Portable Magnetic Drills







p. 28-31 Capacity: ø 1-3/8" to 3-1/16" cutter Professional grade, versatile



p. 32

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



AutoMAB 350 p. 34 Capacity: ø 1-1/2" cutter Automatic feed - forward and reverse



AutoMAB 450 p. 35

MAB 155

Capacity: ø 2" cutter; ø 3/4" twist drill Automatic feed - forward and reverse



MAB 465 p. 36 Capacity: ø 2" cutter; ø 5/8" twist drill Reversible, 2-gear motor



p. 40 MAB 525 & MAB 525 SB

Capacity: ø 2-1/2" cutter; ø 1" twist drill; ø 15/16" tapping Reversible, 2-gear motor Swivel base (MAB 525 SB)



MAB 485 & MAB 485 SB p. 38 Capacity: ø 2-1/16" cutter; ø 7/8" twist drill; ø 15/16" tapping Reversible, 2-gear motor Swivel base (MAB 485 SB)



MAB 825 KTS

Capacity: ø 3-1/8" cutter; ø 1-1/4" twist drill; ø 1-3/16" tapping Multi-axis positioning for boring, slotting, etc. Reversible, 4-gear motor



MAB 825, MAB 825 V & MAB 845 p. 44

Capacity: ø 4-1/16" cutter; ø 1-1/4" twist drill; ø 1-1/8" tapping Auto feed (MAB 825 V) Swivel base (MAB 845) Reversible, 4-gear motor



AIRBOR[™] AB-4300 p.50 Pneumatic power

Capacity: ø 2-1/16" cutter; ø 1/2" twist drill ATEX for hazardous environments



HB 4400 p. 51 Hydraulic power Capacity: ø 2-1/16" cutter; ø 1/2" twist drill For marine, construction and underwater applications



MAB 1300 & MAB 1300 V p. 46-49

Capacity: ø 5-1/8" cutter ø 1-3/4" twist drill ø 1-5/8" tapping Reversible, 4-gear motor Auto-feed and reverse (MAB 1300 V) The ultimate in power



Model 2 1345 0010

p. 52

p. 42

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

Warrantv

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.

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Tools and Accessories



Annular Cutters





HSS Unibroach® p. 56-57

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



TCT Hornetp. 60-61Tungsten carbide-tipped

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



TiAlN Carbide-CoatedUnibroach™p. 58-59For higher working temperatures7(16" to 5 ±1/8" diameter

7/16" to 5-1/8" diameter 1", 2" and 3" depth

One-Touch TCT Cutters Rail Cutters & Cobalt Cutter
Rail Cutters & Cobalt Cutte

Rail Cutters & Cobalt Cutters *p. 63* **Carbide-Tipped Hole Saws** *p. 64*

p. 65-71

p. 62

Accessories









	p. 65-71
Drilling Starter Kits	p. 65
Lubricants and Pilot Pins	p. 66
Arbors and Drill Chucks	p. 67
Extensions and Tapping Tools	p. 68
Countersinks, Drill/Taps and Chip Guard	p.68
MobilCLAMP Convert magnetic drilling machine to bench drill	p. 69
Drilling Stand and Vise Convert hand drill to drill press	p. 69
Vacuum Plates For channeled plates and smooth surfaces	p. 70
Metal Chip Cleanup Tools	p. 70
Pipe Saddle Clamp System Safe, secure drilling of pipes and tubular material	p. 71

Custom Machines & Motors, Hand-Held Drills, Drive Units and More p. 72-80



Electric, Slow-Speed Electric Drills & Drive Units	p. 72-73
Electric Drive Units/Special Motors	p. 74
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Pneumatic/Hydraulic Rotary Hammers	p. 78
Pneumatic Woodboring Drills and AirPac	p. 79
Pneumatic/Hydraulic Nut Runners	p. 80

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Portable Magnetic Drilling Machines

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: TiAIN, HSS, cobalt steel and carbide-tipped
- Our drills have unique features:
- Longest drill stroke in the industry
- Variable-speed, multiple-geared models
- Electric, pneumatic and hydraulic power
- Reversible motors for tapping
- Swivel base stand for hard-to-reach areas
- Battery-operated for on-site cordless drilling

Rugged construction and sophisticated functionality.



Keyless, quickchange system for annular cutters saves time and money. Just twist and lock.

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

Overheating CoolMag **Protection with**

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





SUNITEC

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

Custom machines for unique applications

See page 75 for more information. or call 1-800-700-5919 for design assistance.





Visit our Web site at www.csunitec.com



SafeMag

Svstem

Electronic Safety

Shutoff Sensor

IQ Magnetic System for Active Safety

Magnetic force is the key to safety and success.

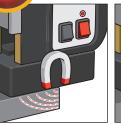
The magnetic force of your magnet depends on a number of factors:

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

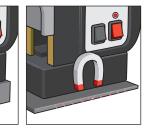
The **SAFEMAG[™] System** measures whether the magnet has sufficient adhesive force on the material. An LED indicator on the switch panel warns you of insufficient magnetic force (Red Light) or tells you if the correct force is present (Green Light).



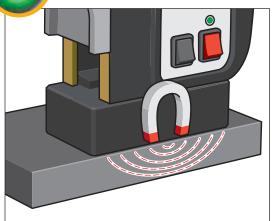
LED red... insufficient magnetic force. Drilling should not take place. Possible causes are too-thin material, coatings of paint, scale or zinc.







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





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.



Magnetic Drill Comparison Chart

|--|--|--|--|--|--|

Annular Cutters Diameter (\$\$)up to \$\$\$\$ 1-3/8"up to \$\$\$\$\$ 1-5/8"up to \$\$\$\$\$ 1-3/4"up to \$	AB 465
Annular Cutters Diameter (a)up to a 1-3/8"up to a 1-5/8"up to a 1-3/4"up to a 1-3/4"up to a 3-1/16"up to a 1-1/2"up to a 1-1/2"up to a 1-1/2"up to a 2"up to a 2"up to a 2"up to a 2"up to a 3-1/16"up to a 1-1/2"up to a 1-1/2"up to a 2"up to a 2"up to a 2"up to a 3-1/16"up to a 1-1/2"up to a 1-1/2"up to a 3-1/16"up to a 1-1/2"up to a 1-1/2"up to a 3-1/16"up to a 1-1/2"up to a 1-1/2"up to a 3/4"up to a	age 36
Diameter (\$\overline{\phi}) \$\overline{\phi}1/2" \$\overline{\phi}5/8" \$\overline{\phi}3/4" \$\overline{\phi}1/4" \$\overline{\phi}1/2" \$\overline{\phi}3/4" \$\overline{\phi}1/2" \$\overline{\phi}3/4" \$\overline{\phi}1/2" \$\overline{\phi}3/4" \$\overline{\phi}1/2" \$\overline{\phi}3/4" \$\overline{\phi}1/2" \$\overline{\phi}3/4" \$\overline{\phi}1/2" \$\overline{\phi}3/4" \$\overlin{\phi}3/4" \$\overline{\phi}3/4"	up to ø 2"
Diameter (ø) Image: Countersinking Diameter (ø) <th>up to 5/8"</th>	up to 5/8"
Diameter (ø) Image: Stroke Stroke 6-1/3" 6-1/3" 6-1/3" 10" 1-1/2" 6"	up to 5/8"
Diameter (ø) Image: Constant of the state o	up to 1-1/2"
Weight 27 lbs. 27 lbs. 29 lbs. 53 lbs. 24 lbs. 33 lbs. 35-1/4 lbs. 24 lbs.	
	6-1/3"
Speed Range 1 450 RPM 430 RPM 250 RPM 110 RPM 460 RPM 460 RPM 250 RPM 50-	9 lbs.
	250 RPM
Speed Range 2 760 RPM 450 RPM 175 RPM 450 RPM 100-	450 RPM
Speed Range 3 245 RPM	
Speed Range 4 385 RPM	
REVERSIBLE	✓
	✓
SafeMag System	
Electronic Safety Shutoff Sensor	1
Tool Holder Set Screw	t Screw
Morse Taper (MT) MT2 MT2	
Safety Friction Clutch	
Torque Control	
Swivel/Adjustable Base	
	5/8" x 3-1/3"

•

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1

6-5/8" x

3-1/3"













	ii						Life	
MAB 485 MAB 485 SB	MAB 525 MAB 525 SB	MAB 825 KTS	MAB 825 MAB 825 V MAB 845	MAB 1300 Mab 1300 V	AIRBOR™	HB 4400	Model 2 1345 0010	Special Features
Page 38	Page 40	Page 42	Page 44	Page 46	Page 50	Page 51	Page 52	
up to ø 2-1/16"	up to ø 2-1/2"	up to ø 3-1/8"	up to ø 4-1/16"	up to ø 5-1/8"	up to ø 2-1/16"	up to ø 2-1/16"	up to ø 4"	Max. hole diameter up to 5-1/8"
up to ø 7/8"	up to ø 1"	up to ø 1-1/4"	up to ø 1-1/4"	up to ø 1-3/4"	up to ø 5/8"	up to ø 1/2"	up to ø 1-1/4"	Max. twist drilling up to 1-3/4"
up to ø 15/16"	up to ø 15/16"	up to ø 1-3/16"	up to ø 1-1/8"	up to ø 1-5/8"			up to ø 1"	Max. tapping up to 1-5/8"
up to ø 1-5/8"	up to ø 2"	up to ø 2"	up to ø 2"	up to ø 3"			up to ø 2"	
up to ø 7/8"	up to ø 7/8"	up to ø 1-1/4"	up to ø 1-1/4"	up to ø 2"			up to ø 1-1/8"	
6-1/3"	6-1/3"	10"	10"	3.35" (12" w/out retainer)	up to 10-1/4"	up to 3-3/4"	12"	
29 lbs.	35 lbs.	99 lbs.	55 lbs.	112 lbs.	43 lbs.	48-1/2 lbs.	50 lbs.	
50-250 RPM	70-280 RPM	40-110 RPM	40-110 RPM	30-80 RPM	400 RPM	0-630 RPM	40-250 RPM	Pneumatic Hydraulic
100-450 RPM	180-580 RPM	65-175 RPM	65-175 RPM	50-120 RPM				
		140-360 RPM	140-360 RPM	130-350 RPM				
		220-600 RPM	220-600 RPM	210-550 RPM				
1	√	1	✓	√			1	Allows thread cutting
1	1	1	1	V				Overheating protection
1	1	1	1	1				Magnet adhesion indicator
1	1		✓	√				Shuts down motor if magnetic contact lost
Quick-change keyless	Quick-change keyless	Set Screw	Quick-change keyless	Set Screw	Set Screw	Set Screw	Set Screw	
MT2	MT3	MT3	MT3	MT4			MT3	
		1	✓	√				



1

1

7-1/8" x

3-1/2"

1

1

8-11/16" x

8-11/16"

•

1

1

8-5/8" x

4-1/3"

8-3/4" x

3-1/2"

1

14" x

4-3/4"

11-11/16" x

4"

7-1/4" x

3"

Swivel/adjustable base





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

Powerful • Reliable

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

Drill up to 1-3/8" dia.

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



With included ¹/2" geared chuck (IBC 18), this model easily converts to a standard drill press with a 3¹/3" stroke for conventional twist drills.

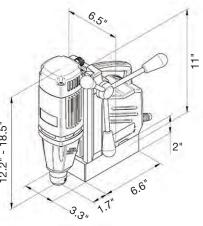


Equipped with Electronic Safety Shutoff Sensor (see p. 25)

Arbor Bore

Internal Lubrication





³/4" Weldon Shank Oil Bottle Included





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



MABasic 200 Specifications Motor Power 8.2 Amp / 110 Volt Weight 27 lbs. **Hole Capacity** 1³/8" dia. **Twist Drill Capacity** 1/2" dia. Speed 450 RPM Magnet Base Size 65/8" L x 31/3" W 121/4" H x 9" L x 61/2" W Dimensions Magnetic Force (1" plate) 3080 lbs.

► Annular Cutters: pages 54-64 ► Accessories: pages 65-71



Cutters: pages 54-64

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Two gears – powerful and reliable



Cutter capacity 1 ⁵/8" dia.

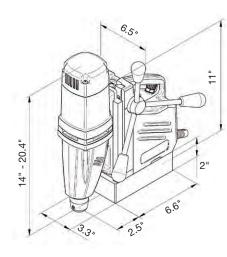
With included 1/2" geared chuck (IBC 18), the MABasic 400 easily converts to standard drill press with a $3^{1/3}$ " stroke for conventional twist drills.

motor • 3/4" direct arbor Drill up to 1-5/8" dia.

9.5 Amp double-insulated

Powerful • Reliable

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





Equipped with Electronic Safety Shutoff Sensor (see p. 25

MABasic 400 Specifications

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

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



Annular Cutters: pages 54-64 > Accessories: pages 65-71







Cutter capacity 1 ³/4" dia.

Professional-grade, two-speed versatility

Powerful • Reliable

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

Drill up to 1-3/4" dia.

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





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

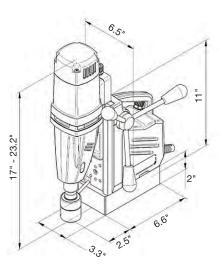




Standard Equipment includes lubrication bottle, 3/4" geared chuck, safety strap, carabin hook, allen keys, pilot pin and carrying case.



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



MABasic 450 Specifications

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

► Annular Cutters: pages 54-64 ► Accessories: pages 65-71

4-gear, powerful motor for demanding jobs

Cutter capacity 3¹/16" dia.

Powerful • Reliable

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

Drill up to 3-1/16" dia.

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



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

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4.33" 2	.19		
pment inc ck.	ludes		

Standard Equipme

3/4" geared chuck, safety strap, carabin hook, allen keys, pilot pin and carrying case.

19.33" - 29.56"





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MABasic 850 Specifications				
Motor Power	16 Amp / 110 Volt			
Weight	53 lbs.			
Hole Capacity	3 ¹ /16" dia.*			
Twist Drill Capacity	1 ¹ /4" dia.			
Speed	1: 110 RPM, 2: 175 RPM			
Speed	3: 245 RPM, 4: 385 RPM			
Magnet Base Size	8 ⁵ /8" L x 4 ¹ /3" W			
Dimensions	19 ³ /8" H x 11 ⁵ /8" L x 8 ¹ /4"			
Dimensions	W			
Magnetic Force (1" plate)	6000 lbs.			
Arbor Bore	³ /4" Weldon Shank			
Spindle	MT3			
Internal Lubrication	Included			
* 3-1/16" cutters have 1-1/4" Weldon sha	ank. Part No. ZIA 30/32 arbor is required.			

Weldon shank. Part No. ZIA 30/32

>Annular Cutters: pages 54-64 > Accessories: pages 65-71

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MAB 155

Cutter capacity 1¹/2" dia.

DRILLS

MAGNETIC

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ORTA

Δ.

Horizontal motor mount for drilling in tight spaces

Powerful • Reliable

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

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

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

Integrated Safety

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



advancing mechanism for work in spaces with limited clearance.

INITEC

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

> MAB 155 uses standard 3/4" shank annular cutters



Switches for power and magnet adhesion are uncomplicated



Cutter Capacity Stroke (length) Ø 11/2" 1¹/2"



Speed Range

(RPM)

460

1-800-700-5919

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

► Annular Cutters: pages 54-64 ► Accessories: pages 65-71

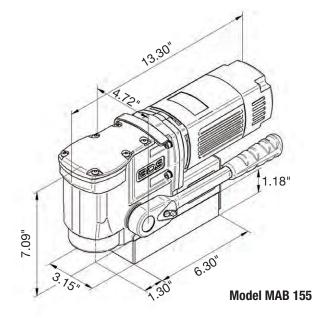
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arranged for simple, operation.

MAB 155 Specifications









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

MABasic 155 Specifications				
Motor Power	9.25 Amp / 110 Volt			
Weight	24 lbs.			
Hole Capacity	1 ¹ /2" dia.			
Speed	460 RPM			
Magnet Base Size	6 ⁵ /16" L x 3 ³ /16" W			
Dimensions	7 ¹ /8" H x 13 ⁵ /16" L x 4 ³ /4"			
Dimensions	W			
Magnetic Force (1" plate)	2640 lbs.			
Arbor Bore	³ /4" Weldon Shank			





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

See pages 56-61 for our HSS, TiAIN and Carbide-tipped cutters.

Standard Equipment

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



1-800-700-5919

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PORTABLE MAGNETIC DRILLS

>Annular Cutters: pages 54-64 > Accessories: pages 65-71







Cutter capacity 1 ¹/2" dia.

Compact drill with automatic feed – forward and reverse



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

Drill up to 1-1/2" dia.

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

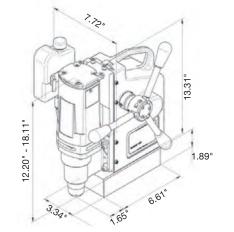
Integrated Safety

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



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





Model AutoMAB 350	Specifications
Motor Power	10.5 Amp / 110 Volt
Weight	33 lbs.
Hole Capacity	1 ¹ /2" dia.
Drilling Depth	2-3/8" with pilot pin 4-3/8" without pilot pin
Speed	460 RPM
Magnet Base Size	6 ⁵ /8" L x 3 ¹ /3" W
Dimensions	12 ¹ /4" H x 8 ³ /4" L x 7 ³ /4" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	³ /4" Weldon Shank
Automatic Lubrication	Included
Spindle	-

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

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

>Annular Cutters: pages 54-64 > Accessories: pages 65-71

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34

AutoMAB 450



Powerful • Reliable

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

Drill up to 2" dia.*

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

Integrated Safety

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



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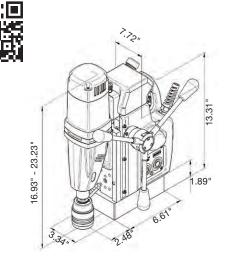
Motor Power	10.5 Amp / 110 Volt
Weight	35 ¹ /4 lbs.
Hole Capacity	2" dia.*
Drilling Depth	2-3/8" with pilot pin 4-3/8" without pilot pin
Speed	250 / 450 RPM (2 gears)
Magnet Base Size	6 ⁵ /8" L x 3 ¹ /3" W
Dimensions	16 ⁷ /8" H x 9 ¹ /8" L x 7 ³ /4" W
Magnetic Force (1" plate)	3750 lbs.
Arbor Bore	³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

Standard Equipment includes auto lubrication, safety strap, carabin hook, MT2 drift key, allen keys and steel carrying case.[†]

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

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



Annular Cutters: pages 54-64 > Accessories: pages 65-71



1-800-700-5919



MAB 465

Cutter capacity 2" dia.

Reversible motor ideal for tapping and twist drilling



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

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

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

Integrated Safety

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

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

* 2" with TCT Annular Cutters; 1-5/8" capacity with all other cutters

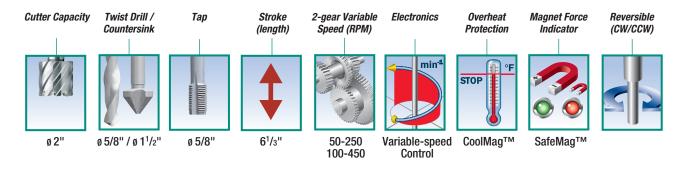




Optional Geared Chucks

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

INITEC



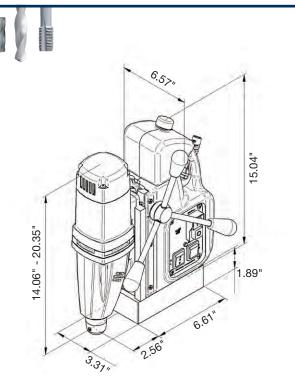
>Annular Cutters: pages 54-64 > Accessories: pages 65-71

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1-800-700-5919

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MAB 465 Specifications



MABasic 465 Specifications		
Motor Power	9.5 Amp / 110 Volt	
Weight	29 lbs.	
Hole Capacity	2" dia.	
Twist Drill Capacity	5/8" dia.	
Speed	50-250 and 100-450 RPM	
Magnet Base Size	6 ⁵ /8" L x 3 ¹ /3" W	
Dimensions	14 ¹ /8" H x 9 ⁵ /8" L x 6 ¹ /2" W	
Magnetic Force (1" plate)	3750 lbs.	
Arbor Bore	³ /4" Weldon Shank	
Automatic Lubrication	Included	
* 2" with TCT Annular Cutters: 1-5/8" canacity with all other cutters		

* 2" with TCT Annular Cutters; 1-5/8" capacity with all other cutters

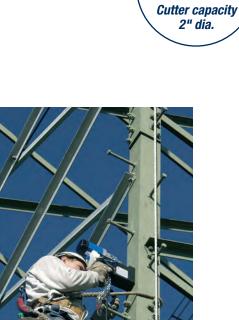
Standard Equipment

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

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

Model MAB 465





BDS

JNITEC

n Germany

Powered by





See pages 56-61 for our HSS, TiAlN and Carbide-tipped cutters.



>Annular Cutters: pages 54-64 > Accessories: pages 65-71

• 1-800-700-5919 •

MAB 485 & MAB 485 SB



Versatile for workshop and assembly applications

REVERSIBLE



Integrated Safety

Internal cable routing

Emergency-off function

Green/Red LED magnetic force

· Simple, ergonomic arrangement of

controls for one-handed operation

Interna

cable routing

protects the motor power cord from

external damage

Equipped with Electronic

Safety Shutoff Sensor (see p. 25)

indicator for safe operation



Powerful • Reliable

- 10.5 Amp doubleinsulated motor
- 17-1/4" high, 29 lbs.

control

- High-speed, variable-speed oilbath gearbox, ideal for
- annular cutters and twist drills
- Designed for continuous use Intelligent electronic torque

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

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

Keyless Cutter Mount

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



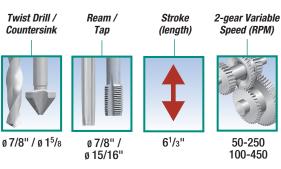
Cutter Capacity

Ø 2¹/16

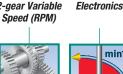
With included 3/4" chuck (IBC 22), this model easily converts to a standard drill press for conventional twist drills.



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



1-800-700-5919





Variable-speed Control



Overheat

Protection

CoolMag™



Magnet Force

Indicator



Reversible

(CW/CCW)

SafeMag™

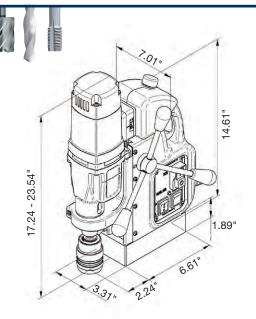




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MAB 485 & MAB 485 SB Specifications



Model MAB 485 & MAB 485 SB

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

REVERSIBLE

BDS

Cutter capacity 2¹/16" dia.

JNITEC



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

>Annular Cutters: pages 54-64 > Accessories: pages 65-71



Standard Equipment
1 Magnetic drilling machine

1 Quick-change arbor system

2 Pilot pins - 1" and 2" depth

1 Manual arbor with set screws, Weldon

Tap collet adapters - 1/4", 3/8", 1/2" and 3/4"

KEYLESS Weldon 3/4"

3/4", MT2

1 Safety chain

1 Drift key MT2

1 Geared chuck, 3/4"

1 Warranty certificate

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Standard Equipment

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





MAB 525 & MAB 525 SB



High power, ideal for production use



Powerful • Reliable

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

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

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

Keyless Cutter Mount

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

Integrated Safety

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

Twist Drill /

Countersink

ø1"/ø2"

Annular Cutters: pages 54-64 > Accessories: pages 65-71

Emergency-off function

Cutter Capacity

Ø 21/2"

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

Ream /

Тар

ø 7/8" / ø 15/16"

•



2-gear Variable Electronics

Speed (RPM)

70-280

180-580



Variable-speed Control

Overheat Protection







SafeMag™







CoolMag™

UNITEC

1-800-700-5919

Stroke

(length)

6¹/3"

REVERSIBLE



Equipped with Electronic

Safety Shutoff Sensor (see p. 25)

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

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DRILL

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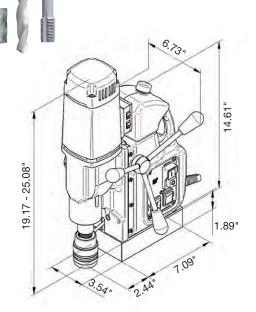
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MAB 525 & MAB 525 SB Specifications



Model MAB 525 & MAB 525 SB

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

Standard Equipment

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

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

Standard





BDS



JNITEC





See pages 56-61 for our HSS, TiAIN and Carbide-tipped cutters.



>Annular Cutters: pages 54-64 > Accessories: pages 65-71



MAB 825 KTS

Versatile machine with adjustable X and Y positioning

Powerful • Reliable

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

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

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

Integrated Safety

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

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1-800-700-5919

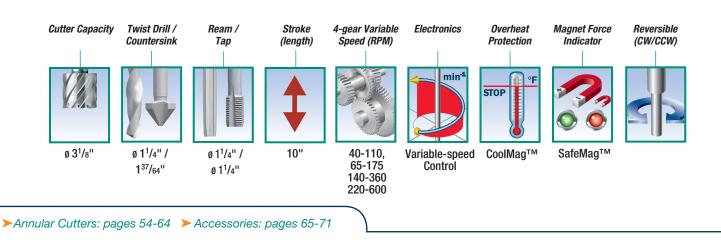
• Emergency-off function







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



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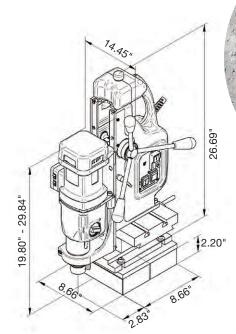
RILL

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MAB 825 KTS









Chuck Collet Tool Holder Set with Case

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

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

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Standard Equipment

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

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

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

Model MAB 825 KTS Specifications				
Motor Power	16 Amp / 110 Volt			
Weight	99 lbs.			
Hole Capacity	3 ¹ /8" dia.			
Twist Drill Capacity	1 ¹ /4" dia.			
Tapping Capacity	1 ³ /16" dia.			
Speed	40-110, 65-175 140-360, 220-600 RPM			
Magnet Base Size	8 ¹¹ /16" L x 8 ¹¹ /16" W			
Dimensions	19 ³ /4" H x 13" L x 14 ¹ /2" W			
Magnetic Force (1" plate)	6600 lbs.			
Arbor Bore	³ /4" and 1 ¹ /4", standard			
Spindle	MT3			
Automatic Lubrication Included				
Orthogol 0/411 around about a surilable (Pert No. 180.01)				

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

Annular Cutters: pages 54-64 > Accessories: pages 65-71



1-800-700-5919 •



Cutter capacity 4¹/16" dia.

Ideal for steel engineering, plant construction and more



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

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

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

Keyless Cutter Mount

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

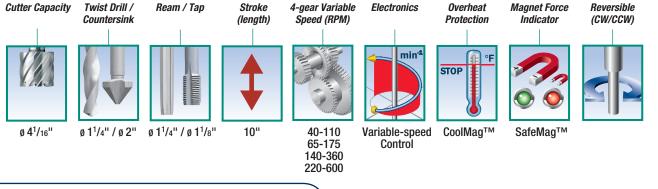
Integrated Safety

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



Internal

cable routing



Annular Cutters: pages 54-64 > Accessories: pages 65-71

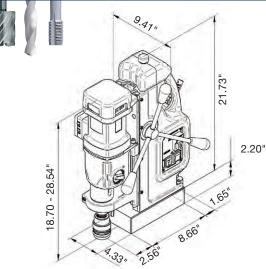
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JNITEC in Germ

REVERSIBLE

MAB 825 & MAB 845 Specifications



Model MAB 825, 825 V & 845

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

Model MAB 825 & 845 Specifications				
Motor Power	16 Amp / 110 Volt			
Weight	55 lbs.			
Hole Capacity	4 ¹ /16" dia.			
Twist Drill Capacity	1 ¹ /4" dia.			
Tapping Capacity11/8" dia.				
Speed	40-110, 65-175, 140-360, 220-600 RPM			
Magnet Base Size	8 ⁵ /8" L x 4 ¹ /3" W			
Dimensions	18 ⁵ /8" H x 14 ⁷ /16" L x 9 ⁷ /16" W			
Magnetic Force (1" plate)	6600 lbs.			
Arbor Bore	³ /4" and 1 ¹ /4", standard			
Spindle	MT3			
Automatic Lubrication	Included			
Automatic Feed	Order MAB 825 V			
Swivel Base	Order MAB 845			

Standard Equipment

- 1 Magnetic drilling machine
- 1 Quick-change arbor system KEYLESS Weldon 3/4"
- 1 Manual arbor with set screws, Weldon 3/4", MT3
- 1 Arbor 1¹/₄" 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**



1-800-700-5919

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

* Optional accessory for MAB 825 V ** Not available for MAB 825 V



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REVERS

Cutter capacity 4¹/16" dia.



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

Rolling Transport Case

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



Annular Cutters: pages 54-64 > Accessories: pages 65-71







MAB 1300

Large holes – up to 5^{1}/8^{"} diameter

Tapping up to 1⁵/8" diameter



REVERSIBI

Equipped with Electronic

Safety Shutoff Sensor

(see p. 25)

4 Gears

with Variable

Speed

Twist Drilling

Tapping

Reaming

Countersinking

5¹/8" dia.

Powerful • Reliable

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

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

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

Integrated Safety

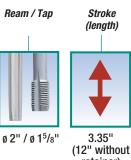
- Green/Red LED magnetic force indicator for safe operation
- Equipped with Electronic Safety Shutoff Sensor
- Emergency-off function

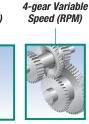
Ideal for use with TCT Carbide cutters up to $5^{1}/8''$ dia. – see pages 60-61.

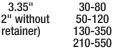


* 3" depth cutters or longer require purchase of ZIA 432 KN adapter.













Electronics



STOP

CoolMag™











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UNITEC . 1-800-700-5919

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Optional Special-Purpose Cutting Tool

MAB 1300 Specifications





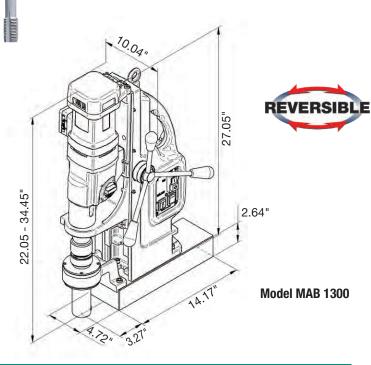
" dia.







Annular Cutters: pages 54-64 > Accessories: pages 65-71



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.		
Speed	30-80, 50-120, 130-350, 210-550 RPM		
Magnet Base Size	14" L x 4 ³ /4" W		
Dimensions	22" H x 19 ¹ /2" L x 10" W		
Magnetic Force (1" plate)	23,600 lbs.		
Arbor Bore	1 ¹ /4" (³ /4" adapter included)		
Spindle	MT4		
Automatic Lubrication	Included		
** Maximum hale diseasets is with TOT Oschida sufferences and 00 01			

** Maximum hole diameter is with TCT Carbide cutters - see p. 60-61

Standard Equipment

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



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



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MAB 1300 V



Strongest magnetic drill with adjustable automatic feed and reverse

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

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





Drill automatically

Drill manually

Automatic feed motor



Rolling Transport Case for MAB 1300

Order No. ZHK 1300

Robust transport case with wheels, carrying handle and sturdy closures. Protect your investment from water and dust with this rugged case. Four large ABS locks and an interior configuration customized for machine to secure

drill and accessories during transit. Lightweight, heavyduty plastic construction and robust ABS wheels.

Drill not included with ZHK 1300. Purchase of MAB 1300 drill includes ZHK 1300 case. See page 45 for MAB 825/845 case.



Four large ABS locks secure the robust plastic case



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





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

Heavy-duty Tap Holders

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

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



Part No. GSW 444 guick-change tapping

2011111	TOTIIT	1211111
22mm	18mm	14.5mm
27mm	20mm	16mm
33mm	32mm	20mm
42mm	32mm	24mm
	84	
ALC: NO.	Als .	

See page 68 for additional tapping options.



Tap Collets and Reducing Adapters

Tap Collets with 3/4" or 1-1/4" Weldon shank all threads shown are ASA Standard (or DIN 376 for metric) Thread Order No. Thread Order No. **TCM 1/4** 10mm ZGA 010 1/4 **TCM 5/16** 5/16 12mm ZGA 012 3/8 TCM 3/8 14mm ZGA 014 **TCM 7/16** 16mm ZGA 016 7/16 18mm ZGA 018 1/2TCM 1/2 9/16 **TCM 9/16** 20mm ZGA 020 TCM 5/8 22mm ZGA 022 5/8 24mm ZGA 024 11/16 TCM 11/16 TCM 3/4 27mm ZGA 027 3/41-1/4" Weldon shank: 1-1/4" Weldon shank: TCM 1 33mm ZGA 033 1 1-1/4 TCM 1-1/4 42mm ZGA 044

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



DRILLS

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Reducing Sleeves DIN 2185



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

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

Unibroach[®] Large-Hole Cutting Cut holes up to 5-1/8" dia., 12" deep!

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



Drill perfect holes up to 5¹/₈" diameter without runout

- Standard with ³/₄" or 1¹/₄" shank diameters
- More cutting teeth to distribute the load evenly increase tool life and achieve faster feed rates
- Use on milling machines, drill presses, CNC and other equipment
- A solid slug has a higher value for scrap metal

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



AIRBOR™ AB-4300

Motor and magnet are powered completely by compressed air

Cutter capacity 2 1/16" dia.

Pneumatic power for hazardous environments

AIRBOR

MAGNET

OFF

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DRILL

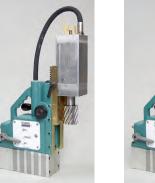
ATEX Certified

Safe • Reliable

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

Drill up to 2-1/16" dia.

- Uses annular cutters up to 2-1/16" dia.
- Twist drilling capacity up to 5/8" dia.
- Powerful 1.6 HP drill motor
- Long drill stroke up to 101/4"
- Pressurized coolant system lubricates cutter and reduces risk of sparking





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

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

Annular Cutters: pages 54-64 > Accessories: pages 65-71

UNITEC

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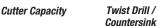


With a geared chuck adapter (Part No. IBC 18) and extra rack (Model No. AB-4300-2R), AIRBOR™ easily converts to a standard drill press with a $7^{1}/2^{"}$ stroke.



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



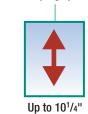


Model AB-4300-2

T.







Stroke

(length)



Speed Range

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

Motor Power (Pneumatic)	1.6 HP
Air Consumption @ 90 PSI	64 CFM (1/2" NPT Air Connection)
Hole Capacity	2 ¹ /16" dia.
No Load Speed	400 RPM
Magnet Base Size	8 ³ /4" L x 3 ¹ /2" W
Dimensions	13 ¹ /2" H x 12 ¹ /2" L x 4 ³ /4" W
Magnetic Force (1" plate)	1600 lbs.
Arbor Bore	³ /4" Weldon Shank
Automatic Lubrication	Included
Stroke Length 47/8"	Order Model AB-4300-2
Stroke Length 10 ¹ /4"	Order Model AB-4300-2R

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HB 4400 for Subsea Drilling

Hydraulic for marine and construction – works underwater

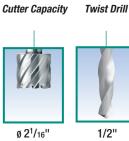
Cutter capacity 2 1/16" dia.

Safe • Reliable

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

Drill up to 2-1/16" dia.

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





Stroke



Speed Range

(RPM)

0-630



•



chuck (Part No. 602045A), this model easily converts to a standard drill press with a

Model HB 4400 Hoses not included

Model HB 4400 Specifi	cations	
Motor Power (Hydraulic)	1.5 HP	
Weight	48 ¹ / ₂ lbs.	
Hole Capacity	2 ¹ /16" dia.	品代出
Twist Drill Capacity	¹ /2" dia.	
No Load Speed, Variable	0-630 RPM	
Hydraulic Supply	Flow 6.5 GPM @	2000 PSI
Magnet Base Size	7 ¹ /4" L x 3" W	
Dimensions	18 ¹ /2" H x 12 ¹ /2" I	_x7"W
Magnetic Force (1" plate)	1300 lbs.	
Automatic Lubrication	Included	

Annular Cutters: pages 54-64 > Accessories: pages 65-71

Model 2 1345 0010 – Hydraulic

Cutter capacity 4" dia.

Ideal for use in Ex Zones and subsea applications

ATEX Certified

Safe • Reliable

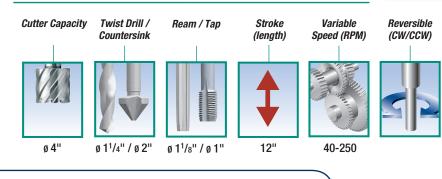
- Hydraulic motor safe for underwater use
- Ideal for industrial, construction, marine and mining applications
- ATEX Certified EX II 2Gc IIB T5
- Drill structural steel and other metals
- Manually operated permanent magnet with lever control has holding strength of 1874 lbs.

Drill up to 4" dia.

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

Model 2 1345 0010 Specifications

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



1-800-700-5919

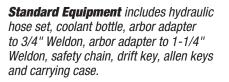


Pipe Clamp - Model 2 1330 8500



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

Extension chains available for pipes up to 43-1/4" dia. P/N 5 1201 9030* – For pipes up to 31-1/2" (800mm) P/N 5 1201 9020* – For pipes up to 43-1/4" (1100mm) * 2 pieces needed for one clamp



>Annular Cutters: pages 54-64 > Accessories: pages 65-71

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Visit our Web site at www.csunitec.com

Underwater Tools

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

Grinders - Hydraulic

1 1580 0060 N	Underwater Hydraulic Horizontal Grinder, 1.3HP, 7000 RPM, Twist throttle, straight grinding wheels
1 1585 0010	Underwater Hydraulic Angle Grinder, 1.3HP, 5500 RPM, Lever throttle, grinding wheels up to 7"
1 5080 0020	Underwater Hydraulic Peanut Die Grinder, 1.0 HP, 11,500 RPM, Lever throttle, 1/4" collet
1 2060 0010	Underwater Hydraulic Vertical Grinder, 4.75 HP, 3600 RPM, grinding wheels up to 9"

Rotary Hammer Drills - Hydraulic and Pneumatic

- 2 2404 0030 Underwater Air Rotary Hammer Drill, SDS Plus, 1" cap. in concrete, 0-3000 BPM, .5 HP, 90 PSI / 21 CFM 2 2417 0010 Underwater Air Rotary Hammer Drill, SDS Max, 2" cap. in concrete,
- 0-2500 BPM, 1.2 HP, 90 PSI / 21 CFM 2 2426 0010 Underwater Hydraulic Rotary Hammer Drill, SDS Plus, 1" cap. in concrete,
- 0-3400 BPM, .8 HP; includes built-in pressure reducing valve 2 2418 0020 Underwater Hydraulic Rotary Hammer Drill, SDS Max, 2" cap. in concrete,
- 2500 BPM, 1.75 HP, includes pressure reducing valve

Core Drills - Hydraulic and Pneumatic

2 1317 0030 Underwater Hydraulic Core Drill, 3" max. dia., 3.6 HP, 380/900/1800 RPM 2 1335 0010 Underwater Pneumatic Core Drill, 3" max. dia., 3.8 HP, 300/700/1350 RPM

Impact Wrenches - Hydraulic and Pneumatic

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

Other Underwater Tools Available: Woodboring Drills – Pneumatic See page 79 Reciprocating Saws – Hydraulic and Air See page 120-121 Hacksaws – Hydraulic See page 124-125 Chain Saws – Air and Hydraulic















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

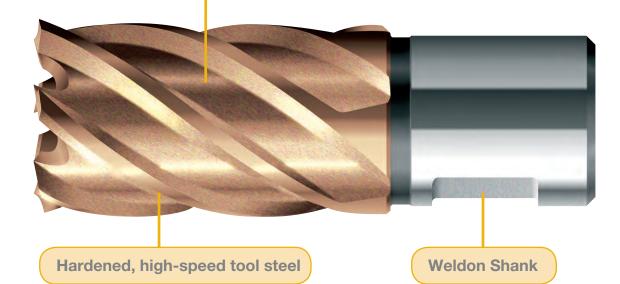


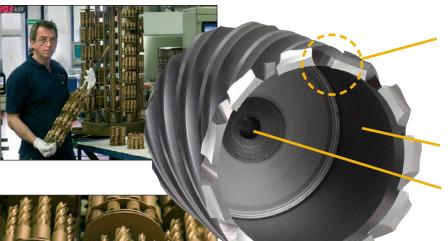


Annular Cutters

Achieve burr-free finished holes, without predrilling or stepdrilling

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





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.

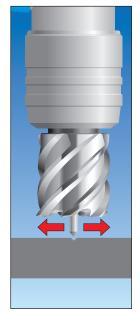
Perfect drilling to close tolerances without runout. The result: a burr-free finished hole.



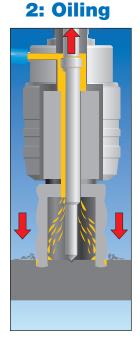
54

Pilot Pins: How they work...

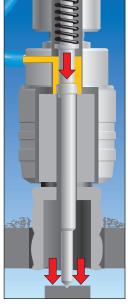
1: Centering



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



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.

Fully ground HS	SS annular cutte	rs					
Cutting depth:	1"	2"	3"	4"	6"	8"	
Drilling ø:	7/16" - 5-1/8"	7/16" - 5-1/8"	3/4" - 5-1/8"	3/4" - 6"	3/4" - 6"	3/4" - 6"	

) g							
Cutting depth:	1"	2"	3"				
Drilling ø:	7/16" - 5-1/8"	7/16" - 5-1/8"	3/4" - 5-1/8"				
9-Series Unib	roach™ TCT ⊦	lornet Annular Cu	tters – Pages 60-	61			
Sintered carbic	de annular cutte	rs with Tungsten C	arbide tips				
Cutting depth:	1"*	2-3/8"	3-3/8"	4"	6"	8"	
Drilling ø:	1/2" - 2"	1/2" - 5-1/8"	3/4" - 5-1/8"	3/4" - 6"	3/4" - 6"	3/4" - 6"	444

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

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

For Cobalt Cutters, Rail Cutters and special sizes, see page 63. For One-Touch TCT Cutters, see page 62.



See pages 65-71 for Drill Accessories

CUTTERS

ANNULAR

Unibroach® Annular Cutters

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



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

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

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

Special sizes available; metric cutters available on request. Every annular cutter up to 4" DOC includes a pilot pin.*

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

See page 66 for CS Unitec lubricants and cutting oil.

200 ft./min. **Mild Steel**

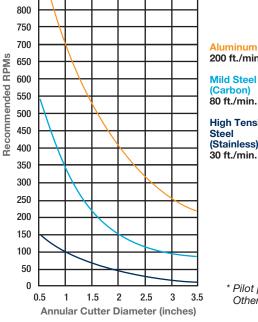
(Carbon) 80 ft./min.

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











See page 65 for HSS Annular Cutter Starter Kit.



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

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

6-Series HSS

1" D	epth	2" D	epth	3" De	epth*
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"	6-1-322	11/16"
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"

-326	13/16"
-328	7/8"
	15/16"
	1"
224	1-1/16"
-336	1-1/8"
-338	1-3/16"
	1-1/4"
-342	1-5/16"
-344	1-3/8"
-346	1-7/16"
	1-1/2"
	1-9/16"
-350	
	1-5/8"
	1-11/16"
-356	1-3/4"
-358	1-13/16"
	1-7/8"
-362	1-15/16"
-364	2"
266	2-1/16"
-300	2-1/10"
0.02	0.4/0"
	2-1/8"
-370	2-3/16"
-372	2-1/4"
-374	2-5/16"
	2-3/8"
-378	2-7/16"
280	2-1/2"
	2-9/16"
-384	2-5/8"
	2-11/16"
-388	2-3/4"
-390	2-13/16"
-392	2-7/8"
	2-15/16"
	3"
-390	3
	3-1/16"
-3100	3-1/8"
-3102	3-3/16"
-3104	3-1/4"
-3106	3-5/16"
2100	3-3/8"
	3-7/16"
-3112	3-1/2"
	3-9/16"
-3116	3-5/8"
-3118	3-11/16"
-3120	3-3/4"
-3122	3-13/16"
	2 7/0"
-3124	3-7/8"
	3-15/16"
-3128	4"
	-330 -332 -334 -336 -338 -340 -342 -344 -346 -348 -350 -352 -354 -356 -358 -360 -358 -360 -368 -368 -368 -368 -368 -368 -368 -368 -370 -372 -374 -376 -378 -388 -388 -388 -388 -388 -388 -388 -388 -388 -390 -372 -374 -378 -378 -388 -388 -388 -388 -390 -392 -394 -3102 -3104 -3108 -3102 -3104 -3102 -3114 -3116 -3118 -3122 -3124 -3124 -3126





Shank size:

3/4" for cutters up to 3" dia. 1-1/4" for cutters 3-1/16 to 5-1/8" dia. Pilot pin included with every annular cutter up to 4" DOC

Cutter Kits

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

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

Pilot Pins for 6-Series

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

Option for Cutters 3" and 4" Depth

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

Option for Cutters 6" and 8" Depth

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

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



See pages 65-71 for Drill Accessories



Unibroach[®] Annular Cutters

TiAIN Carbide coating for up to 4x tool life, less friction and more powerLess Friction = Less Heat = More Holes!



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

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

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



Special sizes available; metric cutters available on request. Every annular cutter up to 4" DOC includes a corresponding pilot pin.

- 3 to 4 times longer tool life with TiAIN Carbide coating
- Drill with less friction and more power
- Withstands higher working temperatures up to 1480°F (800°C)
- Dry drilling or lubricating with water simplifies working conditions and cleanup*
- Prevents cold weld metal chips do not adhere to the cutter
- Ideal for structural steel and hard metal
- ³/4" dia. shank (1¹/4" dia. shank available)

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



Aluminum 200 ft./min.

Mild Steel (Carbon) 80 ft./min. High Tensile Steel

(Stainless) 30 ft./min.

1-800-700-5919



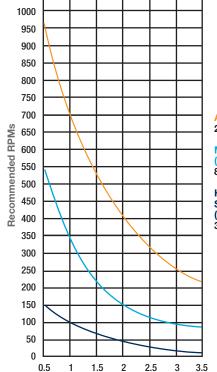


See page 65 for ARMOR-PLATED Unibroach™ TiAIN Carbide-Coated Annular Cutter Starter Kit.

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

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

1050



Annular Cutter Diameter (inches)

SUNITEC

Visit our Web site at www.csunitec.com

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.



1" D	epth	2
Order No.	Diameter	Order No
8-1-114 T	7/16"	8-1-21
8-1-116 T	1/2"	8-1-21
8-1-118 T	9/16"	8-1-21
8-1-120 T	5/8"	8-1-22
8-1-122 T	11/16"	8-1-22
8-1-124 T	3/4"	8-1-22
8-1-126 T	13/16"	8-1-22
8-1-128 T	7/8"	8-1-22
8-1-130 T	15/16"	8-1-23
8-1-132 T	1"	8-1-23
8-1-134 T	1-1/16"	8-1-23
8-1-136 T	1-1/8"	8-1-23
8-1-138 T	1-3/16"	8-1-23
8-1-140 T	1-1/4"	8-1-24
8-1-142 T	1-5/16"	8-1-24
8-1-144 T	1-3/8"	8-1-24
8-1-146 T	1-7/16"	8-1-24
8-1-148 T	1-1/2"	8-1-24
8-1-150 T	1-9/16"	8-1-25
8-1-152 T	1-5/8"	8-1-25
8-1-154 T	1-11/16"	8-1-25
8-1-156 T	1-3/4"	8-1-25
8-1-158 T	1-13/16"	8-1-25
8-1-160 T	1-7/8"	8-1-26
8-1-162 T	1-15/16"	8-1-26
8-1-164 T	2"	8-1-26
8-1-166 T	2-1/16"	8-1-26

2" Depth Diameter 7/16" 14 T 16 T 1/2" 18 T 9/16" 5/8" 20 T 22 T 11/16" 24 T 3/4" 26 T 13/16" 7/8" 28 T 30 T 15/16" 32 T 1" 34 T 1-1/16" 36 T 1-1/8" 1-3/16' 38 T 40 T 1-1/4" 42 T 1-5/16" 44 T 1-3/8" 46 T 1-7/16" 48 T 1-1/2" 50 T 1-9/16" 52 T 1-5/8" 54 T 1-11/16" 1-3/4" 56 T 58 T 1-13/16" 60 T 1-7/8" 62 T 1-15/16" 64 T 2" 2-1/16" 66 T

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

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

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

Each armor- the following	R-PLATED Cutter Kits -plated cutter kit comes with g: 9/16",11/16", 13/16", 15/16", ot pins & carrying case.
Order No.	Description
8-1-001 T	1" depth Cutter Kit
8-1-002 T	2" depth Cutter Kit
Pilot	Pins for 8-Series
Order No.	Description
	For 3/4" Shanks
7-3-102	7/16" - 3" dia., 1" depth
7-3-202	7/16" - 3" dia., 2" depth
7-3-302	3/4" - 3" dia., 3" depth

Option for Cutters 3" and 4" Depth

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

3"+ Diameter Cutters

Metric and larger diameter cutters available on request.

ARMOR-PLATED Unibroach™ TiAIN Carbide-Coated Cutters:

- Drill with less friction and more power
- Withstand higher working temperatures up to 1480°F (800°C)
- Dry drill or lubricate with water to simplify working conditions and cleanup**

1-800-700-5919

- Prevent cold weld metal chips do not adhere to the cutter
- Are ideal for structural steel and hard metal

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

See pages 65-71 for Drill Accessories



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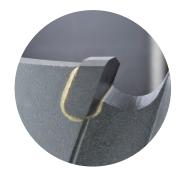
Visit our Web site at www.csunitec.com

Unibroach[®] Annular Cutters

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



- Use high-speed RPM for best results and faster holemaking
- Ideal for drilling steel with rust or paint and bolting applications
- Will outlast High-speed Steel cutters
- Leaves a burr-free finished hole
- Available in all sizes (fractional and metric)
- 2 flats
- 3/4" or 11/4" shank



Closeup of tungstencarbide teeth.

TCT Hornet cutters are available in the following sizes:

Drill Depth	1"	1-3/8"	2-3/8"	3-3/8"	4"	6"	8"
Diameter	ø ¹ /2" to ø 1 ¹ /2"	ø 1 ⁹ / ₁₆ " to ø 2"	to	Ø ³ /4" to Ø 5 ¹ /8"	to	Ø ¹³ / ₁₆ " to Ø 6"	ø ¹³ / ₁₆ " to ø 6"

Special sizes available; metric cutters available on request. Every annular cutter up to 4" DOC includes a corresponding pilot pin.*



Armor plating available upon request.



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

9-Series Annular Cutter Recommended RPM Rates

Cutter Size	Stainless & Alloy Steel	Mild Steel	Iron Plate
Diameter	RPM	RPM	RPM
¹ /2" - ⁵ /8"	500 - 800	600 - 1000	800 - 1200
¹¹ /16" - ¹³ /16"	400 - 640	480 - 800	640 - 960
⁷ /8" - ¹⁵ /16"	330 - 530	400 - 660	530 - 800
1" - 1³/ 16"	270 - 420	320 - 530	420 - 640
1 ¹ /4" - 1 ³ /8"	230 - 370	270 - 460	360 - 550
1 ⁷ /16" - 1 ⁹ /16"	200 - 320	240 - 400	320 - 480
1 ⁵ /8" - 1 ³ /4"	180 - 280	210 - 350	280 - 420
1 ¹³ /16" - 2"	160 - 260	190 - 320	260 - 380
2 ¹ /16" - 2 ³ /16"	145 - 230	170 - 290	230 - 350
2 ¹ /4" - 2 ³ /8"	135 - 210	160 - 270	210 - 320
2 ⁷ /16" - 2 ⁹ /16"	120 - 200	150 - 250	200 - 300
2 ⁵ /8" - 2 ³ /4"	115 - 180	140 - 230	180 - 270
2 ¹³ /16" - 2 ¹⁵ /16"	110 - 170	130 - 210	170 - 260
3" - 3 ¹ /8"	100 - 160	120 - 200	160 - 240
3 ³ /16" - 3 ³ /8"	95 - 150	115 - 190	150 - 230
3 ⁷ /16" - 3 ⁹ /16"	90 - 140	110 - 180	140 - 210
3 ⁵ 8" - 3 ³ /4"	85 - 135	105 - 170	135 - 200
3 ¹³ /16" - 3 ¹⁵ /16"	80 - 130	95 - 160	130 - 195
4" - 4 ⁵ /16"	70 - 120	90 - 145	120 - 170
4 ³ /8" - 4 ³ /4"	70 - 110	80 - 135	110 - 160
4 ¹³ / ₁₆ " - 5 ¹ / ₈ "	65 - 100	75 - 125	100 - 150

9-Series - TCT Carbide Hornet

1" Depth			
Order No.	Diameter	Order No.	Diame
9-1-116 C	1/2"	9-1-134 C	1-1/1
9-1-118 C	9/16"	9-1-136 C	1-1/8
9-1-120 C	5/8"	9-1-138 C	1-3/1
9-1-122 C	11/16"	9-1-140 C	1-1/4
9-1-124 C	3/4"	9-1-142 C	1-5/1
9-1-126 C	13/16"	9-1-144 C	1-3/8
9-1-128 C	7/8"	9-1-146 C	1-7/1
9-1-130 C	15/16"	9-1-148 C	1-1/2
9-1-132 C	1"		

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
9-1-322 C	11/16"
9-1-324 C	3/4"
9-1-326 C	13/16"
9-1-328 C	7/8"
9-1-330 C	15/16"
9-1-332 C	1"
9-1-334 C	1-1/16"
9-1-336 C	1-1/8"
9-1-338 C	1-3/16"
9-1-340 C	1-1/4"
9-1-342 C	1-5/16"
9-1-344 C	1-3/8"
9-1-346 C	1-7/16"
9-1-348 C	1-1/2"
9-1-350 C	1-9/16"
9-1-352 C	1-5/8"
9-1-354 C	1-11/16"
9-1-356 C	1-3/4"
9-1-358 C	1-13/16"
9-1-360 C	1-7/8"
9-1-362 C	1-15/16"
9-1-364 C	2"
9-1-366 C	2-1/16"

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"
9-1-140 C 9-1-142 C	
9-1-142 C	1-5/16"
9-1-144 C	1-3/8"
9-1-144 C 9-1-146 C	1-7/16"
9-1-148 C	1-1/2"
0.0/01	Dauth
2-3/8"	Depth
Order No.	Diameter
9-1-266 C	2-1/16"
9-1-266 C 9-1-268 C	2-1/8"
9-1-270 C	2-3/16"
9-1-272 C 9-1-274 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"
9-1-278 C 9-1-280 C	2-7/16" 2-1/2"
9-1-282 C	2-9/16"
9-1-202 0	
9-1-284 C 9-1-286 C	2-5/8"
9-1-286 C	2-11/16"
9-1-288 C	2-3/4"
9-1-290 C 9-1-292 C	2-13/16"
9-1-292 C	2-7/8"
9-1-294 C	2-15/16"
9-1-296 C 9-1-298 C	3"
9-1-298 C	3-1/16"
9-1-2100 C	3-1/8"
9-1-2102 C	3-3/16"
9-1-2102 C 9-1-2104 C	3-1/4"
9-1-2106 C	3-5/16"
9-1-2108 C	3-3/8"
9-1-2108 C 9-1-2110 C	3-7/16"
9-1-2110 C	3-1/2"
9-1-2112 0	0-1/2
3-3/8"	Depth
Order No.	Diameter
	2-1/8"
9-1-368 C 9-1-370 C	2-3/16"
0 1 070 0	
9-1-372 C	2-1/4"
9-1-372 C 9-1-374 C	2-5/16"
9-1-3/00	2-3/8"
9-1-378 C	2-7/16"
9-1-380 C 9-1-382 C	2-1/2"
9-1-382 C	2-9/16"
9-1-384 C	2-5/8"
9-1-386 C 9-1-388 C	2-11/16"
9-1-390 C	2-3/4"
5 1 000 0	2-3/4" 2-13/16"
9-1-392 C	2-3/4" 2-13/16" 2-7/8"
9-1-392 C 9-1-394 C	2-3/4" 2-13/16" 2-7/8" 2-15/16"
9-1-392 C	2-3/4" 2-13/16" 2-7/8"

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



<u>Shank size:</u> 3/4" for cutters up to 3" dia. 1-1/4" for cutters 3-1/16 to 5-1/8" dia.

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

Cutter Kits

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

Order No. Description

9-1-001 C	1" depth Cutter Kit
9-1-002 C	2-3/8" depth Cutter Kit

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

Pilot Pins for 9-Series			
Order No.	Description		
	For 3/4" Shanks		
9-3-101 C	1/2" - 1-1/2" dia., 1" depth		
9-3-102 C	1-9/16" - 2" dia., 1-3/8" depth		
9-3-202 C	1/2" - 3" dia., 2-3/8" depth		
9-3-302 C	3/4" - 3" dia., 3-3/8" depth		
	For 1-1/4" Shanks		
9-3-202A C	3-1/16" - 5-1/8" dia., 2-3/8" depth		
9-3-302A C	3-1/16" - 5-1/8" dia., 3-3/8" depth		

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

7-3-402	2-piece pin for 3-3/8" and 4" depth cutters with 8mm pilot hole.		
Option for Cutters 6" and 8" Depth			
9-3-602 C	Pin for 6" depth cutters with 8mm pilot hole.		
9-3-802 C	Pin for 8" depth cutters with 8mm pilot hole.		



See pages 65-71 for Drill Accessories

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3-1/16"

3-3/16"

3-1/8"

3-1/4"

3-5/16"

3-7/16" 3-1/2"

3-9/16"

3-3/8'

9-1-398 C

9-1-3100 C

9-1-3102 C

9-1-3104 C

9-1-3106 C

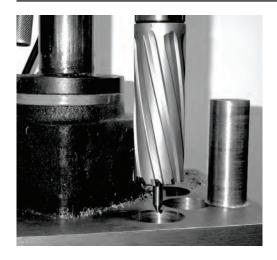
9-1-3108 C

9-1-3010 C

9-1-3112 C 9-1-3114 C

10-Series One-Touch TCT

Tungsten carbide-tipped with one-touch shank



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

Diameter 2-1/16"

2-1/8"

2-3/16"

2-1/4"

2-3/8"

2-7/16"

2-1/2"

2-5/8"

2-3/4"

Diameter

11/16"

13/16"

15/16" 1-1/16"

2-5/16"

 Armor plating also available upon request



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

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

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

• Metric cutters available on request

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

	0 0/0II	Donth	
Order No.	2-3/8" Diameter	Order No.	Diameter
10-1-216 C	1/2"	10-1-266 C	2-1/16
10-1-218 C	9/16"	10-1-268 C	2-1/8'
10-1-220 C	5/8"	10-1-270 C	2-3/16
10-1-222 C	11/16"	10-1-272 C	2-1/4'
10-1-224 C	3/4"	10-1-274 C	2-5/16
10-1-226 C	13/16"	10-1-276 C	2-3/8'
10-1-228 C	7/8"	10-1-278 C	2-7/16
10-1-230 C	15/16"	10-1-280 C	2-1/2'
10-1-232 C	1"	10-1-282 C	2-5/8'
10-1-234 C	1-1/16"	10-1-288 C	2-3/4'
10-1-236 C	1-1/8"		
10-1-238 C	1-3/16"		
10-1-240 C	1-1/4"	3-3/8" D	onth
10-1-242 C	1-5/16"		•
10-1-244 C	1-3/8"	Order No.	Diameter
10-1-246 C	1-7/16"	10-1-322 C	11/16
10-1-248 C	1-1/2"	10-1-326 C	13/16
10-1-250 C	1-9/16"	10-1-330 C	15/16
10-1-252 C	1-5/8"	10-1-334 C	1-1/16
10-1-254 C	1-11/16"		
10-1-256 C	1-3/4"		
10-1-258 C	1-13/16"		
10-1-260 C	1-7/8"		
10-1-262 C	1-15/16"		
10-1-264 C	2"		

Pilot pin included with every 10-Series annular cutter



Shank size: 3/4"

Pilot	Pins for 10-Series	;		
Order No.	Description			
For 3/4" Shanks				
0 2 102 0	0/16" 0 " dia 1 $2/0$ " doubth			

9-3-102 C 9/16" - 2" dia., 1-3/8" depth 9-3-202 C 1/2" - 2-3/4" dia., 2-3/8" depth 9-3-302 C 11/16" - 1-1/16" dia., 3-3/8" depth

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>See pages 65-71 for Drill Accessories

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Rail Cutters

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

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



4-Series Carbide-Tipped Rail Cutters

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

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



 Filot Pin for 4-Series

 Order No.
 Description

 For 3/4" Shanks

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

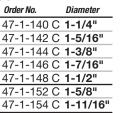


47-Series Lightning Rail Cutters

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

	1-1/4
Order No.	Diameter
47-1-124 C	3/4"
47-1-128 C	7/8"
47-1-130 C	15/16"
47-1-132 C	1"
47-1-134 C	1-1/16"
47-1-136 C	1-1/8"
47-1-138 C	1-3/16"

1-1/4" Depth







Unibroach® Cobalt Cutters

• 5% cobalt for increased wear resistance

Available for hole sizes up to 5" dia.

- Excellent results when drilling high-tensile steel and difficult-to-machine materials
- Available with TiAIN coating upon request
 Metric cutters available on request
 - See our price list for part numbers

• 3/4" shank is standard

for cutters up to 3" dia.

>See pages 65-71 for Drill Accessories



Carbide-Tipped Hole Saws



- Tungsten carbide-tipped cutting edges last longer and can be run at higher feeds and speeds to create holes of exceptional quality and accuracy
- One-piece construction; diameters from 9/16" to 41/2"

Designed for use with hand-held drills - recommended drills include our EHB 16 series or other hand-held drills with slip clutch - see page 72

1-Series Carbide-Tipped **Hole Cutters**

1" effective length Center twist pilot drill Safety Collar Stop

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

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

*	These	cutters	do	not	include	springs.

ter	Order No.	Diameter
16"	1-1-1114	3-9/16"
3"	1-1-1116	3-5/8"
16"	1-1-1118	3-11/16"
4"	1-1-1120	3-3/4"
16"	1-1-1122	3-13/16"
3"	1-1-1124	3-7/8"
16"	1-1-1126	3-15/16"
2"	1-1-1128	4"
16"	1-1-1136	4-1/4"
3"	1-1-1144	4-1/2"
/16"		

1-Series Accessories

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



2-Series Carbide-Tipped
Hole Cutters
Extra Heavy Duty

5/8" effective length Spring-loaded Pilot Pin

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

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



Model EHB 16/2.4

S R/L C: 2-speed,

variable-speed drill

with safety clutch

2-Series Accessories

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





Accessories

Starter Kits

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



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 56-57 for more information on HSS annular cutters.



Armor-Plated TiAIN Carbide-Coated Cutter Starter Kit

ZST 100P Kit Includes: Set of 5 annular cutters (one each of the following):

 9/16" dia. x 1" depth (8-1-118)
 11/16" dia. x 1" depth (8-1-122)

 13/16" dia. x 1" depth (8-1-126)
 15/16" dia. x 1" depth (8-1-130)

 1-1/16" dia. x 1" depth (8-1-134)

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

See pages 58-59 for more information on Armor-Plated TiAIN Carbide-Coated annular cutters.

HSS Steel Cutter Starter Kit with Power Cleaner

ZST 200S Kit Includes:

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

 9/16" dia. x 1" depth (6-1-118)

 11/16" dia. x 1" depth (6-1-126)

 13/16" dia. x 1" depth (6-1-126)

 15/16" dia. x 1" depth (6-1-130)

 1-1/16" dia. x 1" depth (6-1-134)

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

See pages 56-57 for more information on HSS annular cutters.



Other

annular 🛛 🛸 cutter kits are

available -

for details.

contact CS Unitec



See page 70 for more information on the Power Cleaner (POW 200) and Power Worker magnetic stick (POW 100)



Accessories

Coolants and Cutting Pastes

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

ProLube[™]

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

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



Water soluble 16:1

ProLube™

Paste (12 oz. tub) – Part No. CS 7030-712 Liquid (1 gallon) – Part No. CS 7010-504





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

Paste (tube) – Part No. ZHS 570 Paste (12-pack tubes) – Part No. ZHS 572 Paste (2.2 lb. tub) – Part No. ZHS 550 Liquid (1 quart) – Part No. ZHB 001

Upgrade your drill's cooling system: see page 67 for arbors with automatic cooling.

Cutting Oil

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

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





Pressurized Coolant Bottle

Use with any automatic internal lubrication system. Part No. $9\;4002\;0020\;N$

Pilot Pins for Cutters

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



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

CHUCKS _ RL ۵ **A** N D ARBORS

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

Manual Cooling ZIA 219M – Morse Taper No. 2 $^{3}/_{4}$ " arbor bore

- ZIA 319M Morse Taper No. 3 3/4" arbor bore
- ZIA 30/75 Morse Taper No. 3 ³/₄" arbor bore, 3" depth
- ZIA 419M Morse Taper No. 4 $^{3}/_{4}$ " arbor bore

Automatic Cooling

- ZIA 219KN Morse Taper No. 2 $^{3}/_{4}$ " arbor bore
- ZIA 319KN Morse Taper No. 3 $^{3}/_{4}$ " arbor bore
- ZIA 30/32 Morse Taper No. 3 $1^{1}/4^{"}$ arbor bore
- ZIA 432 KN Morse Taper No. 4 $1^{1}/4^{"}$ arbor bore

Quick-Lock Arbor with Automatic Internal Cooling

- Keyless for fast, no-tools changeover for 3/4" dia. shank annular cutters
- Automatic internal cooling
- Turn, click... go!
- ZSS 200 Morse Taper No. 2 for 3/4" dia. shank annular cutters
- ZSS 300 Morse Taper No. 3 for 3/4" dia. shank annular cutters



Drill Chucks for Straight-Shank Twist Drills

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

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Accessories

Extensions for Annular Cutters Extra-long holders extend stroke of drills



- Extend cutter reach up to 18"
- Available for magnetic drills with ³/₄" arbor bore or MT3
- Also available with 3 flats for straight shank drill chucks and R8 shanks for drill presses
- Drill difficult-to-reach areas
- Extend cutter reach over the side or through an existing hole*
- 7-9-902 2" extension 7-9-903 - 3" extension
- 7-9-906 6" extension
- 7-9-912 12" extension
- 7-9-918 18" extension

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

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



We also offer extensions with the following connections:



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



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

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

National Coarse Threads (UNC) - sizes available:

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

82° and 90° Countersinks

Manufactured of HSS with 5% cobalt

• ³/₄" Weldon shank

Countersink hole sizes:

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



Detachable Chip Guard

Protects against flying chips when drilling

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

Quick-Change Tapping Chucks

Part No. GSW.830C tapping chuck includes two variable clamp collets to tap 3/8" to $1^{1}/8"$. It is the least expensive



system if you will tap more than 4 sizes. GSW.830C has an MT3 connection.

For use with all MT3 drills.

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





GSW 444 Quick-Change Chuck

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

Visit our Web site at www.csunitec.com

Order Number	Tap Collet	Shank Diameter	Square Drive	7 8
GSS.420	20mm	16mm	12mm	
GSS.422	22mm	18mm	14.5mm	
GSS.427	27mm	20mm	16mm	
GSS.433	33mm	32mm	20mm	GSS-4xx
GSS.442	42mm	32mm	24mm	Collet



1-800-700-5919

Clamping Devices

MobilCLAMP

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

MobilCLAMP extends the functionality of your portable magnetic drill - converting it to a drill press that can be easily transported to the jobsite. This unit makes it possible to drill, countersink, ream or tap small parts in any location with a flat surface.

The magnetic drill can be mounted onto the MobilCLAMP with only the power of the machine's magnet - no screws, clamps or other connections between the drill and the base. The magnetic drill becomes a multi-purpose machine for applications involving an annular cutter, twist drill, tap, countersink or reamer.

MobilCLAMP

Order No.	ZMC 200 N
Jaw Width	4" (100mm)
Clamping Range	4" (100mm)
ZMC 200 N includes ZMC 2	00 haaa 707 200

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

Drilling stand and vise for hand drills



- 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).



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

Accessories

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





Magnetic Drilling Pillar

Drill not included.

Order No. MBS 300

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



Drill not included.

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Vacuum Plates

For applications where drill alone will not adhere to surface

Vacuum Plate for Channeled Plates

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

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



Vacuum Plate for Smooth Surfaces

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

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



Metal Chip Cleanup Tools

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

Power Cleaner – POW 200

Two-in-one tool for removing chips



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



Power Worker – POW 100

Simple cleanup of metal chips

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



Pipe Saddle Clamp System

Ensures safe, secure drilling of pipes and tubular material



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





ZRO 250 Pipe Saddle Clamp System

Pipe diameters 3¹/₄" - 10" Chain length: 35¹/₂" *If using on pipe larger than 10", need 1 qty. ZRO 001 extension chains.* For models: MABasic 200, MABasic 400, MABasic 450, MAB 455, MAB 465, MAB 485 and CSU 32RL

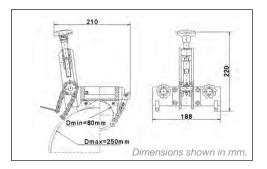


ZRO 500 Pipe Saddle Clamp System

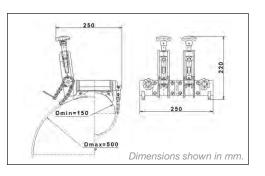
Pipe diameters 6" - 20" (extension chain available) Chain length: 65" *If using on pipe larger than 20", need 2 qty. ZRO 001 extension*

chains.

For models: MABasic 850, MAB 525, MAB 825, MAB 845, CSU 50 Series, CSU 100/3RL, AB-4300-2 and HB 4400



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





Electric Drills and Drive Units

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



Model No.	Motor Power (Amps)	Voltage	Load Speed (RPM)	Drilling Capacity in Steel	Max. Torque Output (ft./Ibs.)	Reversible	Chuck/Arbor	Weight (lbs.)
EHB 16/1.4 S	7.3	110V	0-500	⁵ /8"	12	NO	⁵ /8" Keyless	6.8
EHB 16/1.4 S R/L	9.6	110V	0-450	⁵ /8"	19	YES	⁵ /8" Keyless	7
EHB 16/2.4 S R/L C	10	110V	0-430/0-760	⁵ /8"	19	YES	⁵ /8" Geared	7
EAW 16/2 R/L	9	110V	510/950	N/A	8	YES	⁵ /8" X 16 UN	7
EHB 20/2.4	10.5	110V	250/450	3/4"	32	NO	MT2	9.2
EHB 32/4.2	15.5	110V	110/175/245/385	1 ¹ /4"	112	NO	MT3	15.2
EAU 34/4 CB**	20	110V	80/130/360/570	-	203	YES	MT3	19.5
EAU 36/4 R R/L CB** with 4-speed gearbox and variable speed	22	110V	50-120 80-190 110-270 180-420	_	187	YES	MT3	20

* All units available in 220 Volt / 50Hz

** EAU 34/4 CB and EAU 36/4 R R/L CB include control box

Special Motors available upon request.

Electric Drills and Drive Units

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



Model No.	Motor Power (Amps)	Voltage**	Load Speed (RPM)	Drilling Capacity in Steel	Tube Rolling (max.)	Reversible	Torque Output (ft./lbs.)	Torque Control	Arbor	Weight (lbs.)
EHB 32/2.2 R/RL	16.3	110V	60-140/ 200-470	1 ¹ /4"	2"	YES	95 max.	YES	MT3	14
ETE 32/2.3 R/RL	16.3	110V	30-75/ 90-230	N/A	3" ***	YES	174 max.	7	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



1-800-700-5919 •

Special Electric Motor Options

High-torque, reversible electric drill motors for custom applications





Control Boxes with On/Off, Variable Speed



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

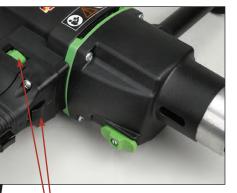
Driving applications include mills, spindles, bar boring, tube rolling, valve turning and more.

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. Spindle Options: MT2 / MT3 Square Drive or Threaded





Forward/Reverse Control Electronic Torque Control Variable-speed Dial

SUNITEC • 1-800-700-5919 • Visit our Web site at www.csunitec.com

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:

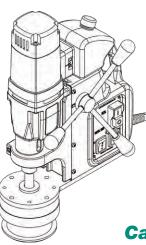
- Reverse Drilling
- Alternative Mounting **Configurations**
- Magnet Variations
- Motor Customization
- Adjustable Drilling Depth

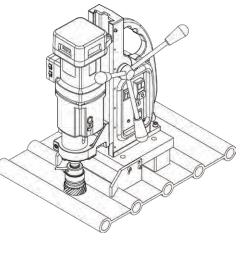












Call 1-800-700-5919 for design assistance.



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

D-handle Drills







Model 2 1266 0010



Pneumatic Hammer Drills

Morse Taper Drills w/ Feed Spindle

Pneumatic Pistol Drills

safety twist throttle

Model

2 2089 0030 with reverse and



Model No.	Motor Power (HP)	Load Speed (RPM)	Reversible	Chuck/ Arbor	Drilling Capacity in Steel	Tube Rolling Capacity	Torque Output (ft./lbs.)	CFM at 90 PSI	Length	Feed Length	Weight (lbs.)
Pistol Drills											
2 1261 0010	0.7	850	NO	¹ /2" Chuck	1/2"	N/A	7 max.	21	9 ³ /4"	N/A	4.6
Hammer Dril	ls (for co	oncrete	and underv	vater applica	tions)						
2 1266 0010	0.75	950	NO	¹ /2" Chuck	1/2"	N/A	7 max.	21	12"	N/A	6.7
D-Handle Dri	ills										
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 S	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 least form all		NA- J-LAL	the state state of								

The last four digits of the Model No. identify the type of throttle.

SUNITEC

Please specify the four digits when ordering: 0010 for Lever Throttle or 0030 for Safety Twist Throttle.



ATEX



Corner Drills and Drives

Pneumatic, electric and hydraulic: high-torque drilling,



ATEX

	real	ming al	nd drīv	ing unit	S					
111	ner Dril	lls and B	Model ridge Rea	1 2 1801 0030 Amers	P	3	2.5		with	el 87 0010 reverse lever throttle
Self Self Buil Idea	f-closing It-in oilei al for bri	roll throttl for motor dge reamir applicatior	e	ght spaces	•	•	Ideal for he expanding Perfect for including pi guare Drive	and tapp special of pe tapp	bing driving app ing and va	lications,
• 6-m	nonth wa	arranty	<u>m</u> for dime	nsions	A	2:	2089 7020 - ⁷ /8 2089 7070 - ⁷ /8 1016 7940 - ⁷ /8	" Male Sq. " Male Sq.	Drive to ³ /4" I Drive to 1" M Drive to 1" M	ale Sq. Drive
• 6-m • Visi	nonth wa	arranty		nsions Tube Rolling Capacity	Torque Output (ft./lbs.)	2:	2089 7020 - ⁷ /8 2089 7070 - ⁷ /8 1016 7940 - ⁷ /8	" Male Sq. " Male Sq. " Male Sq.	Drive to ³ /4" I Drive to 1" M Drive to 1" M	ale Sq. Drive
 6-m Visi Pneumatic Corner Drill Model No.	nonth wa t <u>www.c</u> <i>Morse</i> <i>Taper</i>	arranty sunitec.co Drilling	<u>m</u> for dime <i>Reaming</i>	Tube Rolling	Output	Load Speed	2089 7020 - ⁷ /8 2089 7070 - ⁷ /8 1016 7940 - ⁷ /8 wit Motor Power	" Male Sq. " Male Sq. " Male Sq. th retaining CFM at 90	Drive to ³ /4" I Drive to 1" M Drive to 1" M ppin	lale Sq. Drive lale Sq. Drive Weight
 6-m Visi Pneumatic Corner Drill Model No. Nonreversible	nonth wa t <u>www.c</u> <i>Morse</i> <i>Taper</i>	arranty sunitec.co Drilling	<u>m</u> for dime <i>Reaming</i>	Tube Rolling	Output	Load Speed	2089 7020 - ⁷ /8 2089 7070 - ⁷ /8 1016 7940 - ⁷ /8 wit Motor Power	" Male Sq. " Male Sq. " Male Sq. th retaining CFM at 90	Drive to ³ /4" I Drive to 1" M Drive to 1" M ppin	lale Sq. Drive lale Sq. Drive Weight
 6-m Visi Pneumatic Corner Drill Model No. Nonreversible 1602 0030	nonth wa t <u>www.c</u> <i>Morse</i> <i>Taper</i> e	Drilling (in steel)	m for dime Reaming (in steel)	Tube Rolling Capacity	Output (ft./lbs.)	Load Speed (RPM)	2089 7020 - ⁷ /8 2089 7070 - ⁷ /8 1016 7940 - ⁷ /8 wit Motor Power (HP)	" Male Sq. " Male Sq. " Male Sq. th retaining CFM at 90 PSI	Drive to ³ /4" I Drive to 1" M Drive to 1" M pin Length	lale Sq. Drive lale Sq. Drive Weight (Ibs.)
 6-m Visi Pneumatic Corner Drill Model No. Nonreversible 1602 0030 1701 0030	Morse Taper #1	Drilling (in steel)	m for dime Reaming (in steel)	Tube Rolling Capacity N/A	Output (ft./lbs.)	Load Speed (RPM) 500	0.7	" Male Sq. " Male Sq. " Male Sq. th retaining CFM at 90 PSI 21	Drive to ³ /4" I Drive to 1" M Drive to 1" M ppin Length 12.5"	lale Sq. Drive lale Sq. Drive Weight (lbs.)
• 6-m • Visi Pneumatic Corner Drill	Morse Taper e #1 #2	Drilling (in steel)	m for dime <i>Reaming</i> <i>(in steel)</i> 1/2" 5/8"	Tube Rolling Capacity N/A N/A	Output (ft./lbs.) 7 35	Load Speed (RPM) 500 270	0.7 0.7 0.7 0.7 0.7 0.7 1.8	" Male Sq. " Male Sq. " Male Sq. th retaining CFM at 90 PSI 21 49	Drive to ³ /4" I Drive to 1" M Drive to 1" M g pin Length 12.5" 20.9"	lale Sq. Drive lale Sq. Drive Weight (lbs.) 7 19

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

Hydraulic Corner Drill Model No.	Morse Taper	Drilling (in steel)	Reaming (in steel)	Tube Rolling Capacity	Torque Output (ft./lbs.)	Load Speed (RPM)	Motor Power (HP)	0il Flow/PSI	Length	Weight (lbs.)
2 1806 0010	#3	1 ¹ /4"	1"	N/A	60	220	3.8	4 GPM @ 2000	21"	25

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

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

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



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SDS Rotary Hammer Drills

ATEX

Pneumatic and hydraulic: powerful percussion drilling for concrete and masonry

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

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)



CE

Second handle position

SAE #8 port for hydraulic hose connection

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 2418 0010 SDS Max

Closed Center Flow Control Valve

Optional accessory - Part No. 38632

SDS Drill Bits

@0000000000

Small Masonry Bits SDS Plus up to 1" dia. Large Masonry Bits SDS Max up to 2" dia.



Hydraulic Pressure Reducing Valves

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

Air Model 2 2404 0010

SDS Plus up to 1" dia.



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

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

* Underwater model – optional underwater air tool line conditioner to displace moisture, Part No. MS 9105. See page 79.

Hydraulic Hammer Drill Model No.	Blows/ Minute (BPM)	Drill Speed (RPM)	Solid Bit Capacity (concrete)	Core Bit Capacity (concrete)	Twist Drill (wood)	Motor Power (HP)	Oil Flow/PSI	Tool System	Dimensions (inches)	Weight (lbs.)	
2 2426 0010	0-3400	0- 625	1" dia.	3" dia.	³ /4" dia.	0.8	5.8-13.2 GPM @ 1160 PSI	SDS Plus	18 x 10 ¹ / ₄ x 4	15	
2 2418 0010	0-2500	0- 250	2" dia.	6" dia.	1 ¹ /4" dia.	1.8	2.6-13.2 GPM @ 1160 PSI	SDS Max	16 x 8 ¹ / ₂ x 4	11	
2 2418 0020	Same as 2 2418 0010 above. Includes 2 2406 9700 Pressure Reducing Valve for 2000 PSI.										

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

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Woodboring Air Drills, Reversible



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

AirPac Extends life of pneumatic power tools



- 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



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

MS 9105 – 1 quart/liter



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NOODBORI

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

Available with Male or Female Square Drives, in a variety of sizes
Model fub55 0075
Model fub55 0075
Madel pumbers pictured above (listed from top to bottom): 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)

Square Drive Accessories



6 1015 7030 – ³/4" Male Square Drive with retaining hole (included with model numbers 6 1014 0075, 6 1055 0075 and 6 1056 0075) **6 1017 7940** – ³/4" Male Square Drive

with retaining pin



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

3/4" or 7/8"

ATEX

6 1016 7940 - 1" Male Square Drive

1/2" or 3/4"

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

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

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

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