

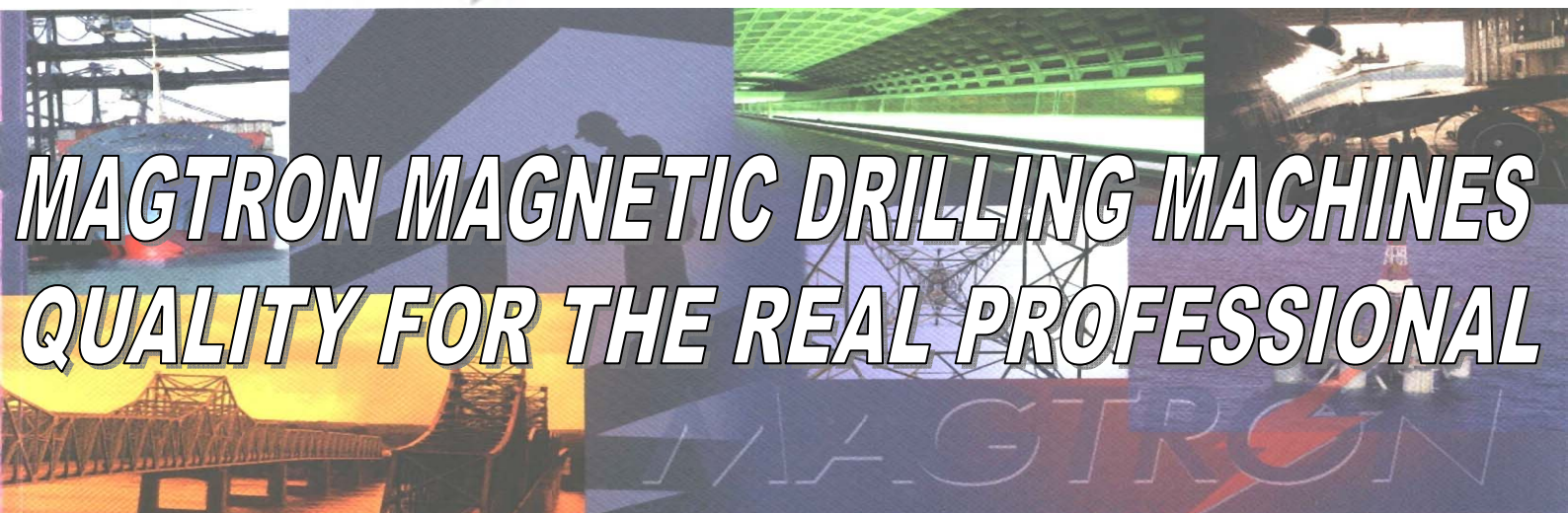
# MAGTRON

HOLE CUTTING TECHNOLOGY



*Genuinely manufactured in  
Sheffield - United Kingdom*

















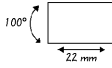








**For all MAGTRON magnetic drilling machines applies:**

- The operating handles can be moved to either side for ultimate working accessibility
- DIE-Cast aluminum housing: super light and very strong
- As standard supplied in a robust, light to carry ABS plastic carry-case with an arbor for 19 mm cutters, plastic safety guard, safety strap, allen keys and user manual
- Stable and backlash-free mounting of the drill by fixation on a, for each machine specially designed "die cast" cradle with direct gearbox mounting (Except for MB30)



**Explanation of icons:**

-  Cutter capacity for broach cutters with cutting depth 30mm (also longer cutters can be used, however without the use of a pilot/ejector pin)
-  Cutter capacity for broach cutters with cutting depth 30 & 50mm (also longer cutters can be used, however without the use of a pilot/ejector pin)
-  Twist drill capacity
-  1 Mechanical speed
-  2 Mechanically adjustable speeds
-  4 Mechanically adjustable speeds
-  Morse taper arbor (MT2 of MT3)
-  Automatic coolant-/lubrication system
-  Quickhitch quick release broach cutter arbor for broach cutters with 19mm shank and 1 or 2 flats
-  Mechanical slipping clutch on output shaft
-  Light in weight, ideal for use on e.g. a ladder

-  Forward / Reverse switching for thread tapping
-  Swivel magnet with 22mm axial clearance and an angular displacement of 100 degrees
-  Electronic speed control
-  Electronic speed control with "Constant speed" electronics (speeds remains at setting at full load)
-  Current overload protection
-  Temperature overload protection
-  MAGTRON High Power double-coil electromagnets have an optimal size / strength ratio, more than sufficient strong for the capacity of the machine.
-  Control panel:  
Electrical switched:  
➤ With safety relay to prevent an un-intentional start of the motor
-  Electronically switched:  
➤ Unsafe use is impossible because of "smart electronics"; you cannot start the motor unit without an engaged magnet, the motor unit will switch-off after touching a random button. You cannot make mistakes in emergencies  
➤ Reduced chance of accidents because the magnet will delay 3 seconds before turning off allowing the user to hold with 2 hands  
➤ Easy access, in-surface mounted large control buttons reduce the change of damaging or un-intentional start of the motor  
➤ Visual and (discrete) audiovisual checks of functions  
➤ Mains supply indicator by flashing LED
- 

# MAGTRON MAGNETIC DRILLING MACHINES

## MAGTRON MB30

Cutter capacity: **Ø 12 – 32 mm**  
 Twist drill capacity: **Ø 1 – 13 mm**  
 Arbor: **½" x 20UNF - 19 mm**  
 (30mm cutting depth, 50mm optional)  
 Speed no load: **550 min<sup>-1</sup>**  
 Motor power: **720 W**  
 Magnet: **80x160x50 mm,**  
 "High Power"  
 Weight: **9,5 kg**  
 Stroke: **147 mm**

- Small, lightweight and portable
- Easy changing between broach cutting and twist drilling with included 13mm drill chuck
- Optional supplied with automatic lubrication



Ø 32 MM



Ø12-32mm Ø1-13mm 1 Gear



Ø 35 MM



Ø12-35mm Ø1-13mm 1 Gear

## MAGTRON MBE35n

Cutter capacity: **Ø 12 – 35 mm**  
 Twist drill capacity: **Ø 1 – 13 mm**  
 Arbor: **Integrated - 19 mm**  
 (50mm cutting depth)  
 Nominal speed: **450 min<sup>-1</sup>**  
 Motor power: **1.100 W**  
 Magnet: **80x160x50 mm,**  
 "High Power"  
 Weight: **11 kg**  
 Stroke: **150 mm**

- Small, lightweight and portable
- Hi-Torque, high-quality German motor unit
- Integral arbor with automatic lubrication system

## MAGTRON MBE50

Cutter capacity: **Ø 12 – 50 mm**  
 Twist drill capacity: **Ø 1 – 19 mm**  
 Arbor: **MT2 - 19mm broach cutter arbor**  
 (30mm cutting depth, 50mm optional)  
 Speed I no load: **0-280 min<sup>-1</sup>**  
 Speed II no load: **0-500 min<sup>-1</sup>**  
 Motor power: **1.100 W**  
 Magnet: **100x180x60 mm,**  
 "High Power"  
 Weight: **15 kg**  
 Stroke: **170 mm**

- Small and relative light, high torque German motor unit with 2 mechanical speeds
- Stable 'one part' cradle, gearbox mounted
- Electronic variable speed and overload protection
- Optional: Automatic lubrication, Quickkitch quick release arbor



Ø 50 MM



Ø12-50mm Ø1-13mm 2 Gears MT2



# MAGTRON MAGNETIC DRILLING MACHINES

## MAGTRON MBQ50

Cutter capacity:  $\varnothing$  12 – 50 mm  
 Twist drill capacity:  $\varnothing$  1 – 19 mm  
 Arbor: **MT2-Quick release broach cutter arbor**  
 (50mm cutting depth)  
 Speed I no load: **280 min<sup>-1</sup>**  
 Speed II no load: **500 min<sup>-1</sup>**  
 Motor power: **1.100 W**  
 Magnet: **100x180x60 mm,**  
 "High Power"  
 Weight: **15 kg**  
 Stroke: **170 mm**



$\varnothing$  50 MM



$\varnothing$ 12-50mm  $\varnothing$ 1-19mm 2 Gears MT2

- Small and relative light, high torque German motor unit with 2 mechanical speeds
- Stable 'one part' cradle, gearbox mounted
- Standard equipped with Quickitch quick release arbor and automatic lubrication for 19mm broach cutters



$\varnothing$  100 MM



$\varnothing$ 12-100mm  $\varnothing$ 1-32mm 2 Gears Clutch MT3

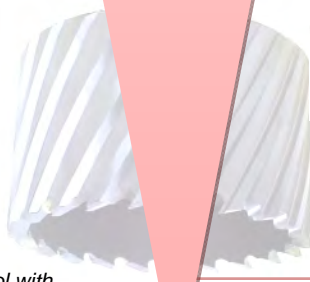
## MAGTRON MBE100

Cutter capacity:  $\varnothing$  12 – 100 mm  
 Twist drill capacity:  $\varnothing$  1 – 32 mm  
 Arbor: **MT3 – 19 mm**  
 (50mm cutting depth)  
 Speed I no load: **50-130 min<sup>-1</sup>**  
 Speed II no load: **160-450 min<sup>-1</sup>**  
 Motor power: **1.800 W**  
 Magnet: **110x220x65 mm,**  
 "High Power"  
 Weight: **26 kg**  
 Stroke: **280 mm**

- Two mechanical speeds, electronic speed control with "constant speed" technology, slipping clutch, Morse Taper no.3
- Automatic coolant/lubrication, overload protection,
- Stable 'one part' cradle, gearbox mounted
- Optional: Quick release arbor

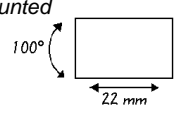
## MAGTRON MBSE100

Cutter capacity:  $\varnothing$  12 – 100 mm  
 Twist drill capacity:  $\varnothing$  1 – 32 mm  
 Arbor: **MT3 – 19 mm**  
 (50mm cutting depth)  
 Speed I no load: **50-130 min<sup>-1</sup>**  
 Speed II no load: **160-450 min<sup>-1</sup>**  
 Motor power: **1.800 W**  
 Magnet: **110x220x65 mm,**  
 "High Power"  
 Weight: **27 kg**  
 Stroke: **280 mm**



$\varnothing$  100 MM

- Two mechanical speeds, electronic speed control with "constant speed" technology, slipping clutch, Morse Taper no.3
- Automatic coolant/lubrication, overload protection,
- Stable 'one part' cradle, gearbox mounted
- Swivel magnet 100° / 22 mm
- Optional: Quick release arbor



$\varnothing$ 12-100mm  $\varnothing$ 1-32mm 2 Gears Clutch MT3

# MAGTRON MAGNETIC TAPPING & DRILLING MACHINES

## MAGTRON MBE50FR

Cutter capacity: **Ø 12 – 50 mm**  
 Tapping capacity: **Ø M5 – M16 (M20)**  
 Twist drill capacity: **Ø 1 – 19 mm**  
 Arbor: **MC2 – 19 mm**  
 (30 mm cutting depth, 50mm optional)

Speed I no load: **0-280 min<sup>-1</sup>**  
 Speed II no load: **0-500 min<sup>-1</sup>**  
 Motor power: **1.100 W**  
 Magnet: **100x180x60 mm,**  
 "High Power"

Weight: **15 kg**  
 Stroke: **170 mm**  
 Dimensions: **350x460x125 mm**

- Tapping machine with forward/reverse run, no expensive reverse tap head required!
- Robust motor, two gears, variable speed, overload protection
- Stable 'one part' cradle, gearbox mounted
- Optional: Automatic lubrication, Quicktitch quick release arbor



M20  
Ø 50 MM



M30  
Ø 130 MM



## MAGTRON MBE100+FR

Cutter capacity: **Ø 12 – 130 mm \***  
 Tapping capacity: **Ø M5 – M30**  
 Twist drill capacity: **Ø 1 – 32 mm**  
 Arbor: **MT3 – 19 mm**  
 (50 mm cutting depth)

Speed I no load: **110 min<sup>-1</sup>**  
 Speed II no load: **175 min<sup>-1</sup>**  
 Speed III no load: **245 min<sup>-1</sup>**  
 Speed IV no load: **385 min<sup>-1</sup>**  
 Motor power: **1700 W**  
 Magnet: **110x220x65 mm,**  
 "High Power"

Weight: **26 kg**  
 Stroke: **280 mm**  
 Dimensions: **375x522x135 mm**

\* from 100-130 mm with TCT cutter

- Tapping machine with forward/reverse run, no expensive reverse tap head required!
- Heavy-duty, high Torque, high-quality German 4-speed motor unit with clutched gears
- Stable 'one part' slide, gearbox mounted
- Optional: Automatic lubrication, 19mm quick release cutter arbor, quick release collet holder for no. 2 tap collets
- Also available with swivel magnet: MBSE100+FR





# MAGTRON SPECIAL MACHINES

## MAGTRON MB16

### MAGNETIC DRILLSTAND

Collar diameter: **Ø 43 mm**  
 Twist drill capacity: **Ø 1 – 16 mm**  
 Magnet: **80x160x50 mm, "High Power"**  
 Weight: **8 kg**  
 Stroke: **150 mm**



- European socket with safety switching built in

## MAGTRON MBS32

### MAGNETIC DRILLSTAND WITH "SWIVEL"

Collar diameter: **Ø 54 mm**  
 Twist drill capacity: **Ø 1 – 32 mm**  
 Swivel magnet: **110x220x65 mm, "High Power"**  
 Swivel movement: **22mm / 100°**  
 Weight: **20 kg**  
 Stroke: **280 mm**



- European socket with safety switching built in
- Universal slide with several mounting possibilities

## MAGTRON AIRBOR2

### PNEUMATIC OPERATED

Ø 50 MM

Cutter capacity: **Ø 12 – 50 mm**  
 Arbor: **19 mm broach cutter arbor (50mm cutting depth)**  
 Speed no load: **400 min<sup>-1</sup>**  
 Air consumption: **30 cfm**  
 Air supply: **6,2 bar**  
 Motor power: **0.77 kW (1 HP)**  
 Magnet: **100x160x50 mm**  
 Magnet Force: **6.375 N**  
 Weight: **13 kg**  
 Stroke: **170 mm**



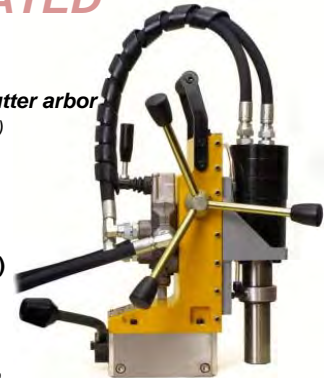
- Integrated automatic coolant-/lubrication system
- Strong heavy duty air motor
- Failsafe permanent magnet, operated by extendable switching lever
- Mechanical safety interlock for motor
- Suitable for **EX hazardous environment** or wet environment
- NO mains supply required, operates on pressured air only

## MAGTRON HUW150

### HYDRAULIC OPERATED

Ø 60 MM

Cutter capacity: **Ø 12 – 60 mm**  
 Tapping capacity: **Ø M5 – M30\***  
 Arbor: **19 mm broach cutter arbor (50mm cutting depth)**  
 Speed no load: **50-400 min<sup>-1</sup>**  
 (Fwd/Rev) (flowrate dependant)  
 Motor "flowrate": **10-50 l/min**  
 Optimal pressure: **2000 psi**  
 Max. inlet pressure: **3250 psi (224 bar)**  
 Magnet: **100x170 mm**  
 Weight: **21 kg**  
 Stroke: **170 mm**  
 Dimensions: **380x500x185 mm**



- Automatic coolant-/lubrication system
- Hydraulic heavy duty motor
- Failsafe permanent magnet, lever operated
- Mechanical motor switching, with Fwd/Rev "deadmans" operation switch (HUW150-2) or emergency operation switch (HUW150-1)
- Suitable for **UNDERWATER DRILLING** or wet environment
- NO mains supply required, operates on hydraulics only

## MAGTRON UA50

### AUTOMATIC FEED

Ø 50 MM

Cutter capacity: **Ø 12 – 50 mm**  
 Twist drill capacity: **Ø 6 – 13 mm**  
 Arbor (50mm cutting depth): **½" x 20 UNF-19 mm Weldon**  
 Speed I no load/load: **350/250 min<sup>-1</sup>**  
 Speed II no load/load: **650/450 min<sup>-1</sup>**  
 Motor power: **1.150 W**  
 Magnet: **94x178x43 mm**  
 Weight: **19,5 kg**  
 Stroke: **184 mm**  
 Height - min/max: **480/660 mm**  
 Width - auto/manual: **230/270 mm**  
 Length overall: **360 mm**  
 Centre arbor to base: **48 mm**



- Very stable rail-bar cradle with arbor steady
- Relative light, high torque German motor unit with 2 mechanical speeds, gearbox mounted, designed for **HSS & TCT** annular cutters
- Magnet Lift Sensor for magnetic adhesion detection with automatic switch-off system for extra safety (Switchable)
- Automatic feed & stop or manual drilling
- Automatic internal lubrication (Annular cutters only)
- Suitable for twist drilling (with optional drill chuck)
- Optional with 75 mm cutting depth kit (at extra costs)

## MAGTRON MLP40

### LOW PROFILE MACHINE

Ø 40 MM

Cutter capacity: **Ø 12 – 40 mm**  
 Twist drill capacity\*: **Ø 1 – 13 mm**  
 Arbor: **Integrated - 19 mm (30mm cutting depth)**  
 Speed no load: **320 min<sup>-1</sup>**  
 Motor power: **1.300 W**  
 Magnet: **100x215x46 mm, "High Power"**  
 Weight: **13,2 kg**  
 Size: **391x195x120 mm**  
 Stroke: **50 mm**



- Light weight, **low profile, only 195 mm high**
- Hi-Torque, high-quality German motor unit
- Integral arbor with automatic lubrication system
- Ratchet handle which can be used on both sides

\* Twist drilling only with twist drills with 19 mm Weldon shank

MB30	MBE35n	MLP40	MBE50	MBQ50	MBE100	MBSE100	MBE40FR	MBE100*FR	AIRBOR2	HUW150	UA50		
	32 mm		40 mm	50 mm			50 mm						
	32 mm with optional cutter arbor	35 mm		50 mm with optional cutter arbor	50 mm	100 mm	100 mm	50 mm with optional cutter arbor	130 mm*	50 mm	60 mm	50 mm	
	13 mm	13 mm	13 mm*	19 mm	19 mm	32 mm	32 mm	19 mm	32 mm	13 mm		13 mm	
	550 min <sup>-1</sup>	450 min <sup>-1</sup>	320 min <sup>-1</sup>							400 min <sup>-1</sup>	50-400 min <sup>-1</sup>		
				0-280 min <sup>-1</sup>	280 min <sup>-1</sup>	50-130 min <sup>-1</sup>	50-130 min <sup>-1</sup>	0-280 min <sup>-1</sup>	0-500 min <sup>-1</sup>			350 min <sup>-1</sup>	
				0-500 min <sup>-1</sup>	500 min <sup>-1</sup>	160-450 min <sup>-1</sup>	160-450 min <sup>-1</sup>	0-500 min <sup>-1</sup>				650 min <sup>-1</sup>	
									110,175 min <sup>-1</sup>				
									245,385 min <sup>-1</sup>				
				MT No. 2	MT No. 2	MT No. 3	MT No. 3	MT No. 2	MT No. 3				
	Option	●	●	Option	●	●	●	Option	Option	●	●	●	
				Option	●	Option	Option	Option	Option				
						●	●		●				
				●	●			●					
						●	●						
								●	●		●		
				●	●	●	●	●					
	●	●	●	●	●	●	●	●	●			●	
							●	Option					
	9,5 kg	11 kg	13,2 kg	15 kg	15 kg	26 kg	27 kg	15 kg	26 kg	13 kg	21 kg	19,5 kg	
	Stroke/course	147 mm	150 mm	50 mm	170 mm	170 mm	280 mm	280 mm	170 mm	280 mm	170mm	170 mm	184 mm
	Motor Power	720 W	1100 W	1300 W	1100 W	1100 W	1800 W	1800 W	1100 W	1700 W	0.77 kW	Oil pressure dependant	1150 W
	Panel type										-	-	Special

- Cutter capacity for broach cutters with cutting depth 30mm
- Cutter capacity for broach cutters with cutting depth 30 & 50mm
- Twist drill capacity
- 1 Mechanical speed
- 2 Mechanically adjustable speeds
- 4 Mechanically adjustable speeds
- Automatic coolant/lubrication system
- Morse Taper holder (MT2 of MT3)
- Quickhitch quick release cutter arbor
- Mechanical slipping clutch on output shaft
- Electronic speed control
- Electronic speed control with "Constant speed" electronics
- Forward / Reverse switching for thread tapping
- Current overload protection
- Temperature overload protection
- MAGTRON High Power magnet:
- Swivel magnet with 22mm / 100° ratio
- Total weight
- Electrical switched control panel:
- Electronically switched control panel (MK2)

# MAGTRON BROACH CUTTERS

## MAGTRON HSS broach cutters (HSS-M2 quality)

Available in Ø 12 mm – Ø 69 mm with 19 mm standard shank (Weldon), 1 mm ascending  
Available in Ø 70 mm – Ø 100 mm with 32 mm standard shank (Weldon), 1 mm ascending



With cutting depths: **30 mm, 50 mm, 75 mm, 100 mm** (6,35 mm pilot pin hole)  
(\* Half sizes or special diameters on request.)

**Article numbers:** (\*\* = diameter)

- \*\*S for 30 mm cutting depth
- \*\*L for 50 mm cutting depth
- \*\*x75 for 75 mm cutting depth
- \*\*x100 for 100 mm cutting depth

MAGTRON broach cutters are equipped with a special geometry for optimal cutting conditions, longer tool life and smooth cutting against limited chance on breakage.

## MAGTRON HSS-Co8 Cobalt broach cutters (HSS-M42 quality)

Available in Ø 12 mm – Ø 69 mm with 19 mm standard shank (Weldon), 1 mm ascending  
Available in Ø 70 mm – Ø 100 mm with 32 mm standard shank (Weldon), 1 mm ascending



With cutting depths: **30 mm, 50 mm, 75 mm, 100 mm** (6,35 mm pilot pin hole)  
(\*Half sizes or special diameters on request.)

**Article numbers:** (\*\* = diameter)

- M\*\*S for 30 mm cutting depth
- M\*\*L for 50 mm cutting depth

MAGTRON HSS-Co8 cutters with 8% Cobalt. Extra long tool life and suitable for tougher materials as stainless steel and alloyed steels.

## MAGTRON Oerlikon-Balzers TiAlN – Futura coating

Optional available on all our HSS & HSS-Co8 broach cutters

**Article numbers:**

- Coat1 for broach cutters till Ø 32 mm
- Coat2 for broach cutters from Ø 33 mm till Ø 50 mm
- > Ø50mm on request

Especially at upside down cutting, coolant- or cutting- fluids cannot be used. By using a multi layer TiAlN – Futura coating, breakage will be reduced considerable and increase of life will be realized, even at “dry cutting” and up to 30% higher cutting speeds can be achieved.

## MAGTRON TCT broach cutters (Tungsten Carbide tipped cutters)

Available in Ø 12 mm – Ø 60 mm with 19 mm standard shank (Weldon), 1 mm ascending  
Available in Ø 61 mm – Ø 150 mm with 32 mm standard shank (Weldon), 1 mm ascending \*

With cutting depths: **35 mm, 55 mm, 75 mm & 100 mm** (8,00 mm pilot pin hole as from Ø17 mm)  
(\* As from Ø70mm with 5 mm ascending, halve sizes, bigger cutting depths or special diameters available upon request)

**Article numbers:** (\*\* = diameter)

- TCT\*\*S for 35 mm cutting depth
- TCT\*\*L for 55 mm cutting depth
- TCT\*\*75 for 75 mm cutting depth
- TCT\*\*100 for 100 mm cutting depth

TCT broach cutters for longer tool life and difficult to cut materials as cast steel, stainless steel, Hardox and other alloyed steels.

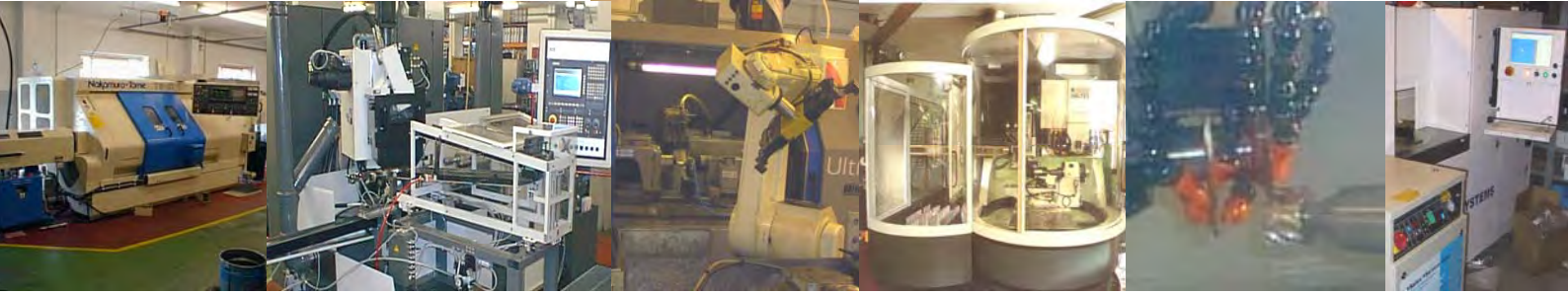




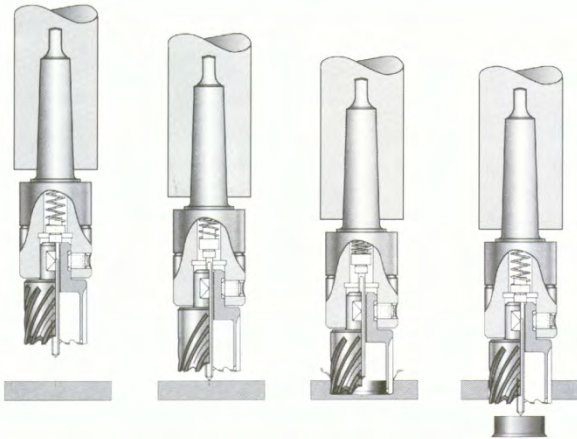
# MAGTRON BROACH CUTTERS

With a production capacity of more than 55,000 broach cutters per month, MAGTRON can count itself to the largest cutter manufacturers in the world. We supply our cutters under the MAGTRON label and supply (OEM) other worldwide well known manufacturers. We annually invest large amounts, in development and the latest on the market available production equipment. With the current, "state of the art" machines, we produce top quality at absolute competitive prices. The entire production takes place in our own factory in Sheffield – UK.

*On request we produce cutters in nearly every diameter & length!*



MAGTRON broach cutters are fully ground, where a specially developed machine produces the flutes only under high pressure cooling **after** which they are being ground to tolerance. Material and hardening deformation is excluded. This results to a much better quality, especially with Cobalt alloyed cutters compared to normal CNC produced broach cutters.

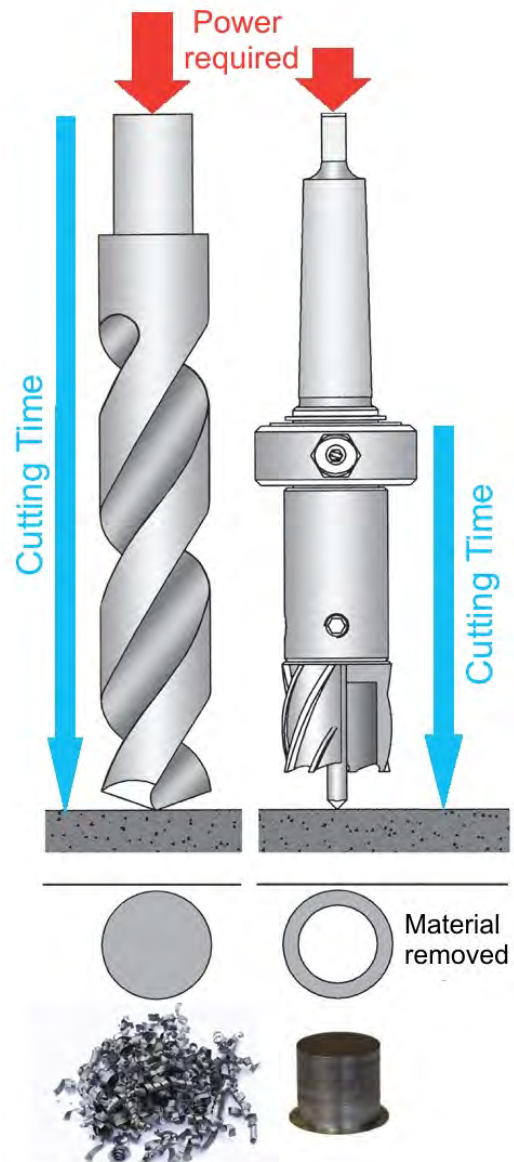


Broach cutters only cut material at the periphery of the hole, rather than converting the entire hole to shavings. As a result the time and energy required to make the hole is lower than for a traditional twist drill.

The broaching capacity of a machine is therefore greater than the twist drill capacity. The slug ejected after the cut also has a higher scrap value than shavings.

MAGTRON broach cutters feature a special teething and geometry for:

- Optimized cutting properties ratio
- Excellent start without runaway
- Highly accurate
- Tapered ground inside to ensure proper discharge of the slug
- A good cut kindness to a limited risk of breakage
- A higher quality and tolerance of the cutter
- Teething with so-called "middle cutter" with advantages:
  - Longer tool life
  - More forgiving
  - More consistent in use
  - Higher feed possible



# MAGTRON ACCESSORIES



We carry a full stock of supplies and accessories.

- Broach cutter arbors without / with internal coolant / lubrication
- Coolant / lubrication cups with tap
- Ejector- / pilot pins
- Drill chucks
- Adapters
- Extension pieces
- Countersinks
- Cutting oils / paste
- Pipe clamps
- Tap collets
- Twist drills with 19 mm "Weldon" connection
- Magnetic shavings collecting stick
- Shavings removal hook

For the full list please see our accessories pricelist.



# MAGTRON SERVICE

We carry a complete stock of all major components of our product range.

- Electronic components
- Housings
- Armatures / Field coils
- Magnets
- Gears
- Switches
- Bearings
- Etc.

For each machine is a parts list available in PDF format.



In our service workshop in Oostvoorne (NL) we provide service and repairs on our own manufactured machines but also for "foreign" brands we can often be helpful. Regular maintenance will extend the life of a machine considerably.

- Conveniently workshop rates
- Always a cost statement in advance
- Product knowledge
- All parts in stock
- Only use of original parts
- Limited research costs when the machine appears irreparably
- No research costs in case of replacement by a new machine





# BOHRMASTER

**NEW**  
The affordable one

BY

**MAGTRON**  
HOLE CUTTING TECHNOLOGY

## Magnetic Drilling Machine MBHM-35



Drill mounted on lower position



### 35 mm Capacity

#### Specifications MBHM-35:

Cutter capacity:	Ø 12 – 35 mm
Twist drill capacity:	Ø 1 – 13 mm
Arbor:	Integral - 19 mm (50 mm cutting depth)
No load Speed:	450 min <sup>-1</sup>
Motor power:	1050 W
Magnet:	160x80x42 mm, "High Power"
Weight:	11,6 kg
Stroke:	105 mm
Dimensions (LxHxW):	270 x 330 x 110 mm (W:165 mm incl. handles)



Drill mounted on upper position  
±10 minutes fitting time



Integral automatic  
lubrication system

- **Compact** – easily manoeuvrable
- **Lightweight** – great for onsite work
- **Powerful** – drills up to Ø 35 mm
- **Drill can be fitted at two positions** – for twist drilling
- **Gearbox mounted** – Optimal stability
- **Integral automatic lubrication system**
- **German high Torque quality drill**
- **SUPERB VALUE !!**

MAGTRON machines are supplied in a robust, light and easy to carry, ABS plastic case, which includes accessories and safety guard as standard.

With a production capacity of 50.000 broach cutters per month, MAGTRON can count itself to the largest cutter manufacturers of the world. We supply our cutters under the MAGTRON label and supply (OEM) other worldwide well known manufacturers. We yearly invest large amounts, in development and the latest on the market available production equipment. With the current, "state of the art" machines, we produce top quality at absolute competitive prices.

**On request we produce cutters in nearly every diameter & length!**

#### We like to advise you:

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