

# LOW PROFILE MAGNETIC DRILLING MACHINE

Our incredible new low clearance mag drill can enter spaces impossible to reach with a conventional mag drill. Although the total height is only 198mm, conventional 30mm length cutters can be used. No need for special cutters.



Model	PMD3530
Power Input	1100W
Voltage	110-120V~ 50-60Hz, 220-240V~ 50-60Hz
No / Full Load min <sup>-1</sup>	650 / 390
Max. Capacity Dia. X Depth of Cut	35mm x 35mm
Weldon Shank	19.05mm
Magnetic Adhesion	15,000 N
Net Weight	10kg ( 22Lbs )



**STANDARD ACCESSORIES**

- \* Safety Belt
- \* Chip Guard Kit

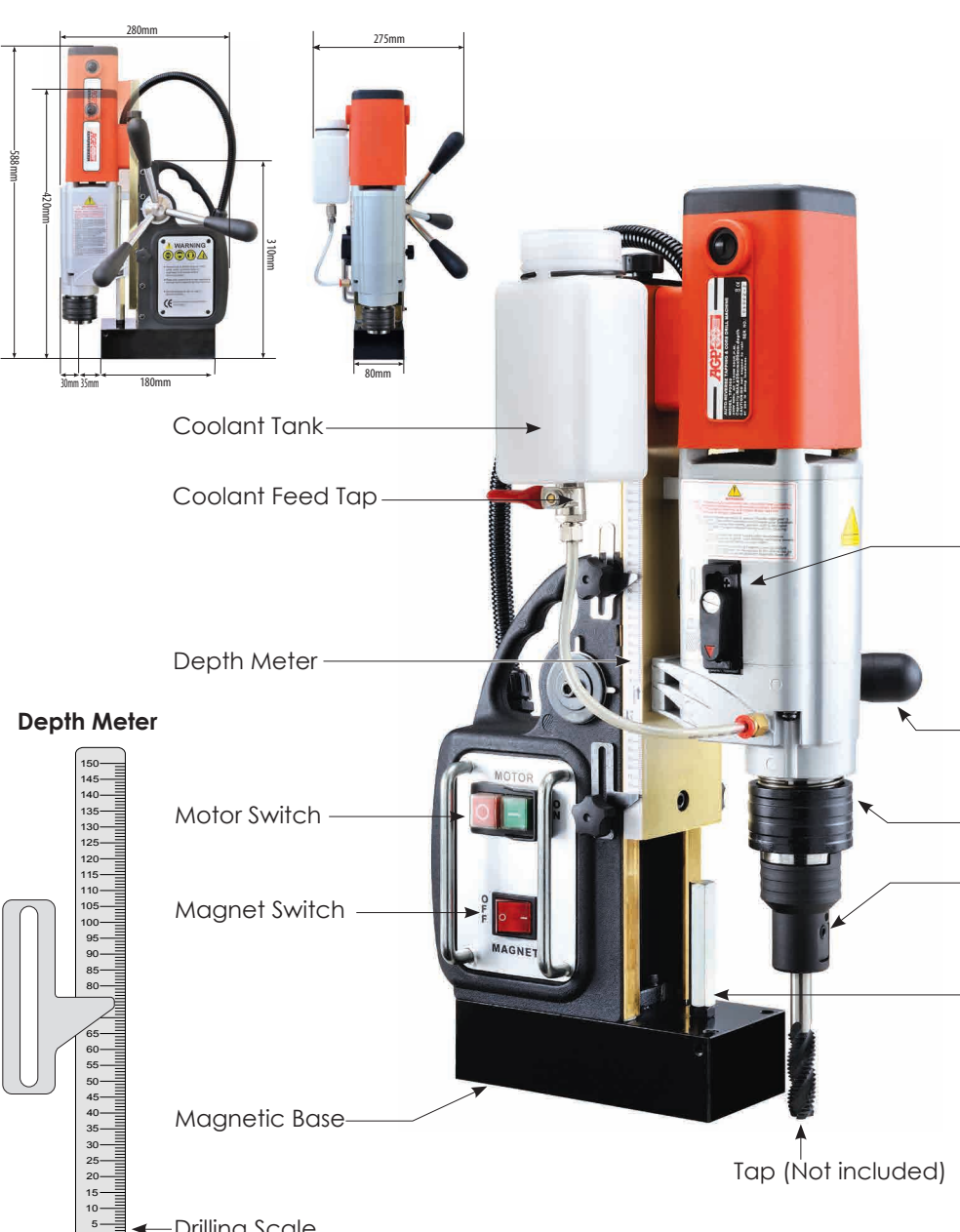
**OPTIONAL ACCESSORIES**

- \* Overload Protection

# AUTO-REVERSE TAPPING & CORE DRILLING MACHINE


This is a purpose-built tapping machine which can also work perfectly well as a conventional mag drill. It is equipped with a two-mode gearbox: one mode for mechanical auto-reverse tapping and one mode for annular cutters and twist drills. The quick-release spindle allows fast, tool-free changing of accessories. Since the quick-release spindle is 31mm Bilz no.2, a huge variety of accessories are readily available from us or from outside which will directly fit in this machine's spindle. A reducing sleeve may be used to also use 19mm Bilz no.1 accessories. It is a **patented** design and when tapping, the operator has very fine control of the forward, stop and reverse motion by the crank handle.

The system gives unparalleled responsiveness and feel for quick, efficient and trouble-free tapping operations. Our all new Universal Tap Chuck grips squares from 4.9mm up to 12mm, so any tap from any system, be it DIN, ISO, JIS, or ANSI will work. We limit the minimum size to M6 (1/4") and can go up to M20 (3/4") all in one chuck.



Dimensions: 280mm, 580mm, 420mm, 30mm, 180mm, 275mm, 80mm, 310mm

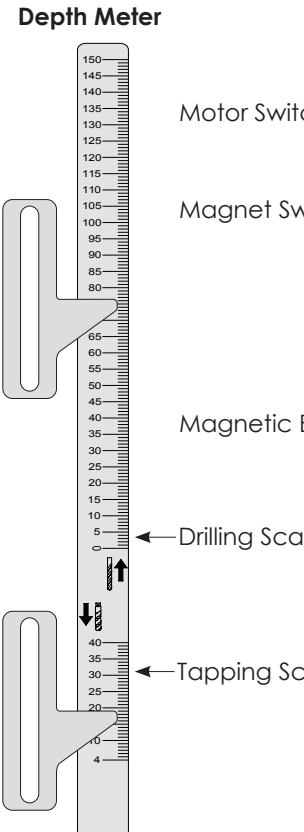
Labels: Coolant Tank, Coolant Feed Tap, Depth Meter, Motor Switch, Magnet Switch, Magnetic Base, Mode Selector, Crank Handle, Quick Release Collar, Universal Tap Chuck for M6 to M20, 1/4" to 3/4", Travel Limiter Stop, Tap (Not included)



Annular Cutter Arbor (Annular cutter and pilot pin not included)



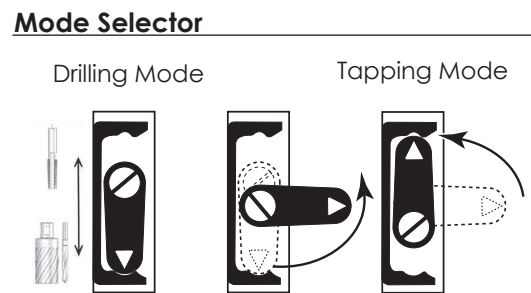
Drill Chuck Arbor (Twist drill not included)



Depth Meter

Drilling Scale

Tapping Scale

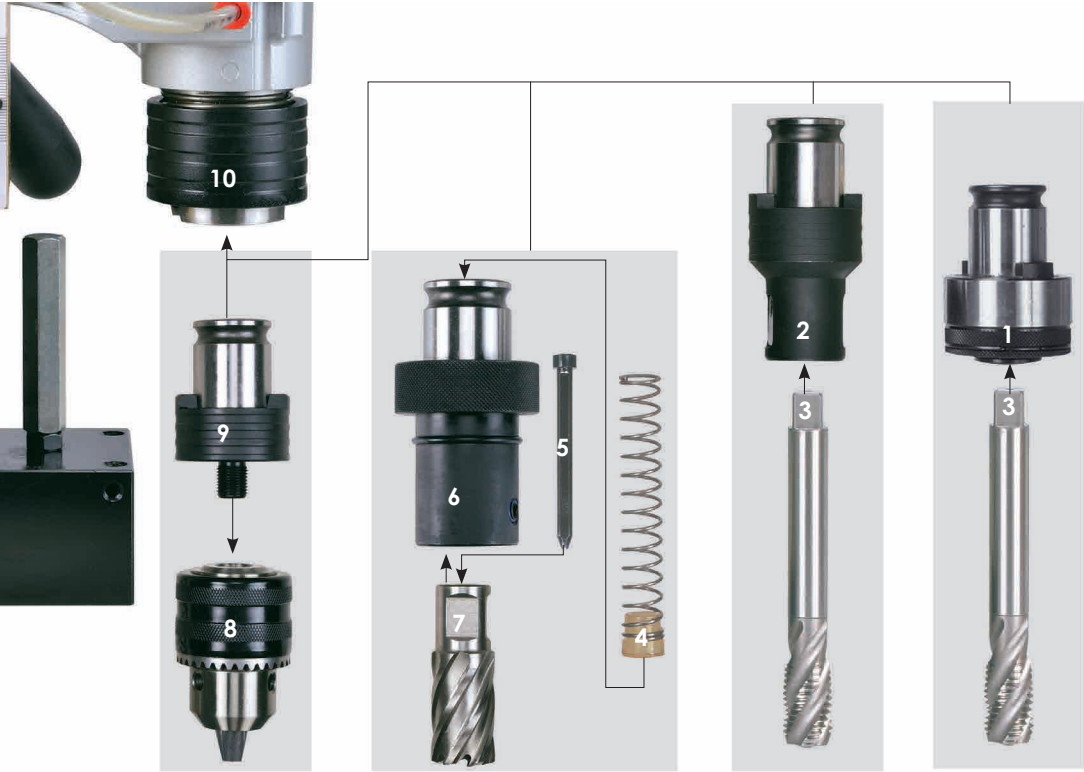


Mode Selector

Drilling Mode

Tapping Mode

Mode Selector



1. Large Range Clamp Collet (Not Included)

2. Universal Tap Chuck

3. Tap (Not included)

4. Coolant Feed Spring And Seal

5. Pilot Pin (Not included)
6. Annular Cutter Arbor 3/4" (19.05mm)Weldon Shank )

7. Annular Cutter (Not included)

8. 1/2" Twist Drill Chuck

9. Drill Chuck Arbor

10. Quick-Release Collar

OPTIONAL ACCESSORIES:



Annular Cutter



Pilot Pin



Magnetic Chip Collector



Large Range Bilz  
no.2 Clamp Collets  
(see p.23)

(Patented)

Model	TP2000
Power Input	1100W
Voltage	110-120V~ 50-60Hz, 220-240V~ 50-60Hz
Drilling Mode No / Full Load min <sup>-1</sup>	550 / 330
Tapping Mode No / Full Load min <sup>-1</sup>	150 / 90
Spindle Coupling	31mm (Bilz no.2)
Annular Cutter Arbor	Set Screw Type, 19.05mm Weldon Shank
Annular Cutters	35mm x 50mm (1-3/8" x 2")
Taps	20mm x 40mm (13/16" x 1-9/16")
Twist Drills	13mm x 150mm (1/2" x 6")
Magnetic Adhesion	15,000 N ( 3,372 lb-f )
Net Weight	13.7kg (30.14 Lbs)

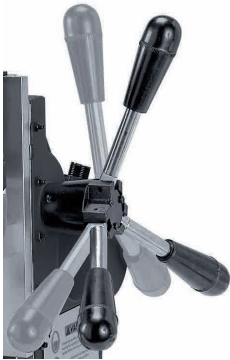
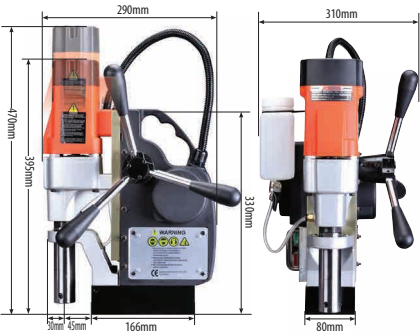


- STANDARD ACCESSORIES**
- \* Universal Tap Chuck
  - \* Wrench M8
  - \* 2.5mm L-Hex Key
  - \* 4mm L-Hex Key
  - \* Drill Chuck Arbor
  - \* 1/2" Chuck And Chuck Key
  - \* Annular Cutter Arbor 3/4" (19.05mm)Weldon Shank
  - \* Coolant Tank Kit
  - \* Chip Guard Kit
  - \* Safety Chain

- OPTIONAL ACCESSORIES**
- \* Other sizes of Clamp Collets

# SEMI AUTO FEED MAGNETIC DRILLING MACHINE

The **MD300N** is an incredible time saving machine. It feeds forward automatically with special circuitry to adjust the feed rate to the ideal speed for the most efficient possible drilling. It still has full manual capability.



## OPTIONAL ACCESSORIES:



Annular Cutter



Pilot Pin



Magnetic Chip Collector



Model		MD300N
Power Input		1100W
Voltage		110-120V~ 50-60Hz, 220-240V~ 50-60Hz
No / Full Load min <sup>-1</sup>		550 / 330
Max. Capacity	Dia. X Depth of Cut ( Hand Feed )	35 mm x 50 mm ( 1-3/8" x 2" )
	Dia. X Depth of Cut ( Auto Feed )	30 mm x 45mm ( 1-3/16" x 1-3/4" )
	Dia. X Depth of Twist Drill Bit ( Hand Feed Only )	13 mm x 110 mm ( 1/2" x 4-5/8" )
	Dia. X Depth of Taps	N/A
Magnetic Adhesion		15,000 N
Overload Protection		With
Net Weight		16.5kg ( 36.3 Lbs )

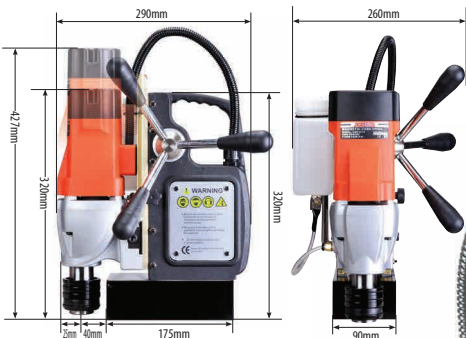
## STANDARD ACCESSORIES

- \* Wrench M8
- \* Hex. Key M2.5
- \* Hex. Key M4
- \* Chip Guard Kit
- \* Coolant Tank Kit
- \* Safety Chain



SINGLE SPEED MAGNETIC DRILLING MACHINE

Available in either high or low speed versions, this is our workhorse model. It drills in the size range most commonly required and is rugged and reliable.



Coolant Tank

Coolant Feed Tap

Motor Switch

Magnet Switch

Magnet Base



The quick-adjustable variable height slide allows a variety of tools to be used. Lower for cutters, raise for twist drills.

Arbor

The Quick-Release arbor makes it quick and tool-free to change cutters and accessories

Annular Cutter (Not included)

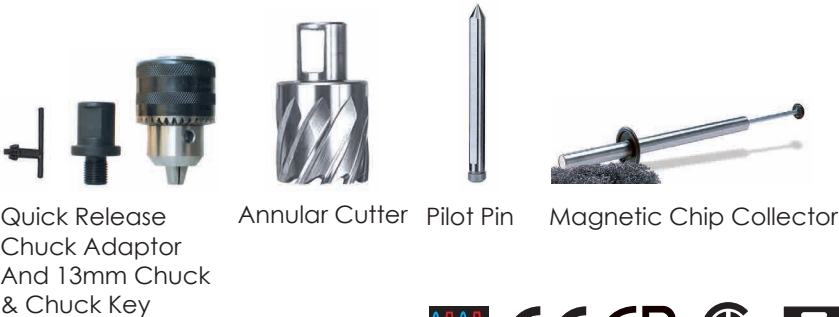
Pilot Pin (Not included)

OPTIONAL ACCESSORIES:

TWIST DRILLING



A revolution in time savings, the new special weldon shank drill chuck mounts directly into the quick release arbor. This means it now takes just seconds to convert from cutters to twist drills!



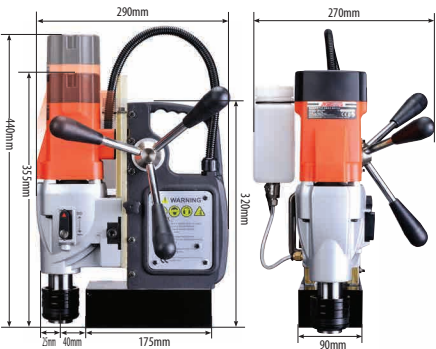
Model		SMD351L	SMD351H
Power Input		1100W	
Voltage		110-120V~ 50-60Hz, 220-240V~ 50-60Hz	
No / Full Load min <sup>-1</sup>		450 / 270	730 / 440
Max. Capacity	Dia. X Depth of Cut	35mm x 50mm ( 1-3/8" x 2")	
	Dia. X Depth Twist Drill Bit	13mm x 140mm (1/2" x 5-1/2")	
Magnetic Adhesion		17,000 N	
Net Weight		14kg (30.8 Lbs)	

- STANDARD ACCESSORIES
- \* Wrench M8
  - \* Hex. Key M2.5
  - \* Hex. Key M4
  - \* T- Wrench M6
  - \* Coolant Tank Kit
  - \* Safety Chain
  - \* Chip Guard Kit

- OPTIONAL ACCESSORIES
- \* Overload Protection

2 SPEED MAGNETIC DRILLING MACHINE

Our two speed models give added versatility for maximum torque using a wide range of cutters



Motor Switch

Magnet Switch

The 2-Speed Gearbox allows a wide range of cutters to be used and delivers maximum torque

The Quick-Release Arbor makes it quick and tool-free to change cutters and accessories

Annular Cutter (Not included)

Pilot Pin (Not included)

Slide Height Lock  
The quick-adjustable variable height slide allows a variety of tools to be used. Lower for cutters, raise for twist drills. (See SMD351L )

Magnet Base

Gib Adjustor Screw

Twist Drilling



A revolution in time savings, the new special weldon shank drill chuck mounts directly into the quick release arbor. This means it now takes just seconds to convert from cutters to twist drills!

OPTIONAL ACCESSORIES:



Quick Release Chuck Adaptor And 13mm Chuck & Chuck Key

Annular Cutter

Pilot pin

Magnetic Chip Collector



Model		SMD352	SMD502
Power Input		1100W	
Voltage		110-120V~ 50-60Hz, 220-240V~ 50-60Hz	
No / Full Load min <sup>-1</sup>	Speed 1	450 / 270	300 / 180
	Speed 2	730 / 440	450 / 270
Max. Capacity	Dia. X Depth of Cut	35mm x 50mm ( 1-3/8" x 2" )	50mm x 50mm ( 2" x 2" )
	Dia. X Depth Twist Drill Bit	13mm x 140mm ( 1/2" x 5-1/2" )	
Magnetic Adhesion		17,000 N	
Net Weight		15kg ( 33 Lbs )	

STANDARD ACCESSORIES

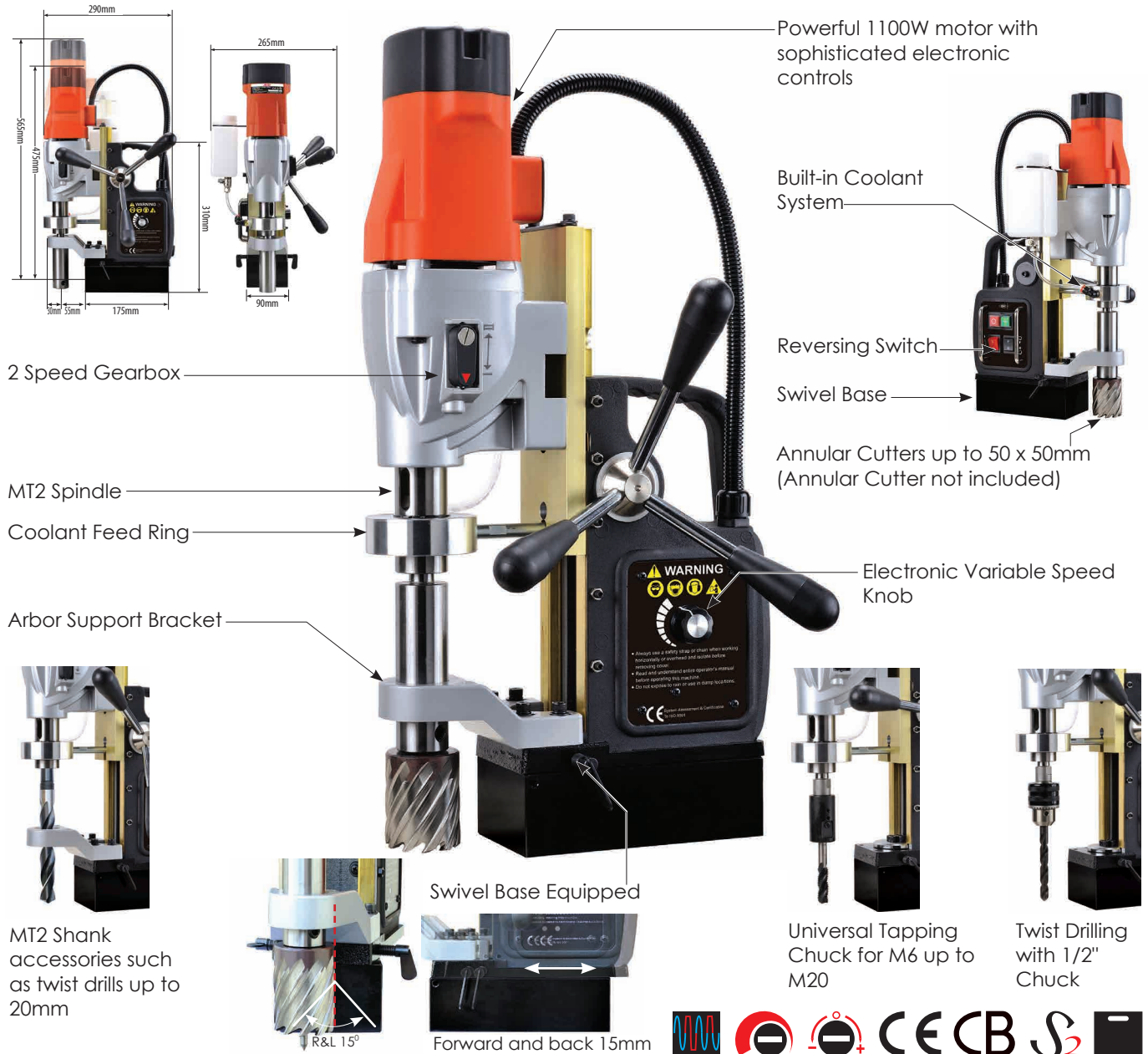
- \* Wrench M8
- \* Hex. Key M2.5
- \* Hex. Key M4
- \* T- wrench M6
- \* Coolant Tank kit
- \* Safety Chain
- \* Chip Guard Kit
- \* Overload Protection(SMD502)

OPTIONAL ACCESSORIES

- \* Overload Protection(SMD352)

## 2 SPEED SWIVEL BASE MAGNETIC DRILLING MACHINE

The **ST50** is a highly versatile magnetic drill which is packed with useful features. These give the machine a huge range of capabilities - all in one tool! The MT2 (Morse Taper no.2) spindle allows a wide range of cutting tools and attachments to be directly mounted. These include, among others, annular cutter arbors, drill chucks, tapping attachments, MT2 shank tools such as twist drills, reamers and countersinks - and more. It comes standard with a 1/2" drill chuck as well as a unique universal tapping chuck, which can steplessly grip taps from M6 up to M20. The spindle has a fixed coolant feed ring which supplies cutting fluid to applicable attachments. The two speed gearbox allows maximum torque for varied applications. The motor is reversible and has stepless variable speed with feedback speed stabilization. The feedback circuitry allows maximum power, even when the speed is reduced: Ideal for tapping. The smart electronics also feature soft start and overload protection. The swivel base allows the machine to mount in difficult positions with limited space: It can swivel 30 degrees (15 degrees to each side) and move 15mm back and forth. Truly a full-function mag drill system!



MODEL	ST50	
Power Input	1100W	
Voltage	110-120V~ 50-60Hz, 220-240~ 50-60Hz	
No / (Full) Load min <sup>-1</sup>	Speed 1	150~300 (90~180)
	Speed 2	225~450 (135~270)
Max. Capacity	Dia. x Depth of Cutter	50mm x 50mm (2" x 2")
	Dia. x Depth of MT2 Drill	20mm x 150mm (13/16" x 5-7/8")
	Dia x Depth of Chuck Drill	20mm x 110mm (13/16" x 4-5/16")
	Dia x Depth of Tap	M20 x 40mm (13/16" x 1-9/16")
Magnetic Adhesion	17,000 N	
Overload Protection & Soft Start	With	
Net Weight	16.3kg (35.86 Lbs)	

## STANDARD ACCESSORIES

- \* Annular Cutter Arbor
- \* Drift
- \* Wrench M8
- \* Hex Key M2.5
- \* Hex Key M4
- \* Hex Key M5
- \* Coolant Tank Kit
- \* Chip Guard Kit
- \* Safety Chain
- \* Chuck Adaptor
- \* Tapping Adaptor

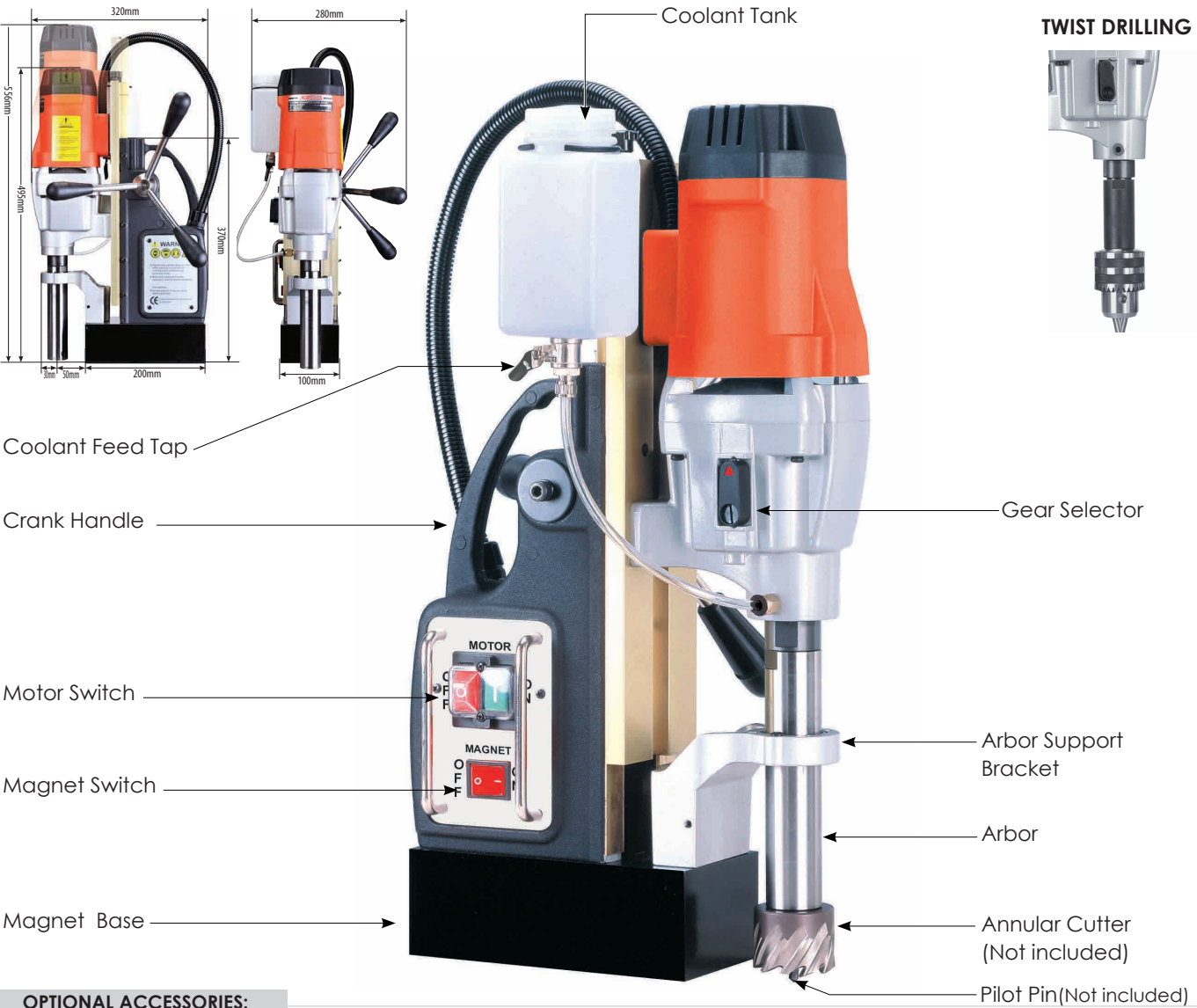
## OPTIONAL ACCESSORIES

- \*1/2" (13mm) Chuck, Key



2 SPEED MAGNETIC DRILLING MACHINE

This heavy duty machine has extra magnet force and the capability of running extra long 75mm cutters.



OPTIONAL ACCESSORIES:



Model		MD500/2
Power Input		110-120V:1700W, 220-240V:2000W
Voltage		110-120V~ 50-60Hz, 220-240V~ 50-60Hz
No / Full Load min <sup>-1</sup>	Speed 1	380 / 230
	Speed 2	500 / 300
Max. Capacity	Dia. X Depth of Cut	50 mm x 75 mm (2" x 3")
	Dia. X Depth of Twist Drill Bit	16mm x 110 mm (5/8" x 4-5/16")
	Dia. X Depth of Taps	N/A
Magnetic Adhesion		32,000 N
Overload Protection		With
Net Weight		22.9kg (50.38 Lbs)

STANDARD ACCESSORIES

- \* Wrench M8
- \* Hex. Key M2.5
- \* Hex. Key M4
- \* Chip Guard Kit
- \* Coolant Tank Kit
- \* Safety Chain

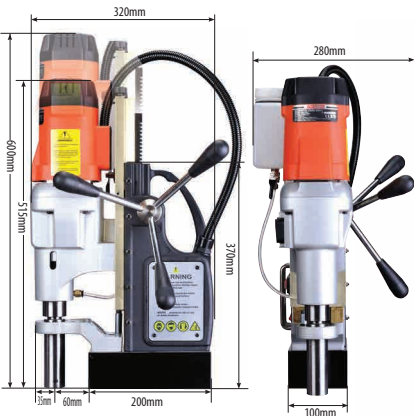
OPTIONAL ACCESSORIES

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



4 SPEED MAGNETIC DRILLING MACHINE

Four mechanical speeds with reversing switch for a large range of capabilities. Unique MT3 arbor with cutting fluid feed



Twist Drilling with Chuck



MT3 Chuck Adaptor and Chuck(Not included)

Twist Drilling



MT3 Twist Drill Bit (Not included)

Coolant Tank

Coolant Feed Tap

Crank Handle

Motor Switch

Reversing Switch

Magnet Switch

Magnet Base

Gear Selector

Ejector Port

Arbor

Arbor Support Bracket

Annular Cutter (Not included)

Pilot Pin (Not included)

Tapping Mode (Optional)

OPTIONAL ACCESSORIES:



Model	MD750/4	
Power Input	110-120V:1700W, 220-240V:2000W	
Voltage	110-120V~ 50-60Hz, 220-240V~ 50-60Hz	
No/Full Load min <sup>-1</sup>	Speed 1	150 / 90
	Speed 2	200 / 120
	Speed 3	300 / 180
	Speed 4	380 / 230
Max. Capacity	Dia. X Depth of Cut	75 mm x 50 mm (3" x 2")
	Dia. X Depth of MT3 Twist Drill Bit	32 mm x 150 mm (1-1/4" x 4-7/8")
	Dia. X Depth of MT3 Chuck Adaptor With Twist Drill Bit	16 mm x 110 mm (5/8" x 4-5/16")
	Dia. X Depth of Taps	25.4 mm x 40 mm (1" x 1-9/16")
Magnetic Adhesion	32,000 N	
Overload Protection	With	
Net Weight	24.8kg ( 54.56 Lbs)	

STANDARD ACCESSORIES

- \* Wrench M8
- \* Hex. Key M2.5
- \* Hex. Key M4
- \* Chip Guard Kit
- \* Coolant Tank Kit
- \* Safety Chain
- \* Drift

OPTIONAL ACCESSORIES

- \* MT3 Chuck Adaptor
- \* 5/8" (16mm) Chuck & Chuck Key
- \* MT3 Tapping Adaptors
- \* Tapping Attachments
- \* Pipe Vise
- \* Quick-Release Arbor

4 SPEED SWIVEL BASE MAGNETIC DRILLING MACHINE

Like the 4 speed machine above but with the additional feature of swivel base capability for drilling in difficult to access areas

**Twist Drilling with Chuck**

MT3 Chuck Adaptor and Chuck (Not included)

**Twist Drilling**

MT3 Twist Drill Bit (Not included)

SWIVEL BASE EQUIPPED MODELS

Forward and back 20mm  
R&L (20 Deg.) 20mm

Tapping Mode (Optional)

MT3 Large Range Tapping Chuck & Clamp Collet

MT3 Small Range Tapping Chuck & Clamp Collet



Model	MDS750/4	
Power Input	110-120V:1700W, 220-240V:2000W	
Voltage	110-120V~ 50-60Hz, 220-240V~ 50-60Hz	
No/Full Load min <sup>-1</sup>	Speed 1	150 / 90
	Speed 2	200 / 120
	Speed 3	300 / 180
	Speed 4	380 / 230
Max. Capacity	Dia. X Depth of Cut	75 mm x 50 mm (3" x 2")
	Dia. X Depth of MT3 Twist Drill Bit	32 mm x 150 mm (1-1/4" x 4-7/8")
	Dia. X Depth of MT3 Chuck Adaptor With Twist Drill Bit	16 mm x 110 mm (5/8" x 4-5/16")
	Dia. X Depth of Taps	25.4 mm x 40 mm (1" x 1-9/16")
Magnetic Adhesion	32,000 N	
Overload Protection	With	
Net Weight	27kg ( 59.4 Lbs)	

- STANDARD ACCESSORIES**

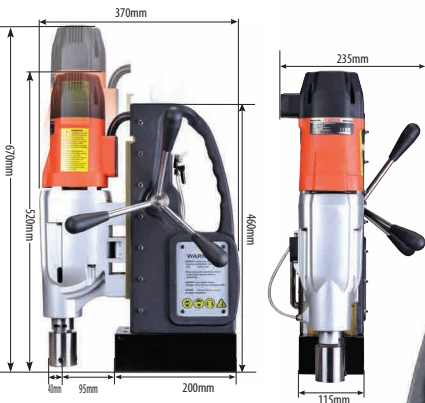
  - \* Wrench M8
  - \* Hex. Key M2.5
  - \* Hex. Key M4
  - \* Chip Guard Kit
  - \* Coolant Tank Kit
  - \* Safety Chain
  - \* Drift
  - \* Wrench M17
- OPTIONAL ACCESSORIES**

  - \* MT3 Chuck Adaptor
  - \* 5/8" (16mm) Chuck & Chuck Key
  - \* MT3 Tapping Adaptors
  - \* Tapping Attachments
  - \* Pipe Vise
  - \* Quick-Release Arbor

4 SPEED MAGNETIC DRILLING MACHINE

This is our largest capacity machine yet. It's an amazingly powerful and versatile machine with the very important addition of stepless variable speed with feedback speed stabilization. The feedback circuitry allows maximum power, even when the speed is reduced: Ideal for maximum size cutters. The smart electronics also feature soft start and overload protection. For safety there is an effective mechanical clutch.

Twist Drilling with Chuck



Twist Drilling



OPTIONAL ACCESSORIES:



Model	MD120/4	
Power Input	110-120V: 1700W, 220-240V: 2000W	
Voltage	110-120V~ 50-60Hz, 220-240V~ 50-60Hz	
No Load min <sup>-1</sup>	Speed 1	35-120
	Speed 2	70-220
	Speed 3	80-250
	Speed 4	140-450
Max. Capacity	Dia. X Depth of Cut with 31.7mm (1-1/4") Weldon Shank Annular Cutter Arbor	120mm x 50mm
	Dia. X Depth of Cut with 19.05mm (3/4") Weldon Shank Annular Cutter Arbor	120mm x 50mm
	Dia. X Depth of Cut with Quick-Release Arbor	60mm x 50mm
	Dia. X Depth of MT3 Twist Drill Bit	32mm x 200mm
	Dia. X Depth of MT3 Chuck Adaptor with Twist Drill bit	16mm x 110mm
	Dia. X Depth of Taps	32mm x 40mm
Overload Protection	With	
Magnetic Adhesion	32,000 N	
Net Weight	28.31kg ( 62.26 Lbs)	

STANDARD ACCESSORIES

- \* Wrench M8
- \* Hex key M2.5 & M5
- \* Chip Guard Kit
- \* Coolant Tank Kit
- \* Safety Chain
- \* Drift
- \* 31.75 Annular Cutter Set
- \* Screw Arbor
- \* 19.05 Annular Cutter Set
- \* Screw Arbor

OPTIONAL ACCESSORIES

- \* MT3 Chuck Adaptor
- \* 5/8" (16mm) Chuck & Chuck Key
- \* MT3 Tapping Adaptors
- \* Tapping Attachments
- \* Quick-Release Arbor