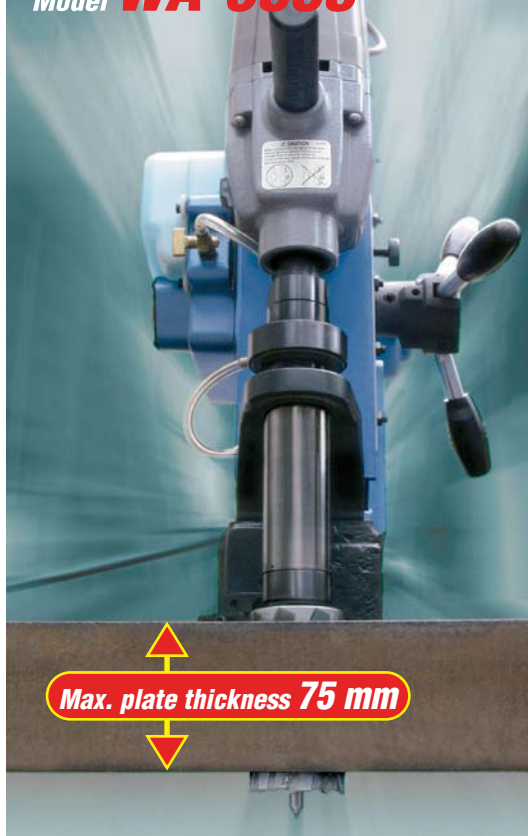


## **ATRA ACE auto** Model **WA-3500**



## **ATRA ACE auto** Model **WA-5000**



## **High-performance mechanism & high-tech components**

### **One-touch cutter replacement**

Replacement is quick and easy with our unique push fit self-centering cutter system.



### **Coolant into the Heart of the cut**

Coolant is fed directly to the inside of the cut. The coolant system also features an auto shut-off.



## **Fail-Safe Protection**

### **Built-in motion sensor**

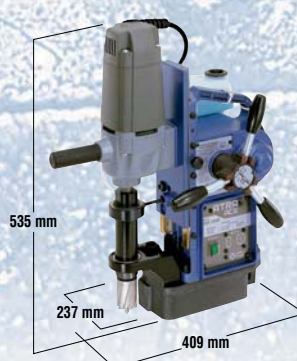
If any lateral movement or excess vibration is detected, both the drill and the feed motor stop instantly. Nitto Kohki is the first company to incorporate this feature into magnetic base drills.

### **Fail-safe restart**

The drill will not re-start even if power is re-supplied after accidental shutdown. 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.



Model **WA-3500**



Model **WA-5000**

## *New drill control prevents cutters from breaking*

### Slow start mechanism

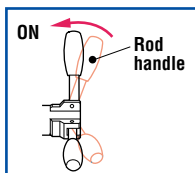
The feed speed is reduced for the first few seconds after boring begins to ensure a smooth cut through the mill scale.

### Auto-feed

Automatic control & feed are activated by simply pushing the rod handle to engage the gears.

### Load sensor

The dual sensing system responds to both drilling and feeding forces on the cutter for the optimum cutting condition.



### Variable speed

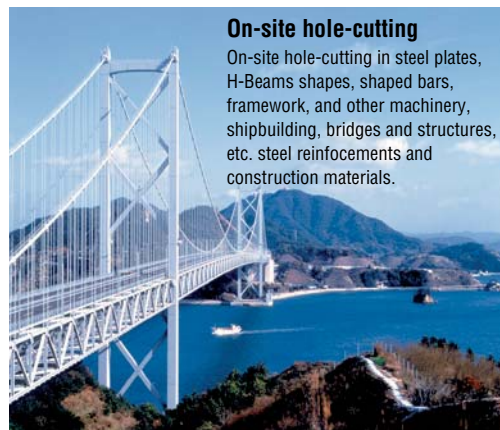
The feed speed is continuously monitored and updated proportionally to the load on the cutter.

### Cycle stop

After the cut has finished, a detector responds to the reduction in load and both the drill and the feed motor automatically stop.

### Overload stop

When an excessive load is applied to the cutter, both the drill and the feed motor will stop automatically to prevent the cutter from breaking.





















#### On-site hole-cutting

On-site hole-cutting in steel plates, H-Beams shapes, shaped bars, framework, and other machinery, shipbuilding, bridges and structures, etc. steel reinforcements and construction materials.



### Specifications

Model		WA-3500		WA-5000	
Power Source (Single Phase)		110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz	110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz
Electric Drill	Rated Power Consumption	W		1,100	
	Rated Current	A		10.2	5.1
	No Load Speed	min <sup>-1</sup> (rpm)		950	350 / 650
Magnet Power Consumption		W		34	
Hole-cutting Capacity		Cutter	Hole Diameter	Plate Thickness	Hole Diameter
One-touch type JETBROACH 25L		—	—	—	12 to 17 mm
One-touch type JETBROACH 35L		17.5 to 35 mm	9 to 35 mm	17.5 to 40 mm	9 to 35 mm
One-touch type JETBROACH 50L		17.5 to 35 mm	9 to 35 mm	12 to 50 mm	9 to 50 mm
One-touch type JETBROACH 75L		—	—	17.5 to 50 mm	9 to 75 mm
One-touch type HI-BROACH 25L		14 to 35 mm	9 to 25 mm	14 to 50 mm	9 to 25 mm
One-touch type HI-BROACH 50L		—	—	14 to 50 mm	9 to 50 mm
Magnet Holding Power		N (kgf)	7,056 (720)	9,800 (1,000)	
Magnet Dimensions		mm	92 x 216	101 x 201	
Mass (Weight)		kg	20	23	
Standard Accessories		<ul style="list-style-type: none"> <li>Pilot Pin 08035 A2 : 1 pc.</li> <li>Chain Ass'y : 1 set</li> <li>Side Handle Ass'y : 1 set</li> <li>3 mm Hex Socket Screw Key : 1 pc.</li> <li>8 x 10 mm Spanner : 1 pc.</li> <li>Cutting Oil 0.5 L : 1 can</li> <li>Plastic Case : 1 pc.</li> <li>Guard Ass'y : 1 set</li> </ul>		<ul style="list-style-type: none"> <li>Pilot Pin 08050 A3 : 1 pc.</li> <li>Chain Ass'y : 1 set</li> <li>Side Handle Ass'y : 1 set</li> <li>3 mm / 4 mm Hex Socket Screw Key : each 1 pc.</li> <li>8 x 10 mm Spanner : 1 pc.</li> <li>Cutting Oil 0.5 L : 1 can</li> <li>Plastic Case : 1 pc.</li> <li>Guard Ass'y : 1 set</li> </ul>	
Optional Accessories		        		        	



**Designed to use Jetbroach Carbide Tipped Annular Cutters****ATRA ACE**  
**Manual feed**  
**Model WOJ-3200****Reversible Feed Handles**

Feed handles can be positioned on the right or left hand side for ease of drilling and mounting in confined spaces.

**Optional Jet Oiling System**

Optional jet oiling system for use with all drilling applications and types of cutters to extend cutter life and increase hole output.

**Optional One-Touch Adapter**

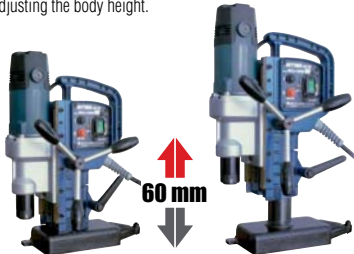
Optional one-touch adapter allows the use of up to 13 mm twist drills to be used in the original arbor.

**Optional Chip Breaker**

Optional chip breaker helps prevent the cutter from plugging the hole with chip debris, causing some false overloads and cutter life loss.

**Body Height Adjustment**

Loosening the pillar clamp allows the complete frame to be lifted up to a maximum of 60 mm for specific drilling. The use of Hi-Broach cutters require the frame to be at the lowest position, while twist bit drilling required the appropriate amount of elevation to be adjusted for safe operation. The pillar clamp is required to be tightened before safe drilling may take place. Note: Always engage the magnet before adjusting the body height.

**Specifications**

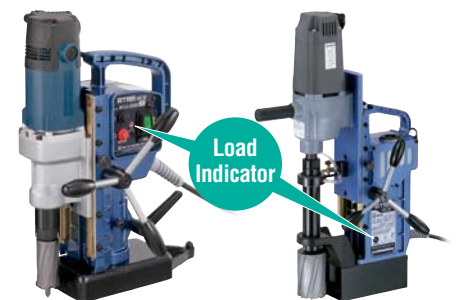
Model		WOJ-3200		
Power Source (Single Phase)		220 - 240 V AC, 50/60 Hz		
Electric Drill	Rated Power Consumption	W	950	
	Rated Current	A	4.3	
	No Load Speed	min <sup>-1</sup> (rpm)	870	
Magnet Power Consumption		W	70	
Hole-cutting Capacity		Cutter	Hole Diameter	Plate Thickness
One-touch type JETBROACH			12 to 32 mm	9 to 50 mm
Magnet Holding Power		kN (kgf)	9 (918)	
Magnet Dimensions		mm	99 x 177	
Mass (Weight)		kg	13	
Standard Accessories		<ul style="list-style-type: none"><li>• Pilot Pin 08050 : 1 pc.</li><li>• 3 mm Hex Socket Screw Key : 1 pc.</li><li>• 6 mm Hex Socket Screw Key : 1 pc.</li><li>• 8 x 10 mm Spanner : 1 pc.</li><li>• Safety Strap : 1 pc.</li><li>• Sub Handle : 1 pc.</li><li>• Guard Ass'y : 1 set</li></ul>		

**Designed to use High Speed Steel Annular Cutters****ATRA ACE Manual feed Model WO-3200**

Newly developed Over-Load Shutdown, Magnet Open-Circuit Sensor, and Fail-Safe Restart technology formerly only found on high-end Nitto Automatics are incorporated on the machine. (Smart-Stop / Rapid-Restart feature is not included.)

**Specifications**

Model		WO-3200		
Power Source (Single Phase)		220 ~ 240 V AC, 50/60 Hz		
Electric Drill	Rated Power Consumption	W	950	
	Rated Current	A	4.3	
	No Load Speed	min <sup>-1</sup> (rpm)	530	
Magnet Power Consumption		W	70	
Hole-cutting Capacity		Cutter	Hole Diameter	Plate Thickness
One-touch type HI-BROACH		12 to 32 mm		9 to 50 mm
Magnet Holding Power		kN (kgf)	9 (918)	
Magnet Dimensions		mm	99 x 177	
Mass (Weight)		kg	13	
Standard Accessories		• Pilot Pin 08050 : 1 pc. • 3 mm Hex Socket Screw Key : 1 pc. • 8 x 10 mm Spanner : 1 pc. • Side Handle Assy's : 1 set • Safety Strap : 1 pc. • Guard Assy : 1 set		

**The world's first manual feed with "Smart-Stop / Rapid-Restart" technology for WOJ-3200 / AO-5575****Model WOJ-3200****Model AO-5575**

This new feature is a breakthrough in the Manual drill industry. Formerly only found on high end Nitto Kohki Automatic drills, this technology displays the current drill status via the LED Load Indicator. Customers will experience a cutting edge drill management system designed solely around saving time and money in replacement parts and cutters in addition to reducing user fatigue and downtime.

*Designed to use Jetbroach and Hi-broach Annular Cutters*

**ATRA ACE**  
Manual feed  
Model **AO-5575**

MAX. 55 mm dia. x 75 mm deep  
LIGHT WEIGHT 18 kg

### Coolant Valve

Adjustable coolant flow delivered to the center of the cutter.

Built-in coolant tank prevents damage

Reversible feed handle



Speed selection (Change gear)




Low Speed

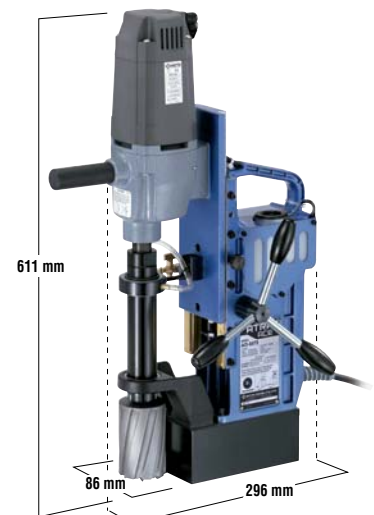


Hi Speed



## **Specifications**

Model			AO-5575	
Power Source (Single Phase)			220 - 240 V AC, 50/60 Hz	
Electric Drill	Rated Power Consumption		W	1,150
	Rated Current		A	5.4
	No Load Speed		min <sup>-1</sup> (rpm)	350 / 650
Magnet Power Consumption			W	50
Hole-cutting Capacity		Cutter	Hole Diameter	Plate Thickness
One-touch type JETBROACH			12 to 55 mm	9 to 75 mm
One-touch type HI-BROACH			12 to 50 mm	9 to 50 mm
Magnet Holding Power		kN (kgf)	10 (1,020)	
Magnet Dimensions		mm	86 x 170	
Mass (Weight)		kg	18	
Standard Accessories		• Pilot Pin 08050 A3 : 1 pc. • 3 mm Hex Socket Screw Key : 1 pc. • Cutting Oil 0.5 L : 1 can • Chain Ass'y : 1 set • 5 mm Hex Socket Screw Key : 1 pc. • Guard Ass'y : 1 set • Side Handle Ass'y : 1 set • 8 x 10 mm Spanner : 1 pc.		
Optional Accessories		JETBROACH One-touch Type 25 mm, 35 mm, 50 mm, 75 mm  HI-BROACH One-touch Type 25 mm, 50 mm  TB01507 Cutting Oil 2 L per can 		

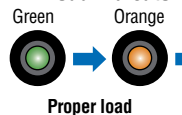


**Model AO-5575**

## **Load detector with "Smart-Stop/Rapid-Restart" technology**

As the drilling load increases, the load indicator will change in color from green to orange 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 temporarily stop. If the load is released while the load indicator is blinking red, the drill motor will resume its rotation.

### LED load indicator



"Smart Stop" Fast Blinking Red

Continued overload

Drill motor will not turn on

Slow Blinking Green

Drill motor shuts off

"Rapid-Start" resumes drilling operation

Green / Orange

Resume proper load

"Smart Stop" stalls motor when overloaded.

## **Safety mode**

Magnet malfunction



## **One-touch cutter replacement**

Our original self-centering tool-less chuck is quick and easy to change cutters with little downtime.

(WOJ-3200)



Mounting the cutter



Removing the cutter



Mounting the twist drill