
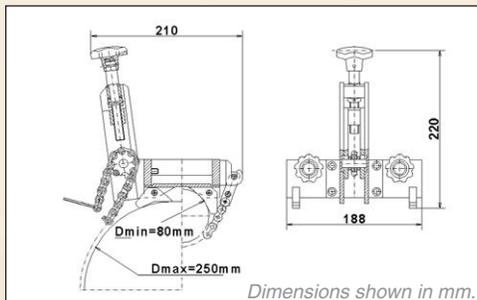
ZRO 250 Pipe Saddle Clamp System

Pipe diameters 3¹/₄" - 10"
Chain length: 35¹/₂"
For models: MABasic 200, MABasic 400, MABasic 450, MAB 455, MAB 485 and CSU 32RL



ZRO 500 Pipe Saddle Clamp System

Pipe diameters 6" - 20" (extension chain available)
Chain length: 65"
For models: MAB 525, MAB 825, MAB 845, CSU 50 Series, CSU 100/3RL, AB-4300-2 and HB 4400



Order No. **ZRO 001** – extension chain for ZRO 500 pipe saddle clamp.

Multi-Purpose Beveling Machine

Bevel, deburr & chamfer edges of steel plate faster and cleaner than angle grinders

The EKF multi-purpose beveling machine is designed to bevel 30° or 45° weld seams on steel, stainless steel, nonferrous metals, brass and plastics. It can also be used to deburr and chamfer; straighten edges, internal and external radii; and countersink holes from 7/8" diameter.

- Fine adjustment feature for slight chamfers when deburring for the preparation of weld seams
- Four milling head options – 30°, 45°, 0.063" (1.6mm) and 0.098" (2.5mm) radius inserts available
- Ideal for the following applications: **Moldmaking** (straighten edges, internal and external radii and countersink holes from 7/8" dia.); **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)



Fine adjustment
Precise control of chamfer when deburring for weld seam preparation

One Machine, Three Milling Options

30°  EKF300.3 Milling cutter 30°, Chamfer 0 - 1/4"	45°  EKF450.3 Milling cutter 45°, Chamfer 0 - 1/4"	Radius  0.063" (1.6mm) 0.098" (2.5mm)
--	---	---

Cutting Inserts – Sold as pack of 10
 Order No. **SHM 200:** 30° and 45°
 Order No. **SHM 200-E:** 30° and 45° for stainless steel
 Order No. **SHM 202:** 2.5mm radius (0.098")

Cutting Inserts - Sold individually
 Order No. **SHM 201:** 1.6mm radius (0.063")

Portable Beveler Specifications

Part Number:	EKF 300.3	EKF 450.3	EKF452.3
Beveling angle*	30°	45°	2.5mm
Bevel width (max.)**	1/4"	1/4"	1/4"
Motor power/Voltage	13.5 Amp / 110V (220 V / 50 Hz also available)		
Cutting Speed	3000 SFPM		
Cutting Inserts	3		
Dimensions (L x W x H)	12-1/2" x 5-1/2" x 11-5/8"		
Weight	10.5 lbs.		

* EKF milling heads are interchangeable.

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



Standard equipment
 includes milling head and three inserts, SW22 key, carrying case and user's manual. Please see our Price List for available accessories.

Portable Beveling Machine

Bevel angles from 15° to 60° on plate and pipes

CS Unitec's SKF 025 Beveling Machine provides fast and easy preparation of weld seams and bevels 15° to 60° angles on plate or pipe. It is ideal for use on steel, stainless steel, aluminum and nonferrous metals and offers high-quality performance that allows for superior weld connections.

- Continuously adjustable angle (15° to 60°) and land width up to 3/4"
- Robust design, single operator control and easy handling; designed for continuous operation with smooth roller guides
- Anti-vibration system protects electronics and allows for more comfortable operation
- Includes one milling head and 10 indexable inserts for fast metal removal and extended tool life
- 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



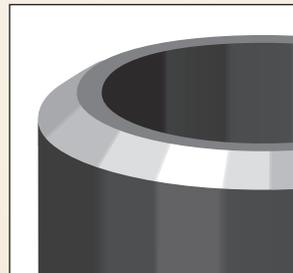
SKF 025

Portable Beveler Specifications

Part Number: SKF 025

Beveling angle	15° - 60°
Bevel width (max.)**	3/4"
Motor power	10 Amp
Voltage	110V (220V / 50 Hz also available)
Cutting speed	1800 SFPM
Cutting inserts	10
Dimensions (L x H)	16-1/2" x 13"
Weight	43 lbs.

** Max. bevel width may require several passes, depending on material hardness. Steel case intended mainly for shipping purposes; damage may occur in transit.



Single-operator, straightforward handling

Precise roller guidance, low friction resistance

Ideal for beveling pipe 6.25" OD and larger

Cutting Plates - Sold as pack of 20
Order No. **SHM 800**: for beveling carbon and stainless steel

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.

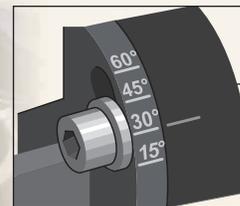
Self-Guiding Beveling Machine

Powerful, automatic edge processing machine for 15° to 60° edges on plate up to 1-1/2" thick



CS Unitec's AutoCUT 500 Self-Propelled Beveling Machine provides fast and easy preparation of weld seams and bevels 15° to 60° angles on plate up to 1-1/2" thick. The unit propels itself on the plate – both forward and backward – without the need for a cart or stand. It is ideal for use on steel, aluminum and nonferrous metals and offers high-quality performance that allows for superior weld connections.

- Continuously adjustable angle (15° to 60°) and land width up to 1-3/16"
- Robust design, single operator control and easy handling
- Automatic feed on plate without the need for a cart or stand
- Includes one milling head and 6 indexable inserts for fast metal removal and extended tool life



Continuously Adjustable Beveling Angle

Bevel 15° to 60° angles and land width up to 1-3/16" on plate up to 1-1/2" thick.



Reversible Carbide Cutting Inserts

Round inserts provide more useable edges per inserts

Automatic Edge Processing Machine Specifications

Part Number: AutoCUT 500	
Beveling angle	15° - 60°
Bevel width (max.)**	1-3/16"
Motor power	10 Amp
Voltage	230V, 3- phase
Cutting speed	2750 SFPM
Cutting inserts	6
Dimensions (L x W x H)	23-1/2" x 24" x 20-1/2"
Weight	110 lbs.

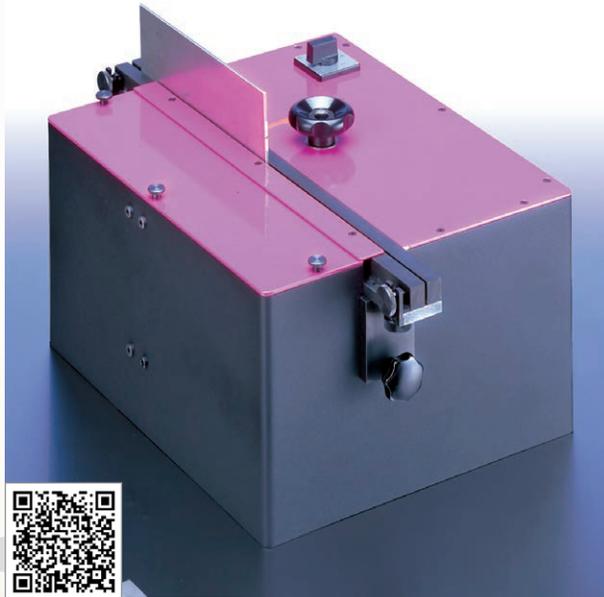
** Max. bevel width may require several passes, depending on material hardness.

Cutting Plates - Sold as pack of 20
Order No. SHM 400: for beveling carbon and stainless steel

Standard equipment includes one milling head, 6 sintered carbide reversible cutting inserts, 1 jaw spanner (M 19), 1 t-handle screwdriver (WS 5), 1 offset screwdriver (WS 6, 8 & 10), 1 screwdriver (TX 15), 1 inlet rail, 1 outlet rail, carrying case and user's manual. Please see our Price List for available accessories.

Sheet Metal Deburring Machine

Double-sided deburring of sheet metal up to 0.2" thick in one pass – with no additional treatment



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

Features two-speed operation:

- Speed 1: fine deburring, 600 RPM
- Speed 2: standard deburring, 1200 RPM

Optional accessories:

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

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



ROLEI BE 5 Specifications

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

3-phase motor 220 V 3-phase / 2 speeds
.2 KW / .9 Amp
380 V 3-phase / 2 speeds
.2 KW / .45 Amp

Dimensions 19.7" x 12.8" x 7.9"

Weight 64 lbs.

Options Machine stand, dust extractor connection port, teflon tape

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 – P/N: 30320
Strong steel machine stand with black powder coating



Dust extraction port (end and bottom views shown above)
P/N: 30330



Teflon protective tape – self-adhesive (2 required)
P/N: 30341 (27.5" length x 3/4" width)
For extension rail to protect from scratching the workpiece

Electric Drills and Drive Units

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



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 1 1/4" capacities to protect operator and tool
- Drilling capacities up to 1 1/4" in steel
- Special OEM motors available on request
- One-year warranty

Model No.	Motor Power (Amps)	Voltage*	Load Speed (RPM)	Drilling Capacity in Steel	Max. Torque Output (ft./lbs.)	Reversible	Chuck/Arbor	Weight (lbs.)
EHB 16/1.4 S	7.3	110V	0-500	5/8"	12	NO	5/8" Keyless	6.8
EHB 16/1.4 S R/L	9.6	110V	0-450	5/8"	19	YES	5/8" Keyless	7
EHB 16/2.4 S R/L C	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**	20	110V	80/130/360/570	–	203	YES	MT3	19.5
EAU 36/4 R R/L† 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 available with control box (on/off, reverse) – order Model. No. EAU 34/4 CB

† EAU 36/4 R R/L available with control box – order Model. No. EAU 36/4 R R/L CB Special Motors available upon request.

Electric Drills and Drive Units

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

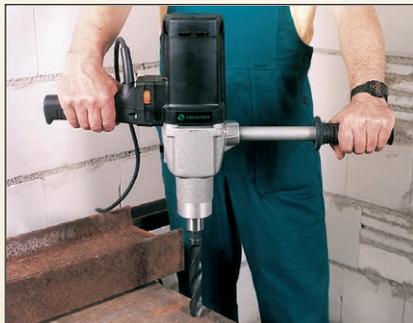


Model ETE 32/2.3 R/RL
(shown with optional Square Drive adapter)

- 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



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



Up to 1¹/₄" twist drill capacity

1¹/₂" and 3³/₄" Square Drive accessories allow motor compatibility for various drive applications. *



Model No.	Motor Power (Amps)	Voltage**	Load Speed (RPM)	Drilling Cap. 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	92 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 2¹/₂" with Bead Roller)

* 1¹/₂" Square Drive with MT3 – Part No. 830-1230-050

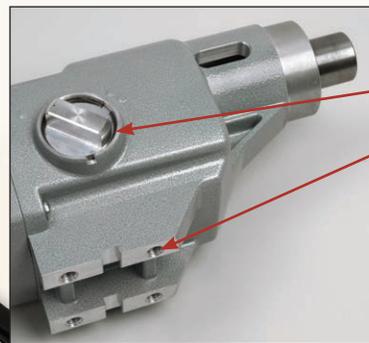
3³/₄" Square Drive with MT3 – Part No. 830-1230-075

Special Electric Motor Options

High-torque, reversible electric drill motors for custom applications



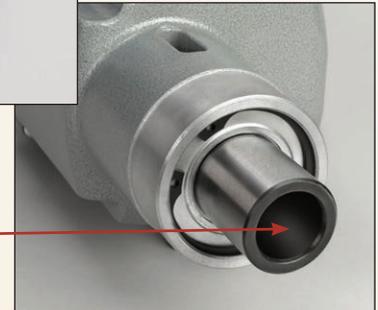
Control Boxes with On/Off, Variable Speed



**Gear Selection Knob
Holes for Mounting
(Model EAU 34/4 only)**

Driving applications include mills, spindles, bar boring, tube rolling, valve turning and more.

**Spindle Options:
MT2 / MT3
Square Drive
or Threaded**



Custom Design Options Include:

- ✓ **Forward/Reverse**
- ✓ **Variable Speeds**
- ✓ **Multiple Gears**
- ✓ **Spindle: MT or Special**
- ✓ **Multifunctional Control Boxes or Handles**
- ✓ **1/2 to 4 HP**
- ✓ **Modular Design**

Contact us today to configure the motor that meets your specific driving applications.



**Forward/Reverse Control
Electronic Torque Control
Variable-speed Dial**

Custom-Engineered Machines

Design a custom machine for your specific needs

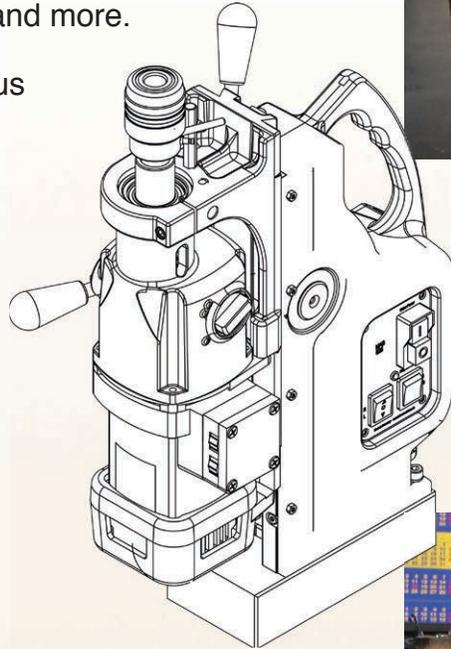
Unusual applications require unique solutions. We can help you build custom drills for a wide variety of applications. With our considerable experience building custom drills, our engineers can assist you to create machines that can drill on uneven surfaces, in various directions, and more.

We enjoy a challenge! Contact us today for a professional solution for your unique application. Our capabilities include:

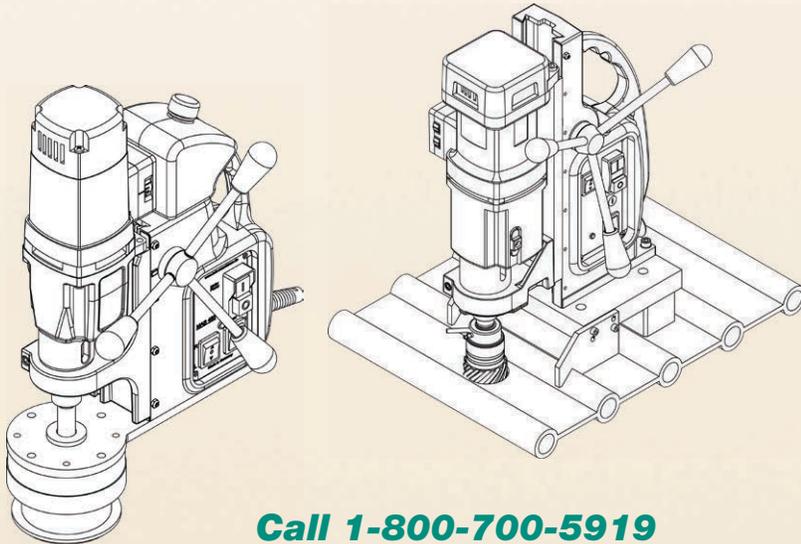
- In-house CAD design
- Prototype construction
- Manufacturing of special accessories

Custom Machine Options Include:

- ✓ **Reverse Drilling**
- ✓ **Alternative Mounting Configurations**
- ✓ **Magnet Variations**
- ✓ **Motor Customization**
- ✓ **Adjustable Drilling Depth**



Machine rendering above shows reverse-mount motor for drilling upside down.



**Call 1-800-700-5919
for design assistance.**



Pneumatic Drills and Drive Units

High-torque reversible drilling and tapping machines



- High-torque reversible drilling, tapping and threading machines
- Ideal for drilling, reaming, tube rolling, tube expanding and tapping
- Use for special applications including 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

D-handle Drills



Model 2 1310 0010

Morse Taper Drills w/ Feed Spindle



Model 2 2089 0030 with reverse and safety twist throttle



See page 64 for Rotary Hammer Drills

Pneumatic Hammer Drills



Model 2 1266 0010

Pneumatic Pistol Drills



Model 2 1261 0010

Model No.	Motor Power (HP)	Load Speed (RPM)	Reversible	Chuck/ Arbor	Drilling Cap. in Steel	Tube Rolling Cap.	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.

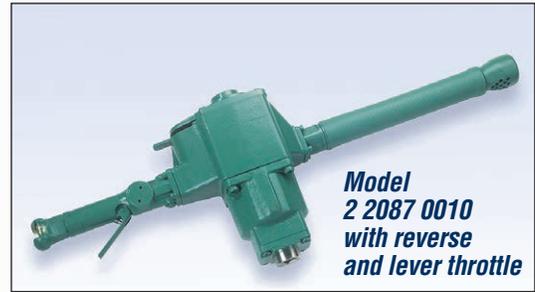
Pneumatic, electric and hydraulic: high-torque drilling, reaming and driving units



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
- 2 2089 7070 – 7/8" Male Sq. Drive to 1" 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 Cap.	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	180	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 Cap.	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 Cap. in Steel	Tube Rolling (max.)	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 Cap.	Tapping Cap.	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	20	YES	3"	1 1/2"	1.35	53	10.9" x 26.5"	29
2 2088*†	7/8"	138	60	YES	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

SDS ROTARY HAMMER DRILLS

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 – Two 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

PRV Part No. 2 2406 9700 reduces output pressure of standard hydraulic power units from 2000 PSI (140 bar) to 1160 PSI (80 bar). Included with SDS Plus Hydraulic Hammer Drill 2 2426 0010 and SDS Max Hydraulic Hammer Drill 2 2418 0020.



Pressure Reducing Valve Part No. 2 2406 9900 reduces the output pressure of larger-output hydraulic units (i.e. backhoes, large earth tractors, excavators, service trucks, etc.) from max. 5075 PSI (350 bar) to 1160 PSI (80 bar) working pressure.

Pneumatic Hammer Drill Model No.	Blows/Minute (BPM)	Drill Speed (RPM)	Solid Bit Capacity (Concrete)	Core Bit Capacity (Concrete)	Twist Drill (wood)	Power at 90 PSI	Air Consumption 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 HP	21 CFM	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.	0.7 HP	21 CFM	SDS Plus	16 x 8 1/2 x 4	11
2 2404 0030*	0-3000	0-625	1" dia.	3" dia.	3/4" dia.	0.7 HP	21 CFM	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.	1.6 HP	53 CFM	SDS Max	19 1/2 x 9.8 x 4 1/2	26

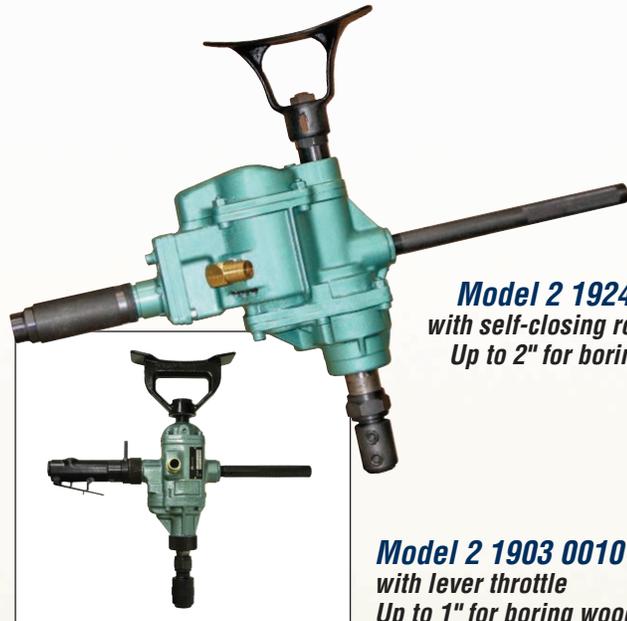
* Underwater model – Optional underwater air tool line conditioner to displace moisture, Part No. MS 9105. See page 65.

Hydraulic Hammer Drill Model No.	Blows/Minute (BPM)	Drill Speed (RPM)	Solid Bit Capacity (Concrete)	Core Bit Capacity (Concrete)	Twist Drill (wood)	Power at 1160 PSI	Flow at 1160 PSI (GPM)	Tool System	Dimensions (inches)	Weight (lbs.)
2 2426 0010	0-3400	0-625	1" dia.	3" dia.	3/4" dia.	0.8 HP	5.8-13.2	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 HP	2.6-13.2	SDS Max	19 1/2 x 11 1/8 x 7 1/2	37
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

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"

	Model 2 1903 0010	Model 2 1924 0010	Model 2 1932 0010
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	50 CFM	50 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



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.

MS 9105 – 1 quart/liter



Nut Runners - High Torque

ATEX

PNEUMATIC AND HYDRAULIC NUT RUNNERS

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



3 6339 4910 – 1/2" Male Square Drive with retaining hole (included with model numbers 6 1014 0099, 6 1055 0099 and 6 1056 0099)



6 1018 7940 – 1/2" Male Square Drive with retaining pin



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 (inches)	Length (inches)	Weight (lbs.)	Air Conn-ec-tion (inches)	Hose ID (inches)
6 1014 0075*	3/4" M	95	200	100	0.9	46	1	22	11	NPT 3/8	1/2
6 1014 0099	1/2" M	95	200	100	0.9	46	1	22	11	NPT 3/8	1/2
6 1055 0075*	3/4" M	405	40	22	0.9	46	1	21	10	NPT 3/8	1/2
6 1055 0099	1/2" M	405	40	22	0.9	46	1	21	10	NPT 3/8	1/2
6 1056 0075*	3/4" M	133	120	67	0.9	46	1	21	11	NPT 3/8	1/2
6 1056 0099	1/2" M	133	120	67	0.9	46	1	21	11	NPT 3/8	1/2
6 1057 0075*	3/4" M	73.5	250	125	0.9	46	1	21	11	NPT 3/8	1/2
6 1057 0099	1/2" M	73.5	250	125	0.9	46	1	21	11	NPT 3/8	1/2
6 1061 0010	7/8" F	405	40	22	0.9	46	1	21	11	NPT 3/8	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	Free Speed (RPM)	Load Speed (RPM)	Power (HP)	Oil Flow (GPM)	Oil Pressure (PSI)	Side to Center Distance (inches)	Length (inches)	Weight (lbs.)	Conn-ec-tion 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

Dry Cutting Circular Saws – Pneumatic

Air power ideal for foundries, petrochemical, marine, demolition and fabrication applications

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

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



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

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

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
Weight	19 lbs.

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

9" dia. Air Saw for 90° and 45° Cuts

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



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

Order No. 5 1115 0020

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

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

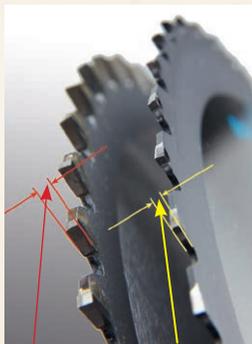
Dry Cutting TCT Saw Blades

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

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

* Standard with Model 5 1115 0020 Pneumatic Metal Saw.



Standard blade .073" (1.85mm) thickness

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



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

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

12-5/8" dia. Air Circular Saw

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



- Cut I-beams, 3/8" thick steel plate, insulation boards, sandwich panels, aluminum, plastics and more
- Suction nozzle and internal chip collector for clean operation
- D-handle design with inside trigger and safety lock button to prevent accidental starting
- 12-5/8" max. blade capacity

Order No. 5 1117 0020

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

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

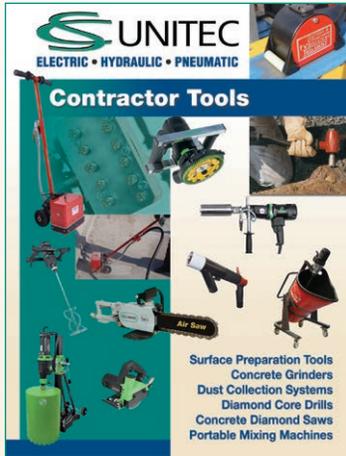
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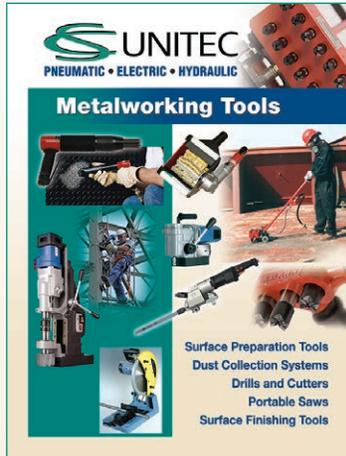
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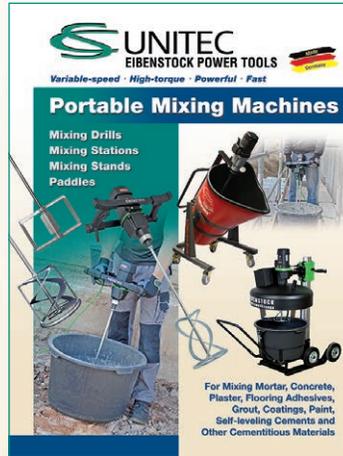
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Concrete Grinders
Dust Collection Systems
Diamond Core Drills
Concrete Diamond Saws
Portable Mixing Machines



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Metalworking Tools

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Dust Collection Systems
Drills and Cutters
Portable Saws
Surface Finishing Tools

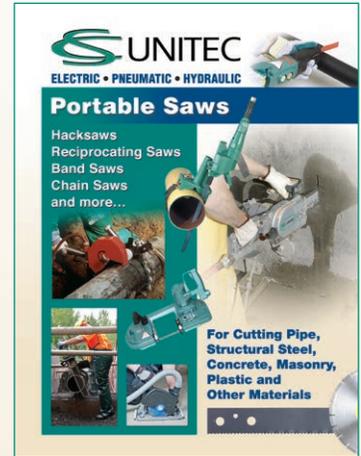


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Chain Saws
and more...

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Metalworking Tools:

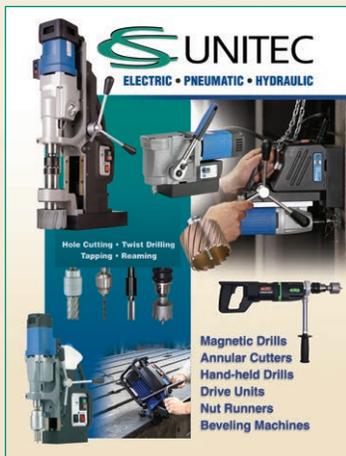
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Portable Saws:

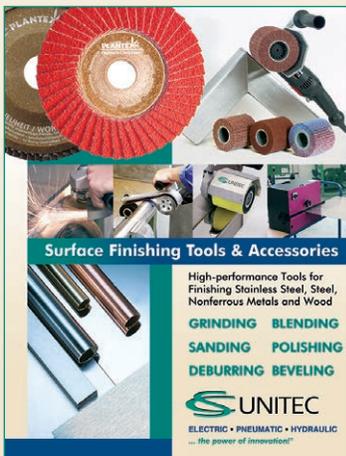
Hacksaws, Reciprocating Saws, Band Saws, Chain Saws, Cut-off Saws and more



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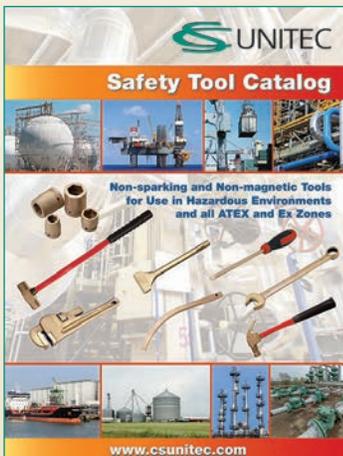


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Hammer Drills and more

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