



MD750/4 & MDS750/4 4-Speed Magnetic Drill

4 speed 2000 W Magnetic Drilling Machine

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Internal & Confidential

AGP TAIWAN

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MD750/4



MDS750/4

Introduction

Target group & Applications

MD750/4 & MDS750/4 Introduction

The MD750/4 (standard version) & MDS750/4 (swivel base version) are versatile, large capacity magnetic drills with a wide range of capabilities. For both HSS and TCT cutters, they are rated at 75 mm diameter. The 4-speed gearbox allows a wide range cutting speeds which is useful for both varying cutter diameters, as well as different types of cutting tools to be used. The number 3 Morse taper (MT3) spindle makes it easy to change between different styles of arbors and adaptors to use a large array of cutting tools.

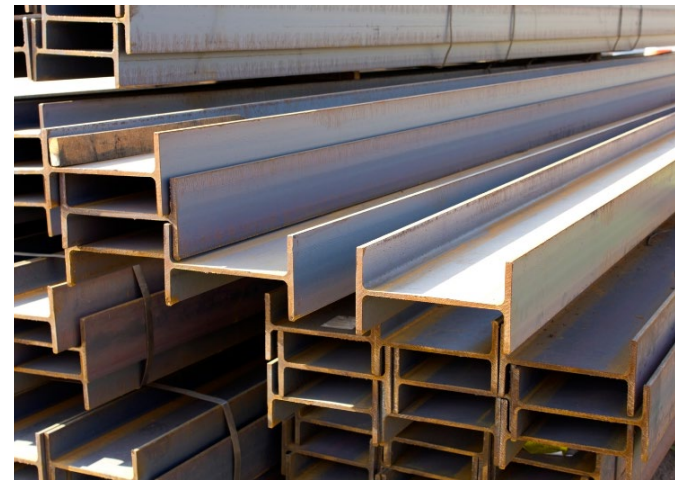
Since MT3 is a common, industry-wide standard, many different arbors and MT3 shank cutting tools can be found in the market and can be shared with other equipment, such as drill presses, etc. Reducers can also be used to mount MT2 and MT1 tools as well. The reversing switch, together with the optional #1 and #2 tapping adaptor arbors allow the machine to easily perform tapping.

The MDS750/4 has the additional feature of swivel base function. This is mainly used for situations where it's difficult to both aim the machine and hold it up simultaneously, such as when performing horizontal or overhead drilling.

With this function, the operator can first turn the magnet on (to allow the magnet to hold the machine up), and then precisely aim the cutting tool.

Target Groups and Applications

For operators in the metalworking, fabrication, steel frame construction, bridge building industry, or anyone who needs to perform a wide array of heavy steel drilling up to 75mm diameter, these are the tool for the job. With their powerful motors and strong magnets, these tools' performance in thick steel is outstanding.



Sales Arguments

High Torque Motor

2000 W motor designed for optimum torque characteristics is the most powerful in its class.



Arbor Support Bracket

Extra stability when drilling with large diameters.



4-Speed Gearbox

Four mechanical gear ratios for maximum torque with a wide range of diameters.



Reversing Switch

The reversing switch allows the machine to perform tapping.



Integrated Cutting Fluid Feed

The unique AGP design integrates the cutting fluid feed with the MT3 cutter arbor.



Powerful Electromagnet

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



Swivel Base

The MDS750/4 features a swivel base capability which allows the spindle to be precisely aimed after the magnet is energized. This is especially useful for horizontal and overhead drilling situations where it's hard to support the weight of the machine and aim the spindle at the same time.

Morse Taper Spindle

MT3 spindle allows a wide range of cutting tools to be directly mounted in the spindle.



Technical Specification

Model		MD750/4	MDS750/4
Power Input		2000 W (220-240 V), 1700 W (110-120 V)	
Voltage, Frequency		220-240 V~ 50-60 Hz or 110-120 V~ 50-60 Hz	
No Load (Rated Load) Speeds		Gear 1	150 (90) min ⁻¹
		Gear 2	200 (120) min ⁻¹
		Gear 3	300 (180) min ⁻¹
		Gear 4	380 (230) min ⁻¹
Max. Capacity	Ø x Depth of Cut of Annular Cutters	75 mm x 50 mm (3" x 2")	75 mm x 75 mm (3" x 3")
	Drill Chuck Capacity	≤ 16 mm (5/8") shank	
	Ø of MT3 Twist Drill	32 mm (1-1/4")	
	Ø of Taps	25.4 mm (1")	
	Stroke with MT3 Cutting Tools	145 mm (5-11/16")	155 mm (6-1/8")
Magnetic Adhesion		32,000 N	
Weight		24.4 kg (53.8 lb)	27.8 kg (61.3 lb)

- 1 Arbor Support Bracket
- 2 Crank Handle
- 3 Motor Switch
- 4 Magnet Switch
- 5 Reversing Switch
- 6 Swivel Base (MDS750/4)
- 7 Coolant Tank
- 8 Coolant Feed Tap
- 9 Magnet Base (MD750/4)
- 10 Pilot Pin (Not included)
- 11 Annular Cutter (Not included)
- 12 MT3 Arbor
- 13 Gear Selectors



Offer Content

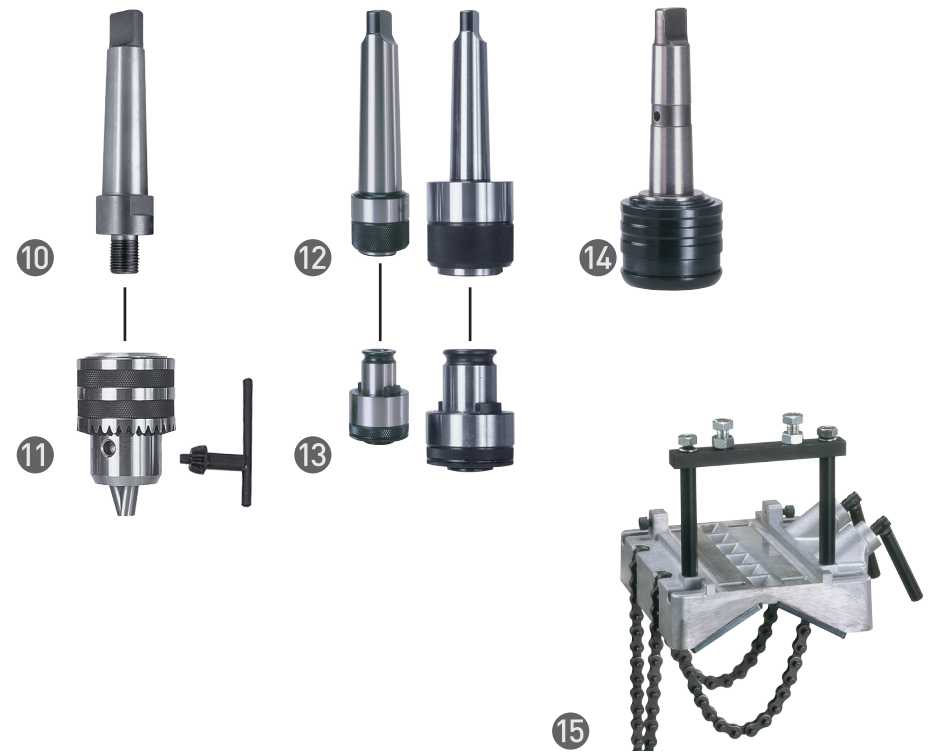
Standard Accessories

- 1 MD750/4 & MDS750/4 Magnetic Drill
- 2 MT3 Annular Cutter Arbor (set screw type)
- 3 Wrench M17 (MDS750/4 Only)
- 4 Wrench M8
- 5 L-Hex Key M4
- 6 L-Hex Key M2.5
- 7 Drift
- 8 Chip Guard Kit
- 9 Ratchet Strap



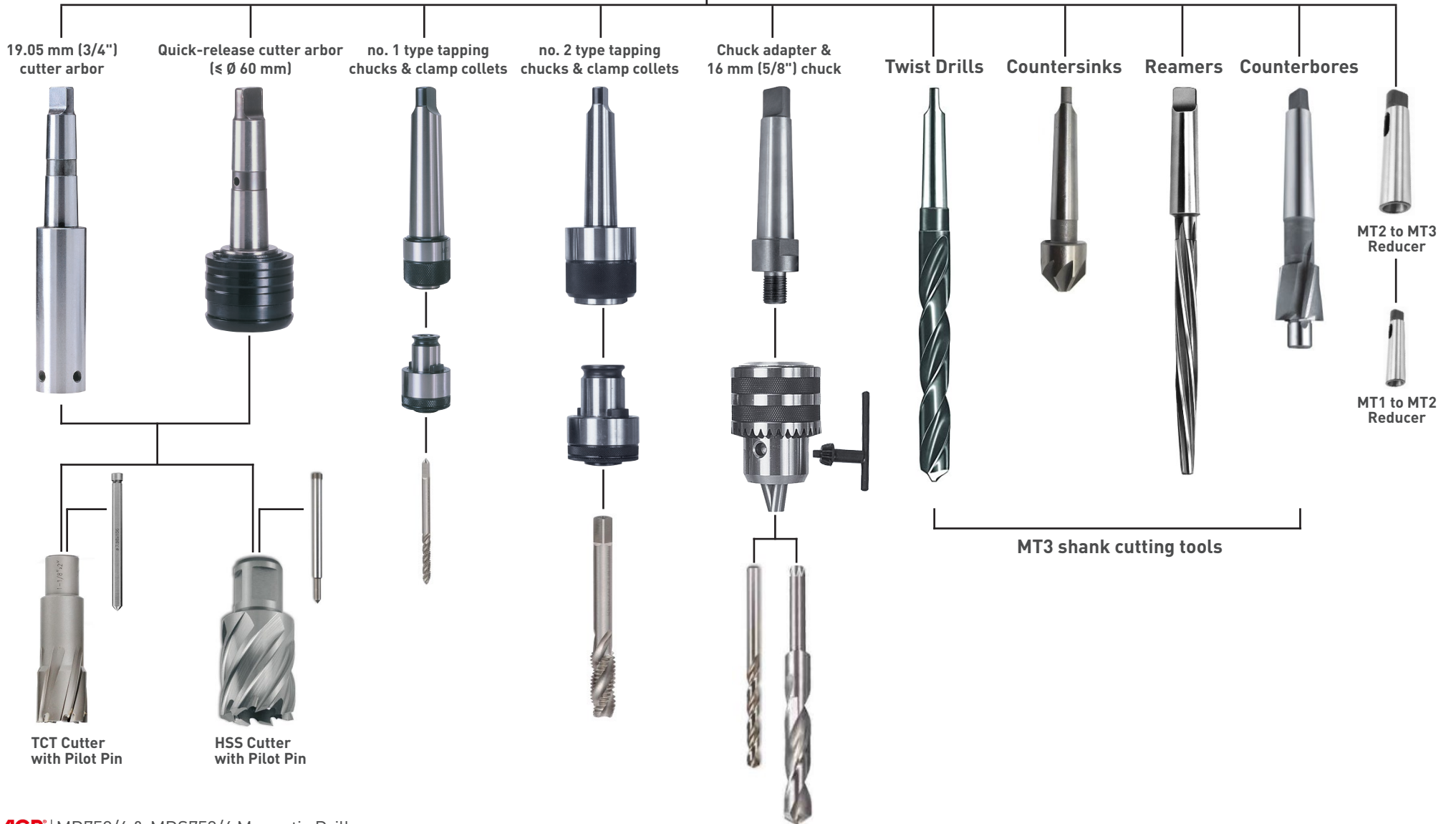
Optional Accessories

- 10 MT3 Chuck Adaptor
- 11 5/8" (16 mm) Chuck & Chuck Key
- 12 MT3 Tapping Adaptors
- 13 Tapping Attachments
- 14 MT3 Quick-Release Annular Cutter Arbor
- 15 Pipe Vise For Pipe Diameters 32 mm - 203 mm (1-1/4" - 8-1/4")



Cutting Tools Applications

MT3 Shank



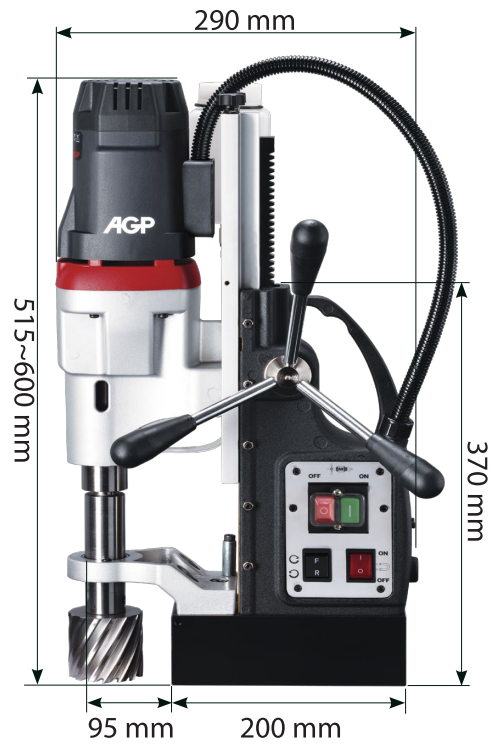
Comparison Table

Brand								
Model	MD750-4	MDS750-4	MABasic 850	KBE 65-2 M	KBM 65 U	RB 80 X	Element 75	Magpro 80/4S
Power Input	2 000 W	2 000 W	1 800 W	1 300 W	1 300 W	1 800 W	1 800 W	1 600 W
Morse Taper Spindle	MT3	MT3	MT3	MT3	MT3	MT3	MT3	MT3
Capacity Ø (cutters)	75 mm	75 mm	75 mm	65 mm	65 mm	80 mm	75 mm	80 mm
Depth of Cut (cutters)	50 mm	75 mm	50 mm	50 mm	50 mm	50 mm	75 mm	55 mm
Chuck	16 mm	16 mm	16 mm	16 mm	16 mm	16 mm	16 mm	16 mm
MT3 Twist Drills	32 mm	32 mm	32 mm	25 mm	25 mm	32 mm	26 mm	32 mm
RPM-no load (rated load) I	150 (90) min⁻¹	150 (90) min⁻¹	215 (110 /min)	310 (240)	120 - 240 (constant speed)	(110 /min)	70 - 180 (constant speed)	190 (105 /min)
RPM-no load (rated load) II	200 (120) min⁻¹	200 (120) min⁻¹	330 (175 /min)	630 (500)	260 - 520 (constant speed)	(175 /min)	200 - 500 (constant speed)	300 (165 /min)
RPM-no load (rated load) III	300 (180) min⁻¹	300 (180) min⁻¹	460 (245 /min)	N/A	N/A	(245 /min)	N/A	420 (230 /min)
RPM-no load (rated load) IV	380 (230) min⁻¹	380 (230) min⁻¹	680 (385 /min)	N/A	N/A	(385 /min)	N/A	660 (365 /min)
Variable Speed	No	No	No	No	Yes	No	Yes	No
Constant Speed	No	No	No	No	Yes	No	Yes	No
Overload Protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Reversing	Yes	Yes	No	No	Yes	No	Yes	No
Mechanical Clutch	No	No	No	No	No	Yes	Yes	No
Cutter Shank	19.05 Weldon	19.05 Weldon	19.05 Weldon	19.05 Weldon	19.05 Weldon	19.05 Weldon	19.05 Weldon	19.05 Weldon
Quick-Release Arbor	(optional)	(optional)	(optional)	No	Yes QuickIN	(optional)	No	(optional)
Stroke	145 mm	155 mm	255 mm	135 mm	145 mm	190 mm	185 mm	270 mm
Adjustable Slide Height	No	No	No	No	Yes	Yes 100 mm	No	No
Swivel Base	No	Yes	No	No	Yes	No	optional	No
Tapping	M 25.4	M 25.4	No	No	M 20	M 30 (w/ attachment)	M 30	No
Magnetic Adhesion	32 000 N	32 000 N	not listed	12 000 N	14 000 N	16 000 N	18 500 N	17 000 N
Weight	24.4 kg	27.8 kg	24.0 kg	13.8 kg	16.1 kg	19.5 kg	23.5 kg	24.0 kg

Conclusion The **AGP** drills, both swivel base and standard base versions, have the most powerful motors and most powerful magnets in this segment. They uniquely have an arbor support bracket design, which gives superior stability with large cutters. With a full range of features, such as 4 speed gearbox and tapping capability, they make an excellent choice for this category.

AGP | MD750/4 & MDS750/4 Magnetic Drill

Tool Dimensions



MD750/4



MDS750/4

