

# BORING

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                  |
|  | Rated Current                | A                        | 8.2                   |
|  | No-load Speed                | min <sup>-1</sup> (rpm)  | 110 - 210 / 330 - 660 |
|  | Morse Taper No.              |                          | MT3                   |
|  | Rated Duty                   | min                      | 30                    |
| Magnet Power Consumption                 |                              | W                        | 80                    |
| Hole Capacity                            | Cutter                       | Hole Diameter            | Plate Thickness       |
|  | 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 Adjustment               | Straight Front to Back       | mm                       | 20                    |
|  | 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    |

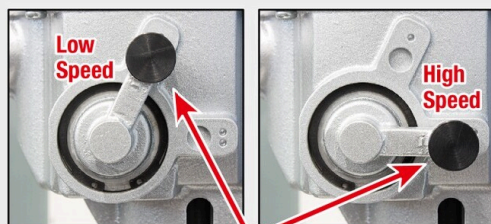
### Slow Starting Function

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

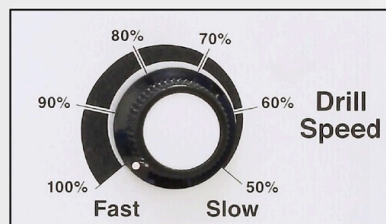


### Two speed electric drill with speed adjustment

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



# BORING

## Load Indication and LED Condition

### Load Indication

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

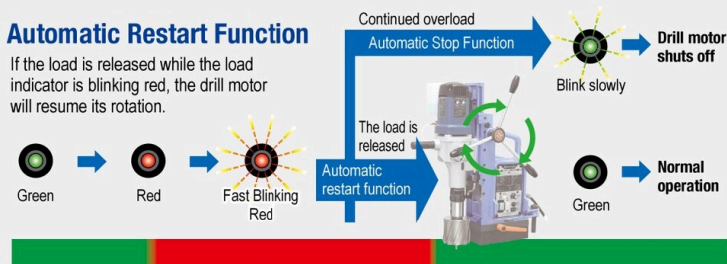
- The LED lights up in green. ➡ The load on the drill motor is normal.
- The LED lights up in red. ➡ The load on the drill motor is close to overload.
- The LED blinks in red. ➡ The drill motor is overloaded.

### 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, turn off the switch of the drill motor, and then turn it back 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.



Blinking red

### 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

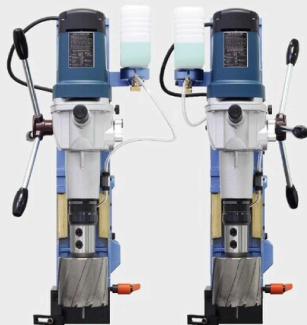
The drill will not start until the magnetic field is active. If malfunction occurs on the magnet, the LED will blink red slowly and the drill motor will not revolve.



Slow Blinking Red

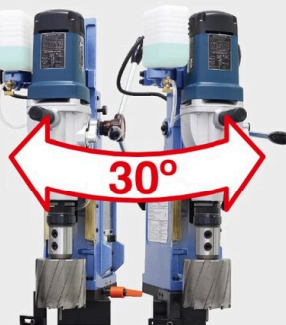
## Features

### Reversible Feed Handles

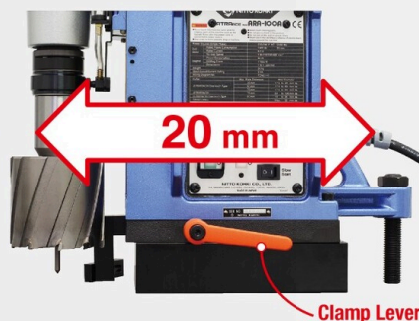


Feed handles can be positioned on the right or left hand side for ease of drilling. When changing the feed handle position, oil tank is required to be positioned opposite to the feed handles.

### 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 on the market

### Twist Drill Bit

MT3

Morse taper sleeve MT3\*

Drill chuck Arbor MT3\*



MT3 Morse taper shank drill bit can be directly installed.



Use Morse taper sleeve MT3 for other sizes than MT3



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

\*Available on the market



# 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.



### Specifications

|                             |                 | HI-BROACH<br>One-touch Type/25L | HI-BROACH<br>One-touch Type/50L | JETBROACH<br>One-touch Type/25,35,50L | JETBROACH<br>One-touch Type/50L(W)                | JETBROACH<br>One-touch Type/75L | JETBROACH<br>Side lock Type/75L |
|-----------------------------|-----------------|---------------------------------|---------------------------------|---------------------------------------|---|---------------------------------|---------------------------------|
| Hole Capacity<br>mm         | Hole Diameter   | 25L: 12 - 52 dia.               | -                               | 25L: 12 - 17 dia                      | -   | -                               | -                               |
|                             |                 | -                               | -                               | 35L: 17.5 - 40 dia.                   | -   | -                               | -                               |
|                             |                 | -                               | 50L: 12 - 52 dia.               | 50L: 12 - 65 dia.                     | 50L(W): 18, 22, 24 - 26.5,<br>28, 32, and 35 dia. | -                               | -                               |
|                             |                 | -                               | -                               | -                                     | 75L: 17.5 - 55 dia.                               | 75L: 50 - 100 dia.              |                                 |
|                             | Plate Thickness | 25L: 25                         | -                               | 25L: 25                               | -   | -                               | -                               |
|                             |                 | -                               | -                               | 35L: 35                               | -   | -                               | -                               |
|                             |                 | -                               | 50L: 50                         | 50L: 50                               | 50L(W): 50  | -                               | -                               |
|                             |                 | -                               | -                               | -                                     | -   | 75L: 75                         | 75L: 75                         |
| Feed Speed mm/rev           |                 | 0.02 - 0.1                      |                                 |                                       |   |                                 |                                 |
| Circumferential Speed m/min |                 | 15 - 35 (mild steel)            |                                 | 35 - 50 (mild steel)                  |   |                                 |                                 |

| HI-BROACH<br>One-touch Type |         | ARA-100A | WA-3500 | WA-5000 | AO-5575A | QA-4000 | QA-6500 | Pilot Pin |
|-----------------------------|---------|----------|---------|---------|----------|---------|---------|-----------|
| Depth                       | mm dia. | PN       |         |         |          |         |         |           |
| 25 mm                       | 12      | TK00698  |         |         |          |         |         | 06025     |
|                             | 13      | TK00699  |         |         |          |         |         |           |
|                             | 14      | TK00700  |         |         |          |         |         |           |
|                             | 15      | TK00701  |         |         |          |         |         |           |
|                             | 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  |         |         |          |         |         | 08025     |
|                             | 27      | TK01407  |         |         |          |         |         |           |
|                             | 28      | TK01408  |         |         |          |         |         |           |
|                             | 29      | TK01409  |         |         |          |         |         |           |
|                             | 30      | TK01410  |         |         |          |         |         |           |
|                             | 31      | TK01411  |         |         |          |         |         |           |
|                             | 32      | TK01412  |         |         |          |         |         |           |
|                             | 33      | TK01413  |         |         |          |         |         |           |
|                             | 34      | TK01414  |         |         |          |         |         |           |
|                             | 35      | TK01415  |         |         |          |         |         |           |
|                             | 36      | TK01416  |         |         |          |         |         |           |
|                             | 37      | TK01417  |         |         |          |         |         |           |
|                             | 38      | TK01418  |         |         |          |         |         |           |
|                             | 39      | TK01419  |         |         |          |         |         |           |
|                             | 40      | TK01420  |         |         |          |         |         |           |
|                             | 41      | TK01421  |         |         |          |         |         |           |
|                             | 42      | TK01422  |         |         |          |         |         |           |
|                             | 43      | TK01423  |         |         |          |         |         |           |
|                             | 44      | TK01424  |         |         |          |         |         |           |
|                             | 45      | TK01425  |         |         |          |         |         |           |
|                             | 46      | TK01426  |         |         |          |         |         |           |
|                             | 47      | TK01427  |         |         |          |         |         |           |
|                             | 48      | TK01428  |         |         |          |         |         |           |
|                             | 49      | TK01429  |         |         |          |         |         |           |
|                             | 50      | TK01430  |         |         |          |         |         |           |
|                             | 51      | TK01431  |         |         |          |         |         |           |
|                             | 52      | TK01432  |         |         |          |         |         |           |

| HI-BROACH<br>One-touch Type |         | ARA-100A | WA-5000 | AO-5575A | Pilot Pin |
|-----------------------------|---------|----------|---------|----------|-----------|
| Depth                       | mm dia. | PN       |         |          |           |
| 50 mm                       | 12      | TK00721  |         |          | 06050     |
|                             | 13      | TK00722  |         |          |           |
|                             | 14      | TK00723  |         |          |           |
|                             | 15      | TK00724  |         |          |           |
|                             | 16      | TK00725  |         |          |           |
|                             | 17      | TK00726  |         |          |           |
|                             | 18      | TK00727  |         |          |           |
|                             | 19      | TK00728  |         |          |           |
|                             | 20      | TK00729  |         |          |           |
|                             | 21      | TK00730  |         |          |           |
|                             | 22      | TK00731  |         |          |           |
|                             | 23      | TK00732  |         |          |           |
|                             | 24      | TK00733  |         |          |           |
|                             | 25      | TK00734  |         |          |           |
|                             | 26      | TK00735  |         |          |           |
|                             | 27      | TK00736  |         |          |           |
|                             | 28      | TK00737  |         |          |           |
|                             | 29      | TK00738  |         |          |           |
|                             | 30      | TK00739  |         |          |           |
|                             | 31      | TK00740  |         |          | 08050     |
|                             | 32      | TK00741  |         |          |           |
|                             | 33      | TK00742  |         |          |           |
|                             | 34      | TK00743  |         |          |           |
|                             | 35      | TK00744  |         |          |           |
|                             | 36      | TK00745  |         |          |           |
|                             | 37      | TK00746  |         |          |           |
|                             | 38      | TK00747  |         |          |           |
|                             | 39      | TK00748  |         |          |           |
|                             | 40      | TK00749  |         |          |           |
|                             | 41      | TK00750  |         |          |           |
|                             | 42      | TK00751  |         |          |           |
|                             | 43      | TK00752  |         |          |           |
|                             | 44      | TK00753  |         |          |           |
|                             | 45      | TK00754  |         |          |           |
|                             | 46      | TK00755  |         |          |           |
|                             | 47      | TK00756  |         |          |           |
|                             | 48      | TK00757  |         |          |           |
|                             | 49      | TK00758  |         |          |           |
|                             | 50      | TK00759  |         |          |           |
|                             | 51      | TK00760  |         |          |           |
|                             | 52      | TK00761  |         |          |           |

| JETBROACH<br>One-touch Type |         | ARA-100A | LO-3550 | WA-3500 | WA-5000 | WOJ-3200 | AO-5575A | QA-4000 | QA-6500 | Pilot Pin |
|-----------------------------|---------|----------|---------|---------|---------|----------|----------|---------|---------|-----------|
| Depth                       | mm dia. | PN       |         |         |         |          |          |         |         |           |
| 25 mm                       | 12      | TK01148  |         |         |         |          |          |         |         | 06025     |
|                             | 13      | TK01149  |         |         |         |          |          |         |         |           |
|                             | 14      | TK01150  |         |         |         |          |          |         |         |           |
|                             | 15      | TK01151  |         |         |         |          |          |         |         |           |
|                             | 16      | TK01152  |         |         |         |          |          |         |         |           |
|                             | 17      | TK01153  |         |         |         |          |          |         |         |           |
|                             | 17.5    | TK01249  |         |         |         |          |          |         |         |           |
|                             | 18      | TK01250  |         |         |         |          |          |         |         |           |
| 35 mm                       | 18.5    | TK01251  |         |         |         |          |          |         |         | 08035     |
|                             | 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  |         |         |         |          |          |         |         |           |
|                             | 25      | TK01264  |         |         |         |          |          |         |         |           |
|                             | 25.5    | TK01265  |         |         |         |          |          |         |         |           |
|                             | 26      | TK01266  |         |         |         |          |          |         |         |           |
|                             | 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  |         |         |         |          |          |         |         |           |

Sales Unit: 1 Piece

# BORING

| JETBROACH<br>One-touch Type |         | ARA-100A | LO-3550 | WA-3500 | WA-5000 | WOJ-3200 | AO-5575A | QA-6500 | Pilot Pin |
|-----------------------------|---------|----------|---------|---------|---------|----------|----------|---------|-----------|
| Depth                       | mm dia. | PN       |         |         |         |          |          |         |           |
| 12                          | TK01154 |          | •       |         |         |          |          |         |           |
| 13                          | TK01155 |          | •       |         |         |          |          |         |           |
| 14                          | TK01156 |          | •       |         |         |          |          |         |           |
| 15                          | TK01157 |          | •       |         |         |          |          |         |           |
| 16                          | TK01158 |          | •       |         |         |          |          |         |           |
| 17                          | TK01159 |          | •       |         |         |          |          |         |           |
| 17.5                        | TK01282 | •        |         |         |         |          |          |         |           |
| 18                          | TK01283 | •        |         |         |         |          |          |         |           |
| 19                          | TK01284 | •        |         |         |         |          |          |         |           |
| 19.5                        | TK01285 | •        |         |         |         |          |          |         |           |
| 20                          | TK01286 | •        |         |         |         |          |          |         |           |
| 20.5                        | TK01287 | •        |         |         |         |          |          |         |           |
| 21                          | TK01288 | •        |         |         |         |          |          |         |           |
| 21.5                        | TK01289 | •        |         |         |         |          |          |         |           |
| 22                          | TK01290 | •        |         |         |         |          |          |         |           |
| 22.5                        | TK01291 | •        |         |         |         |          |          |         |           |
| 23                          | TK01292 | •        |         |         |         |          |          |         |           |
| 23.5                        | TK01293 | •        |         |         |         |          |          |         |           |
| 24                          | TK01294 | •        |         |         |         |          |          |         |           |
| 24.5                        | TK01295 | •        |         |         |         |          |          |         |           |
| 25                          | TK01296 | •        |         |         |         |          |          |         |           |
| 25.5                        | TK01297 | •        |         |         |         |          |          |         |           |
| 26                          | TK01298 | •        |         |         |         |          |          |         |           |
| 26.5                        | TK01299 | •        |         |         |         |          |          |         |           |
| 27                          | TK01300 | •        |         |         |         |          |          |         |           |
| 28                          | TK01301 | •        |         |         |         |          |          |         |           |
| 29                          | TK01302 | •        |         |         |         |          |          |         |           |
| 30                          | TK01303 | •        |         |         |         |          |          |         |           |
| 31                          | TK01304 | •        |         |         |         |          |          |         |           |
| 32                          | TK01305 | •        |         |         |         |          |          |         |           |
| 33                          | TK01306 | •        |         |         |         |          |          |         |           |
| 34                          | TK01307 | •        |         |         |         |          |          |         |           |
| 35                          | TK01308 | •        |         |         |         |          |          |         |           |
| 36                          | TK01309 | •        |         |         |         |          |          |         |           |
| 37                          | TK01310 | •        |         |         |         |          |          |         |           |
| 38                          | TK01311 | •        |         |         |         |          |          |         |           |
| 39                          | TK01312 | •        |         |         |         |          |          |         |           |
| 40                          | TK01313 | •        |         |         |         |          |          |         |           |
| 41                          | TK01314 | •        |         |         |         |          |          |         |           |
| 42                          | TK01315 | •        |         |         |         |          |          |         |           |
| 43                          | TK01316 | •        |         |         |         |          |          |         |           |
| 44                          | TK01317 | •        |         |         |         |          |          |         |           |
| 45                          | TK01318 | •        |         |         |         |          |          |         |           |
| 46                          | TK01319 | •        |         |         |         |          |          |         |           |
| 47                          | TK01320 | •        |         |         |         |          |          |         |           |
| 48                          | TK01321 | •        |         |         |         |          |          |         |           |
| 49                          | TK01322 | •        |         |         |         |          |          |         |           |
| 50                          | TK01323 | •        |         |         |         |          |          |         |           |
| 51                          | TK01324 | •        |         |         |         |          |          |         |           |
| 52                          | TK01325 | •        |         |         |         |          |          |         |           |
| 53                          | TK01326 | •        |         |         |         |          |          |         |           |
| 54                          | TK01327 | •        |         |         |         |          |          |         |           |
| 55                          | TK01328 | •        |         |         |         |          |          |         |           |
| 56                          | TK01329 | •        |         |         |         |          |          |         |           |
| 57                          | TK01330 | •        |         |         |         |          |          |         |           |
| 58                          | TK01331 | •        |         |         |         |          |          |         |           |
| 59                          | TK01332 | •        |         |         |         |          |          |         |           |
| 60                          | TK01333 | •        |         |         |         |          |          |         |           |
| 61                          | TK01334 | •        |         |         |         |          |          |         |           |
| 62                          | TK01335 | •        |         |         |         |          |          |         |           |
| 63                          | TK01336 | •        |         |         |         |          |          |         |           |
| 64                          | TK01337 | •        |         |         |         |          |          |         |           |
| 65                          | TK01338 | •        |         |         |         |          |          |         |           |

| JETBROACH<br>One-touch Type<br>50L(W) for stacked plates |         | ARA-100A | LO-3550 | WOJ-3200 | AO-5575A | Pilot Pin |
|--|---------|----------|---------|----------|----------|-----------|
| Depth  | mm dia. | PN       |         |          |          |           |
| 18   | TK01068 | •        | •       | •        | •        |           |
| 22   | TK00622 | •        | •       | •        | •        |           |
| 24   | TK00623 | •        | •       | •        | •        |           |
| 24.5   | TK00631 | •        | •       | •        | •        |           |
| 25   | TK00624 | •        | •       | •        | •        |           |
| 26   | TK00625 | •        | •       | •        | •        |           |
| 26.5   | TK00632 | •        | •       | •        | •        |           |
| 28   | TK00626 | •        | •       | •        | •        |           |
| 32   | TK00627 | •        | •       | •        | •        |           |
| 35   | TK00628 | •        | •       | •        | •        |           |

| JETBROACH<br>One-touch Type |         | ARA-100A | WA-5000 | AO-5575A | Pilot Pin |
|-----------------------------|---------|----------|---------|----------|-----------|
| Depth                       | mm dia. | PN       |         |          |           |
| 17.5                        | TK01350 | •        | •       | •        |           |
| 18                          | TK01351 | •        | •       | •        |           |
| 19                          | TK01352 | •        | •       | •        |           |
| 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 | •        | •       | •        |           |
| 34                          | TK01369 | •        | •       | •        |           |
| 35                          | TK01370 | •        | •       | •        |           |
| 36                          | TK01371 | •        | •       | •        |           |
| 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 | •        | •       | •        |           |

| JETBROACH<br>Side-lock Type |         | ARA-100A | Pilot Pin |
|-----------------------------|---------|----------|-----------|
| Depth                       | mm dia. | PN       |           |
| 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 | •        |           |
| 74                          | TK01457 | •        |           |
| 75                          | TK01458 | •        |           |
| 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 | •        |           |
| 100                         | TK01483 | •        |           |

| Pilot Pin |              | PN : TK01167 |
|-----------|--------------|--------------|
| 06025     | PN : TK01167 | 81 mm        |
| 08025     | PN : TK01486 | 76 mm        |
| 06050     | PN : TK01166 | 112 mm       |
| 08050     | PN : TK01488 | 112 mm       |
| 08035     | PN : TK01487 | 91 mm        |
| 08075     | PN : TJ17436 | 133 mm       |
| 12075     | PN : TA9A207 | 192 mm       |

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
- 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



| Specifications  |  | M.T.No.3                    |                           |                             |                             |                             |               |  | M.T.No.4            |
|-----------------|--|-----------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|---------------|--|---------------------|
| Morse Taper No. | M.T.No.2                                   | M.T.No.3                    |                           |                             |                             |                             |               |  | M.T.No.4            |
| Model           | BHM-02035                                  | BHM-03050                   |                           |                             |                             |                             |               |  | BHM-13075 BHM-14075 |
| PN              | TB00390                                    | TB00392                     |                           |                             |                             |                             |               |  | TB00352 TB00354     |
| Cutter          | HBO-25L JBO-35L                            | HBO-25L                     | HBO-50L                   | JBO-35L                     | JBO-50L                     | JBO-50L(W)                  | JBS-75L       |  |                     |
| Cutter Diameter | 12 - 17 dia. 17.5 - 35 dia. 17.5 - 40 dia. | 12 - 17 dia. 17.5 - 52 dia. | 12 - 18 dia. 19 - 52 dia. | 17.5 - 40 dia. 18 - 35 dia. | 17.5 - 65 dia. 18 - 35 dia. | 17.5 - 65 dia. 18 - 35 dia. | 50 - 100 dia. |  |                     |
| Pilot Pin       | 06025 08025 08035                          | 06025 08025                 | 06050 08050               | 08035                       | 08050                       | 08050                       | 12075         |  |                     |
|                 | Optional Included                          | Optional                    | Included                  | Optional                    | Included                    | Optional                    | Included      |  |                     |

HBO: HI-BROACH One-touch Type

JBO: JETBROACH One-touch Type

JBS: JETBROACH Side-lock Type