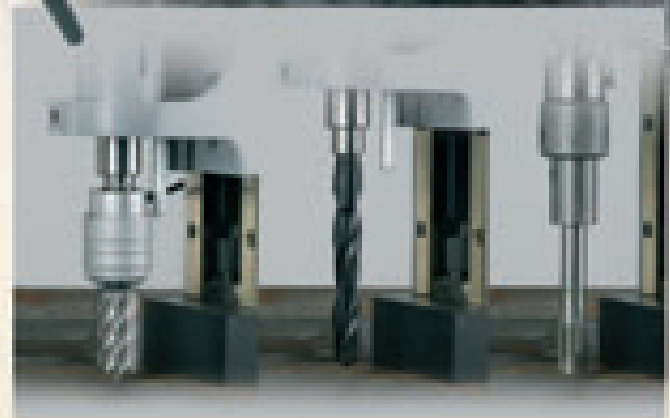
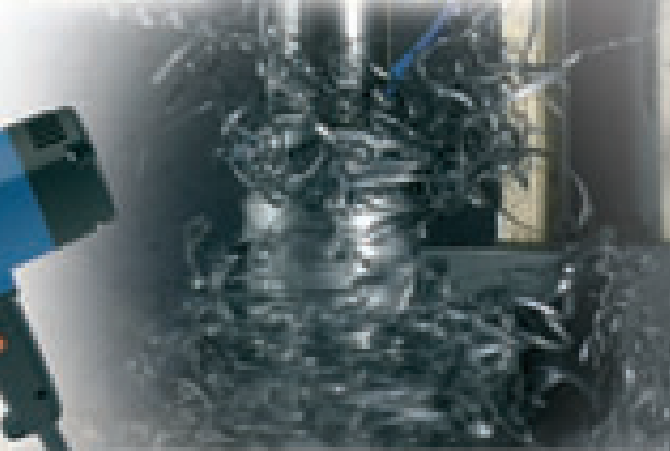
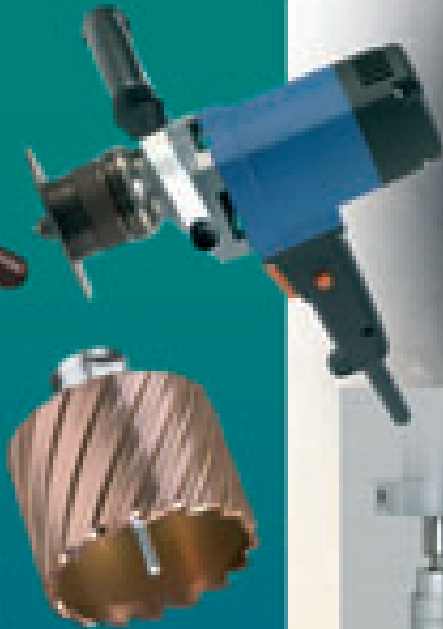




UNITEC

ELECTRIC • PNEUMATIC • HYDRAULIC



**Hole Cutting
Twist Drilling
Tapping
Reaming
Countersinking**



**Magnetic Drills
Annular Cutters
Hand-held Drills
Drive Units
Nut Runners
Hammer Drills
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:

- Variable-speed, multiple-gear models
- Electric, pneumatic and hydraulic power
- Reversible motors for tapping and machining
- Swivel base stand for hard-to-reach areas

Rugged construction and sophisticated functionality.



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

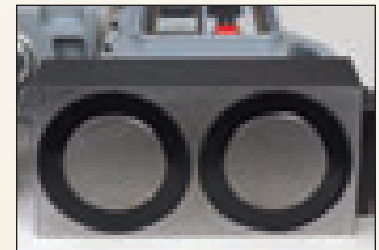
Intuitive magnets, ergonomic controls and simple operation for superior cuts.

Overheating Protection with CoolMag

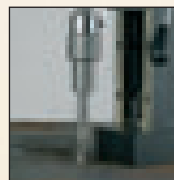
COOLMAG™ Electromagnets

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.

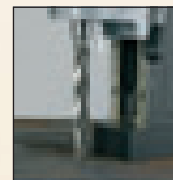
CS Unitec high-density dual-coil magnets are ground, not cast, and are wound into two circles to increase the surface area and density of the magnetic field.



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 49 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

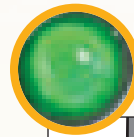
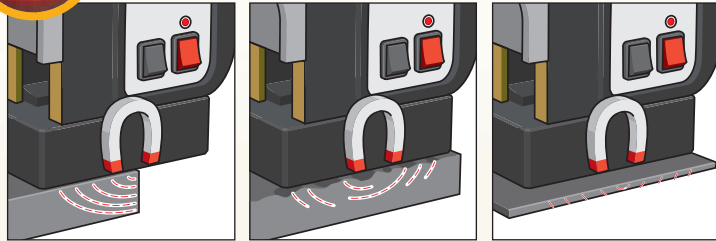
SafeMag System

Electronic Safety Shutoff Sensor

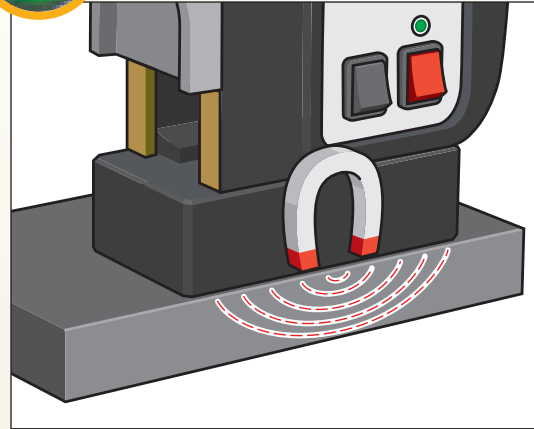
The **SAFEMAG™ System** measures whether the magnet has sufficient adhesive force on the material. An LED indicator on the switch panel warns you of insufficient magnetic force (**Red Light**) or tells you if the correct force is present (**Green Light**).



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.

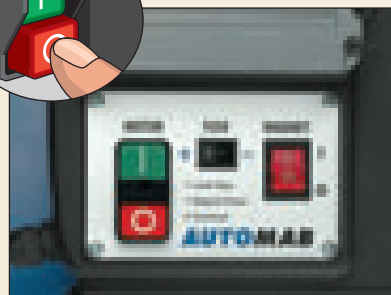
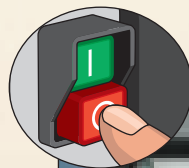
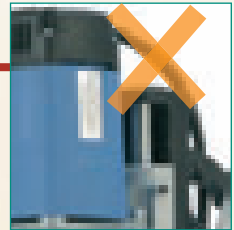


Our **Electronic Safety Shutoff Sensor** automatically shuts down the drill motor if the magnet loses contact with the material. This emergency-off feature helps to protect both operator and equipment.

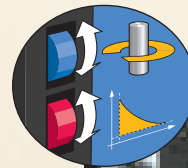
Integrated cable routing: MAB Series

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.

Tool and Accessory Index

Portable Magnetic Drills

p. 8-31



MDM 40 p. 8
 ø 1-1/2" cutter capacity



MAB 150 p. 10
 ø 1-1/2" cutter capacity
 For drilling in tight spaces



MAB 425 p. 12
 ø 1-3/8" cutter capacity
 ø 5/8" twist drill capacity



MAB 455 p. 14
 ø 2" cutter capacity
 ø 7/8" twist drill capacity
 2 speeds



MAB 485 p. 16
 ø 2" cutter capacity
 ø 7/8" twist drill capacity
 ø 15/16" tapping capacity
 Reversible, 2-gear motor



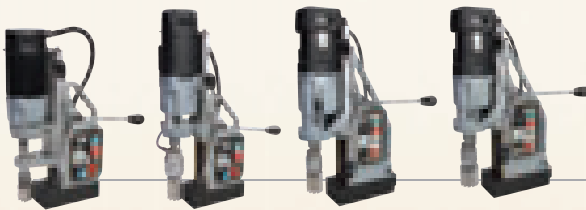
MAB 525 p. 18
 ø 2-1/2" cutter capacity
 ø 1" twist drill capacity
 ø 15/16" tapping capacity
 Reversible, 2-gear motor



MAB 825 & 845 p. 20
 ø 4" cutter capacity
 ø 1-1/4" twist drill capacity
 ø 1-1/8" tapping capacity
 Swivel base (MAB 845)
 Reversible, 4-gear motor



MAB 1300 p. 22
 ø 5-1/8" cutter capacity
 ø 1-3/4" twist drill capacity
 ø 1-5/8" tapping capacity
 Reversible, 4-gear motor
The ultimate in power



AutoMAB 1500 p. 25
 ø 1-1/2" cutter capacity
 Automatic feed

CSU Series p. 26-29
 ø 1-1/4" to 4" cutter capacity
 Reversible for tapping



AIRBOR™ AB-4300 p. 30
 Pneumatic power
 ø 2-1/16" cutter capacity
 ø 1/2" twist drill
 ATEX for hazardous environments



HB-4400 p. 31
 Hydraulic power
 ø 2-1/16" cutter capacity
 ø 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. 32-39



HSS Unibroach® p. 34-35

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



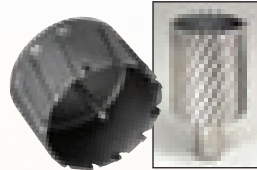
TiAIN ARMOR-PLATED Unibroach™ p. 36-37

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



TCT Hornet p. 38-39

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



Cobalt/Large-dia. Cutters p. 38

Cobalt Cutters
Large-diameter Cutters

Accessories

p. 40-48



Lubricants p. 40

Pilot Pins, Drill Chucks and Tapping Tools p. 40-41

Arbors and Extensions p. 42-43

Power Assist p. 42

Countersinks, Drill/Taps and Chip Guard p. 43

Drilling Starter Kits p. 44

Power Worker Magnetic Stick p. 44

MOBIL CLAMP p. 45

Convert magnetic drilling machine to bench drill

Drilling Stand and Vise p. 46

Convert hand drill to drill press

Vacuum Plates p. 47

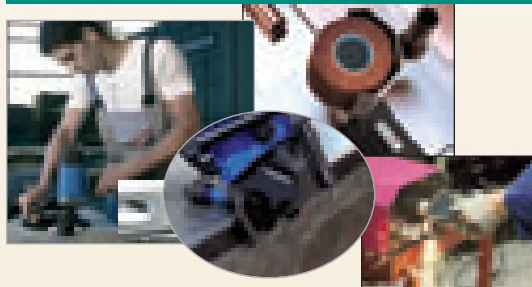
For channeled plates and smooth surfaces

Pipe Saddle Clamp System p. 48

Safe, secure drilling of pipes and tubular material

Beveling, Deburring, Faceting and Finishing Machines

p. 50-52



EKF Multi-purpose Beveling Machine p. 50

SKF Portable Beveling Machine for Plates and Pipes p. 51

PTX Eco Smart Linear Grinding System p. 52

ROLEI® BE 5 Sheet Metal Deburring Machine p. 52

Custom Machines & Motors, Hand-held Drills, Drive Units and More

p. 49, 53-61



Custom-engineered Machines p. 49

Electric, Slow-speed Electric p. 53-54

Electric Drive Units/Special Motors p. 55

Pneumatic Drills/Drive Units p. 56

Pneumatic/Hydraulic Corner Drills p. 57

Pneumatic/Hydraulic Rotary Hammers p. 58

Pneumatic Woodboring Drills p. 59

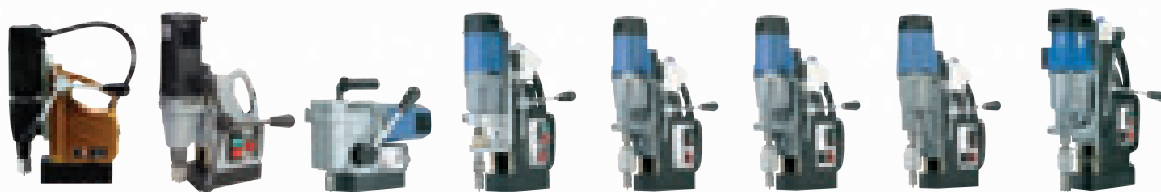
Pneumatic/Hydraulic Nut Runners p. 60

Pneumatic/Hydraulic Drive Units p. 61




Electric and Pneumatic Dry Cutting Saws p. 62

Surface Preparation Equipment p. 63

Magnetic Drill Comparison Chart



PORTABLE MAGNETIC DRILLS

	P1	MDM 40 <i>Page 8</i>	MAB 150 <i>Page 10</i>	MAB 425 <i>Page 12</i>	MAB 455 <i>Page 14</i>	MAB 485 <i>Page 16</i>	MAB 525 <i>Page 18</i>	MAB 825 MAB 845 <i>Page 20</i>
Annular Cutters Diameter (ø)	up to ø 1-3/8"	up to ø 1-1/2"	up to ø 1-1/2"	up to ø 1-3/8"	up to ø 2"	up to ø 2"	up to ø 2-1/2"	up to ø 4"
Twist Drills Diameter (ø)	up to ø 1/2"			up to ø 5/8"	up to ø 7/8"	up to ø 7/8"	up to ø 1"	up to ø 1-1/4"
Tapping Diameter (ø)						up to ø 15/16"	up to ø 15/16"	up to ø 1-1/8"
Countersinking Diameter (ø)						up to ø 1-9/16"	up to ø 2"	up to ø 2"
Reaming Diameter (ø)						up to ø 3/4"	up to ø 7/8"	up to ø 1-1/4"
Stroke	6-1/3"	3-1/8"	1"	6-1/3"	6-1/3"	6-1/3"	6-1/3"	10"
Weight	26-1/2 lbs.	24 lbs.	24 lbs.	29 lbs.	29 lbs.	29 lbs.	35 lbs.	55 lbs.
Speed Range 1 (RPM)	400	440	400	430	250	50-250	70-280	40-110
Speed Range 2 (RPM)				760	450	100-450	180-580	65-175
Speed Range 3 (RPM)								140-360
Speed Range 4 (RPM)								220-600
						✓	✓	✓
						✓	✓	✓
				✓	✓	✓	✓	✓
Electronic Safety Shutoff Sensor	✓			✓	✓	✓	✓	✓
Tool Holder	Set Screw	Set Screw	Set Screw	Set Screw	Quick-change keyless	Quick-change keyless	Quick-change keyless	Quick-change keyless
Morse Taper (MT)					MT2	MT2	MT3	MT3
Safety Friction Clutch								✓
Torque Control							✓	✓
Swivel Base								✓
Magnet Size	6-5/8" x 3-1/3"	6-1/2" x 3-1/4"	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"	8-5/8" x 4-1/3"



MAB 1300 Page 22	AIRBOR™ Page 30	HB 4400 Page 31	AutoMAB 1500 Page 25	CSU 32AC CSU 32RL Page 26	CSU 50AC CSU 50RL Page 27	CSU 80AC Page 28	CSU 100/3 Page 29	Special Features
up to ø 5-1/8"	up to ø 2-1/16"	up to ø 2-1/16"	up to ø 1-1/2"	up to ø 1-1/4"	up to ø 2"	up to ø 3-3/16"	up to ø 4"	Max. hole diameter up to 5-1/8"
up to ø 1-3/4"	up to ø 1/2"	up to ø 1/2"		up to ø 1/2"	up to ø 7/8"	up to ø 1-1/4"	up to ø 1-1/4"	Max. twist drilling up to 1-3/4"
up to ø 1-5/8"				up to ø 3/4" (CSU 32RL only)	up to ø 15/16" (CSU 50RL only)		up to ø 1-1/8"	Max. tapping up to 1-5/8"
up to ø 3"								
up to ø 2"								
3.35" (12" w/out retainer)	up to 10-1/4"	3-3/4"	3"	5-3/4"	6"	10"	10"	
112 lbs.	43 lbs.	48-1/2 lbs.	37-1/2 lbs.	24 lbs.	29 lbs.	57 lbs.	57 lbs.	
30-80	400	0-630	360	450	250	100	40-140	Pneumatic Hydraulic
50-120					450	175	120-480	
130-350						245		
210-550						385		
✓				✓ (CSU 32RL only)	✓ (CSU 50RL only)		✓	Allows thread cutting
✓				✓	✓	✓	✓	Overheating protection
✓				✓	✓	✓	✓	Magnet adhesion indicator
✓				✓	✓	✓	✓	Shuts down motor if magnetic contact lost
Set Screw	Set Screw	Set Screw	Set Screw	Set Screw	Quick-change keyless	Quick-change keyless	Quick-change keyless	
MT4					MT2	MT3	MT3	
✓								
✓			✓	✓	✓	✓	✓	
								Swivel base through 30° and 3/4"
14" x 4-3/4"	8-3/4" x 3-1/2"	7-1/4" x 3"	7-1/8" x 3-1/2"	6-5/16" x 3-1/4"	6-1/2" x 3-1/2"	9" x 4-3/8"	9" x 4"	

PORTABLE MAGNETIC DRILLS



Cutter capacity
1 1/2" dia.

MDM 40

Heavy-duty compact hole drilling machine with internal cable routing

Powerful • Reliable

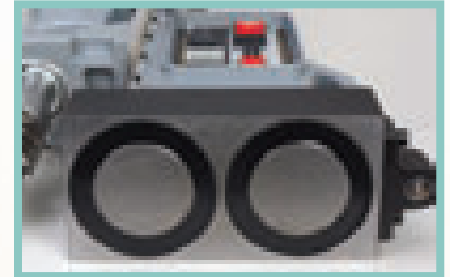
- 9.25 Amp double-insulated motor
- Compact, 13" high
- Lightweight, 24 lbs.
- Designed for continuous use
- Intelligent electronic torque control

Drill up to 1-1/2" dia.

- Uses annular cutters
- Integrated cutting oil reservoir
- Automatic internal lubrication

Special Feature

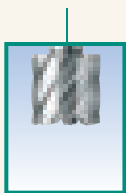
- Internal cable routing protects the motor power cord from external damage



All 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.



Cutter Capacity



ø 1 1/2"

Stroke (length)



3 1/8"

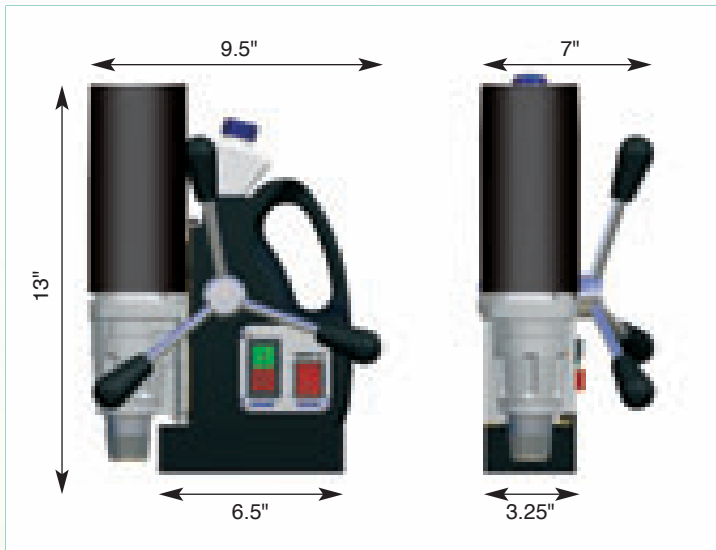
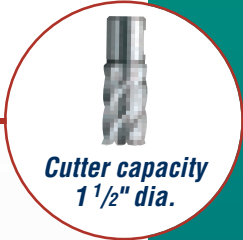
Speed Range (RPM)



440

► Annular Cutters: pages 32-39 ► Accessories: pages 40-48

MDM 40 Specifications



Model MDM 40

Model MDM 40 Specifications

Motor Power	9.25 Amp / 110 Volt
Weight	24 lbs.
Hole Capacity	1 1/2" dia.
Speed	440 RPM
Magnet Base Size	6 1/2" L x 3 1/4" W
Dimensions	13" H x 9 1/2" L x 7" W
Magnetic Force (1" plate)	2640 lbs.
Arbor Bore	3/4"
Automatic Lubrication	Included

* 220 Volt / 50 Hz also available

Standard Equipment

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



Standard Equipment
also includes auto lubrication, safety strap, carabin hook, gloves, safety glasses, ear protection and allen keys.

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



PORTABLE MAGNETIC DRILLS

➤ [Annular Cutters: pages 32-39](#) ➤ [Accessories: pages 40-48](#)



Cutter capacity
1 1/2" dia.

MAB 150

Horizontal motor mount for drilling in tight spaces

Powerful • Reliable

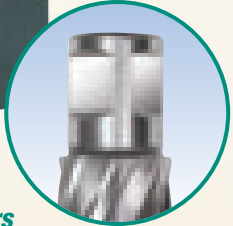
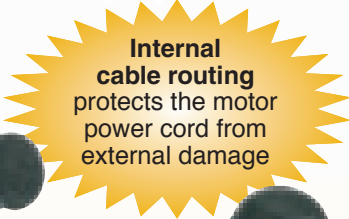
- 9.25 Amp double-insulated motor
- Ultra compact, 7" high
- Lightweight, 24 lbs.
- Designed for continuous use
- Intelligent electronic torque control

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

- Uses annular cutters
- Integrated cutting oil reservoir
- Automatic internal lubrication

Integrated Safety

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



MAB 150 uses standard 3/4" shank annular cutters



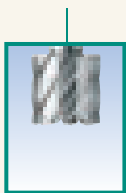
Automatic internal lubrication with pressure pump bottle

* Model MAB 150 accepts cutters with a 3/4" weldon shank and a maximum depth of cut of 1".

Optional ratchet-style advancing mechanism for work in spaces with limited clearance. (14mm square drive)



Cutter Capacity



ø 1 1/2"

Stroke (length)



1"

Speed Range (RPM)



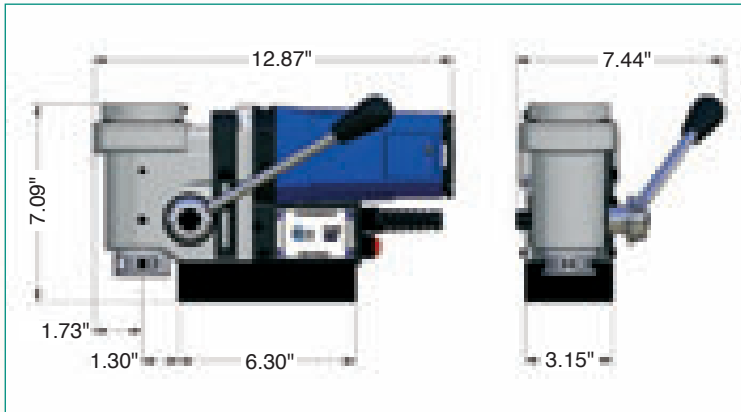
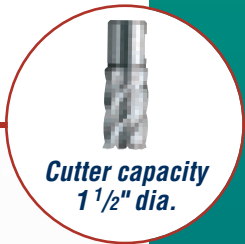
400



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

► Annular Cutters: pages 32-39 ► Accessories: pages 40-48

MAB 150 Specifications



Model MAB 150

Model MAB 150 Specifications

Motor Power	9.25 Amp / 110 Volt
Weight	24 lbs.
Hole Capacity	1 1/2" dia.
Speed	400 RPM
Magnet Base Size	6 ⁵ / ₁₆ " L x 3 ³ / ₁₆ " W
Dimensions	7" H x 12 ⁷ / ₈ " L x 7 ¹ / ₂ " W
Magnetic Force (1" plate)	2640 lbs.
Arbor Bore	3/4"
Automatic Lubrication	Included

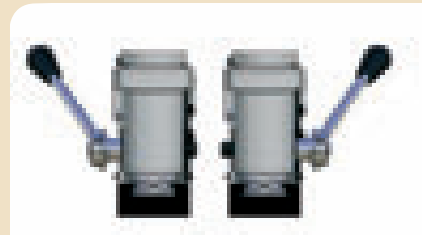
* 220 Volt / 50 Hz also available

Standard Equipment

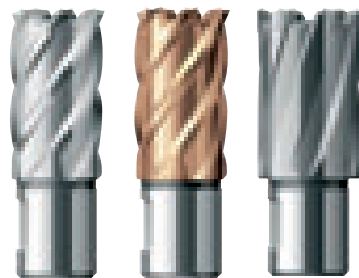
- 1 Magnetic drilling machine
- 1 Pilot pin
- 1 Steel shipping case[†]
- 1 Safety chain
- 1 Hexagon socket screw key SW 4
- 1 Operating manual
- 1 Warranty certificate

Standard Equipment also includes auto lubrication, safety strap, carabin hook, gloves, safety glasses, ear protection and allen keys.

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



Advancing lever can be mounted on either the left or right side of the MAB 150.



Model MAB 150 accepts cutters with 3/4" weldon shank. This unit has a maximum depth of cut of 1".

See pages 32-39 for our HSS, TiAIN and Carbide-tipped cutters.

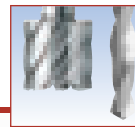


➤ [Annular Cutters: pages 32-39](#) ➤ [Accessories: pages 40-48](#)



Cutter capacity
1 3/8" dia.

MAB 425



High speed and two gears for cutting and twist drilling

Powerful • Reliable

- 9.25 Amp double-insulated motor
- 15-1/2" high, 29 lbs.
- High-speed, 2-speed gearbox, ideal for annular cutters and twist drills
- Designed for continuous use
- Intelligent electronic torque control

Drill up to 1-3/8" dia.

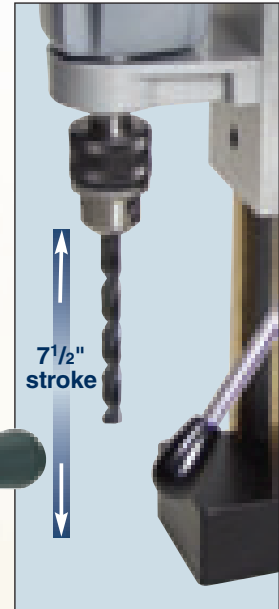
- Uses annular cutters
- Twist drilling up to 5/8" diameter with optional chuck (IBC 17)
- Integrated cutting oil reservoir
- Automatic internal lubrication

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



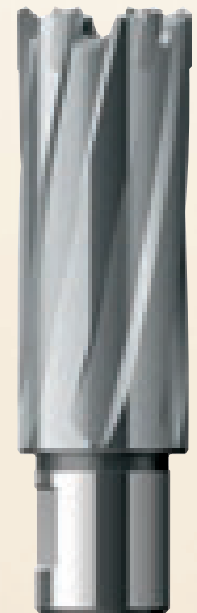
Internal cable routing protects the motor power cord from external damage



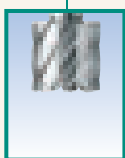
With a 1/2" chuck (Part No. IBC 17), this model easily converts to a standard drill press with a 7 1/2" stroke for conventional twist drills.

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

The high speed of the MAB 425 is a great match for the TCT Hornet series of sintered carbide annular cutters. See page 38-39 for more information.

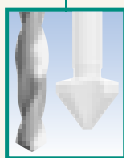


Cutter Capacity



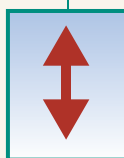
ø 1 3/8"

Twist Drill / Countersink



ø 5/8"

Stroke (length)



6 1/3"

Speed Range (RPM)



430 / 760

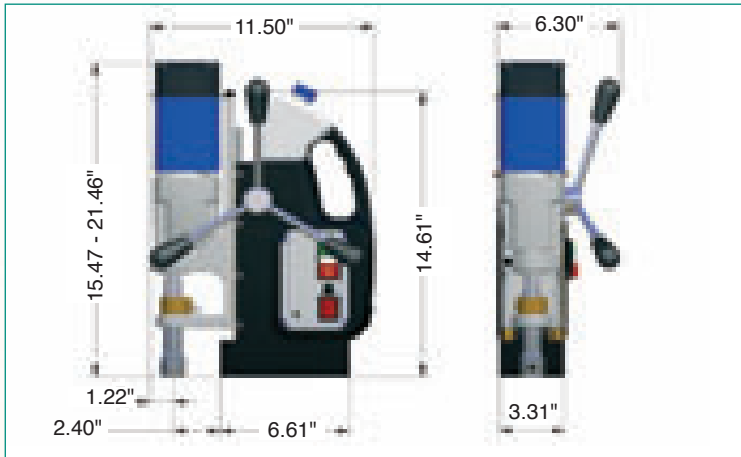
Magnet Force Indicator



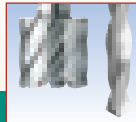
SafeMag™

► Annular Cutters: pages 32-39 ► Accessories: pages 40-48

MAB 425 Specifications



Model MAB 425



Model MAB 425 Specifications

Motor Power	9.25 Amp / 110 Volt
Weight	29 lbs.
Hole Capacity	1 ³ / ₈ " dia.
Twist Drill Capacity	5/8" dia.
Speeds	430 / 760 (2 gears)
Magnet Base Size	3 ¹ / ₃ " W x 6 ⁵ / ₈ " L
Dimensions	15 ¹ / ₂ " H x 11 ¹ / ₂ " L x 6 ¹ / ₃ " W
Magnetic Force (1" plate)	3080 lbs.
Arbor Bore	3/4"
Automatic Lubrication	Included

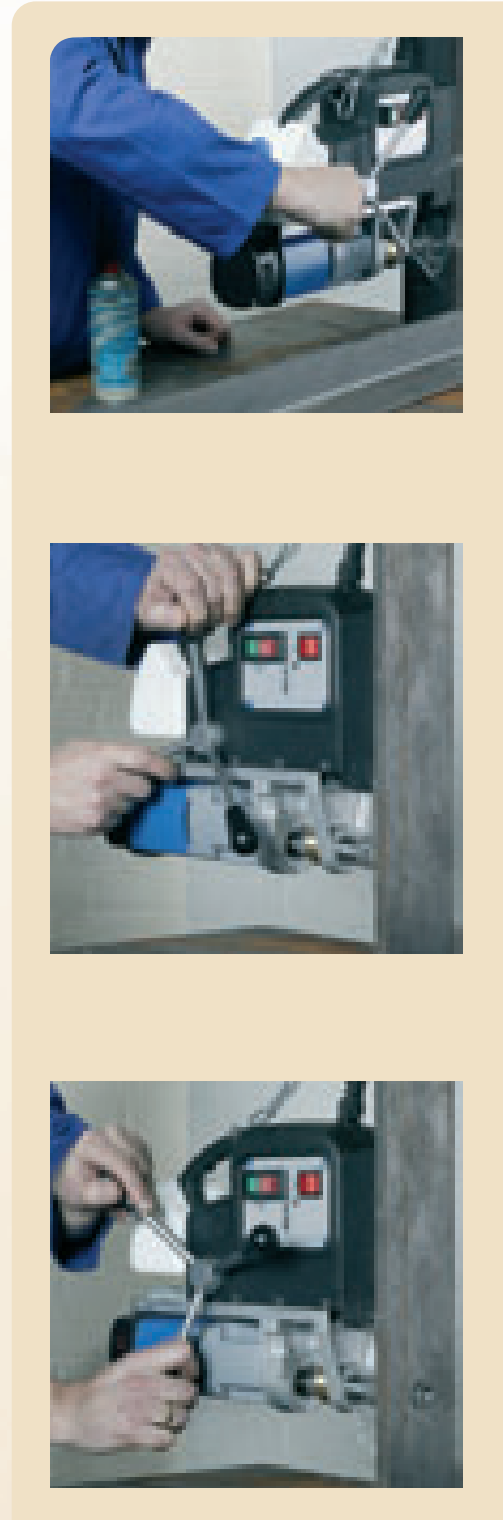
* 220 Volt / 50 Hz also available

Standard Equipment

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



Standard Equipment also includes auto lubrication, safety strap, carabin hook, gloves, safety glasses, ear protection and allen keys.



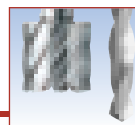
PORTABLE MAGNETIC DRILLS

➤ [Annular Cutters: pages 32-39](#) ➤ [Accessories: pages 40-48](#)



Cutter capacity
2" dia.

MAB 455



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 gearbox, ideal for annular cutters and twist drills
- Designed for continuous use
- Intelligent electronic torque control

Drill up to 2" dia.

- Uses annular cutters
- Twist drilling up to 7/8" (with optional chuck IBC 22)
- Integrated cutting oil reservoir
- Automatic internal lubrication

Keyless Cutter Mount

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

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



Internal cable routing protects the motor power cord from external damage

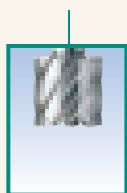


With a 3/4" chuck (Part No. IBC 22), or MT2, this model easily converts to a standard drill press with a 5" stroke for conventional twist drills.

Integrated Safety

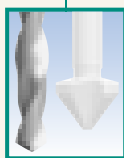
- Green/Red LED magnetic force indicator for safe operation
- Internal cable routing
- Simple, ergonomic arrangement of controls for one-handed operation
- Emergency-off function

Cutter Capacity



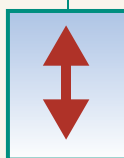
ø 2"

Twist Drill / Countersink



ø 7/8"

Stroke (length)



6 1/3"

Two-Speed (RPM)



250 / 450

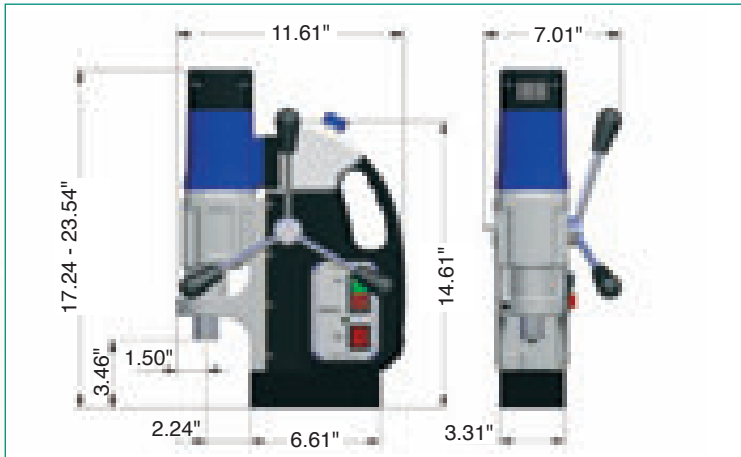
Magnet Force Indicator



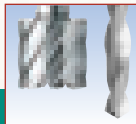
SafeMag™

► Annular Cutters: pages 32-39 ► Accessories: pages 40-48

MAB 455 Specifications



Model MAB 455



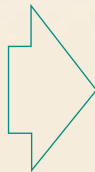
Model MAB 455 Specifications

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

* 220 Volt / 50 Hz also available

Standard Equipment

- 1 Magnetic drilling machine
- 1 Quick-change arbor system
KEYLESS Weldon 3/4"
- 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,
gloves, safety
glasses, ear
protection and
allen keys.



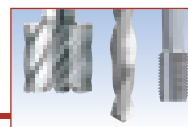
PORTABLE MAGNETIC DRILLS

➤ [Annular Cutters: pages 32-39](#) ➤ [Accessories: pages 40-48](#)



Cutter capacity
2" dia.

MAB 485



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" dia. Tap up to 15/16" dia.

- Uses annular cutters
- Twist drilling up to 7/8" dia. (with optional chuck IBC 22)
- Tapping capacity 3/16" to 15/16" dia.
- Integrated cutting oil reservoir
- Automatic internal lubrication

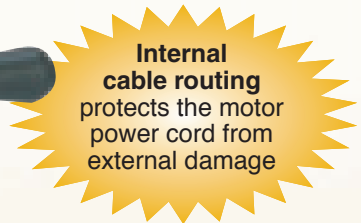
Keyless Cutter Mount

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

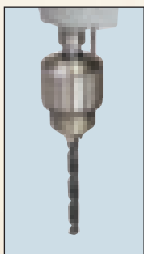


Integrated Safety

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


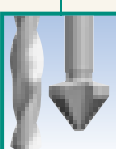
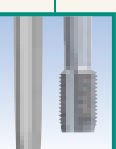



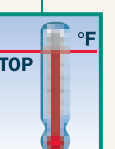




Equipped with Electronic Safety Shutoff Sensor (see p. 3)



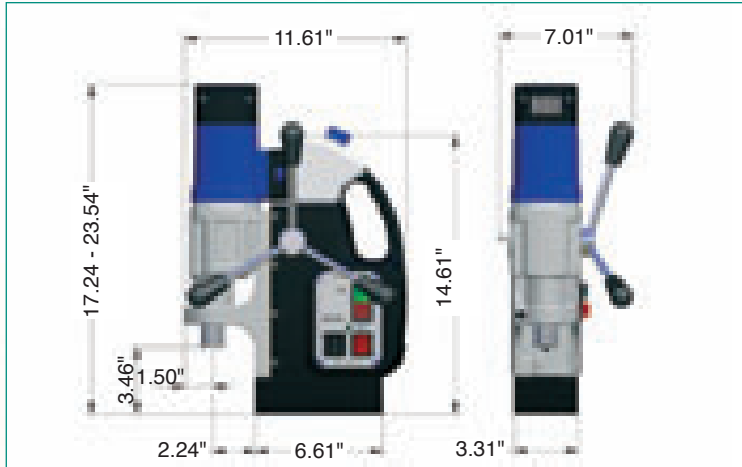
Optional Geared Chuck

With a 3/4" chuck (Part No. IBC 22), or MT2, this model easily converts to a standard drill press with a 5" stroke for conventional twist drills.

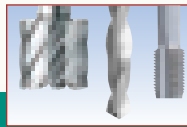
Cutter Capacity	Twist Drill / Countersink	Ream / Tap	Stroke (length)	2-gear Variable Speed (RPM)	Electronics	Overheat Protection	Magnet Force Indicator	Reversible (CW/CCW)
								
ø 2"	ø 7/8" / ø 1 9/16"	ø 3/4" / ø 15/16"	6 1/3"	50-250 100-450	Variable-speed Control	CoolMag™	SafeMag™	

► Annular Cutters: pages 32-39 ► Accessories: pages 40-48

MAB 485 Specifications



Model MAB 485



Model MAB 485 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" dia.
Speeds	50-250 and 100-450 RPM
Magnet Base Size	3 1/3" W x 6 5/8" L
Dimensions	17 1/4" H x 11 5/8" L x 7" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	3/4"
Spindle	MT2
Automatic Lubrication	Included

* 220 Volt / 50 Hz also available

Standard Equipment

- 1 Magnetic drilling machine
- 1 Quick-change arbor system
KEYLESS Weldon 3/4"
- 2 Pilot pins - 1" and 2" depth
- 1 Safety chain
- 1 Drift key MT2
- 1 Geared drill chuck with 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,
gloves, safety
glasses, ear
protection and
allen keys.



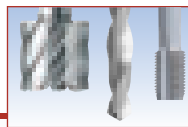
Shown with optional Pipe Saddle Clamp System for safe, secure drilling of pipes and tubular material. See page 48 for details.

PORTABLE MAGNETIC DRILLS

➤ [Annular Cutters: pages 32-39](#) ➤ [Accessories: pages 40-48](#)



MAB 525



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.

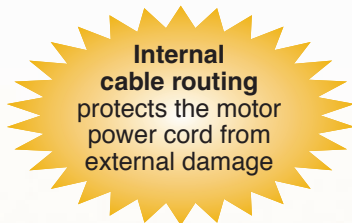
- Uses annular cutters
- Twist drilling up to 1" (with optional chuck IBC 21)
- Tapping capacity 15/16"
- Integrated cutting oil reservoir
- Automatic internal lubrication

Keyless Cutter Mount

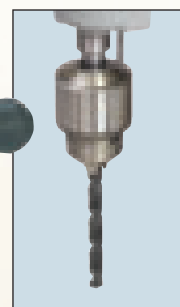
- Quick-change keyless cutter system for 3/4" Weldon shank

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

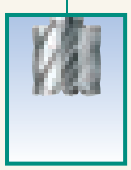
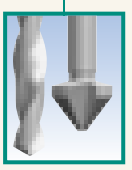
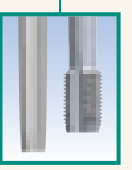
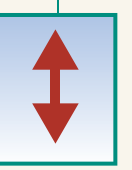

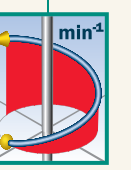
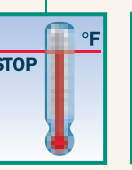
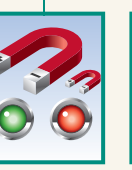



Equipped with Electronic Safety Shutoff Sensor (see p. 3)



With a 3/4" chuck (Part No. IBC 21), or MT3, this model easily converts to a standard drill press with a 5" stroke for conventional twist drills.



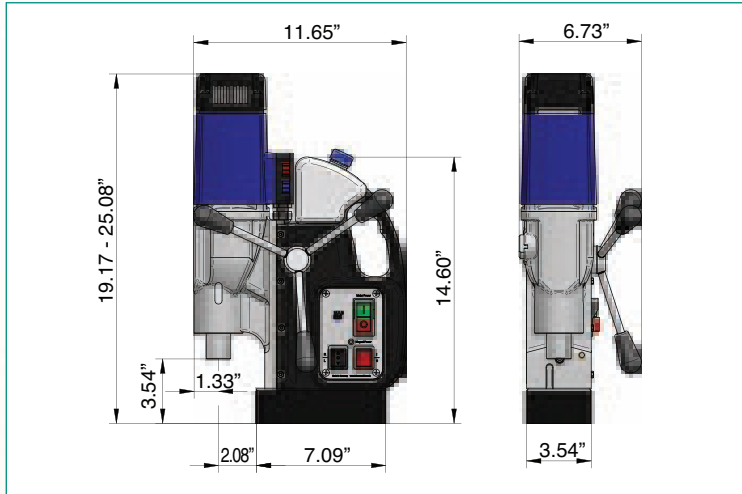
Cutter Capacity	Twist Drill / Countersink	Ream / Tap	Stroke (length)	2-gear Variable Speed (RPM)	Electronics	Overheat Protection	Magnet Force Indicator	Reversible (CW/CCW)
								
ø 2 1/2"	ø 1" / ø 2"	ø 7/8" / ø 15/16"	6 1/3"	70-280 180-580	Variable-speed Control	CoolMag™	SafeMag™	

► Annular Cutters: pages 32-39 ► Accessories: pages 40-48

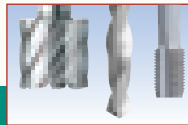
MAB 525 Specifications



Cutter capacity
2 1/2" dia.



Model MAB 525



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	3 1/2" W x 7 1/8" L
Dimensions	19" H x 11 3/4" L x 6 3/4" W
Magnetic Force (1" plate)	8000 lbs.
Arbor Bore	3/4"
Spindle	MT3
Automatic Lubrication	Included

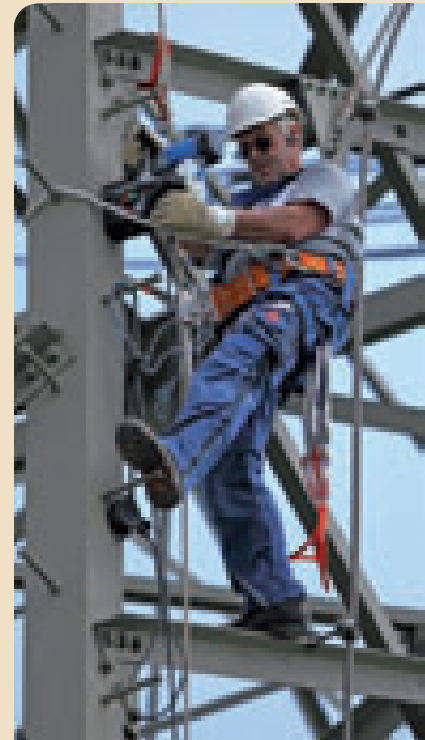
* 220 Volt / 50 Hz also available

Standard Equipment

- 1 Magnetic drilling machine
- 1 Quick-change arbor system
KEYLESS Weldon 3/4"
- 2 Pilot pins - 1" and 2" depth
- 1 Safety chain
- 1 Drift key MT3
- 1 Geared drill chuck with 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,
gloves, safety glasses, ear protection and allen keys.



See pages 32-39 for our HSS, TiAlN and Carbide-tipped cutters.

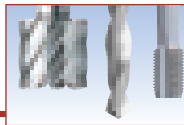
PORTABLE MAGNETIC DRILLS

➤ Annular Cutters: pages 32-39 ➤ Accessories: pages 40-48



Cutter capacity
4" dia.

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

- Uses annular cutters
- Twist drilling and reaming up to 1-1/4" dia.
- Tapping up to 1-1/8"
- Optional geared chuck IBC 21
- Integrated cutting oil reservoir
- Automatic internal lubrication
- 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

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



4 Gears with Variable Speed



Twist Drilling



Tapping



Reaming


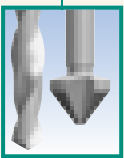
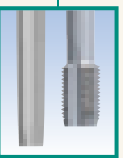
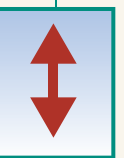

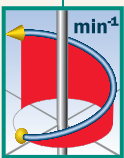
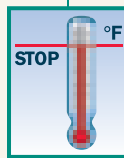




Countersinking

MAB 825

For swivel base, order MAB 845 (see page 21)

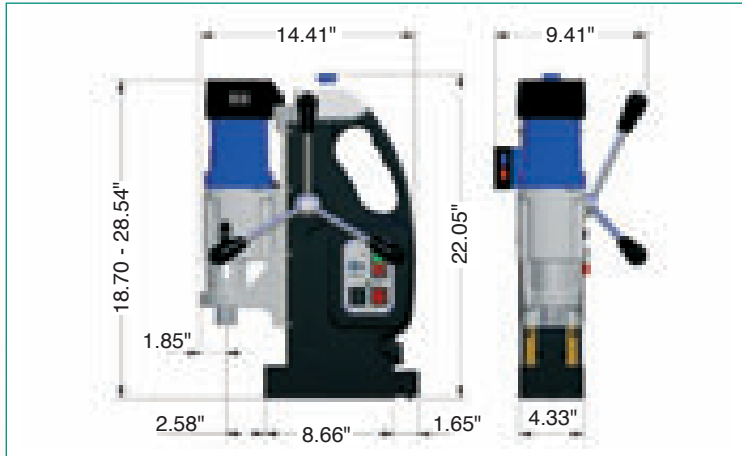
Equipped with Electronic Safety Shutoff Sensor (see p. 3)

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

MAB 825 & MAB 845 Specifications

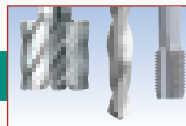


Cutter capacity
4" dia.



Model MAB 825 & 845

Model MAB 825 & 845 Specifications



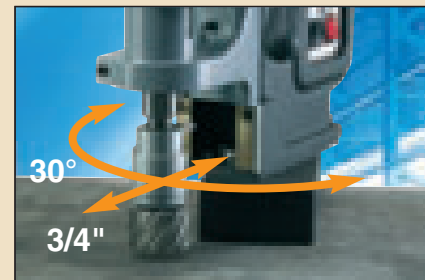
Motor Power	16 Amp / 110 Volt
Weight	55 lbs.
Hole Capacity	4" dia.
Twist Drill Capacity	1 1/4" dia.
Tapping Capacity	1 1/8" dia.
Speeds	40-110, 65-175 140-360, 220-600 RPM
Magnet Base Size	4 1/3" W x 8 5/8" L
Dimensions	18 5/8" H x 14 7/16" L x 9 7/16" W
Magnetic Force (1" plate)	6600 lbs.
Arbor Bore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

* 220 Volt / 50 Hz also available

Standard Equipment

- 1 Magnetic drilling machine
- 1 Quick-change arbor system
KEYLESS Weldon 3/4"
- 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, gloves, safety glasses, ear protection and allen keys.



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

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

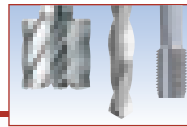


➤ Annular Cutters: pages 32-39 ➤ Accessories: pages 40-48



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

Drill up to 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
13/16" to 4-3/4" dia. for 4" 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 38-39.



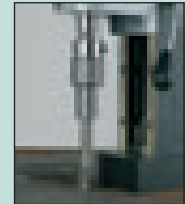
Equipped with
Electronic
Safety Shutoff
Sensor (see p. 3)



4 Gears
with Variable
Speed



Twist Drilling



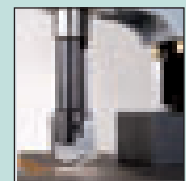
Tapping



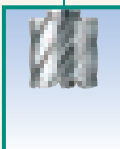
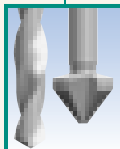
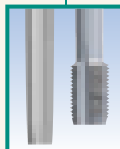
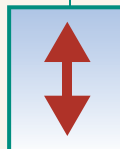

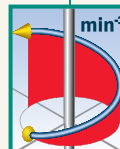
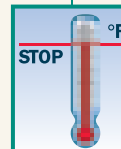


Reaming



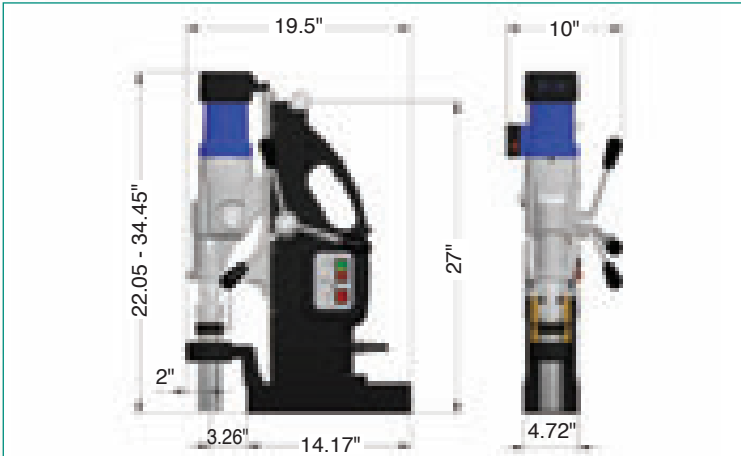
Countersinking



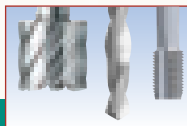
Optional
Special-Purpose
Cutting Tool

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	4 3/4" W x 14" L
Dimensions	34 1/2" 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

* 220 Volt / 50 Hz also available

** Maximum hole diameter is with TCT Carbide cutters - see p. 38-39.

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, gloves, safety glasses, ear protection and allen keys.



Accessories

See page 24 for tapping accessories and wheeled carrying case.



ZHK 1300 wheeled carrying case included with MAB 1300

PORTABLE MAGNETIC DRILLS

➤ Annular Cutters: pages 32-39 ➤ Accessories: pages 40-48

MAB 1300 Accessories



Cutter capacity
5 1/8" dia.

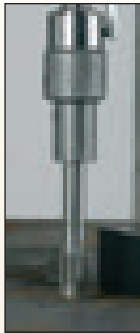
See page 41
for additional
tapping options.



Heavy-duty Tap Holder

- 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



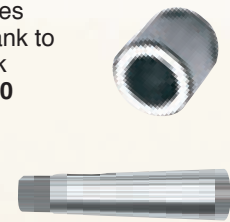
Tap Collets and Reducing Adapters

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	ZGT-1/4	5/8	ZGT-5/8
5/16	ZGT-5/16	11/16	ZGT-11/16
3/8	ZGT-3/8	3/4	ZGT-3/4
7/16	ZGT-7/16	1	ZGA 033
1/2	ZGT-1/2		(1-1/4" Weldon shank)
9/16	ZGT-9/16	1-1/4	ZGA 042
			(1-1/4" Weldon shank)

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)



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 21 for MAB 825/845 case.

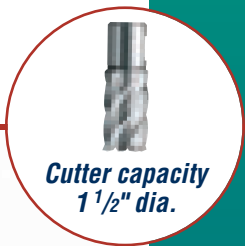


Watertight, shock-proof and robust – the right protection for your machine.

Four large ABS locks secure the robust plastic case

► **Annular Cutters:** pages 32-39 ► **Accessories:** pages 40-48

AutoMAB 1500



Heavy-duty compact drill with automatic feed

Powerful • Reliable

- 10.5 Amp double-insulated motor
- Compact, lightweight and portable: 16-1/8" high, 37-1/2 lbs.
- Power feed automatically controls drill pressure to maintain optimal RPM and feed rate
- Designed for continuous use
- Ideal hole cutting machine for steel fabricators, contractors and plant maintenance professionals

Drill up to 1-1/2" dia.

- Uses annular cutters
- Automatic feed mechanism with automatic stop and manual retraction
- Integrated cutting oil reservoir
- Automatic internal lubrication



Integrated Safety

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



Standard Equipment

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

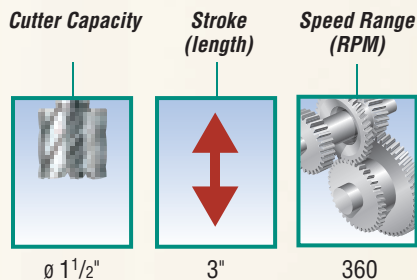
Standard Equipment
also includes auto lubrication, safety strap, carabin hook, gloves, safety glasses, ear protection and allen keys.

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

Model AutoMAB 1500 Specifications

Motor Power	10.5 Amp / 110 Volt
Weight	37 1/2 lbs.
Hole Capacity	1 1/2" dia.
Speed	360 RPM
Magnet Base Size	3 1/2" W x 7 1/8"
Dimensions	16 1/8" H x 11" L x 7 13/16" W
Magnetic Force (1" plate)	2640 lbs.
Arbor Bore	3/4"
Automatic Lubrication	Included

* 220 Volt / 50 Hz also available

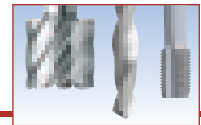


➤ [Annular Cutters: pages 32-39](#) ➤ [Accessories: pages 40-48](#)



Cutter capacity
1 1/4" dia.

CSU 32AC & 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
- Model CSU 32RL variable speed

Drill up to 1-1/4" dia.

- Uses annular cutters; 5-3/4" stroke
- Twist drilling up to 1/2" dia.; 7-1/2" stroke with chuck
- Tapping 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"

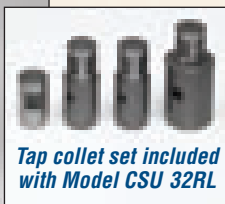


Integrated Safety

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



With a 1/2" chuck (Part No. IBC 17), these models easily convert to standard drill presses with a 6 1/2" stroke for conventional twist drills.



Tap collet set included with Model CSU 32RL

Standard Equipment includes auto lubrication, auto chuck cutter holder, 1/2" geared chuck, safety chain, carabin hook, allen keys, pilot pins and carrying case. (CSU 32AC shown)

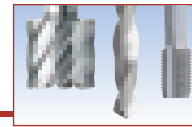
CSU 32AC Specifications

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" (CSU 32RL only)
Speed	450 RPM
Magnet Base Size	6 ⁵ / ₁₆ " W x 3 1/4" H
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"
Spindle	1/2"-20 UNF Thread
Automatic Lubrication	Included
Reversible Motor	Order CSU 32RL
Power Assist	Order Accessory ZPA 401

* Model CSU 32RL for tapping up to 3/4" dia.

► **Annular Cutters:** pages 32-39 ► **Accessories:** pages 40-48

CSU 50AC & CSU 50RL



Cutter capacity
2" dia.

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; 10" stroke
- Twist drilling up to 7/8" dia.
- Tapping up to 15/16" dia.*
- Automatic lubrication system

Keyless Cutter Mount

- Easy "twist and lock" keyless arbor



Integrated Safety

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



With a 3/4" chuck (Part No. IBC 22) or MT2, these models easily convert to standard drill presses with a 5" stroke for conventional twist drills.

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"



Tap collet set included with Model CSU 50RL

Standard Equipment includes auto lubrication, auto chuck cutter holder, 1/2" geared chuck, safety chain, carabin hook, allen keys, pilot pins and carrying case. (CSU 50RL shown)

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" W x 3 1/2" H
Dimensions	16 1/2" H x 9" L x 6 3/8" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	3/4"
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.

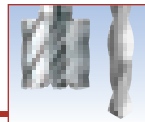
➤ [Annular Cutters: pages 32-39](#) ➤ [Accessories: pages 40-48](#)

PORTABLE MAGNETIC DRILLS



Cutter capacity
3³/₁₆" dia.

CSU 80AC



Powerful high-torque motor with multiple speeds

Powerful • Reliable

- 15 Amp double-insulated motor
- 19-1/2" high, 57 lbs.
- High-speed, 4-speed gearbox, ideal for annular cutters and twist drills
- Designed for continuous use

Drill up to 3-3/16" dia.

- Uses annular cutters; 10" stroke
- Twist drilling up to 1-1/4" (with optional chuck IBC 21); 6-1/2" stroke
- Automatic lubrication system

Keyless Cutter Mount

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



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

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

Integrated Safety

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



With a 3/4" chuck (Part No. IBC 21) or MT3, this model easily converts to a standard drill press with a stroke of 6 1/2".

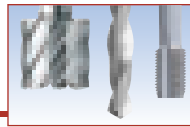
CSU 80AC Specifications

Motor Power	15 Amp / 110 Volt*
Weight	57 lbs.
Hole Capacity	3 ³ / ₁₆ " dia.
Twist Drill Capacity	1 1/4" dia.
Speeds	1: 100 RPM, 2: 175 RPM 3: 245 RPM, 4: 385 RPM
Magnet Base Size	9" W x 4 ³ / ₈ " H
Dimensions	19 1/2" H x 13 ³ / ₈ " L x 7 1/2" W
Magnetic Force (1" plate)	7040 lbs.
Arbor Bore	3/4" (1 1/4" also available)
Spindle	MT3
Automatic Lubrication	Included
Power Assist	Order Accessory ZPA 402

* 220 Volt / 50 Hz also available

► **Annular Cutters:** pages 32-39 ► **Accessories:** pages 40-48

CSU 100/3RL



Powerful reversible motor for drilling and tapping

Powerful • Reliable

- 16 Amp double-insulated motor
- 19-1/2" high, 57 lbs.
- 2-gear variable speed gearbox
- Designed for continuous use

Drill up to 4" dia.

- Uses annular cutters; 10" stroke
- Twist drilling up to 1-1/4" dia.; 6-1/2" stroke with geared chuck
- Tapping up to 1-1/8" dia.
- Automatic lubrication system

Keyless Cutter Mount

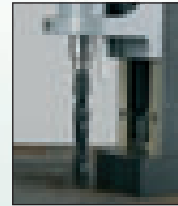
- Quick-change keyless cutter system for 3/4" Weldon shank
- Optional 1-1/4" arbor

Integrated Safety

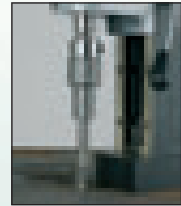
- SafeMag™ Green/Red LED magnetic force indicator for safe operation
- Equipped with CoolMag™ overheat protection
- Emergency-off function



2 Gears
with Variable
Speed



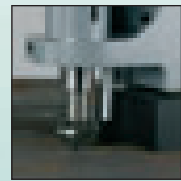
Twist Drilling



Tapping



Reaming



Countersinking

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



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

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

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" W x 4" H
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

* 220 Volt / 50 Hz also available

➤ **Annular Cutters:** pages 32-39 ➤ **Accessories:** pages 40-48



AIRBOR™ AB-4300

Motor and magnet are powered completely by compressed air

Pneumatic power for hazardous environments

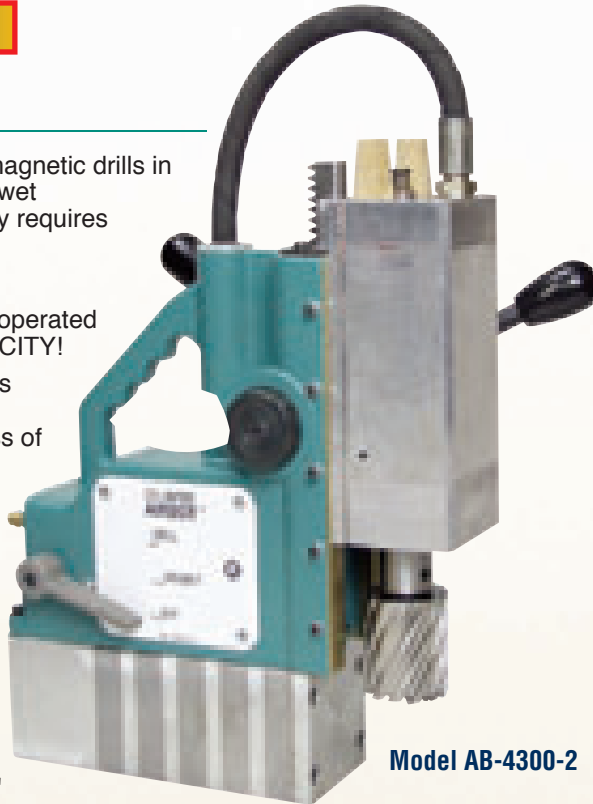
ATEX Classified

Safe • Reliable

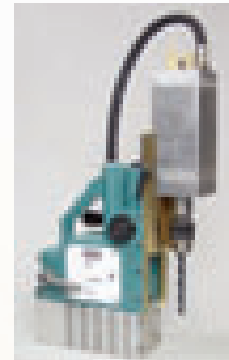
- Inherently safer than electromagnetic drills in hazardous atmospheres and wet environments where electricity requires "hot work permits"
- ATEX classified
- Industry's first completely air-operated magnetic drill – NO ELECTRICITY!
- Fail-safe permanent magnet is activated "on" and "off" by air pressure;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

Drill up to 2-1/16" dia.

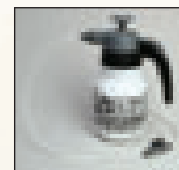
- Uses annular cutters
- Twist drilling up to 5/8"
- Powerful 1.6 HP drill motor
- Long drill stroke – up to 10 1/4"
- Pressurized coolant system lubricates cutter and reduces risk of sparking



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.

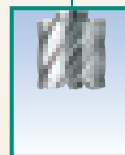


Pressurized lubrication system (Part No. 9 4002 0020)



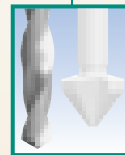
AB-4300-2R shown with extra rack up (left) and extra rack down (right).

Cutter Capacity



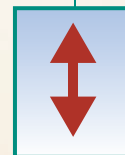
ø 2 1/16"

Twist Drill / Countersink



1/2"

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" W x 3 1/2" L
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"
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	
<i>Drill Stroke</i>			
w/cutters	w/chuck	w/cutters	w/chuck
10 1/4"	7 1/2"	4 7/8"	1 3/4"
<i>Height</i>			
closed	open	closed	open
13 1/2"	22"	13 1/2"	17 1/2"
<i>Weight</i>			
lbs.	kg	lbs.	kg
43	20	38	18

► Annular Cutters: pages 32-39 ► Accessories: pages 40-48

HB 4400 for Subsea Drilling



Hydraulic for marine and construction – works underwater

Safe • Reliable

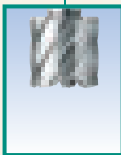
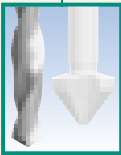


- Ideal for industrial, construction, marine and mining applications
- Drill structural steel and other metals
- Hydraulic motor safe for underwater use
- Manually operated permanent magnet with ratchet control has holding strength of 1300 lbs.

Drill up to 2-1/16" dia.

- Uses annular cutters
- Twist drilling 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 / Countersink	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

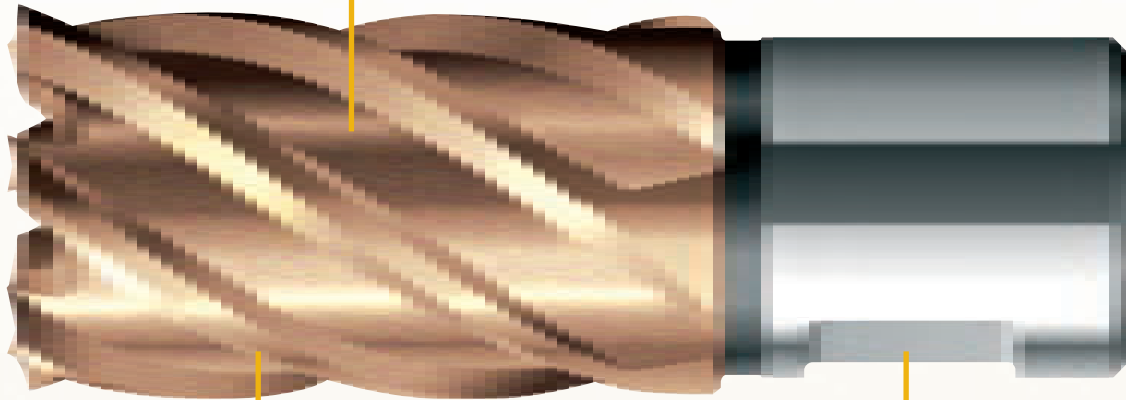
Motor Power (Hydraulic)	1.5 HP
Weight	48 1/2 lbs.
Hole Capacity	2 1/16" dia.
Twist Drill Capacity	1/2" dia.
No Load Speed, Variable	0-630 RPM
Hydraulic Supply	Flow 6.5 GPM @ 2000 PSI
Magnet Base Size	7 1/4" W x 3" L
Dimensions	18 1/2" H x 12 1/2" L x 7" W
Magnetic Force (1" plate)	1300 lbs.
Automatic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

➤ *Annular Cutters: pages 32-39* ➤ *Accessories: pages 40-48*

Annular Cutters

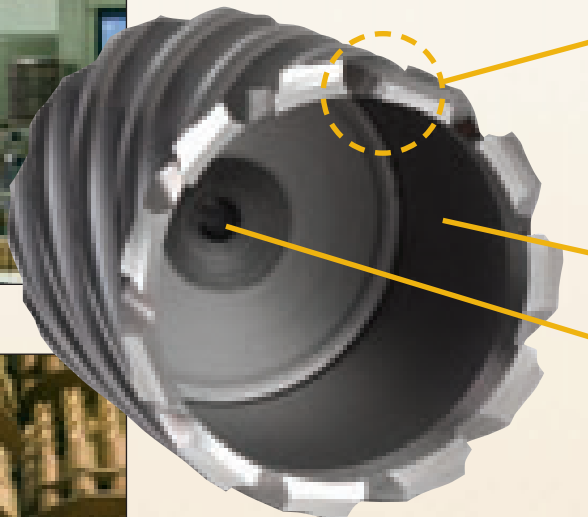
Achieve burr-free finished holes, without predrilling or stepdrilling

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



Hardened, high-speed tool steel

Weldon Shank



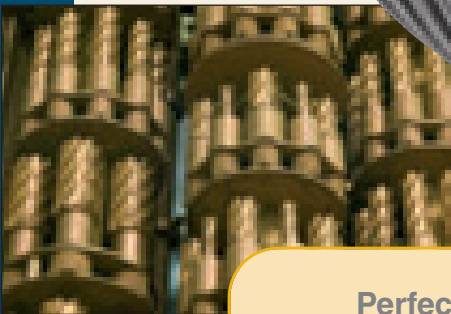
Benefits of CS Unitec's Cutter Design:

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.

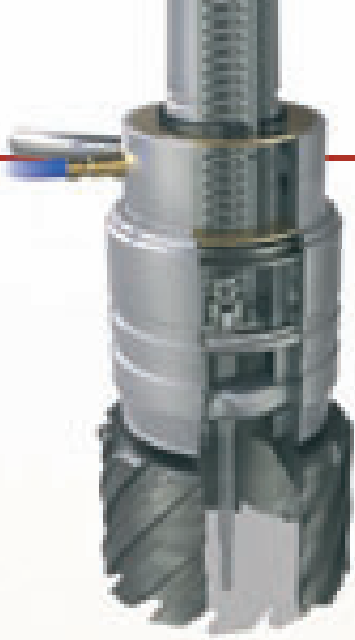
Center hole for pilot pin accurately aligns the cutter, allows for internal lubrication and removes the slug.



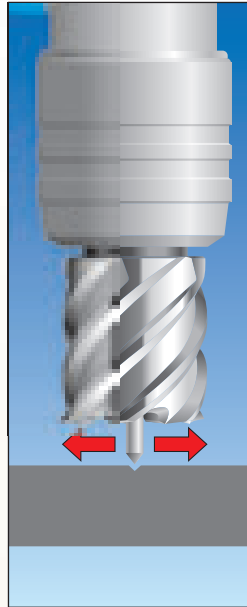
Perfect drilling to close tolerances without runout.
The result: a burr-free finished hole.



t Pins: How they work...

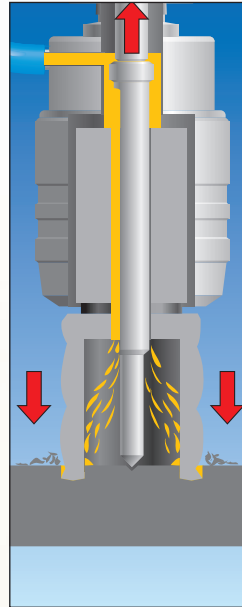


1: Centering



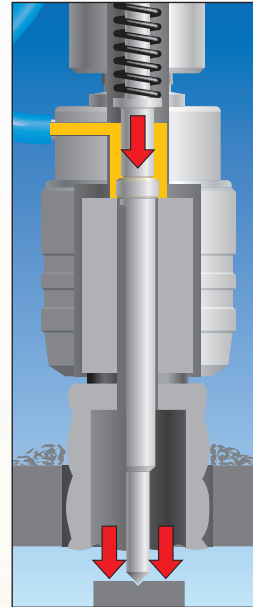
The pilot pin accurately centers cutter over area to be drilled.

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 34-35

Fully ground HSS annular cutters

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

8-Series ARMOR-PLATED Unibroach™ Annular Cutters – Pages 36-37

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 38-39

Sintered carbide annular cutters with Tungsten Carbide tips

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

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



For Cobalt Cutters and special sizes, see page 38.



➤ See pages 40-48 for Drill Accessories.

Unibroach® Annular Cutters

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

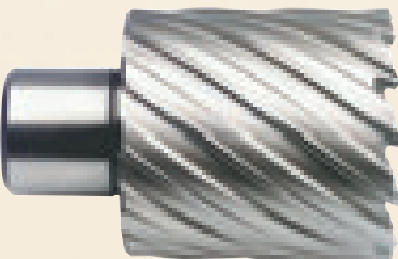
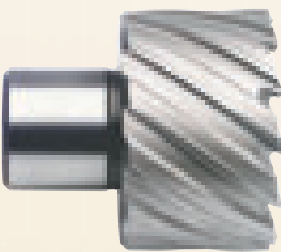


Annular Cutters are the standard hole-making drills in the industry. Ideal for heavy-duty use on-site or in the shop, our HSS Unibroach™ cutters are available in the following sizes:

1" drill depth – \varnothing 7/16" to \varnothing 5 1/8"
2" drill depth – \varnothing 7/16" to \varnothing 5 1/8"
3" drill depth – \varnothing 3/4" to \varnothing 5 1/8"
Special sizes available

• *Metric cutters available on request*

- 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



See page 44 for HSS Annular Cutter Starter Kit.

** HSS Cutters must be used with lubricant.
 See page 40 for CS Unitec lubricants and cutting oil.*

Unibroach® Stack Cutters are available in diameters from 7/16" 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*		2" Depth*		3" Depth**	
Order No.	Diameter	Order No.	Diameter	Order No.	Diameter
6-1-114	7/16"	6-1-214	7/16"	N/A	
6-1-116	1/2"	6-1-216	1/2"	N/A	
6-1-118	9/16"	6-1-218	9/16"	N/A	
6-1-120	5/8"	6-1-220	5/8"	N/A	
6-1-122	11/16"	6-1-222	11/16"	N/A	
6-1-124	3/4"	6-1-224	3/4"	6-1-324	3/4"
6-1-126	13/16"	6-1-226	13/16"	6-1-326	13/16"
6-1-128	7/8"	6-1-228	7/8"	6-1-328	7/8"
6-1-130	15/16"	6-1-230	15/16"	6-1-330	15/16"
6-1-132	1"	6-1-232	1"	6-1-332	1"
6-1-134	1-1/16"	6-1-234	1-1/16"	6-1-334	1-1/16"
6-1-136	1-1/8"	6-1-236	1-1/8"	6-1-336	1-1/8"
6-1-138	1-3/16"	6-1-238	1-3/16"	6-1-338	1-3/16"
6-1-140	1-1/4"	6-1-240	1-1/4"	6-1-340	1-1/4"
6-1-142	1-5/16"	6-1-242	1-5/16"	6-1-342	1-5/16"
6-1-144	1-3/8"	6-1-244	1-3/8"	6-1-344	1-3/8"
6-1-146	1-7/16"	6-1-246	1-7/16"	6-1-346	1-7/16"
6-1-148	1-1/2"	6-1-248	1-1/2"	6-1-348	1-1/2"
6-1-150	1-9/16"	6-1-250	1-9/16"	6-1-350	1-9/16"
6-1-152	1-5/8"	6-1-252	1-5/8"	6-1-352	1-5/8"
6-1-154	1-11/16"	6-1-254	1-11/16"	6-1-354	1-11/16"
6-1-156	1-3/4"	6-1-256	1-3/4"	6-1-356	1-3/4"
6-1-158	1-13/16"	6-1-258	1-13/16"	6-1-358	1-13/16"
6-1-160	1-7/8"	6-1-260	1-7/8"	6-1-360	1-7/8"
6-1-162	1-15/16"	6-1-262	1-15/16"	6-1-362	1-15/16"
6-1-164	2"	6-1-264	2"	6-1-364	2"
6-1-166	2-1/16"	6-1-266	2-1/16"	6-1-366	2-1/16"
6-1-168	2-1/8"	6-1-268	2-1/8"	6-1-368	2-1/8"
6-1-170	2-3/16"	6-1-270	2-3/16"	6-1-370	2-3/16"
6-1-172	2-1/4"	6-1-272	2-1/4"	6-1-372	2-1/4"
6-1-174	2-5/16"	6-1-274	2-5/16"	6-1-374	2-5/16"
6-1-176	2-3/8"	6-1-276	2-3/8"	6-1-376	2-3/8"
6-1-178	2-7/16"	6-1-278	2-7/16"	6-1-378	2-7/16"
6-1-180	2-1/2"	6-1-280	2-1/2"	6-1-380	2-1/2"
6-1-182	2-9/16"	6-1-282	2-9/16"	6-1-382	2-9/16"
6-1-184	2-5/8"	6-1-284	2-5/8"	6-1-384	2-5/8"
6-1-186	2-11/16"	6-1-286	2-11/16"	6-1-386	2-11/16"
6-1-188	2-3/4"	6-1-288	2-3/4"	6-1-388	2-3/4"
6-1-190	2-13/16"	6-1-290	2-13/16"	6-1-390	2-13/16"
6-1-192	2-7/8"	6-1-292	2-7/8"	6-1-392	2-7/8"
6-1-194	2-15/16"	6-1-294	2-15/16"	6-1-394	2-15/16"
6-1-196	3"	6-1-296	3"	6-1-396	3"
6-1-198	3-1/16"	6-1-298	3-1/16"	6-1-398	3-1/16"
6-1-1100	3-1/8"	6-1-2100	3-1/8"	6-1-3100	3-1/8"
6-1-1102	3-3/16"	6-1-2102	3-3/16"	6-1-3102	3-3/16"
6-1-1104	3-1/4"	6-1-2104	3-1/4"	6-1-3104	3-1/4"
6-1-1106	3-5/16"	6-1-2106	3-5/16"	6-1-3106	3-5/16"
6-1-1108	3-3/8"	6-1-2108	3-3/8"	6-1-3108	3-3/8"
6-1-1110	3-7/16"	6-1-2110	3-7/16"	6-1-3110	3-7/16"
6-1-1112	3-1/2"	6-1-2112	3-1/2"	6-1-3112	3-1/2"
6-1-1114	3-9/16"	6-1-2114	3-9/16"	6-1-3114	3-9/16"
6-1-1116	3-5/8"	6-1-2116	3-5/8"	6-1-3116	3-5/8"
6-1-1118	3-11/16"	6-1-2118	3-11/16"	6-1-3118	3-11/16"
6-1-1120	3-3/4"	6-1-2120	3-3/4"	6-1-3120	3-3/4"
6-1-1122	3-13/16"	6-1-2122	3-13/16"	6-1-3122	3-13/16"
6-1-1124	3-7/8"	6-1-2124	3-7/8"	6-1-3124	3-7/8"
6-1-1126	3-15/16"	6-1-2126	3-15/16"	6-1-3126	3-15/16"
6-1-1128	4"	6-1-2128	4"	6-1-3128	4"

* Cutters in shaded area above include a Pilot Pin.

** 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 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 pin & carrying case.

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

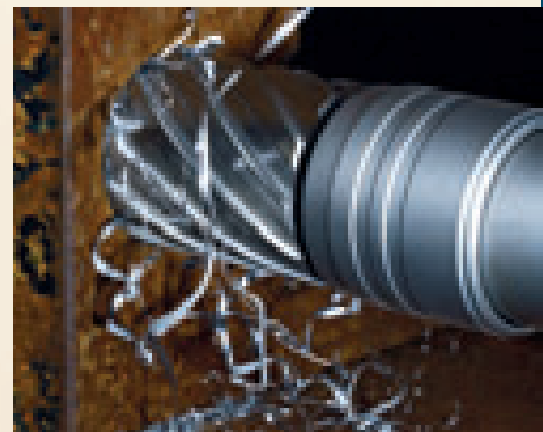
Pilot Pins for 6-Series

Order No.	Description
For 3/4" Shanks	
7-3-102	1/2" - 3" dia., 1" depth
7-3-202	1/2" - 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" dia., 1" depth
7-3-2002	3-1/16" - 5" dia., 2" depth
7-3-3002	3-1/16" - 5" 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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† We also stock 4" depth HSS cutters and Metric HSS cutters. Larger diameters and special sizes available upon request. Please call us for pricing and delivery.



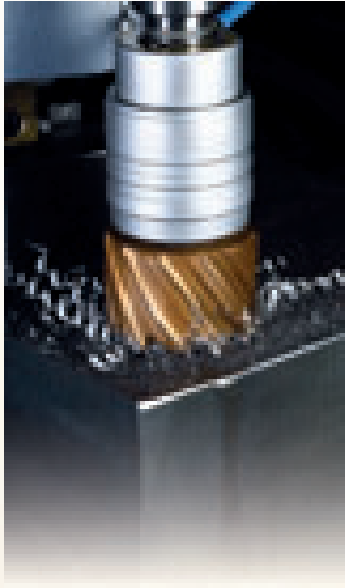
➤ See pages 40-48 for Drill Accessories.

Unibroach[®] Annular Cutters

TiAlN 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.



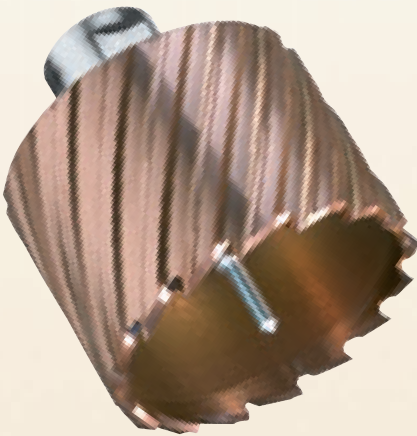
ARMOR-PLATED Unibroach[™] cutters are available in the following sizes:

1" drill depth – \varnothing 7/16" to \varnothing 5 1/8"

2" drill depth – \varnothing 7/16" to \varnothing 5 1/8"

3" drill depth – \varnothing 3/4" to \varnothing 5 1/8"

- *Metric and larger diameter cutters available on request*
 - 3 to 4 times longer tool life with TiAlN 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 coating is worn, lubricate with cutting oil*



See page 44 for ARMOR-PLATED Unibroach[™] TiAlN 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.



ANNULAR CUTTERS

1" Depth

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

2" Depth

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

3" Depth*

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

* 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 pin & 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	1/2" - 3" dia., 1" depth
7-3-202	1/2" - 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 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 coating is worn, lubricate with cutting oil

➤ See pages 40-48 for Drill Accessories.

Unibroach® Annular Cutters

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
- Will outlast High-speed Steel cutters
- Leaves a burr-free finished hole
- Available in all sizes (fractional and metric)
- $\frac{3}{4}$ " or $1\frac{1}{4}$ " shank

TCT Hornet cutters are available in the following sizes:

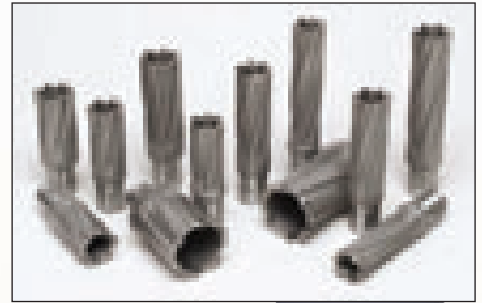
1" drill depth – \varnothing $\frac{1}{2}$ " to \varnothing $1\frac{1}{2}$ "

1-3/8" drill depth – \varnothing $\frac{19}{16}$ " to \varnothing 2"

2-3/8" drill depth – \varnothing $\frac{1}{2}$ " to \varnothing $5\frac{1}{8}$ "

3-3/8" drill depth – \varnothing $\frac{3}{4}$ " to \varnothing $5\frac{1}{8}$ "

- Metric cutters available on request



Closeup of tungsten-carbide teeth.
See following page for part numbers.



Carbide-Tipped Hole Saws

Cut holes in sheet metal up to $\frac{3}{8}$ " thick

- Tungsten carbide-tipped cutting edges last longer and can be run at higher feeds and speeds to create holes of exceptional quality and accuracy
- Diameters from $\frac{9}{16}$ " to $2\frac{1}{2}$ "
- $\frac{3}{8}$ " (12mm) drilling depth; 1" (28mm) effective length
- Designed for use with portable drilling machines
- $\frac{1}{2}$ " and $\frac{3}{4}$ " hex shanks

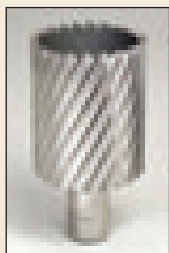


Unibroach® Cobalt Cutters

- Unibroach® Cobalt Cutters are made with 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.

- $\frac{3}{4}$ " shank is standard for cutters up to 3" dia.
- Metric cutters available on request
- See our price list for part numbers

Unibroach® Large-diameter Hole Cutting



Drill perfect holes up to $5\frac{1}{8}$ " diameter without runout

- Standard with $\frac{3}{4}$ " or $1\frac{1}{4}$ " 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
- Available in TCT Carbide, HSS, Cobalt and ARMOR-PLATED Unibroach™



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"

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

2-3/8" Depth

Order No.	Diameter
9-1-216 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"

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"

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"

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"

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"



Shank size:

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

Cutter Kits

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


Order No.	Description
9-1-001 C	1-3/8" 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	
9-3-102 C	5/8" - 2" dia., 1-3/8" depth
9-3-202 C	11/16" - 2-5/16" dia., 2" depth
9-3-302 C	13/16" - 2" dia., 3" depth
For 1-1/4" Shanks	
9-3-202A C	2-3/8" - 5-1/8" dia., 2" depth
9-3-302A C	2-3/8" - 5-1/8" dia., 3" depth

Option for Cutters 3" Depth

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



➤ See pages 40-48 for Drill Accessories.

Lubricants

Coolant extends the life of cutting tools

ProLube™ *Ideal for cutting steel, stainless steel and hard metals*



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

ProLube Paste
CS 7030-712
12 oz. tub

ProLube Liquid
Water soluble 16:1
CS 7010-504 - 1 gal. bottle

Upgrade your drill's cooling system: see page 42 for arbors with automatic cooling.

Cutting Oil

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

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



Pressurized Coolant Bottle

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

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 1", 2", 3" and 4" depth of cut
- See price list for part numbers



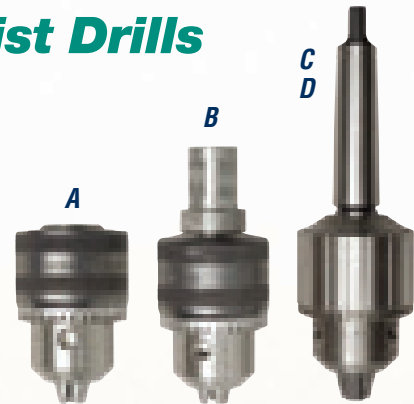
*Shown at right:
 2-piece pin for
 3" and 4" depth
 cutters with
 8mm pilot hole
 (Part No. 7-3-402).*



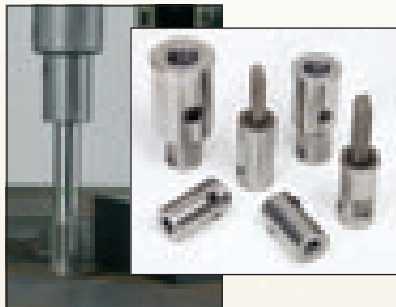
Accessories

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 MAB 425 and CSU 32 series
- B) **IBC 18** – 1/2" chuck with 3/4" shank for AIRBOR™ and HB 4400 (fits all drills with 3/4" arbor bore)
- C) **IBC 21** – 3/4" chuck with MT3 shank for MAB 825, CSU 80AC and CSU 100/3RL
- D) **IBC 22** – 3/4" chuck with MT2 shank for MAB 455, MAB 525 and CSU 50 series



Quick-change Tapping Tools, Collets and Chucks



- Manufactured from high-quality HSS to ASA Standard (or DIN 376 for metric)
- Ideal for CS Unitec's portable drilling and tapping machines and other drills

Tap collets fit magnetic drills with 3/4" arbor bore. Available for taps 1/4" through 3/4". Hold standard USA taps conforming to ASA.

See page 24 for additional tapping accessories.



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



Quick-change tapping chuck, Part No. **GSW-222**, with MT2 connection, complete with flexible collet to tap 5/16" to 5/8". For use with CSU 50RL and MAB 485 magnetic drills.

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-830**:
 Part No. **GST-160** variable clamp collet for shanks 3/8" – 5/8".
 Part No. **GST-230** variable clamp collet for shanks 5/8" – 7/8".



GSW-830C



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

- GSS-420** collet for 1/2" shanks
- GSS-433** collet for 1" shanks
- GSS-422** collet for 5/8" shanks
- GSS-442** collet for 1 1/4" shanks
- GSS-427** collet for 3/4" shanks

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

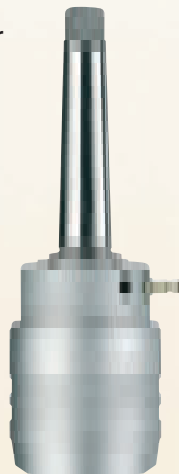
- ZIA 219KN** – Morse Taper No. 2
3/4" arbor bore
- ZIA 319KN** – Morse Taper No. 3
3/4" arbor bore
- ZIA 30/32** – Morse Taper No. 3
1 1/4" arbor bore

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

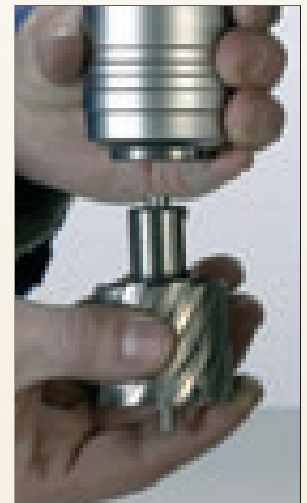


*turn,
click...*



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

Just twist and lock!



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
- ZPA 402** – Power Assist for CSU 80 and CSU 100/3 series



Power Assist Capstan

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

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

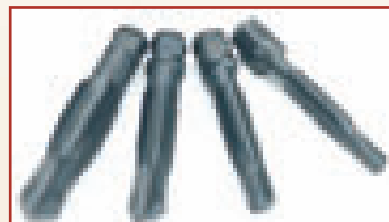


We also offer extensions with the following connections:



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

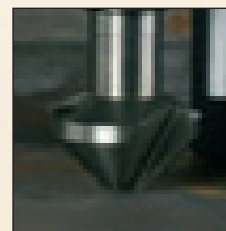
- CS875** – 7/8" x 9 UNC
- CS1000** – 1" x 8 UNC
- CSDT-UNCKIT** – 1/2", 5/8", 3/4" & 1" drill/taps

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 150, MAB 425, MAB 485 and MAB 525

Accessories

Starter Kits

CS Unitec starter kits offer the essentials you need to begin drilling. We have two 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 34-35 for more information on HSS annular cutters.



Armor-Plated TiAlN 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 36-37 for more information on Armor-Plated TiAlN annular cutters.

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



Power Worker – simple cleanup of steel chips

Rare earth magnet cleans metal parts and shavings



POW 100



- Easily clean up sharp-edged drill chips, screws and other metal parts
- Items are safely ejected off of Power Worker without hand contact
- Ideal for hard-to-reach spaces

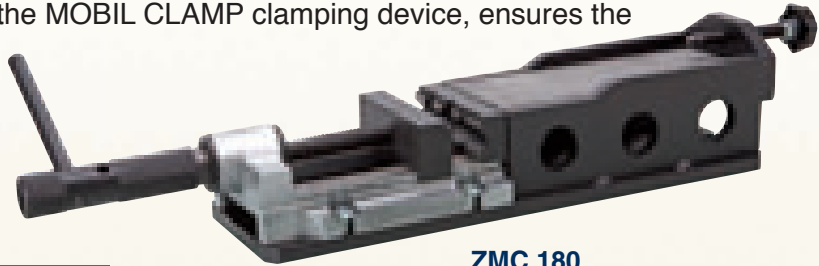
Clamping Devices

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 180

MOBIL CLAMP

Order No.	Jaw width	Quick-action clamping jaw	V-block clamping jaw
ZMC 180	4" (100mm)	3.15" (80mm) clamping width	•
ZMC 300	Base stand for clamping device		

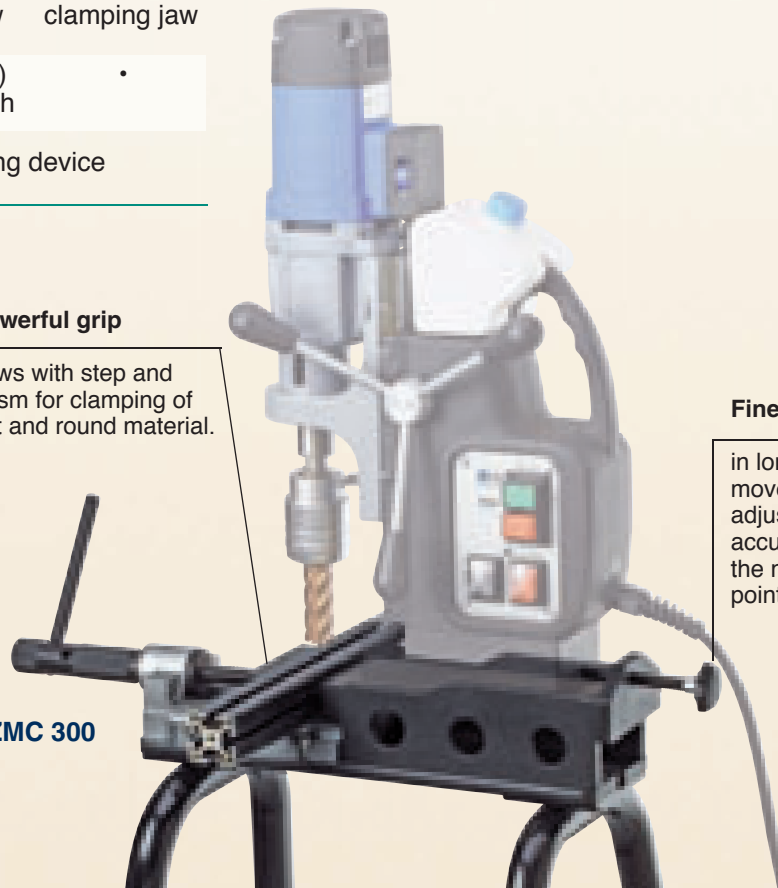
Powerful grip

Jaws with step and prism for clamping of flat and round material.

Fine adjustment

in longitudinal movement by an adjusting screw accurately set to the machining point.

ZMC 300



Clamping Devices

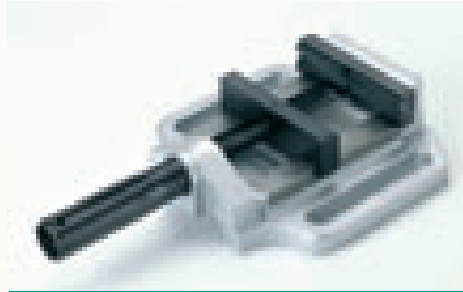
Drilling stand and vise for hand drills

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).



Drilling Pillar

Order No. **ZBS 100**



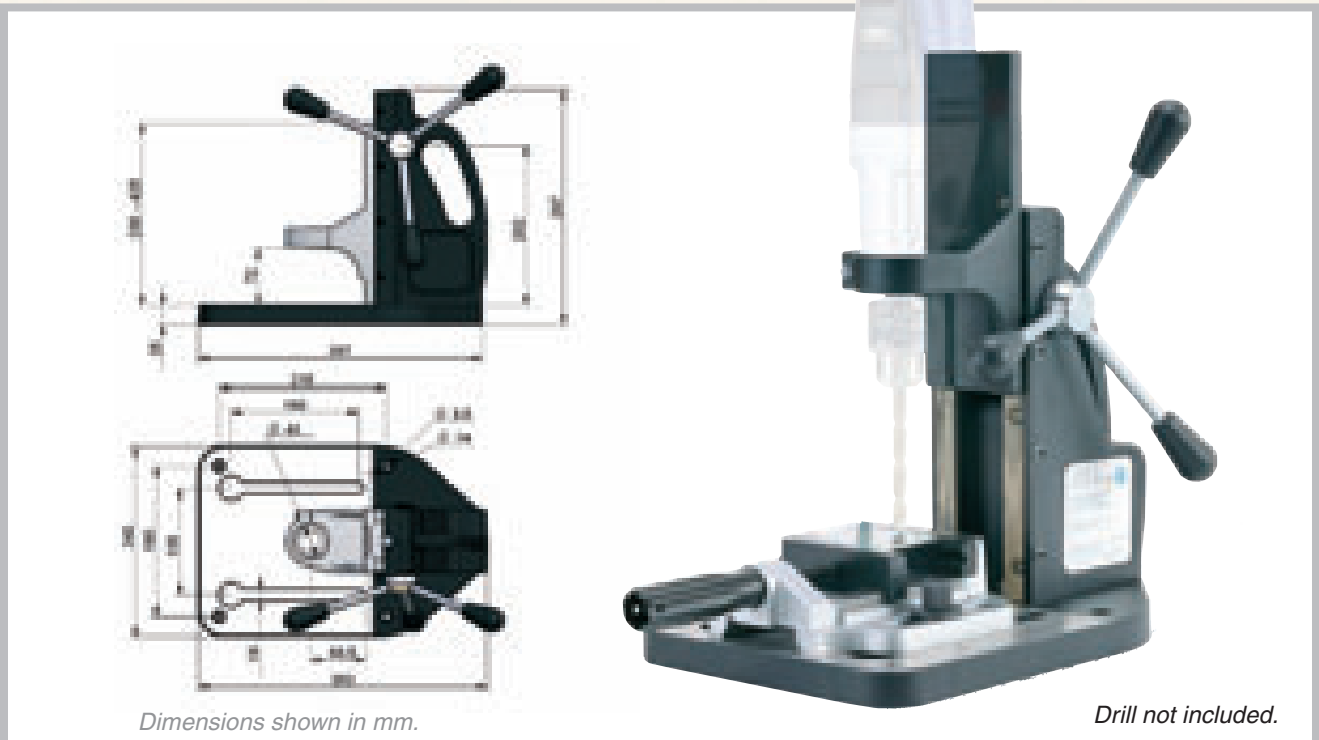
Vise

Order No. **ZST 100**
 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**

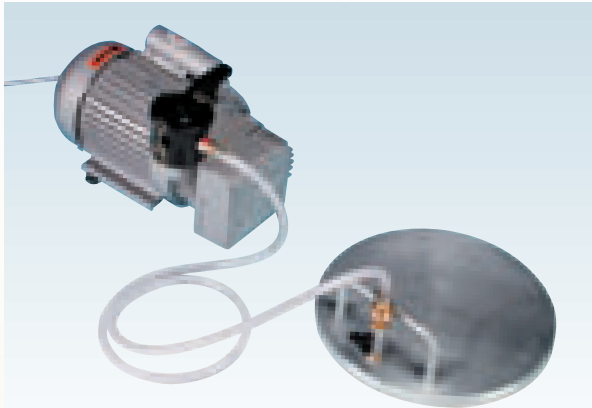


Dimensions shown in mm.

Drill not included.

Vacuum Plates

For applications where drill alone will not adhere to surface



Vacuum Plate for Channeled Plates

Order No. **ZAV 301** (vacuum plate only)

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

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



Vacuum Plate for Smooth Surfaces

Order No. **ZAV 401** (vacuum plate only)

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

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



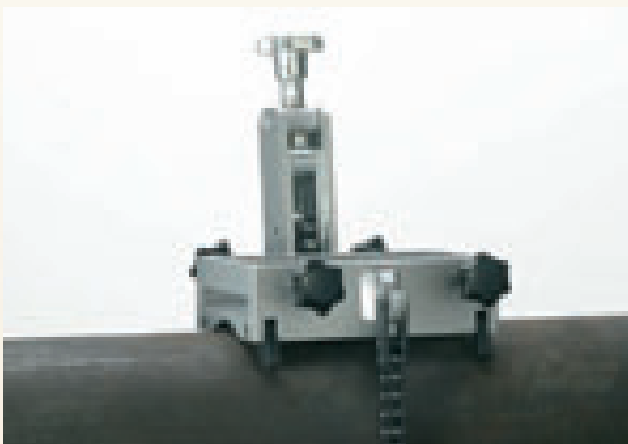
Pipe Saddle Clamp System

Ensures safe, secure drilling of pipes and tubular material

PIPE SADDLE CLAMP



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.



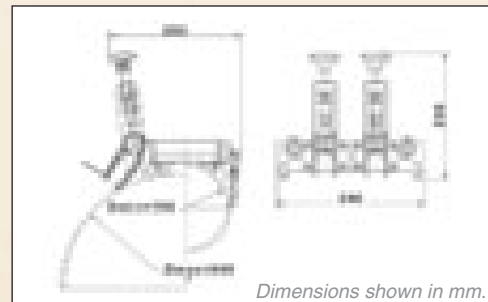
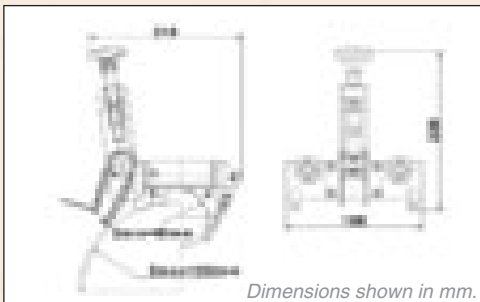
ZRO 250 Pipe Saddle Clamp System

Pipe diameters 3¹/₄" - 10"
Chain length: 35¹/₂"
For models: MAB 425, MAB 455, MAB 485, P1, MDM 40 and CSU 32



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, CSU 80, CSU 100/3, AB-4300-2 and HB 4400



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

Custom-engineered Machines

Design a custom machine for your specific needs

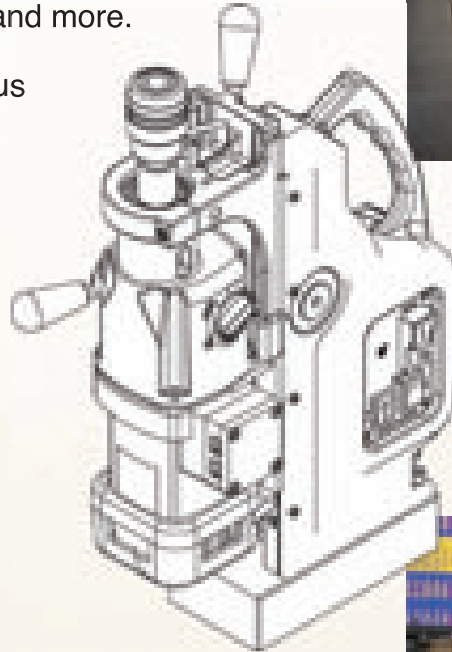
Unusual applications require unique solutions. We can help you build custom drills for a wide variety of applications. With our considerable experience building custom drills, our engineers can assist you to create machines that can drill on uneven surfaces, in various directions, and more.

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

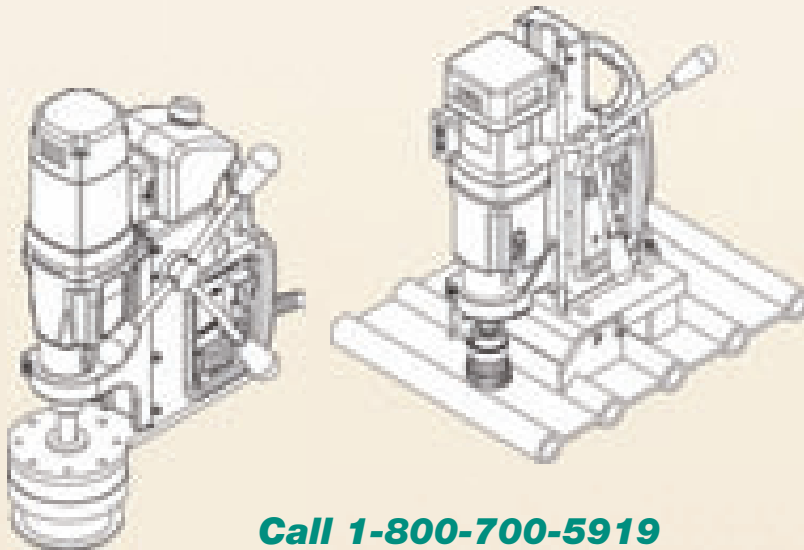
- In-house CAD design
- Prototype construction
- Manufacturing of special accessories

Custom Machine Options Include:

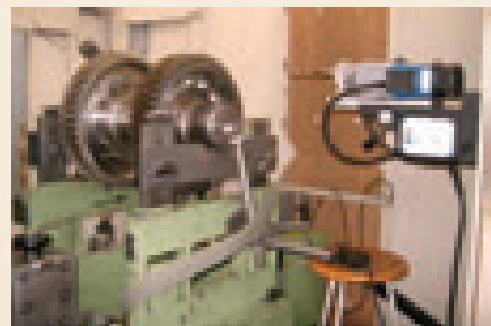
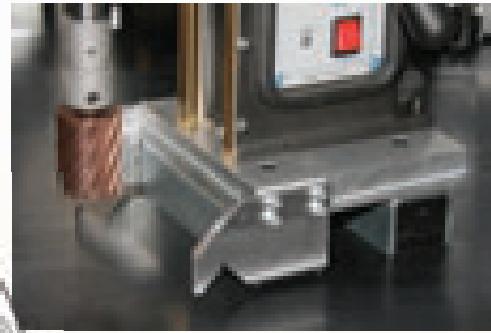
- ✓ **Reverse Drilling**
- ✓ **Alternative Mounting Configurations**
- ✓ **Magnet Variations**
- ✓ **Motor Customization**
- ✓ **Adjustable Drilling Depth**



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



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

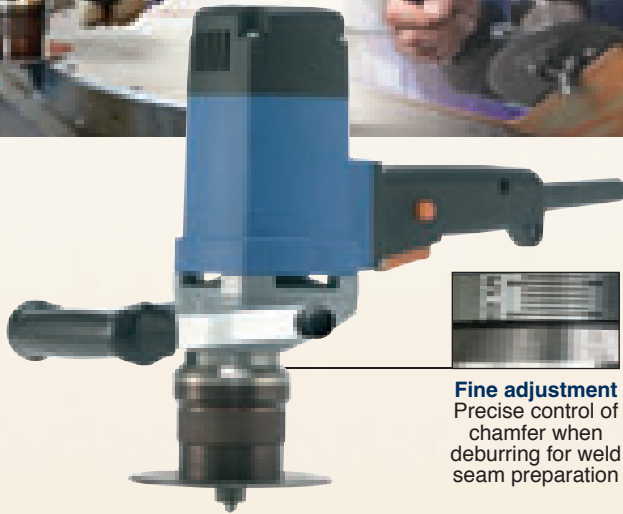
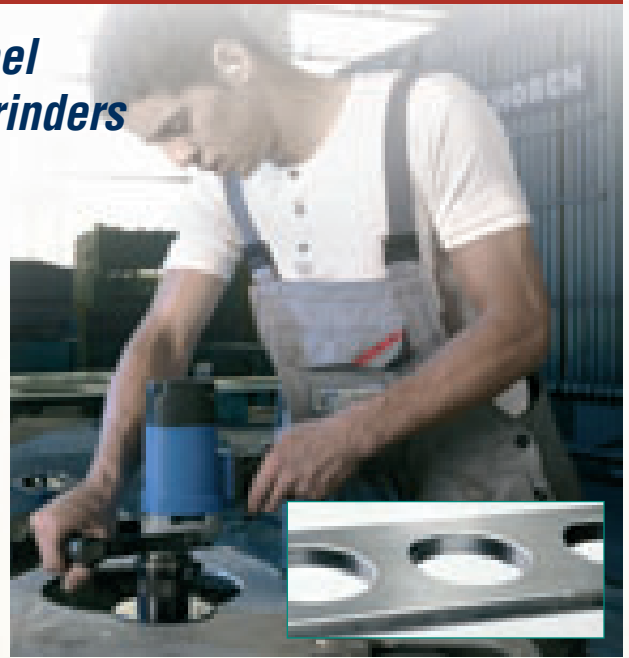


Multi-purpose Beveling Machine

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
- Three milling head options – 30°, 45° and 2.5mm
- 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


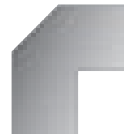

Portable Beveler Specifications

	EKF300.3	EKF450.3	EKF452.3
Beveling angle*	30°	45°	2.5mm
Bevel width (max.)**	1/4"	1/4"	1/4"
Motor power/Voltage	13.5 Amp / 110 V (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.		

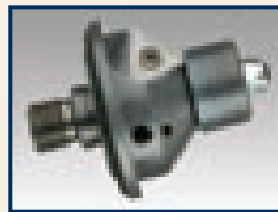
* EKF milling heads are interchangeable.

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

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"	2.5mm radius  EKF452.3 Milling cutter 2.5 radius (optional)
---	--	---

Cutting Plates - 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



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



The optimum fixture for stationary deburring of small parts (Order No. ZKF 100)

Portable Beveling Machine

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

CS Unitec's SKF 25 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

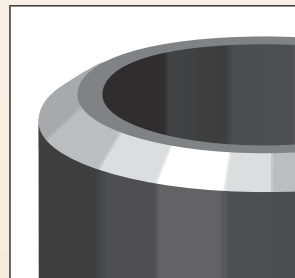


SKF 25

Portable Beveler Specifications

SKF 25	
Beveling angle	15° - 60°
Bevel width (max.)**	3/4"
Motor power	10 Amp
Voltage	110 V (220 V / 50 Hz also available)
Cutting speed	1800 SFPM
Cutting inserts	10
Dimensions (L x W 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.

PTX Eco Smart

The professional surface finisher for hard, continuous use

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

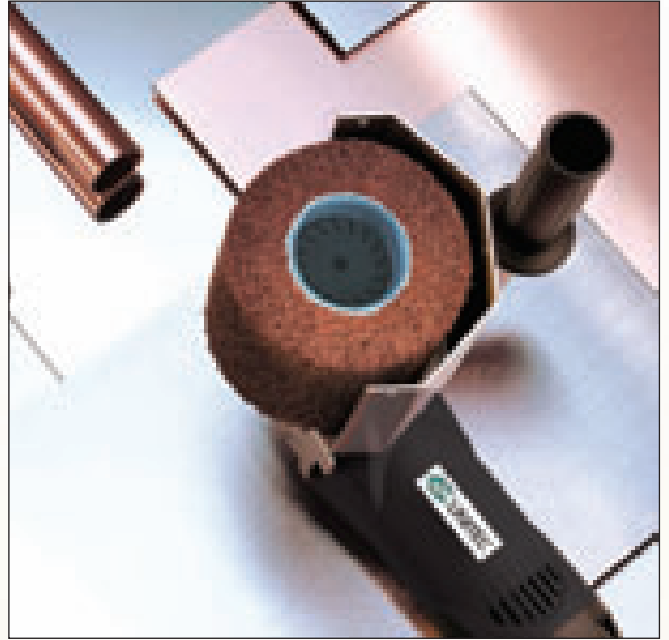
PTX Eco Smart is a multi-functional grinding and polishing system for flat surfaces and open or closed pipe constructions. It grinds from coarse to very fine finishes and burnishes to a high-gloss finish. It enhances stainless steel, steel and nonferrous metals including aluminum, brass, bronze and copper, as well as wood and rigid plastic.



**110 Volt
or 230 Volt**




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



PTX Eco Smart Specifications

Order Number: 47002A

Power	15 Amp (1650 Watts) 110 Volt / 60 Hz (Also available: 230 Volt / 50 Hz)	
Variable speed	Variable speed control from 950 to 3700 RPM with tachogenerator for constant speed, even under load	
Speed control dial	With fine adjustment for using abrasives at optimum efficiency	
Wheel width	up to 4" (or 6" wide abrasives)	
Wheel diameter	up to 4-1/2"	
Weight	7.25 lbs. (3.3 Kg)	

Sheet Metal Deburring Machine – ROLEI® BE 5

Simple, one-step deburring of sheet metal up to 0.2" thick can be achieved in a single operation with no additional treatment. Two-speed operation – 1200 RPM for standard deburring and 600 RPM for fine deburring.

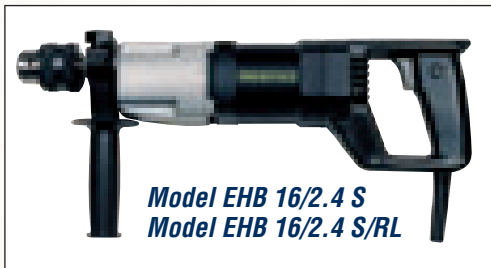
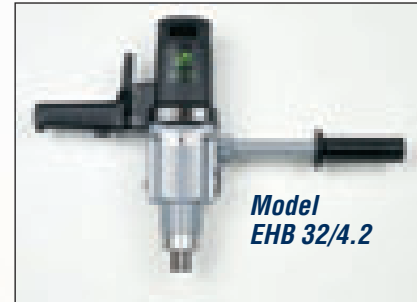
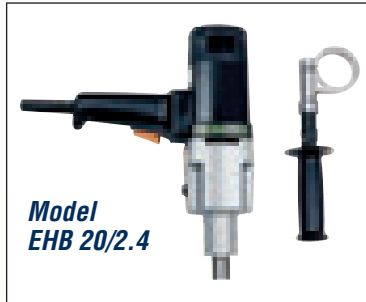
2 Deburring on both sides of the sheet edges

1 Sheet with burr after cutting



Electric Drills and Drive Units

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



Heavy-duty Drills for Industrial and Construction Applications:

- 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 16/2.4 S	10	110V	0-430/0-760	5/8"	19	NO	5/8" Geared	7
EHB 16/2.4 S/RL	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 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
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

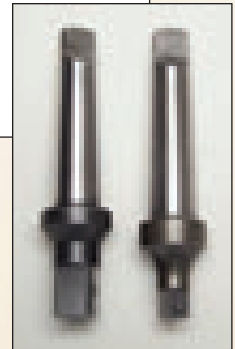


Model EHB 32/2.2 R/RL
Model ETE 32/2.3 R/RL



Up to 1 1/4" twist drill capacity

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



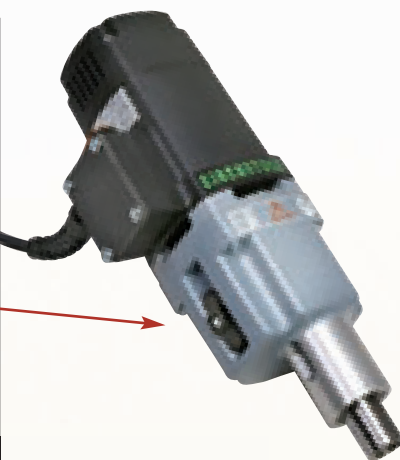
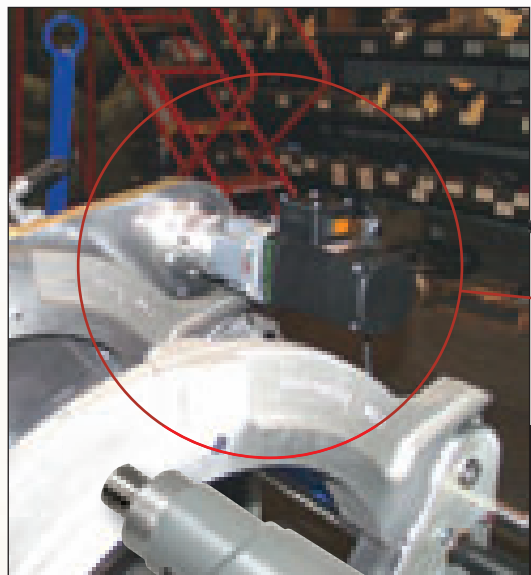
Model No.	Motor Power (Amps)	Voltage**	Load Speed (RPM)	Drilling Cap. in Steel	Tube Rolling (max.)	Reversible	Torque Output (ft./lbs.)	Torque Control	Arbor	Weight (lbs.)
EHB 32/2.2 R/RL	16.3	110V	60-140 / 200-470	1 1/4"	2"	YES	92 max.	YES	MT3	14
ETE 32/2.3 R/RL	16.3	110V	30-75 / 90-230	N/A	3" ***	YES	174 max.	NO	MT3	15

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

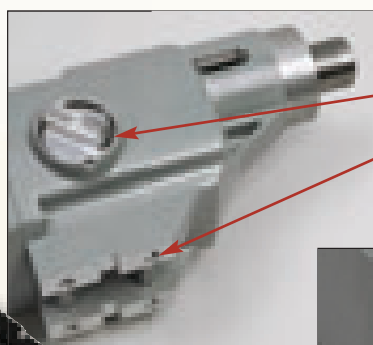
* 1/2" Square Drive with MT3 – Part No. 830-1230-050
3/4" Square Drive with MT3 – Part No. 830-1230-075

Special Electric Motor Options

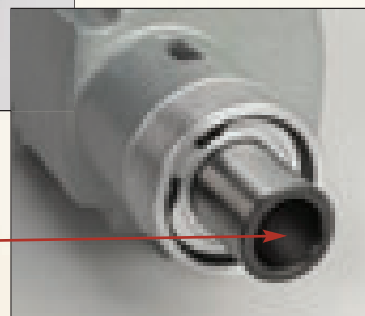
High-torque, reversible electric drill motors for custom applications



Control Boxes with On/Off, Variable Speed



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



Spindle Options:
MT2 / MT3
Square Drive
or Threaded

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

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

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
- One-year 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 58 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 and hydraulic: high-torque drilling, reaming and driving units

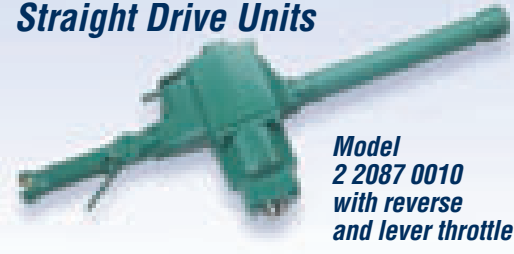


Model 2 1801 0030

Corner Drills and Bridge Reamers

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

Slow-speed, High-torque Straight Drive Units



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 Square Drive to 3/4" Male Square Drive
- 2 2089 7070 – 7/8" Male Square Drive to 1" Male Square Drive
- 6 1016 7940 – 7/8" Male Square Drive to 1" Male Square 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

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.

Pneumatic and hydraulic: powerful percussion drilling for concrete and masonry

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



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

SDS Max – Modes of Operation

2" bit capacity for drilling concrete and masonry

Hammer with Rotation
Ideal for concrete drilling

Rotation Only
For drilling steel
and wood (not reversible)



Air
Model 2 2417 0010
SDS Max



Hydraulic
Model
2 2418 0010
SDS Max

Second handle
position

SAE #8 port for
hydraulic hose
connection

SDS Plus – Hammer and Drill

1" bit capacity for drilling concrete and masonry

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



Hydraulic Model
2 2406 0010
SDS Plus

SAE #8
oil port

SDS Drill Bits



Small Masonry Bits
SDS Plus up to 1" dia.

Large Masonry Bits
SDS Max up to 2" dia.



Closed Center Flow Control Valve

Optional accessory for use with closed center
hydraulic power systems - adapts open center
tools to closed center. [Part No. 38632]

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

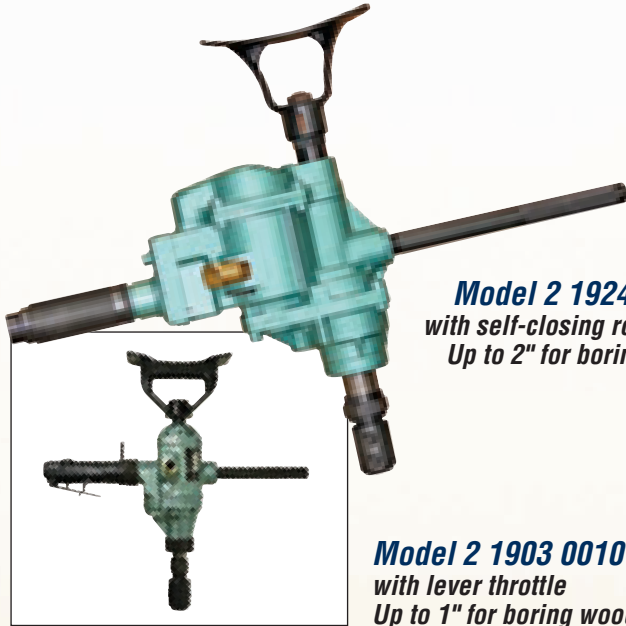
* Underwater model – Optional underwater air tool line conditioner to displace moisture, Part No. MS 9105. See page 59.

Hydraulic Hammer Drill Model No.	Blows/Minute (BPM)	Drill Speed (RPM)	Solid Bit Capacity (Concrete)	Core Bit Capacity (Concrete)	Twist Drill (wood)	Power at 2000 PSI	Flow Range at 1450 PSI (GPM)	Tool System	Dimensions (inches)	Weight (lbs.)
2 2406 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

Hydraulic Hammer Drills operate at hydraulic pressures of 1,450 - 2,000 PSI. 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	#2 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 22 (MT2)

AirPac Extends life of pneumatic power tools



Model CSAP-2

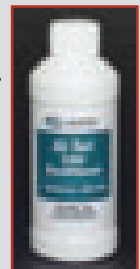
- Removes moisture and dirt from air lines; a float valve automatically ejects water and dirt
- Includes automatic oiler; prevents tools from freezing in cold environments

- 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



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
- Both pneumatic and hydraulic models available
- One-year warranty



**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"
(7/8" pneumatic only)**

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)



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

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

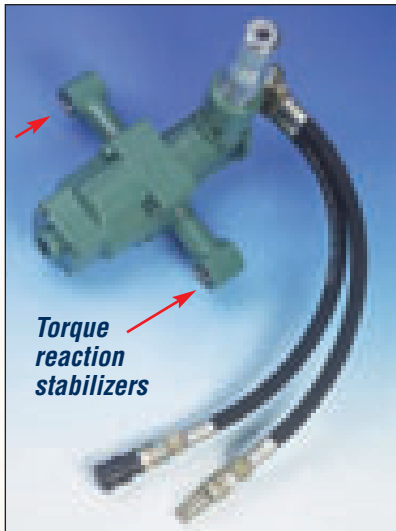
Pneumatic Nut Runner Model No.	Square Drive F=Female M=Male	Stall Torque at 90 PSI (ft.-lbs.)	Free Speed (RPM)	Load Speed (RPM)	Power (HP)	CFM at 90 PSI	Side to Center Distance (inches)	Length (inches)	Weight (lbs.)	Air Connection (inches)	Hose ID (inches)
6 1014 0010	3/4" F	100	180	100	0.9	42	1	22	10	NPT 3/8	1/2
6 1014 0075	3/4" M	100	180	100	0.9	42	1	22	11	NPT 3/8	1/2
6 1014 0099	1/2" M	100	180	100	0.9	42	1	22	11	NPT 3/8	1/2
6 1055 0010	3/4" F	423	44	22	0.9	45	1	21	10	NPT 3/8	1/2
6 1055 0075	3/4" M	423	44	22	0.9	45	1	21	10	NPT 3/8	1/2
6 1055 0099	1/2" M	423	44	22	0.9	45	1	21	10	NPT 3/8	1/2
6 1056 0010	3/4" F	141	120	67	0.9	42	1	21	10	NPT 3/8	1/2
6 1056 0075	3/4" M	141	120	67	0.9	42	1	21	11	NPT 3/8	1/2
6 1056 0099	1/2" M	141	120	67	0.9	42	1	21	11	NPT 3/8	1/2
6 1057 0010	3/4" F	60	260	125	0.9	46	1	21	11	NPT 3/8	1/2
6 1057 0075	3/4" M	60	260	125	0.9	46	1	21	11	NPT 3/8	1/2
6 1057 0099	1/2" M	60	260	125	0.9	46	1	21	11	NPT 3/8	1/2
6 1061 0010	7/8" F	423	44	22	0.9	45	1	21	11	NPT 3/8	1/2

Hydraulic 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)	Oil Flow (GPM)	Oil Pressure (GPM)	Side to Center Distance (inches)	Length (inches)	Weight (lbs.)	Connection Quick Couplers
3 6242 0010*	3/4" F	554	44	22	1.6	4 - 13	1000	1	20	22	1/2" FF
3 6243 0010*	3/4" F	223	44	90	1.6	4 - 13	1000	1	20	22	1/2" FF

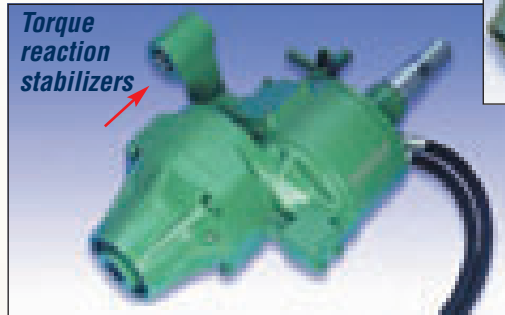
* Also available with 1/2" (3 6242 0099) and 3/4" (3 6242 0075) Male Square Drive

Drive Units - High Torque

Pneumatic and hydraulic: high torque and slow speed for special driving and tapping applications



- Both pneumatic and hydraulic models available
- Integrated torque reaction stabilizers
- One-year warranty

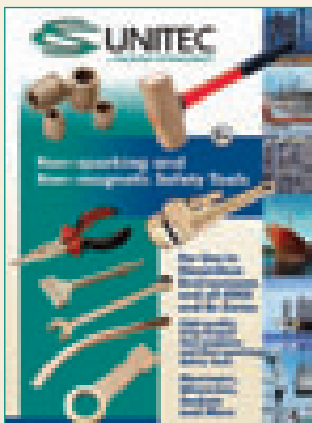


Custom Designs Available

Hydraulic Drive Unit Model No.	Square Drive	Stall Torque at 90 PSI (ft-lbs.)	Free Speed (RPM)	Load Speed (RPM)	Power (HP)	Oil Flow (GPM)	Oil Pressure (PSI)	Side to Center Distance (inches)	Weight (lbs.)	Connection Quick Couplers
2 2090 0010	3/4" F	376	40	20	1.5	4 - 13	1000	2.2	28	1/2" FF
2 2810 0010	1-1/8" F	1550	24	12	3.5	4 - 13	1000	3.6	77	1/2" FF

Pneumatic Drive Unit Model No.	Square Drive	Stall Torque at 90 PSI (ft-lbs.)	Free Speed (RPM)	Load Speed (RPM)	Power (HP)	CFM at 90 PSI	Side to Center Distance (inches)	Weight (lbs.)	Air Connection (inches)	Hose ID (inches)
2 2804 0010	1-1/8" F	1327	40	20	5	141	3.6	82	NPT 1"	1"

Also Available: Safety Tools



For use in ATEX and EX Zones

- High-quality non-sparking and non-magnetic safety tools
- Aluminum Bronze (AlBr) or Copper Beryllium (CuBe) alloy
- Hammers, wrenches, sockets, wedges, chisels and more
- For ATEX and Ex zones where hazardous, flammable or combustible materials are present



**Non-sparking
Non-magnetic**

Request our catalog:
• **Non-sparking Hand Tools**

Super Hand Dry Cutter 8320 BigSaw²

12³/₄" diameter, dry cut up to 4³/₄" depth

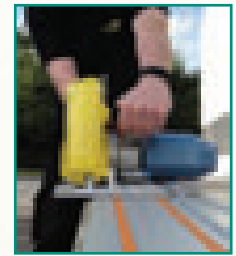
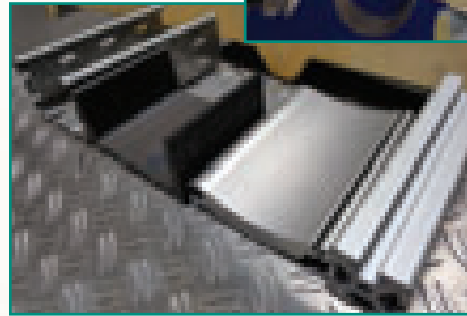
- Largest dry metal cutting saw on the market
- Dry cuts steel, sandwich panels, trapezoidal sheets, conduits, metal pipes and more – without coolant
- Side-mounted tilt tray for disposal of chips
- Motor overload protection with optical overload indicator
- Dust collection port

Model No. 608270 U

Motor Power	16 Amp/115V*
Blade Diameter	12-3/4" (324mm)
Max. Depth of Cut	4-3/4"
Speed (Free)	1,400 RPM
Arbor Size	1"
Blade No. of Teeth	80T
Weight	21 lbs.

* 230V also available – Order No. 608270

Standard equipment includes a carrying case and saw blade (P/N 608276).



8320 BigSaw² Optional Accessory: Guide Rail with Clamping System 2 x 23⁵/₈" Rails (P/N 608275)

- Ideal for straight cutting of sandwich panels and sheets
- Secure and jam-free guidance of saw blade through material
- Rails can be used together for straight edge length up to 47" (1,200mm)



Pneumatic Dry Cutting Saw 9" dia., dry cutting up to 3¹/₄" depth, 3/8" steel plate

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

Model No. 5 1115 0020

Motor Power	2 HP
Blade Diameter	9"
Max. Depth of Cut	3-1/4" at 90° / 2-1/8" at 45°
Speed (Free)	1,700 RPM
Air Consumption	60 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).



Laser Beam Saw (LBS) ultra-thin 9" saw blade for 5 1115 0020 features:

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

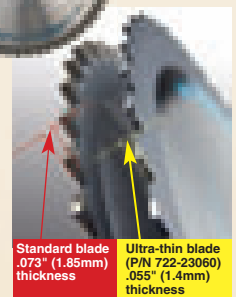
Part Number	No. of Teeth	Blade Thickness	Recommended Use
722-23060*	60	.055"	All-purpose

* Comes standard with the Model 5 1115 0020 Air Metal Saw.

Other standard, dry cutting saw blades available. Contact us for details.



9" diameter
(1" arbor)



Standard blade
0.73" (1.85mm)
thickness

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

Surface Preparation Equipment

Electric and air power for the preparation of concrete, steel and stone.



CS Unitec now offers even more innovative electric and pneumatic equipment for the preparation of steel, concrete and stone. These tools are ideal for industries, including: construction, floor preparation, utilities, marine & offshore, oil & gas, and nuclear decommissioning/remediation, as well as restoration, refurbishment and demolition.

Contact us for more information about our new line of surface preparation equipment.

Hand-held ScaleForce Scaling Hammers and Deck Hammers

Up to 33,000 blows per minute

Ideal for breaking down the hardest of coatings prior to abrasive blast cleaning, reducing cost of blast media and increasing surface preparation productivity. Widely used in the marine industry for removing rust, scale and paint from ship decks, as well as to descale tanks, bridge decks and floating platforms. Low vibration for operator comfort. Options include spark-resistant replacement heads for use in potentially hazardous environments and vacuum shroud to reduce dust.



Trelawny™ – ScaleForce

Peening Preparation Tools – Hand-held Scarifiers

Clean, economical alternative to small-area shot blasting



The PPT line of handheld scarifiers use 3M™ Heavy-duty **Rotopeen™** captive shot flaps or steel cutters for surface preparation. These units are ideal for the removal of alkyds, mastics, adhesives and coatings corrosion from a range of steel and concrete substrates. When part of a dust collection system, these tools more safely remove hazardous materials such as lead-based paints and contaminated particles quickly and cleanly.



Rotopeen™



Needle/Chisel Scalers

Trelawny™ original Vibro-Lo™ low-vibration scalers

Lightweight, easy-to-handle pneumatic units provide up to 3000 blows per minute to remove coatings, corrosion and other accumulated materials. Ideal for all surfaces, especially irregular surfaces that are otherwise difficult to prepare. Also used for chipping, weld dressing and brick/stone cleaning. Optional in-line dust control systems to maintain worksite/environment cleanliness.



Also available from UNITEC:

CS Unitec, Inc. specializes in electric, pneumatic and hydraulic power tools for construction and industry.

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

... the power of innovation!®

For more information, please visit our Web site at www.csunitec.com.



View product demonstrations at www.csunitec.com.

Electric, Pneumatic and Hydraulic Tools

**Surface finishers
for sanding and
polishing steel**



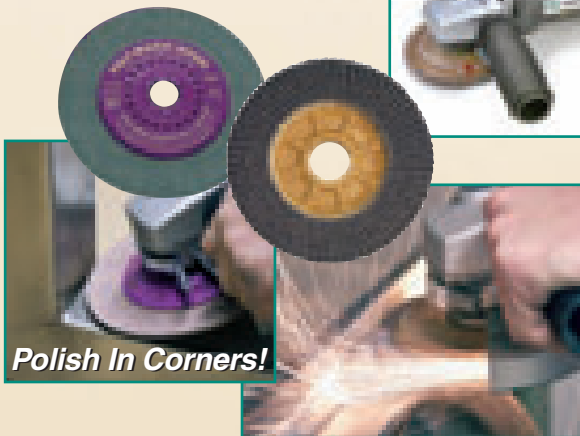
Grind In Corners!



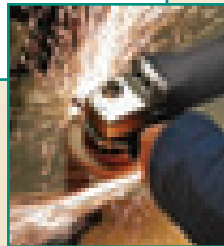
**Pipe sanders
for eliminating
weld seams
and polishing
stainless steel**



PLANTEX®



Polish In Corners!



**Angle grinders and flap discs for grinding,
sanding and polishing, even in corners**

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