High-End Features of ATRA ACE Drilling Machines

High-End Features of ATRA ACE Drilling Machines Enhance Your Productivity and Safety

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Ref. No.	Features	QA-4000	QA-6500	WA-3500	WA-5000	W0J-3200	A0-5575A	L0-3550	CLA-2720	ARA-100A
1	Auto-feed		•	•	•	_	_	_	_	_
2	Slow Start Mechanism	•	•	•	•	_	_	_	_	_
3	Step Feed	•	•	_	_	_	_	_	_	_
4	Variable Automatic Feed		•	•	•	_	_	_	_	_
5	Load Sensor	•	•	•	•	_	_	_	_	_
6	Magnet Open-circuit Sensor	•	•	•	•	•	•	•	•	
7	Fail-safe Restart	•	•	•	•	•	•	•	•	
8	Built-in Motion Sensor	•	•	•	•	_	•	_	•	
9	Overload Stop	•	•	•	•	•	•	•	•	
10	Cycle Stop	•	•	•	•	_	_	_	_	_
11	Unique Battery Conservation	_	_		_	_	_	_	•	_
12	One-touch Cutter Replacement	•	•	•	•	•	•	•	•	•

- 1. Automatic control & feed are activated by simply pushing the feed handle to engage the clutch.
- 2. The feed speed is reduced for the first few seconds after boring begins to ensure a smooth cut through the mill scale.
- 3. When the cutter has become dull or it cuts through difficult materials, the load sensor will automatically activate the Step Feed Program to help penetrate material. When working on deep holes or large diameter holes, the Step Program will also help to reduce swarf build up around the cutter as the waste material will break off with each Step cycle.
- 4. The feed speed is continuously monitored and updated proportionally to the load on the cutter.
- 5. QA-4000/QA-6500: The sensing system responds to driling forces on the cutter for the optimum cutting condition.

WA-3500/WA-5000: The dual sensing system responds to both drilling and feeding forces on the cutter for the optimum cutting condition.

- 6. The drill will not start until the magnetic field is active.
- 7. QA-4000/QA-6500/WA-3500/WA-5000/WOJ-3200/AO-5575A/LO-3550/ARA-100A: 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.

CLA-2720: If the battery pack is replaced/removed whilst both the magnet and the drill motor switch are in the on position, the drill will not operate until both switches are reset.

8. QA-4000/QA-6500/WA-3500/WA-5000: If any lateral movement or excess vibration is detected, both the drill and the feed motor stop.

A0-5575A/CLA-2720/ARA-100A: If any lateral movement or excess vibration is detected, the drill motor stops.

9. QA-4000/QA-6500/WA-3500/WA-5000: When an excessive load is applied to the cutter, both the drill and the feed motor will stop automatically.

WOJ-3200/A0-5575A/L0-3550/CLA-2720/ARA-100A: When an excessive load is applied to the cutter, the drill motor will stop automatically.

10. QA-4000/QA-6500: After the cut has finished, a detector responds to the reduction in load, the drill retracts quickly and then both the drill and feed motor automatically stop.

WA-3500/WA-5000: After the cut has finished, a detector responds to the reduction in load and both the drill and the feed motor automatically stop.

- 11. While the drill motor is running, if no load is applied within 10 seconds, the drill will stop automatically to save the battery.
- 12. Replacement is quick and easy with our unique push fit self-centering cutter system.

ARA-100A: Optional one-touch type Holder required.

ATRA ACE Specifications









CLA-2720

LO-3550

WA-3500

WA-5000

Model CLA-2720 LO-3550 WA-3500 WA-5000		
(40 V PO) V AU, V AU, V AU, FO/00 II	20 - 240 V AC, 50/60 Hz	
Single Phase (18 V DC) 50/60 Hz 50/60		
Rated Current A – 3.3 10.2 5.1 10.8	5.4	
No-load Speed min ⁻¹ (rpm) 430 950 950 350 / 650		
Magnet Power Consumption W 18 35 34 75		
Max. Hole Diameter mm 27 35 35 50		
Max. Plate Thickness mm 20 50 50 75		
One-touch Type Hole Diameter mm 12 to 17 17.5 to 27 12 to 35 17.5 to 35 12 to 17 17.5 to 40 12 to 17 17.5	o 50 17.5 to 50	
	50 9 to 75	
Side-lock Hole Diameter mm Plate Thickness - - - -		
Plate Thickness mm – – – – –		
One-touch Type Hole Diameter mm 12 to 15 16 to 27 – 14 to 35 14 to 50		
HI-BROACH Plate Thickness mm 6 to 12 6 to 20 - 9 to 25 9 to 50		
Twist Drill Hole Diameter		
Max. Stroke mm 60 80 83 107		
Magnet Holding Power N(kgf) 5500 (561) 5500 (561) 7056 (720) 9800 (1000)		
Magnet Dimensions mm 65 x 126 65 x 145 92 x 213 101 x 201		
Overall dimensions * (length) x (width) x (height) mm 199 x 151 x 290 339 x 112 x 316 409 x 237 x 530 425 x 237 x 604	4	
Power Cord Length m – 3 3 3		
Mass (Weight) kg 7 8.7 20 23		
Feeding Manual Manual Automatic Automatic		
Page 7 9 11 11 *The height is the dimension from the surface of the workpiece to the highest part of the machine when the tip of the Pilot Pin is touching the workpiece with the cutter of the machine's maxim		

^{*}The height is the dimension from the surface of the workpiece to the highest part of the machine when the tip of the Pilot Pin is touching the workpiece with the cutter of the machine's maximum capacity attached.

ATRA ACE Specifications







WOJ-3200

AO-5575A

QA-4000

QA-6500

ARA-100A

W0J-3200		A0-5575A	QA-	4000	QA-6500	ARA-100A
110 - 120 V AC, 50/60 Hz	220 - 240 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	220 - 240 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz
99	50	950	6	80	1010	1800
8.6	4.3	4.3	6.1	3.0	4.5	8.2
8	70	520	7	750	400/750	110 - 210 /330 - 660
38	30	50		50	75	80
3	2	55	4	40	65	100
5	0	75	,	35	50	75
12 t	o 32	12 to 17 17.5 to 55	17.5	17.5 to 40		17.5 to 50
9 to 50		9 to 50 9 to 75	9 to 35		9 to 50	13 to 75
-		-	-		_	50 to 100
-	-	-	-		_	13 to 75
-	-	12 to 50	14 to 15	16 to 18	18 to 35	17.5 to 35
-	-	9 to 50	9 to 12	9 to 25	9 to 25	13 to 50
Max	c. 13	-	_		_	Max. 32
1;	30	105		75	88	296
9000	(918)	10000 (1020)	6664	ł (680)	9800 (1000)	17000 (1733)
99 x	: 177	86 x 170	82 :	x 172	100 x 200	110 x 220
318 x 19	96 x 420	432 x 197 x 493	407 x 2	115 x 424	455 x 215 x 534	570 x 274 x 623
3 3		4	5	5	5	
1	3	17.5	1	18.5		30
Mai	nual	Manual	Auto	Automatic		Manual
1	3	13		15	15	5

ATRA ACE manual feed

Model ARA-100A C€

• Max. 100 mm dia. x 75 mm deep

The versatile drilling machine with top-class power

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



Specifi	catio	ns				
Model			ARA-100A			
Power So	urce (S	Single Phase)	220 - 240 V	AC, 50/60 Hz		
Electric	ic Rated Power Consumption W			18	00	
Drill	Rated	Current	Α	8	.2	
	No-lo	ad Speed mir	n-1(rpm)	110 - 210	330 - 660	
	Morse	Taper No.		M	Т3	
	Rated	Duty	min	3	0	
Magnet P	ower C	onsumption	W	8	0	
Hole	Cutte	r		Hole Diameter	Plate Thickness	
Capacity	One-t	ouch Type JETBROACH	35L	17.5 to 40	13 to 35	
mm	One-t	ouch Type JETBROACH	50L	17.5 to 50	13 to 50	
	One-t	ouch Type JETBROACH	75L	17.5 to 50	13 to 75	
	JETBI	ROACH 75L		50 to 100	13 to 75	
	One-t	ouch Type HI-BROACH	25L	17.5 to 35	13 to 25	
	One-t	ouch Type HI-BROACH	50L	18 to 35	13 to 50	
	Twist	Drill		Max. 32	mm dia.	
Max. Stro	ke		mm	29	96	
Magnet H	lolding	Power	N(kgf)	17000	(1733)	
Magnet Dimensions mm			110 x 220			
Cutter Position Straight Front to Back mm		20				
Adjustme	nt	Swivel angle		30°		
Power Co	rd Len	gth	m	5		
Mass (We	eight)		kg	30		

Accessories Included

- Pilot Pin 12075
- 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
 Gibbs Fracket
 Gibbs Fracke

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

Slow Starting Function

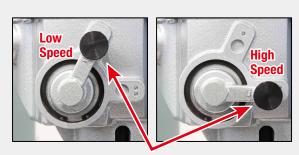
Slow speed at the beginning of boring will securely set a hole cutting position.



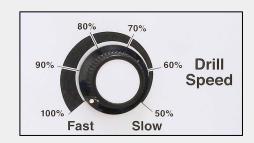


Two speed electric drill with speed adjustment

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



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 LFD blinks in red
- The load on the drill motor is close to overload. 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.

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.

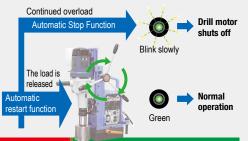


Blinking red

Automatic Restart Function

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





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.



Slow Blinking Red

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 in the market

Twist Drill Bit Morse taper sleeve MT3 MT3

MT3 Morse taper shank drill bit can be directly installed.

Drill Chuck

Use Morse taper sleeve MT3 for other sizes than MT3



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

ATRA ACE manual feed

Model CLA-2720 C€

• Max. 27 mm dia. x 20 mm deep



290 mm

Compact and cordless operation, powered by a rechargeable lithium-ion battery.

- · Weighs only 7 kg with battery installed
- · Compact size allows drilling in tight spots

Specifi	catio	ns				
Model				CLA-2720		
Voltage				18 V	DC	
Battery Pa	ack (Li	thium-ion Battery)		NBL18006 (18V 4.0 Ah)	
No-load S	peed	min ⁻	¹(rpm)	43	30	
Hole	Cutte	r		Hole Diameter	Plate Thickness	
Capacity	One-t	uch Type JETBROACH 25L		12 to 17	6 to 12	
mm	One-t	ouch Type JETBROACH	ch Type JETBROACH 35L		6 to 20	
	One-t	ouch Type HI-BROACH	25L	12 to 15	6 to 12	
				16 to 27	6 to 20	
Magnet H	olding	Power	N(kgf)	5500	(561)	
Magnet D	imensi	ons	mm	65 x	126	
Cutter Position Pivot Side to Side mm		1	0			
Adjustment Straight Front to Back mm		mm	10			
Mass (We	ight)		kg	7*		

*Including Battery Pack and Feed Handle

Battery Charger	NC14435
Power Source	220 - 240 V AC
Charging Time	90 min*
Chargeable Battery Pack	NBL18006 (18 V 4.0 Ah)

^{*}In case of a full charge from an empty battery. However, it can be charged up to 95% in 45 min.

Accessories Included

- Carry Case
- Cutting Oil 0.5L
- Oiler No.3013
- Tube 4 x 7 mm, 1 m Long
- Handle
- Battery Charger
- 2 pieces of Battery Pack 18V NBL18006
- Blade

- 3 mm Hex. Socket Screw Key
- 4 mm Hex. Socket Screw Key
- Hex. Socket Head Cap Screw 5 x 12
 Hex. Socket Head Set Screw 8 x 28
- Spanner 8 x 10
- Guard
- Safety Strap

TOP-LEVEL SAFETY

Highly Sensitive Sensor Equipped

Side slip and inclination detected by a built-in sensor

Self-check Function

The machine checks for faults itself

Highly Advanced Energy-Saving

Magnetic Force Control Function

The magnet force is automatically reduced when the drill is not running.

Soft Start Function

The large electric current on start-up is prevented by starting the electric drill gently.

Automatic Drill Stop and Warning Function

Unnecessary operations are eliminated.



Lithium-ion batteries are required to be recycled; never discard a lithium-ion battery in the waste. Please contact your local sales office or community recycling program for information on properly disposing of lithium-ion batteries

Optional Accessories Ref. No. PN Description Sales Unit Cutting Oil 2L TB01507 TB09657 Oil Tank Ass'y TB04374 Supporting Magnet Ass'y 3 TB07696 Pipe Attachment Ass'y TR09824 Battery Pack 18 V 1 piece 5 TB09825 **Battery Charger** TQ14333 Guard One-touch Type JETBROACH 25L, 35L One-touch Type HI-BROACH 25L



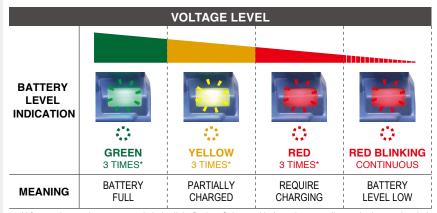
Reversible Feed Handle

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



CLA-2720 LED Indication Light Safety Features

LED INDICATION - Battery level and Motor load can be monitored while drilling





*After turning on the magnet switch the light flashes 3 times with the color according to the battery level, then the light will turn green and the tool is ready for use. If the light flashes red 3 times or continuously, replace the low battery pack with a charged battery pack.

ELECTRIC CURRENT OF THE ELECTRIC DRILL Efficient Load Caution **MOTOR** LOAD INDICATION **GREEN YELLOW RED RED BLINKING** WHITE BLINKING MOTOR STOPPED **MEANING** LIGHT LOAD MEDIUM LOAD **OVERLOAD** BY OVERLOAD

"Caution" If an excessive load is maintained load during the cut, the motor will shut-off to prevent damage or injury to the operator.

SLIDE SLIP **DETECTION**



When a slide slip is detected, the blue light will flash and the Motor will stop automatically.



"NO LOAD" **DETECTION**

IN TIME



GREEN MOTOR BLINKING NOT ACTIVATED

While the electric drill is running, if no load is applied for 7 seconds, the green light will flash. After another 3 seconds without load, the electric drill will be stopped automatically.



After the Magnet switch is turned on, if the Motor switch is not turned on within 10 seconds, the green light will flash.

Chip Breaker

This chip breaker prevents the cutter from becoming jammed with metal shavings.



Powered by Lithium-ion Battery

Using the Lithium-ion battery it takes about 90 minutes for a full charge.

Sufficient charge (95%) can be achieved in just 45 minutes.





Drilling Position Adjustment

After engaging the magnet, the drill position can be adjusted up to 10 mm travel on each axis straight front to back and pivot side to side.



ATRA ACE manual feed

Model **LO-3550 C€**

• Max. 35 mm dia. x 50 mm deep



Compact, light weight, low profile design gives you greater hole making mobility

- Drilling on 100 mm or more width web and flange of wide flange beam
- Designed to improve drilling on walls, confined and elevated locations
- Drill position can be adjusted up to 10 mm travel on each axis straight front to back and pivot side to side

			LO-	3550		
urce (S	ingle Phase)		220 - 240 V	AC, 50/60 Hz		
Rated	Power Consumption	W	80	00		
Rated	Current	Α	3	.3		
No-load Speed min ⁻¹ (rpm)		n-1(rpm)	99	50		
Cutte	•		Hole Diameter	Plate Thickness		
One-touch Type JETBROACH 25L			12 to 17	6 to 25		
One-touch Type JETBROACH 35L			17.5 to 35	6 to 35		
One-touch Type JETBROACH 50L			12 to 35	6 to 50		
olding	Power	N(kgf)	5500 (561)			
imensi	ons	mm	65 x	65 x 145		
sition	Pivot Side to Side	mm	10			
Adjustment Straight Front to Back mr			10			
rd Len	gth	m	3			
Mass (Weight) kg			8.7*			
	Rated Rated No-los Cutter One-tr One-tr One-tr olding imensi sition nt rd Leng	Rated Power Consumption Rated Current No-load Speed mir Cutter One-touch Type JETBROACH One-touch Type JETBROACH One-touch Type JETBROACH olding Power imensions sition Pivot Side to Side nt Straight Front to Back rd Length	Rated Power Consumption W Rated Current A No-load Speed min ⁻¹ (rpm) Cutter One-touch Type JETBROACH 25L One-touch Type JETBROACH 35L One-touch Type JETBROACH 50L olding Power N(kgf) imensions mm sition Pivot Side to Side mm nt Straight Front to Back mm rd Length m	Rated Power Consumption W 88 Rated Current A 3 No-load Speed min¹(rpm) 99 Cutter Hole Diameter One-touch Type JETBROACH 25L 12 to 17 One-touch Type JETBROACH 35L 17.5 to 35 One-touch Type JETBROACH 50L 12 to 35 olding Power N(kgf) 5500 imensions mm 65 x sition Pivot Side to Side mm 1 of Length mm 1		

*Excluding Power Cord and Sub Handle

Accessories Included

- Carry Case Cutting Oil 0.5L Feed Handle
- Sub Handle
- Pilot Pin 08035
- Spanner 17
- Hex. Socket Bolt 5 x 12
- Hex. Socket Head Set Screw 8 x 28
- 4 mm Hex. Socket Screw Key 5 mm Hex. Socket Screw Key Spanner 7 x 8
- Guard
- · Safety Strap

	Optional A	Accessories	
	Ref. No.	PN	Description
	1	TB01507	Cutting Oil 2L
	2	TQ10581	Oiler No.3013
	3	TB01098	Tube 4 x 7 x 3000 Ass'y
	4	TB07306	Lubrication Adapter Ass'y
nts the cutter	5	TB04374	Supporting Magnet Ass'y
with metal shavings.	6	TB07696	Pipe Attachment Ass'y
ŭ	*50L for sta	acked plates	One-touch Type JETBROACH 25L, 35L, 50L





Chip Breaker











Sales Unit

1 piece



Easy Drilling Position Adjustment

After engaging the magnet, the drill position can be adjusted up to 10 mm travel on each axis straight front to back and pivot side to side.



Adjustable Feed Handle

The feed handle can be locked at varying angles to enhance productivity.



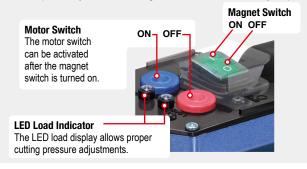
Light Handle Operation

Fast revolution of Jetbroach cutter makes less cutting resistance and smooth handling.



Easy-to-use Switch Panel

On / off buttons of the magnet and the drill motor are on the front panel and can be operated by one hand. Drilling conditions can be checked by lamp colors.



Reversible Feed Handle

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



A Carrying Case Is Provided

The carrying case is a rugged accessory that provides a convenient way to transport and store the LO-3550.



Optional Accessories for ATRA ACE

Pipe Attachment Ass'y

The Pipe Attachment Ass'y is an optional base to securely fasten ATRA ACE on pipe for drilling. The chain can easily and securely fit around pipes having an outside diameter of 48.6 to 318.5 mm.

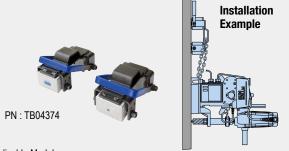
Example of installation on a pipe



Applicable Models when a 35 mm or 50 mm length one touch type JETBROACH CUTTER is used: CLA-2720, WOJ-3200, LO-3550, WA-3500, and QA-4000

Supporting Magnet Ass'y

If the accessory safety strap or chain is unable to be properly secured to prevent ATRA ACE from falling off the workpiece, the supporting magnet ass'y is recommended. It employs a permanent magnet and can secure ATRA ACE even if power is interrupted.



Applicable Models: CLA-2720, L0-3550, WA-3500, WOJ-3200, A0-5575A, QA-4000, and QA-6500

ATRA ACE auto

Model WA-3500 C€

• Max. 35 mm dia. x 50 mm deep

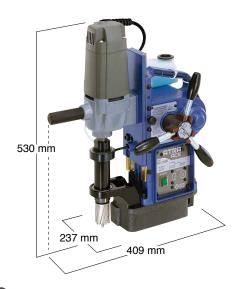
High-performance feed system & high-tech components

• Drilling time and cutting performance are enhanced by the automatic feed function.

Model **WA-5000 C€**

• Max. 50 mm dia. x 75 mm deep







Specific	cations					
Model		WA-	3500	WA-	5000	
Power So	urce (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	Rated Power Consumption V	11	00	11	150	
Drill	Rated Current A	10.2	5.1	10.8	5.4	
	No-load Speed min ⁻¹ (rpm	95	50	350	/ 650	
Magnet P	ower Consumption V	3	4	7	75	
Hole	Cutter	Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness	
Capacity	One-touch Type JETBROACH 25L	-	-	12 to 17	9 to 25	
mm	One-touch Type JETBROACH 35L	17.5 to 35	9 to 35	17.5 to 40	9 to 35	
	One-touch Type JETBROACH 50L	17.5 to 35	9 to 50	12 to 50	9 to 50	
	One-touch Type JETBROACH 75L	-	-	17.5 to 50	9 to 75	
	One-touch Type HI-BROACH 25L	14 to 35	9 to 25	14 to 50	9 to 25	
	One-touch Type HI-BROACH 50L	-	-	14 to 50	9 to 50	
Max. Stro	ke mn	83		107		
Magnet H	olding Power N(kgf	7056 (720)		9800 (1000)		
Magnet D	imensions mm	92 x	213	101 x 201		
Power Co	rd Length n	i	3	3		
Mass (Weight) kg		2	0	2	23	
Accessories Included			ex. Socket Screw Key	Carry Case		
			ım Spanner	Cutting Oil 0.5L	8 x 10 mm Spanner	
		• Pilot Pin 08035 • Guard • Side Handle • Chain		Pilot Pin 08050 Side Handle	Guard Chain	
		• Side natione • Chain		• 3 mm Hex. Socket Screw Key	Chip Breaker	

Optional Accessories									
Def No	DN	Donovintion.	Calaa Ilmia	Applicab	Applicable Model				
Ref. No.	PN	Description	Sales Unit	WA-3500	WA-5000				
1	TB05186	Chip Breaker Ass'y	1 piece	•					
2	TB01507	Cutting Oil 2L	1 piece	•	•				
3 TB04374		Supporting Magnet Ass'y	1 piece	•	•				
4	TB02536	Sleeve 6.5 for Triangle Shank Drill Bit	1 piece	•	•				
5	TB07696	Pipe Attachment Ass'y	1 piece	•					
		One-touch Type JETBROACH 25L	1 piece		•				
		One-touch Type JETBROACH 35L	1 piece	•	•				
		One-touch Type JETBROACH 50L	1 piece	•	•				
		One-touch Type JETBROACH 75L	1 piece		•				
		One-touch Type HI-BROACH 25L	1 piece	•	•				
		One-touch Type HI-BROACH 50L	1 piece		•				



One-touch Cutter Replacement

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





unting the cutter Removing the cutter

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.



Improved Bearing Bracket

Our precision bearing bracket aligns cutters precisely, which increases cutter life.



Fail-Safe Protection

Built-in Motion Sensor

If any lateral movement or excess vibration is detected, both the drill and the feed motor stop. 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.

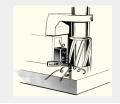
Magnet Open-circuit Sensor

The drill will not start until the magnetic field is active.

Chip Breaker

This chip breaker prevents the cutter from becoming jammed with metal shavings.

- Standard accessory for the WA-5000
- Optional accessory for the WA-3500



Two Speed Selection (WA-5000)

Speed can be changed to suit the type and size of the cutter.





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

Load Sensor

Automatic control & feed are activated by simply pushing the Rod handle to engage the clutch.

Auto-feed on

Rod handle

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

Variable Automatic Feed

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.









ATRA ACE manual feed

New generation magnetic base drilling machines help meet productivity and safety goals.

Advanced safety system

Model WOJ-3200 C€

• Max. 32 mm dia. x 50 mm deep







Specific	cations						
Model			WOJ	-3200	AO	-5575A	
Power So	urce (Single Phase)		110 - 120 V AC, 50/60 Hz 220 - 240 V AC, 50/60 Hz		220 - 240 V AC, 50/60 Hz		
Electric	Rated Power Consum	ption W	9	50		950	
Drill	Rated Current	Α	8.6	4.3		4.3	
	No-load Speed	min ⁻¹ (rpm)	8	70		520	
Magnet P	ower Consumption	W	38	30		50	
Hole	Cutter		Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness	
Capacity	One-touch Type JETB	ROACH 25L	12 to 17	9 to 25	12 to 17	9 to 25	
mm	One-touch Type JETB	ROACH 35L	17.5 to 32	9 to 35	17.5 to 40	9 to 35	
	One-touch Type JETB	ROACH 50L	12 to 32	9 to 50	12 to 55	9 to 50	
	One-touch Type JETB	ROACH 75L	-	-	17.5 to 55	9 to 75	
	One-touch Type HI-BF	ROACH 25L	-	-	12 to 50	9 to 25	
	One-touch Type HI-BF	ROACH 50L	-	-	12 to 50	9 to 50	
	Twist Drill		Max. 13	mm dia.		-	
Max. Stro	ke	mm	1	30	105		
Magnet H	olding Power	N(kgf)	9000	(918)	10000 (1020)		
Magnet D	imensions	mm	99>	(177	86 x 170		
Power Co	rd Length	m		3	3		
Mass (We	eight)	kg	1	13	17.5		
Accessor	ies Included		Carry Case Oil Tank Pilot Pin 08035 Sub Handle Dieces of Hex. Socket Head Bolt 5 x 10 mm Results of Rod Handle	• 3 mm Hex. Socket Screw Key • 4 mm Hex. Socket Screw Key • 6 mm Hex. Socket Screw Key • 8 x 10 mm Spanner • Guard • Safety Strap	Carry Case Cutting Oil 0.5L Pilot Pin 08050 Side Handle 3 mm Hex. Socket Screw Key	• 5 mm Hex. Socket Screw Key • 8 x 10 mm Spanner • Guard • Chain	

Def Ne	DN	Description	Calaa Ilmit	Applicab	le Model
Ref. No.	PN	Description	Sales Unit	W0J-3200	A0-5575A
1	TB07691	Chip Breaker Ass'y	1 piece	•	
2	TB07474	Chip Breaker Ass'y	1 piece		•
3	TQ10581	Oiler No.3013	1 piece	•	
4	TB01098	Tube 4 x 7 x 3000 Ass'y	1 piece	•	•
5	TB01507	Cutting Oil 2L	1 piece	•	•
6	TB07696	Pipe Attachment Ass'y	1 piece	•	
7	TB04374	Supporting Magnet Ass'y	1 piece	•	•
8	TB07690	One-touch Drill Adapter	1 piece	•	
9	TB02536	Sleeve 6.5 for Triangle Shank Drill Bit	1 piece		•
		One-touch Type JETBROACH 25L	1 piece	•	•
		One-touch Type JETBROACH 35L	1 piece	•	•
		One-touch Type JETBROACH 50L	1 piece	•	•
		One-touch Type JETBROACH 75L	1 piece		•
		One-touch Type HI-BROACH 25L	1 piece		•
*50L for	stacked plates	One-touch Type HI-BROACH 50L	1 piece		•



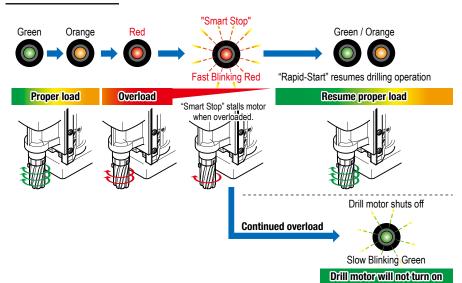
Load Detector with "Smart-Stop/Rapid-Restart" Technology

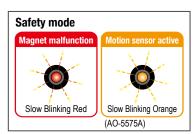
The innovative feature of manual feed ATRA ACE, "Smart-Stop / Rapid-Restart" technology for WOJ-3200 / AO-5575A

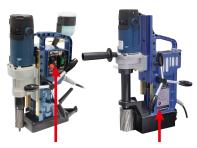
This new feature is a breakthrough in the Manual drill industry. Formerly only found on high end Nitto Kohki Automatic drills, this technology displays the current drill status via the LED Load Indicator. Customers will experience a cutting edge drill management system designed solely around saving time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

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







LED load indicator

One-Touch Cutter Replacement

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





Reversible Feed Handle

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



Chip Breaker (Optional)

This chip breaker prevents the cutter from becoming jammed with metal shavings.



WOJ-3200

AO-5575A

Body Height Adjustment (WOJ-3200)

The use of JETBROACH CUTTERS require the frame to be at the lowest position, while twist bit drilling requires the appropriate amount of elevation to be adjusted for safe operation.





One-Touch Drill Adapter (WOJ-3200)

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





*Twist drills are not provided with the one-touch drill adapter.

Built-in coolant tank to protect against damage (AO-5575A)



ATRA ACE quick auto

Model QA-4000 Non-CE

• Max. 40 mm dia. x 35 mm deep

Fully automatic drilling for increased productivity and reduced cost

• Proven Automatic Technology (self feeding, automatic return, load detection for speed and feed regulation)

Model QA-6500 Non-CE

• Max. 65 mm dia. x 50 mm deep





Specifi	cations					
Model			QA	-4000	QA	-6500
Power So	urce (Single Phase)		110 - 120 V AC, 50/60 HZ	220 - 240 V AC, 50/60 Hz	220 - 240 \	'AC, 50/60 Hz
Electric	Rated Power Consump	ption W	1	680	1	010
Drill	Rated Current	А	6.1	3.0		4.5
	No-load Speed	min ⁻¹ (rpm)		750	400) / 750
Magnet P	ower Consumption	W		50		75
Hole	Cutter		Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness
Capacity	One-touch Type JETBF	ROACH 35L	17.5 to 40	9 to 35	17.5 to 40	9 to 35
mm	One-touch Type JETBF	ROACH 50L	-	-	17.5 to 65	9 to 50
	One-touch Type HI-BR	OACH 25L	14 to 15	9 to 12	40.4- 25	0 1- 05
			16 to 18	9 to 25	18 to 35	9 to 25
Max. Stro	ke	mm		75		88
Magnet H	olding Power	N(kgf)	666	4 (680)	9800	(1000)
Magnet D	imensions	mm	82	x 172	100	x 200
Power Co	rd Length	m	4	5		5
Mass (We	eight)	kg	•	18.5		26
Accessor	ies Included		Oil Tank Cutting Oil 0.5L Pilot Pin 08035 Side Handle 3 mm Hex. Socket Screw Key	4 mm Hex. Socket Screw Key 8 x 10 mm Spanner Chain Tool Box	Oil Tank Cutting Oil 0.5L Pilot Pin 08050 Side Handle 3 mm Hex. Socket Screw Key	4 mm Hex. Socket Screw Key 8 x 10 mm Spanner Chip Stopper Chain Tool Box

Optional A	ccessories				
Def No	DN	Description	Calaa Uuit	Applicab	le Model
Ref. No.	PN	Description	Sales Unit	QA-4000	QA-6500
1	TB01507	Cutting Oil 2L	1 piece	•	•
2	TB04374	Supporting Magnet Ass'y	1 piece	•	•
3	TB07696	Pipe Attachment Ass'y	1 piece	•	
		One-touch Type JETBROACH 35L	1 piece	•	•
		One-touch Type JETBROACH 50L	1 piece		•
		One-touch Type HI-BROACH 12L	1 piece	•	
		One-touch Type HI-BROACH 25L	1 piece	•	•



Automatic Return

Once drilling is completed and the slug is ejected from the hole, the cutting bit is quickly retracted. This quick drill motor retraction allows the user to move onto the next hole more quickly.

Self Feeding & Load Detection

The feeding is controlled by an onboard microcomputer. The feed rate begins slowly and then increases to the appropriate speed for the cutter size and load condition. The load detector clearly shows the amount of resistance on the cutter at anytime.



Built-in Motion Sensor

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

Step Feed

When cutting through difficult materials, the load sensor will automatically activate the Step Feed Program to help penetrate material.

Limit Switch

The automatic drills of ATRA ACE utilize a limit switch that resets the machine when it retracts to the starting position after hole completion, also shuts down the motors in the event of an over-travel at the bottom of the stroke.

Chip Breaker

This chip breaker prevents the cutter from becoming jammed with metal shavings.



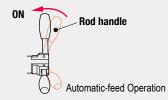
Automatic-feed Hole-cutting Procedure

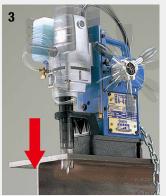


Align the pilot pin with the center punch mark of the hole to be drilled. Attach the machine to the beam with the proper safety chain and engage the magnet. Lower the drill down from the top limit switch location to the point of the pilot pin making contact with the material and engage the motor.



Engage the clutch by pushing the handles in towards the drill and the motor will begin feeding automatically.





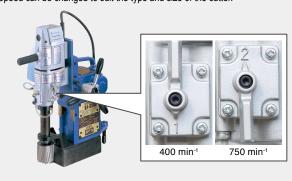
Slow start mechanism cuts smoothly through the mill scale. Then, speed and feed rate is controlled by the sensors to achieve efficient drilling.



After the hole is completed, the QA Series machines will quickly return and stop at the top of the stroke, ready for the next hole.

Two Speed Selection (QA-6500)

Speed can be changed to suit the type and size of the cutter.



One-touch Cutter Replacement

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



Mounting the cutter



Removing the cutter

Annular Cutters

JETBROACH CUTTERS & HI-BROACH CUTTERS

BROACH CUTTERS are far better than twist drills

- · No dead point
- Peripheral cutting
- Dramatically reduce cutting resistance
- Available diameter size: 12 100 mm

Test Drilling is very often the only way to determine the machinability of difficult materials.

Use a small size cutter wherever possible in order to minimize trial costs.

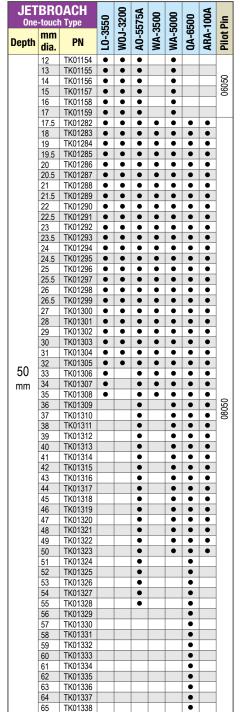


Specific	cations			90 mm(17.5 - 65 × 50L)	For stacked plates.		
		HI-BROACH One-touch Type/25L	HI-BROACH One-touch Type/50L	JETBROACH One-touch Type/25,35,50L	JETBROACH One-touch Type/50L(W)	JETBROACH One-touch Type/75L	JETBROACH Side lock Type/75L
		25L: 12 - 52 dia.	-	25L: 12 - 17 dia.	-	-	-
	Hala Diameter	-	-	35L: 17.5 - 40 dia.	-	-	-
	Hole Diameter	-	50L: 12 - 52 dia.	50L: 12 - 65 dia.	50L(W): 18, 22, 24 - 26.5,	-	-
Hole		-	-	-	28, 32, and 35 dia.	75L: 17.5 - 55 dia.	75L: 50 - 100 dia.
Capacity		25L: 25	-	25L: 25	-	-	-
mm	Dieto Thielman	-	-	35L: 35	-	-	-
	Plate Thickness	-	50L: 50	50L: 50	50L(W): 50	-	-
		-	-	-	-	75L: 75	75L: 75
Feed Spee	ed mm/rev			0.02	- 0.1		
Circumfer	ential Speed m/min	15 - 35 (r	nild steel)		35 - 50 (m	nild steel)	

		ACH	5A	9	9	0	0	2	A	_
One Depth	mm dia.	n Type PN	A0-5575A	WA-3500	WA-5000	QA-4000	QA-6500	CLA-2720	ARA-100A	Pilot Pin
	12	TK00698	•					•		
	13	TK00699	•					•		
	14	TK00700	•	•	•	•		•		52
	15	TK00701	•	•	•	•		•		06025
	16	TK00702	•	•	•	•		•		
	17	TK00703	•	•	•	•		•		
	17.5	TK01391	•	•	•	•		•	•	
	18	TK01392	•	•	•	•	•	•	•	
	19	TK01393	•	•	•		•	•	•	
	19.5	TK01394	•	•	•		•	•	•	
	20	TK01395	•	•	•		•	•	•	
	21	TK01396	•	•	•		•	•	•	
	21.5	TK01397	•	•	•		•	•	•	
	22	TK01398	•	•	•		•	•	•	
	22.5	TK01399	•	•	•		•	•	•	
	23	TK01400	•	•	•		•	•	•	
	23.5	TK01401	•	•	•		•	•	•	
	24	TK01402	•	•	•		•	•	•	
	24.5	TK01403	•	•	•		•	•	•	
	25	TK01404	•	•	•		•	•	•	
	26	TK01405	•	•	•		•	•	•	
	27	TK01407	•	•	•		•	•	•	
25	28	TK01408	•	•	•		•		•	
	29	TK01409	•	•	•		•		•	
mm	30	TK01410	•	•	•		•		•	
	31	TK01411	•	•	•		•		•	32
	32	TK01412	•	•	•		•		•	38025
	33	TK01413	•	•	•		•		•	0
	34	TK01414	•	•	•		•		•	
	35	TK01415	•	•	•		•		•	
	36	TK01416	•		•					
	37	TK01417	•		•					
	38	TK01418	•		•					
	39	TK01419	•		•					
	40	TK01420	•		•					
	41	TK01421	•		•					
	42	TK01422	•		•					
	43	TK01423	•		•					
	45	-	_		•					
	45	TK01425 TK01426	•		•					
	40		•		•					
	17	I KN1/127								1
	47 48	TK01427	_		_					1
	48	TK01428	•		•					
	48 49	TK01428 TK01429	•		•					
	48	TK01428	•		•					

		ACH n Type	75A	8	MO	ءِ.
Depth	mm dia.	PN	A0-5575A	WA-5000	ARA-100A	Pilot Pin
	12	TK00721	•			
	13	TK00722	•			
	14	TK00723	•	•		ကြ
	15	TK00724	•	•		90050
	16	TK00725	•	•		0
	17	TK00726	•	•		
	18	TK00727	•	•	•	_
	19	TK00728	•	•	•	-
	20	TK00729	•	•	•	-
	21	TK00730	•	•	•	-
	23	TK00731 TK00732	_	•	-	-
	24	TK00732	•	•	•	-
	25	TK00733	•	•	•	
	26	TK00734	•	•	•	1
	27	TK00736	•	•	•	1
	28	TK00737	•	•	•	1
	29	TK00738	•	•	•	1
	30	TK00739	•	•	•	1
EΟ	31	TK00740	•	•	•	1
50	32	TK00741	•	•	•	1
mm	33	TK00742	•	•	•	1
	34	TK00743	•	•	•	1
	35	TK00744	•	•	•	8050
	36	TK00745	•	•		8
	37	TK00746	•	•		
	38	TK00747	•	•		
	39	TK00748	•	•		
	40	TK00749	•	•		
	41	TK00750	•	•		
	42	TK00751	•	•		
	43	TK00752	•	•		
	44	TK00753	•	•		
	45	TK00754	•	•		-
	46	TK00755	•	•		-
	47	TK00756	•	•		
	48	TK00757 TK00758	•	•		-
	50	TK00758	•	•		-
	51	TK00759	•	_		
	52	TK00760				-
	52	100701				

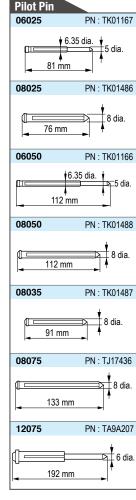
100	D D 4	24011										
		DACH	0	W0J-3200	A0-5575A	8	8	0	0	2	ARA-100A	_
One		1 Туре	55	8	22	32	2	물	င္က	-27	무	⊒ة
Depth	mm	PN	LO-3550	[€	6	WA-3500	WA-5000	QA-4000	QA-6500	CLA-2720	Æ	Pilot Pin
Doptii	dia.			3	⋖	3	3	o	ð	ပ	⋖	<u>-</u>
	12	TK01148	•	•	•		•			•		
	13	TK01149	•	•	•		•			•		
25	14	TK01150	•	•	•		•			•		06025
mm	15	TK01151	•	•	•		•			•		8
	16	TK01152	•	•	•		•			•		
	17	TK01153	•	•	•		•			•		
	17.5	TK01249	•	•	•	•	•	•	•	•	•	
	18	TK01250	•	•	•	•	•	•	•	•	•	
	18.5	TK01251	•	•	•	•	•	•	•	•	•	
	19	TK01252	•	•	•	•	•	•	•	•	•	
	19.5	TK01253	•	•	•	•	•	•	•	•	•	
	20	TK01254	•	•	•	•	•	•	•	•	•	
	20.5	TK01255	•	•	•	•	•	•	•	•	•	
	21	TK01256	•	•	•	•	•	•	•	•	•	
	21.5	TK01257	•	•	•	•	•	•	•	•	•	
	22	TK01258	•	•	•	•	•	•	•	•	•	
	22.5	TK01259	•	•	•	•	•	•	•	•	•	
	23	TK01260	•	•	•	•	•	•	•	•	•	
	23.5	TK01261	•	•	•	•	•	•	•	•	•	
	24	TK01262	•	•	•	•	•	•	•	•	•	
	24.5	TK01263	•	•	•	•	•	•	•	•	•	
35	25	TK01264	•	•	•	•	•	•	•	•	•	က္က
l .	25.5	TK01265	•	•	•	•	•	•	•	•	•	08035
mm	26	TK01266	•	•	•	•	•	•	•	•	•	0
	26.5	TK01267	•	•	•	•	•	•	•	•	•	
	27	TK01268	•	•	•	•	•	•	•	•	•	
	28	TK01269	•	•	•	•	•	•	•		•	
	29	TK01270	•	•	•	•	•	•	•		•	
	30	TK01271	•	•	•	•	•	•	•		•	
	31	TK01272	•	•	•	•	•	•	•		•	
	32	TK01273	•	•	•	•	•	•	•		•	
	33	TK01274	•		•	•	•	•	•		•	
	34	TK01275	•		•	•	•	•	•		•	
	35	TK01276	•		•	•	•	•	•		•	
	36	TK01277			•		•	•	•		•	
	37	TK01278			•		•	•	•		•	
	38	TK01279			•		•	•	•		•	
	39	TK01280			•		•	•	•		•	
	40	TK01281			•		•	•	•		•	



One	-toucl	DACH Type red plates	550	W0J-3200	A0-5575A	ARA-100A	Ë
Depth	mm dia.	PN	LO-3550	WOJ.	A0-5	ARA-	Pilot Pin
	18	TK01068	•	•	•	•	
	22	TK00622	•	•	•	•	
	24	TK00623	•	•	•	•	
	24.5	TK00631	•	•	•	•	
50	25	TK00624	•	•	•	•	08020
mm	26	TK00625	•	•	•	•	8
	26.5	TK00632	•	•	•	•	
	28	TK00626	•	•	•	•	
	32	TK00627	•	•	•	•	
	35	TK00628	•		•	•	

JET	BRO	DACH n Type	75A	8	90A	_=
Depth	mm dia.	PN	A0-5575A	WA-5000	ARA-100A	Pilot Pin
	17.5	TK01350	•	-		
	18	TK01350	•	•	•	
	19	TK01351	•	•	•	
	20	TK01353	•	•	•	
	21	TK01354	•	•	•	
	22	TK01355	•	•	•	
	23	TK01356	•	•	•	
	24	TK01357	•	•	•	
	24.5	TK01358	•	•	•	
	25	TK01359	•	•	•	
	26	TK01360	•	•	•	
	26.5	TK01361	•	•	•	
	27	TK01362	•	•	•	
	28	TK01363	•	•	•	
	29	TK01364	•	•	•	
	30	TK01365	•	•	•	
	31	TK01366	•	•	•	
	32	TK01367	•	•	•	
	33	TK01368	•	•	•	
75	34	TK01369	•	•	•	2
	35	TK01370	•	•	•	38075
mm	36	TK01371	•	•	•	ð
	37	TK01372	•	•	•	
	38	TK01373	•	•	•	
	39	TK01374	•	•	•	
	40	TK01375	•	•	•	
	41	TK01376	•	•	•	
	42	TK01377	•	•	•	
	43	TK01378	•	•	•	
	44	TK01379	•	•	•	
	45	TK01380	•	•	•	
	46	TK01381	•	•	•	
	47	TK01382	•	•	•	
	48	TK01383	•	•	•	
	49	TK01384	•	•	•	
	50	TK01385	•	•	•	
	51	TK01386	•			
	52	TK01387	•			
	53	TK01388	•			
	54	TK01389	•			
	55	TK01390	•			

		DACH k Type	100A	Ë
Depth	mm dia.	PN	ARA-100A	Pilot Pin
	50	TK01433	•	
	51	TK01434	•	
	52	TK01435	•	
	53	TK01436	•	
	54	TK01437	•	
	55	TK01438	•	
	56	TK01439	•	
	57	TK01440	•	
	58	TK01441	•	
	59	TK01442	•	
	60	TK01443	•	
	61	TK01444	•	
	62	TK01445	•	
	63	TK01446	•	
	64	TK01447	•	
	65	TK01448	•	
	66	TK01449	•	
	67	TK01450	•	
	68	TK01451	•	
	69	TK01452	•	
	70	TK01453	•	
	71	TK01454	•	
	72	TK01455	•	
	73	TK01456	•	
75	74	TK01457	•	ſΩ
	75	TK01458	•	2075
mm	76	TK01459	•	_
	77	TK01460	•	
	78	TK01461	•	
	79	TK01462	•	
	80	TK01463	•	
	81	TK01464	•	
	82	TK01465	•	
	83	TK01466	•	
	84	TK01467	•	
	85	TK01468	•	
	86	TK01469	•	
	87	TK01470	•	
	88	TK01471	•	
	89	TK01472	•	
	90	TK01473	•	
	91	TK01474	•	
	92	TK01475	•	
	93	TK01476	•	
	94	TK01477	•	
	95	TK01478	•	
	96	TK01479	•	
	97	TK01480	•	
	98	TK01481	•	
	99	TK01482	•	
	400	TI/04400	_	1



Sales Unit: 1 Piece

BROACH HOLDERS

Industrial cutters for faster and better finished holes

 The Spring-loaded pilot pin picks up the hole location quickly, and ejects the slug automatically at the end of cut

100 TK01483

- · Available with No. 2 to 4 Morse taper shanks
- Oil cup complete Ass'y (PN TB00350) is available as an optional attachment which provides continuous and adjustable cutting oil flow to the cutting area

