



MD500/2 2-Speed Long-Cutter Magnetic Drill

A 2-speed 2000 W
magnetic drilling machine

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Internal & Confidential

AGP TAIWAN

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AGP | MD500/2 Magnetic Drilling Machine



Introduction

Target group & Applications

MD500/2 Introduction

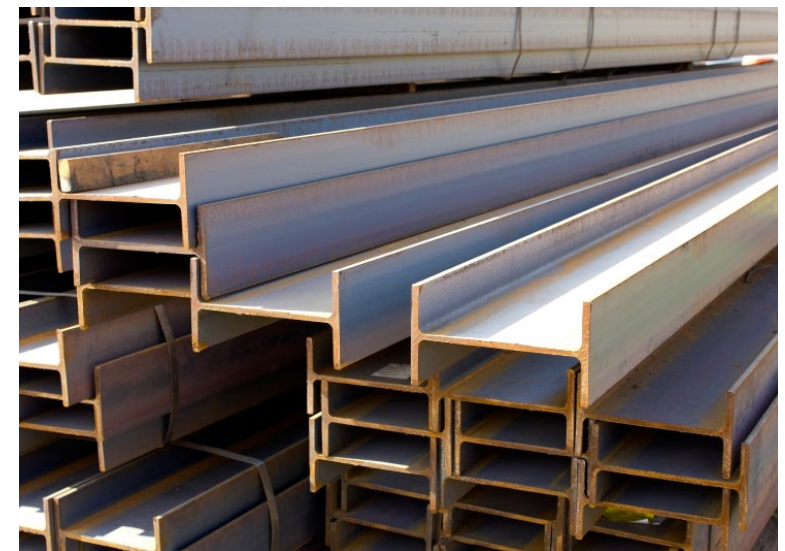
The MD500/2 is a two-speed, long-cutter machine. The two gears allow a wider range of cutter diameters to be used while maintaining maximum torque. For drilling with HSS or TCT annular cutters in steel, it is rated at 65 mm diameter with up to 75 mm length. The most outstanding feature of this machine is its exceptional 75 mm deep drilling capacity, with only a few competitors being able to match it. This machine uses an arbor support bracket to optimize its stability using large cutters.

Although its primary purpose is drilling with annular cutters, a 5/8" (16mm) chuck can also be mounted by using the optional chuck adaptor (after temporarily removing the arbor support bracket). This allows the use of twist drills and other types of cutting tools such as countersinks, counterbores, and reamers. This makes the machine useful for a wide range of metalworking applications and industries.

Target Groups and Applications

For operators in the metalworking, fabrication, steel frame construction, bridge building industry, or anyone who needs to drill up to 75mm thick steel, the MD500/2 is the tool for the job. Magnetic drills are convenient and portable, making them the perfect complement to a stationary drill press. Their powerful electromagnet can adhere to ferrous steel in any position needed, allowing accurately aligned perpendicular holes to be created. They are especially useful when the steel to be drilled is part of a larger structure which cannot be drilled by stationary equipment.

Here their ability to magnetically adhere to the workpiece really saves the day. This tool's performance creating large holes in thick steel is the best in its class.



Sales Arguments

Extra Long Cutter Capacity

Drill up to 75 mm thick steel in diameters up to 65 mm.



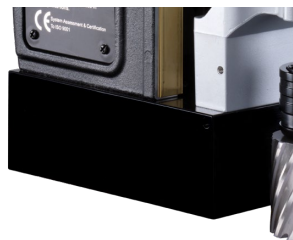
Arbor Support Bracket

Extra stability when drilling with large diameters.



Powerful Electromagnet

32,000 N electromagnet for reliable stability with large diameters.



2-Speed Gearbox

Two gear ratios for maximum torque with a wider range of diameters.



Quick-Release Arbor

Tool free cutter changes save time and effort.



Integrated Cutting Fluid Feed

Cutting fluid automatically feeds when using annular cutters and can be fine adjusted as needed.



Technical Specification

| | | |
|-----------------------------|-----------------------------|---|
| Model | | MD500/2 |
| Power Input | | 2000 W (220 V), 1700 W (110 V) |
| Voltage, Frequency | | 220-240 V~ 50-60 Hz, or 110-120 V~ 50-60 Hz |
| No Load (Rated Load) Speeds | | Gear 1 380 (230) min ⁻¹ |
| | | Gear 2 550 (330) min ⁻¹ |
| Max. Capacity | Ø x Depth of Cut of Cutters | 65 mm x 75 mm (2-9/16" x 3") |
| | Ø Twist Drills | ≤ 16 mm (5/8") shank |
| | Stroke | 115 mm (4-1/2") |
| Overload Protection | | With |
| Magnetic Adhesion | | 32,000 N |
| Weight | | 21.1 kg (46.5 lb) |

- 1 Coolant Tank
- 2 Coolant Feed Tap
- 3 Gear Selector
- 4 Arbor Support Bracket
- 5 Quick-Release Arbor
- 6 Annular Cutter (Not included)
- 7 Magnet Base
- 8 Magnet Switch
- 9 Motor Switch
- 10 Crank Handle



Offer Content

Standard Accessories

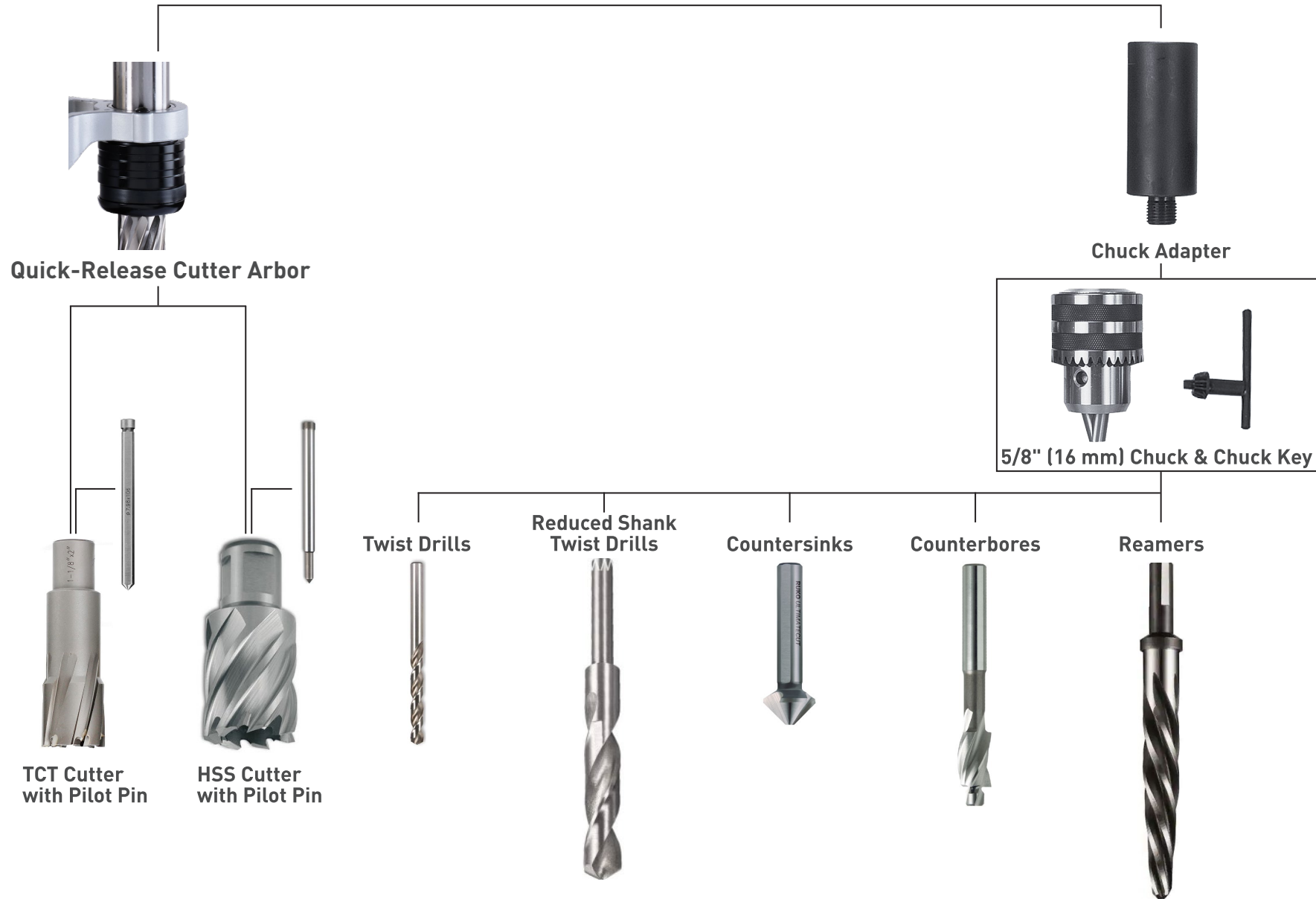
- ① MD500/2 Magnetic Drilling Machine
- ② Coolant Tank Kit
- ③ Wrench M8
- ④ L-Hex Key M4
- ⑤ L-Hex Key M2.5
- ⑥ Ratchet Strap
- ⑦ Chip Guard Kit

Optional Accessories

- ⑧ Chuck Adaptor
- ⑨ 5/8" (16 mm) Chuck & Chuck Key



Cutting Tools Applications



Comparison Table

AGP[®]



NITTO
NITTO KOHKI CO.,LTD.



Haugen



Brand

| | | | |
|------------------------------------|----------------|----------------|-------------------------------|
| Model | MD500/2 | AO-5575 | HMD917 |
| Power | 2000 W | 1150 W | 1553 W |
| Capacity Ø (cutters) | 65 mm | 55 mm | 60 mm |
| Depth of Cut (cutters) | 75 mm | 75 mm | 75 mm |
| Twist Drills | 16 mm | N/A | 16 mm |
| RPM-no load (rated load) I | 380 (230) /min | 350 (250) /min | (250) /min |
| RPM-no load (rated load) II | 550 (330) /min | 650 (450) /min | (450) /min |
| Overload Protection | Yes | Yes | Yes |
| Gearbox Lubrication | Grease | Grease | Grease |
| Cutter Shank | 19.05 Weldon | One-Touch | 19.05 Weldon |
| Quick-Release Arbor | Yes | Yes | No |
| Morse Taper Spindle | No | No | Optional |
| Swivel Base | No | No | Optional |
| Tapping | No | No | Optional (5/8", M16) |
| Magnetic Force Display | No | Yes | Yes |
| Magnetic Adhesion | 32,000 N | 10,000 N | 1,125 kg (dead lift) |
| Weight | 21.1 kg | 18.0 kg | 20.9 kg (22.7 kg swivel base) |

Conclusion

The **AGP** is by far the most powerful and highest capacity machine in this category. Its magnet is also the strongest. It is the obvious best choice for 75mm depth of cut.

Tool Dimensions

