

# ***Beta-250 Automatic Abrasive Sectioning Machine***

SECTIONING



2026

TROJAN (SUZHOU) MATERIAL TECHNOLOGY CO.,LTD

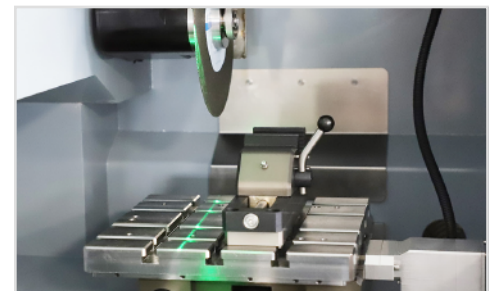
# Beta-250 Automatic Abrasive Sectioning Machine

Beta-250 is a fully automatic cutting machine equipped with advanced intelligent control technology and a full-touchscreen interface. It is suitable for cutting various materials, including metals, ceramics, quartz glass, and petrographic samples. Supports fully automatic cutting with X, Y, Z, and R axes, enabling multi-section cutting with varying thicknesses and angles. (Y-axis can be manually controlled, and R-axis is an optional feature.)



## Features:

- ♦ Fully automated control of X, Y, Z, and R axes. The Y-axis supports manual control, and the R-axis (rotation/angle) is an optional feature;
- ♦ Capable of holding extra-long samples extending through the side door;
- ♦ Supports multi-section continuous cutting on the X-axis (R-axis), enabling equal thickness (angle) cutting or cutting at any specified position;
- ♦ Spacious worktable and cutting chamber, with a worktable size of 280×300mm;
- ♦ 10-inch large touchscreen;
- ♦ Equipped with a laser alignment device;



## Technical Data:

| Model               |                        | Beta-250                                                                          |
|---------------------|------------------------|-----------------------------------------------------------------------------------|
| Cutting wheel       | Speed                  | 1000-3500rpm                                                                      |
|                     | Diameter               | Φ254mm                                                                            |
|                     | Hole-distance          | Φ32mm                                                                             |
| Electricity         | Input                  | 3x380V/50Hz + Neutral + Ground                                                    |
|                     | Power                  | 3kW                                                                               |
| Cutting capacity    | Max. cutting capacity  | Φ80mm                                                                             |
|                     | Maximum square section | 80x220mm                                                                          |
| Intelligent cutting | Wheel movement         | Vertical / Horizontal / Segmented / Continuous / R-Axis Rotary Cutting (Optional) |
|                     | Cut types              | Constant speed / Pulsing / Automatic speed adjustment                             |
| Travel movement     |                        | X-axis: 100mm Y-axis: 220mm Z-axis: 160mm R-axis: 360°                            |
| Working table       | Dimension              | 280x300(WxD)                                                                      |
|                     | T-slot                 | 12mm                                                                              |
| Dimensions          | W×D×H                  | 920×780×720mm                                                                     |
| Weight              |                        | 150kg                                                                             |

\*X: left-right; Y: front-back; Z: up-down; R: rotation.

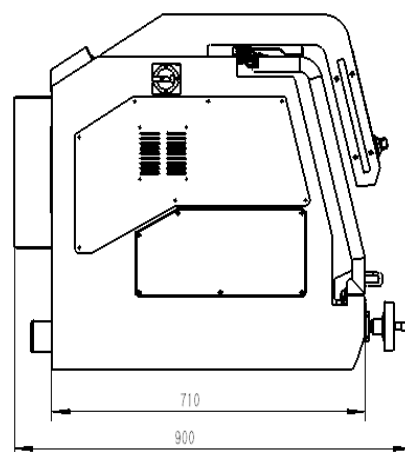
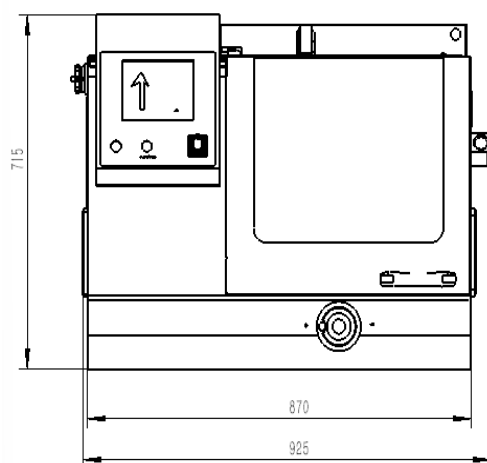
## Control panel:



- ① Touchscreen
- ② Emergency button
- ③ Start/Stop button
- ④ Joystick handle

## Dimension Figure

Unite: mm



## Related Consumables & Accessories:



Abrasive Wheels



Coolant

## Standard Accessories:

|   |                                         |                                                                                     |                                            |           |
|---|-----------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------|-----------|
| 1 | Recirculating cooling and filter system |    | Capacity: 60L,<br>Flow rate: 11.7L/Min     | 1set      |
| 2 | Fast vise –Right                        |    | F250R                                      | 1pc       |
| 3 | Open–end wrench                         |    | 24mm open end wrench                       | 1pc       |
| 4 | Allen key                               |    | S8 Hex Key                                 | 1pc each  |
| 5 | Water inlet pipe                        |    | Φ19mm rubber tube 1.5m                     | 1pc       |
| 6 | Water outlet pipe                       |    | Φ64mm corrugated pipe and clamp            | 1pc       |
| 7 | Coolant                                 |   | TJ-1410 (2000ml)                           | 1pc       |
| 8 | Abrasive Wheels                         |  | A603020(250*32*1.5)<br>A503020(250*32*1.5) | 5pcs each |
| 9 | Abrasive Wheels                         |  |                                            | 1pc       |

## Optional Accessories:

|   |                                 |                                                                                     |            |
|---|---------------------------------|-------------------------------------------------------------------------------------|------------|
| 1 | Handlebar style fast-lock       |  | H400       |
| 2 | Fast vise                       |  | F250L/R    |
| 3 | Small vertical clamping         |  | H200       |
| 4 | Padding block for vertical vise |  | H400-BLOCK |
| 5 | Extend arm                      |  | H400-EX    |

## Purchase list:

### Abrasive Wheels:

|           |                                                          |         |                |       |
|-----------|----------------------------------------------------------|---------|----------------|-------|
| 01.01.150 | A60 Alumina Abrasive Wheels (Very hard ferrous metals)   | A602515 | 250*32.0*1.5mm | 10pcs |
| 01.01.250 | A50 Alumina Abrasive Wheels (Medium hard ferrous metals) | A502515 | 250*32.0*1.5mm | 10pcs |
| 01.01.350 | A30 Alumina Abrasive Wheels (Soft ferrous metals)        | A302515 | 250*32.0*1.5mm | 10pcs |
| 01.02.450 | S20 Abrasive Cut Off Wheels (Non-ferrous soft metals)    | S202515 | 250*32.0*1.5mm | 10pcs |

### Diamond/CBN Cut Off Wheels:

|           |                                         |             |                |     |
|-----------|-----------------------------------------|-------------|----------------|-----|
| 01.03.560 | DP Electroplated Diamond Cut Off Wheels | DP253215    | 250*32.0*1.5mm | 1PC |
| 01.04.660 | DR Resin-Bonded Diamond Cut Off Wheels  | DR253215    | 250*32.0*1.5mm | 1PC |
| 01.05.760 | DM Metal-Bonded Diamond Cut Off Wheels  | DM253215    | 250*32.0*1.5mm | 1PC |
| 01.10.960 | CBN-M BoronNitride Cut Off Wheels       | CBN-M253215 | 250*32.0*1.5mm | 1PC |

### 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 |



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