

Portable Magnetic Base Drilling Machine

ATRA ACE manual feed

Model **ARA-100A** 

• Max. 100 mm dia. x 75 mm deep



 YouTube



The versatile drilling machine with top-class power in ATRA ACE series

- Accepts various cutters for diverse drilling
- Advanced electronic control for efficient drilling and operator safety

Specifications

Model		ARA-100A	
Power Source (Single Phase)		220 - 240 V AC, 50/60 Hz	
Electric	Rated Power Consumption	W	1800
Drill	Rated Current	A	8.2
	No-load Speed	min ⁻¹ (rpm)	110 - 210 / 330 - 660
	Morse Taper No.		MT3
	Rated Duty	min	30
Magnet Power Consumption		W	80
Hole	Cutter	Hole Diameter	Plate Thickness
Capacity mm	One-touch Type JETBROACH 35L	17.5 to 40	13 to 35
	One-touch Type JETBROACH 50L	17.5 to 50	13 to 50
	One-touch Type JETBROACH 75L	17.5 to 50	13 to 75
	JETBROACH 75L	50 to 100	13 to 75
	One-touch Type HI-BROACH 25L	17.5 to 35	13 to 25
	One-touch Type HI-BROACH 50L	18 to 35	13 to 50
	Twist Drill	Max. 32 mm dia.	
Min. Plate Thickness for Magnet Adhesion		mm	13
Max. Stroke		mm	296
Magnet Holding Power		N(kgf)	17000 (1733)
Magnet Dimensions		mm	110 (W) x 220 (L)
Cutter Position	Straight Front to Back	mm	20
Adjustment	Swivel angle		30°
Power Cord Length		m	5
Mass (Weight)		kg	30

Accessories Included

- Pilot Pin 12075 Ass'y
- Side Handle
- 2.5 mm Hex. Socket Screw Key
- 5 mm Hex. Socket Screw Key
- 6 mm Hex. Socket Screw Key
- 8 mm Hex. Socket Screw Key
- Drill Drift
- 7 x 8 mm Spanner
- Safety Chain
- Guard
- Oil Tank
- Oil Tank Bracket
- 3 pieces of Rod Handle
- Holder MT03075 Side Lock

Optional Accessories

Ref. No.	PN	Description	Sales Unit
1	TB01507	Cutting Oil 2L	1 piece
2	TB04374	Supporting Magnet Ass'y	1 set
3	TB09727	Holder MT03075 One-touch	1 piece

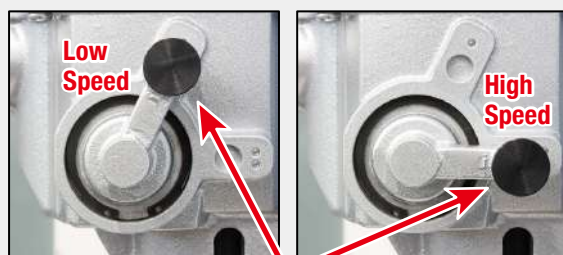
Slow Starting Function

Slow speed at the beginning of boring will securely set a hole cutting position.



Two speed electric drill with speed adjustment

Optimum drill speed adjustment can be made to bore a hole on difficult-to-cut materials or to securely set a hole cutting position at initial cutting stage.



Shift Lever



1

2

3



Load Indication and LED Condition

Load Indication

The load indicator (LED) indicates the condition of the load with different color of LED light.

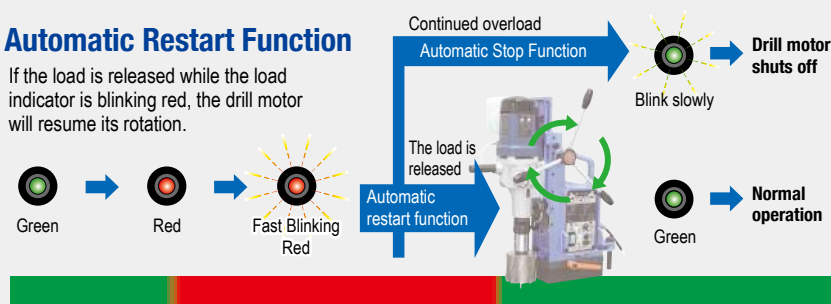
- The LED lights up in green. → The load on the drill motor is normal.
- The LED lights up in red. → The load on the drill motor is close to overload.
- The LED blinks in red. → The drill motor is overloaded.

Automatic Stop Function

As the drilling load increases, the load indicator will change in color from green to red. In addition, if excessive feeding force is applied, the load indicator will rapidly blink red and the rotation of the drill motor will slow down and stop. After the drill motor has come to a complete stop, the load indicator will slowly blink in green. To resume the rotation of the drill motor release the load and turn off the switch of the drill motor, and then turn it on.

Automatic Restart Function

If the load is released while the load indicator is blinking red, the drill motor will resume its rotation.



Built-in Motion Sensor

If any lateral movement or excess vibration is detected during drilling a hole, the drill motor stop instantly and the LED blink red. To resume operation, turn the magnet switch off and on.



Fail-safe Restart

The magnetic field will become active, but the drill will not re-start even if power is re-supplied after accidental shutdown. The LED will blink green at this stage. Drilling can only be continued after turning on the drill switch.

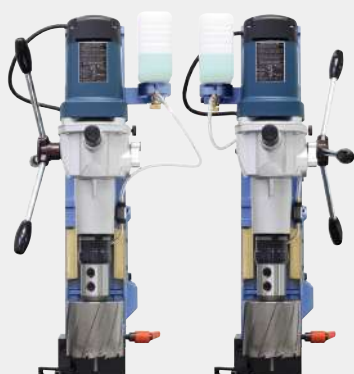
Magnet Open-circuit Sensor

The drill will not start until the magnetic field is active. If malfunction occurs on the magnet, the LED will blink red slowly and the drill motor will not revolve.



Features

Reversible Feed Handles

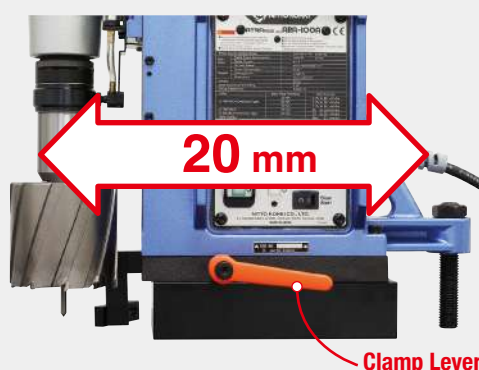


Feed handles can be positioned on the right or left hand side for ease of drilling. When changing the feed handle position, oil tank is required to be positioned opposite to the feed handles.

Drilling Position Adjustment



When the clamp lever is loosened, the drill position can be adjusted back and forth by 20 mm and pivoted 15 degrees to the left or right. The clamp lever can be positioned for left hand or right hand operation.



One-Touch Cutter Replacement (Holder MT03075 One-Touch)



Mounting the cutter

Align the depression in the cutter shank with the white line on the sleeve, and then insert the cutter.



Removing the cutter

Turn the sleeve counterclockwise. The cutter will come off.



Available on the market

Twist Drill Bit

MT3



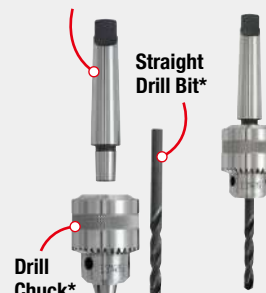
MT3 Morse taper shank drill bit can be directly installed.

Morse taper sleeve MT3*



Use Morse taper sleeve MT3 for other sizes than MT3

Drill chuck Arbor MT3*



A drill chuck is required to install a straight drill bit.

*Available on the market