

# UNITEC *Magnetic Drills*

**CS Unitec is the industry leader in:**

- Power-to-weight ratios
- Strongest clamping force with high-density dual-coil magnets
- Magnetic drill cutting capacity
- Magnetic drills for tapping
- Automatic magnetic drills
- Annular Cutters: HSS, TCT Carbide, TiAlN & Cobalt



**CS Unitec Magnetic Drills Feature:**



- Widest range of magnetic drills in the industry
- Longest drill strokes in the industry
- Best power to weight ratios in the industry
- Automatic feed for increased production & cutting tool life
- Variable-speed, multiple-gearred models
- Reversible motors for tapping
- Swivel bases for fast alignment & reduced fatigue
- Patented pipe adapted models to fit round, curved and flat surfaces as thin as 9/64"
- CoolMag & SafeMag for increased tool life & safety
- Largest capacity magnetic mill drill in the industry
- Electric, pneumatic and hydraulic power options
- Expansive range of annular cutters up to 6" diameter & 10" depth

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



# Magnetic Drills Comparison



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



MAB 455	MAB 465	MAB 485 MAB 485 SB	MAB 525 MAB 525 SB	MAB 825 KTS	MAB 825 MAB 825 V MAB 845 MAB 845 V	MAB 1300 MAB 1300 V	AIRBOR™	HB 4400	Model 2 1345 0010 & 2 1345 0020	
up to ø 2-1/16"	up to ø 2"	up to ø 2-1/16"	up to ø 2-1/2"	up to ø 3-1/8"	up to ø 4-1/16"	up to ø 6"*	up to ø 2-1/16"	up to ø 2-1/16"	up to ø 4"	Max. hole diameter up to 6"
up to ø 7/8"	up to ø 5/8"	up to ø 7/8"	up to ø 1"	up to ø 1-1/4"	up to ø 1-1/4"	up to ø 1-3/4"	up to ø 5/8"	up to ø 1/2"	up to ø 1-1/4"	Max. twist drilling up to 1-3/4"
	up to ø 5/8"	up to ø 15/16"	up to ø 15/16"	up to ø 1-3/16"	up to ø 1-1/8"	up to ø 1-5/8"			up to ø 1"	Max. tapping up to 1-5/8"
	up to ø 1-1/2"	up to ø 1-5/8"	up to ø 2"	up to ø 2"	up to ø 2"	up to ø 3"			up to ø 2"	
		up to ø 7/8"	up to ø 7/8"	up to ø 1-1/4"	up to ø 1-1/4"	up to ø 2"			up to ø 1-1/8"	
6-1/3"	6-1/3"	6-1/3"	6-1/3"	10"	10"	3.35" (12" w/ out retainer)	up to 10-1/4"	up to 3-3/4"	12"	
29 lbs.	29 lbs.	29 lbs.	35 lbs.	99 lbs.	55 lbs.	112 lbs.	43 lbs.	48-1/2 lbs.	50 lbs.	
250 RPM	50-250 RPM	50-250 RPM	70-280 RPM	40-110 RPM	40-110 RPM	30-80 RPM	400 RPM	0-630 RPM	40-250 RPM	Pneumatic Hydraulic
450 RPM	100-450 RPM	100-450 RPM	180-580 RPM	65-175 RPM	65-175 RPM	50-120 RPM				
				140-360 RPM	140-360 RPM	130-350 RPM				
				220-600 RPM	220-600 RPM	210-550 RPM				
	✓	✓	✓	✓	✓	✓			✓	Allows thread cutting
✓	✓	✓	✓	✓	✓	✓				Overheating protection
✓	✓	✓	✓	✓	✓	✓				Magnet adhesion indicator
✓	✓	✓	✓	✓	✓	✓				Shuts down motor if magnetic contact lost
Quick-change		Quick-change	Quick-change	X,Y-MILLING	Automatic Quick-change	Set Screw	Set Screw	Set Screw	Set Screw	
MT2		MT2	MT3	MT3	MT3	MT4			MT3	
			✓	✓	✓	✓				
		✓	✓	✓	✓					Adjustable Base or Patented Pipe Base Adapter
6-5/8" H x 3-1/3" W	6-5/8" x 3-1/3"	6-5/8" x 3-1/3"	7-1/8" x 3-1/2"	8-11/16" x 8-11/16"	8-5/8" x 4-1/3"	14" x 4-3/4"	8-3/4" x 3-1/2"	7-1/4" x 3"	11-11/16" x 4"	

# Rugged construction and sophisticated functionality.

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



Overheating Protection with

CoolMag

SafeMag Advanced Electronic Safety Shutoff Sensor System



Keyless, quick-change system for annular cutters



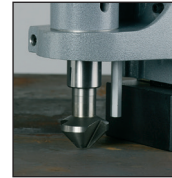
Twist Drilling



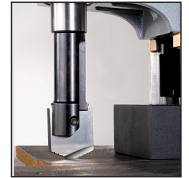
Tapping



Reaming



Countersinking



Special-Purpose Cutting Tools

## Integrated cable routing: MAB Series

Our MAB magnetic drills have been developed for increased safety & durability. This includes complete cable routing within the casing.

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



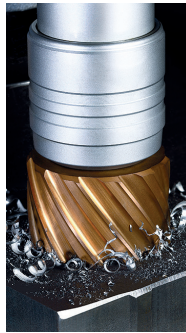
# ANNULAR CUTTERS



**6-SERIES**  
UNIBROACH  
High Speed Steel  
(HSS)



**7-SERIES**  
UNIBROACH  
Cobalt HSS



**8-SERIES**  
UNIBROACH  
ARMOR  
PLATED  
TiAlN Coated



**9-SERIES**  
UNIBROACH  
HORNET  
Tungsten Carbide  
Tipped (TCT)

## Benefits of CS Unitec Annular Cutters:

- Up to 3x faster than twist drills
- Pilot pin included up to 4" depth
- Double-action geometry cuts, splits & ejects chips efficiently
- More accurate holes with increased cutting speed
- Tapered inner wall for smooth, easy slug ejection
- Up to 6" Dia & 10" Depth - custom sizes available upon request

THESE PRODUCTS CAN BE PURCHASED FROM:

COOLANTS & CUTTING PASTES

