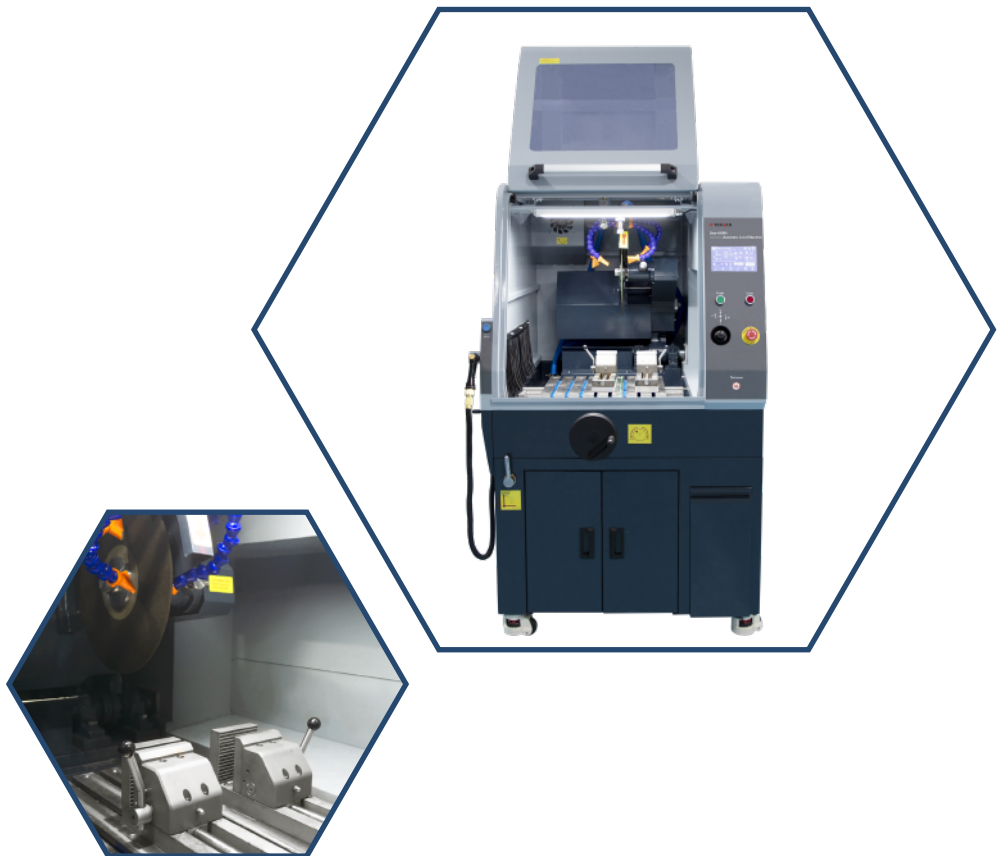


# *Beta-400MA Automatic Abrasive Sectioning Machine*

SECTIONING

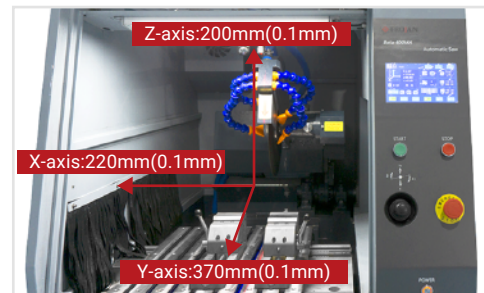


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TROJAN (SUZHOU) MATERIAL TECHNOLOGY CO.,LTD

# Beta-400MA Automatic Abrasive Sectioning Machine

Beta-400MA is a fully automatic large-scale cutting machine, suitable for cutting various metal materials, ceramics, quartz glass, and rock samples. Beta-400MA is equipped with various clamps to cut irregularly shaped workpieces, and it features automatic/manual feed cutting of the worktable (Y-axis), chop cutting of the cutting disc (Z-axis), and manual/automatic horizontal translation of the worktable (X-axis).



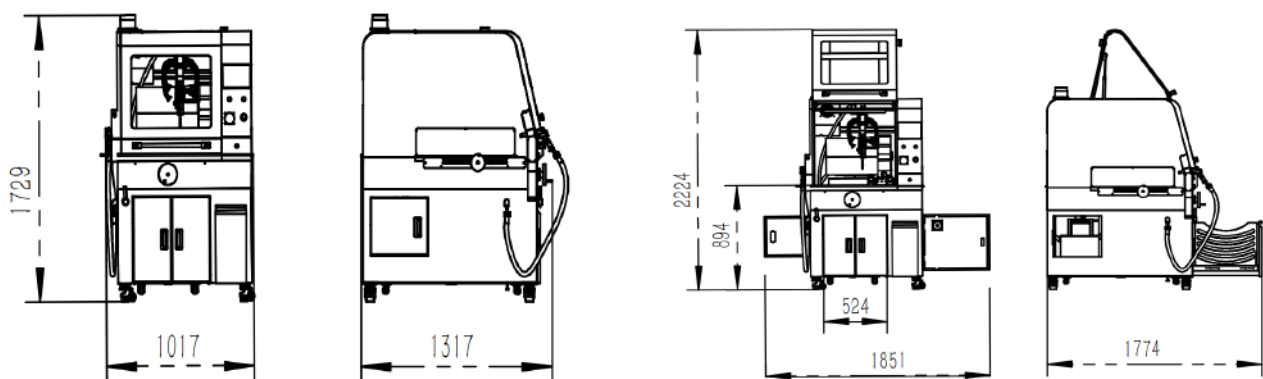
## Features:

- ♦ Cast aluminum base, 304 stainless steel cover for strength, durability, and corrosion resistance;
- ♦ Joystick control for XYZ-axis alignment, easy and quick operation;
- ♦ Large worktable and operating space;
- ♦ X-axis platform automatically moves, enabling continuous cutting; Equipped with an exhaust and air purification system;
- ♦ 150 Litre freestanding independent water tank;
- ♦ Integrated magnetic separator, paper belt filtration system, and laser alignment for clean operation and precise positioning.



## Dimension Figure

Unit: mm












The water tank is inside of the cutter

The dimensions on the cutter when the door open





## Technical Data:

| Model                 |                     | Beta-400MA   |
|-----------------------|---------------------|--|
| Cut-off Wheel         | Speed               | 800-2000rpm  |
|                       | Diameter            | Φ400~Φ450mm  |
|                       | Arbor Dia.          | Φ32mm  |
|                       | Height above table  | 220mm @Φ400 blade; 190mm @Φ450 blade                       |
| Cutting table         | Size (W×D)          | 438X388 mm   |
|                       | T-slots             | 12mm   |
|                       | Amount of feed      | 0.1-4mm/S  |
|                       | Travel along Y-     | 370mm  |
|                       | Travel along X-     | 220mm, Manual  |
| Capacity @ Φ400 Wheel | Dia.                | Φ130 mm  |
|                       | Height × Length     | 130x400 mm   |
| Capacity @ Φ450 Wheel | Dia.                | Φ150mm   |
|                       | Height × Length     | 150x300mm  |
| Power supply          | Power inlet         | 3x380V/50Hz+1N + 1PE                                       |
|                       | Rated power         | 7.5KW  |
| Safety                | Emergency stop      | Press to cut off the control circuit                       |
|                       | Interlock switch    | Door is locked while cutting                               |
|                       | Joystick            | Two-handed operation                                       |
|                       | Overload protection | Automatic adjust feed rate                                 |
| Cooling Tank          | Capacity            | 150L   |
|                       | Dimensions          | 1200x450x610mm(WxDxH, with water pump)                     |
|                       | Inlet & Outlet      | Inlet: ID=Φ19 mm hose ; Outlet: ID= Φ38 mm hose            |
|                       | Water flow          | 6 channels, flow rate: 100L/min                            |
| Smart cutting         | Cut mode            | Manual/ Platform Feed / Chop/ Segmented / Parallel Slicing |
|                       | Feed mode           | Constant speed / Pulsing / Automatic speed adjustment      |
| Dimension             | W*D*H               | 1017*1317*1729mm(closed); 1851*1774*2224mm(open)           |
| Weight                | Main unit           | 550kg  |
|                       | Water tank          | 40kg   |

## Standard Accessories:

|   |   |   |  |           |
|---|---|---|--|-----------|
| 1 | Recirculating cooling and filter system |    | Capacity: 130L,<br>flow: 100L/Min            | 1set      |
| 2 | Fast vise                               |    | F400L/R                                      | 1set      |
| 3 | Open spanner                            |    | M30 Open spanner                             | 1pc       |
| 4 | Allen key                               |    | 8mm Allen key                                | 1pc       |
| 5 | Cutting blades fix                      |    | Lock nut 1pcs+Fixing<br>piece 2pcs           | 1set      |
| 6 | Inlet pipe                              |    | Φ19mm Rubber pipe 1.5m                       | 1pc       |
| 7 | Outlet pipe                             |   | Φ38mm steel wire pipe                        | 1pc       |
| 8 | Grease gun                              |  |  | 1set      |
| 9 | Abrasive Wheels                         |  | A604030 (400*32*3.0)<br>A504030 (400*32*3.0) | 5pcs each |

## Optional Accessories:

|   |                                 |   |            |  |
|---|---------------------------------|---|------------|--|
| 1 | Large Vertical clamp            |  | H400       |  |
| 2 | Fast vise                       |  | F300L/R    |  |
| 3 | Padding block for vertical vise |  | H400-BLOCK |  |
| 4 | Extend arm                      |  | H400-EX    |  |

## Related Consumables & Accessories:



Abrasive Wheels



Coolant

## Purchase list:

### Abrasive Wheels:

|           |  |         |                |       |
|-----------|--|---------|----------------|-------|
| 01.01.180 | A60 Alumina Abrasive Wheels (Very hard ferrous metals)   | A604030 | 400*32.0*3.0mm | 10pcs |
| 01.01.280 | A50 Alumina Abrasive Wheels (Medium hard ferrous metals) | A504030 | 400*32.0*3.0mm | 10pcs |
| 01.01.380 | A30 Alumina Abrasive Wheels (Soft ferrous metals)        | A304030 | 400*32.0*3.0mm | 10pcs |
| 01.02.480 | S20 Abrasive Cut Off Wheels (Non-ferrous soft metals)    | S204030 | 400*32.0*3.0mm | 10pcs |

### Coolant:

|               |                         |       |
|---------------|-------------------------|-------|
| 01.07.810/820 | TJ 1220 Cutting Coolant | 1L/5L |
| 01.07.857/860 | TJ 1410 Cutting Coolant | 1L/5L |
| 01.07.890/900 | TJ 1506 Cleaner         | 1L/5L |

