

Beta-250 Automatic Abrasive Sectioning Machine

SECTIONING



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TROJAN (SUZHOU) MATERIAL TECHNOLOGY CO.,LTD

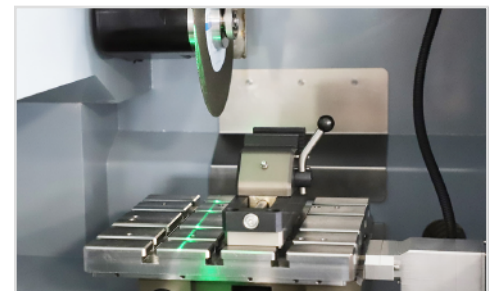
Beta-250 Automatic Abrasive Sectioning Machine

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	Φ250mm
	Hole-distance	Φ32mm
Electricity	Input	3x380V/50Hz + Neutral + Ground
	Power	3kW
Cutting capacity	Max. cutting capacity	Φ85mm
	Maximum square section	85x250mm
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: 250mm Z-axis: 160mm R-axis: 360°
Working table	Dimension	280x300(WxD)
	T-slot	12mm
Dimensions	W×D×H	930×900×720mm
Weight		250kg

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

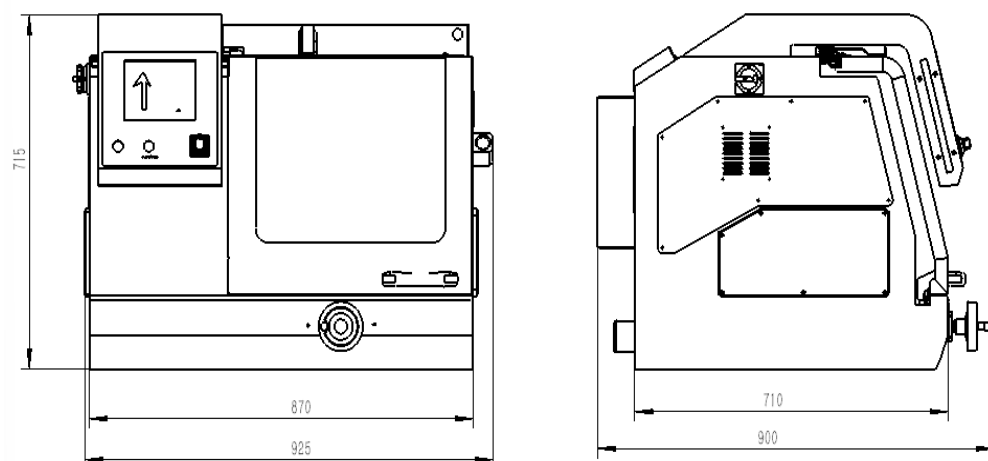
Control panel:



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

Dimension Figure

Unit: mm



Related Consumables & Accessories:



Abrasive Wheels



Coolant

Standard Accessories:

1	Recirculating cooling and filter system		Capacity: 60L, Flow rate: 11.7L/Min	1set
2	Fast vise –Right		F250R	1pc
3	Open–end wrench		22mm open end wrench	1pc
4	Allen key		6、8mm Allen key	1pc each
5	Water inlet pipe		Φ19mm rubber tube 1.5m	1pc
6	Water outlet pipe		Φ64mm corrugated pipe and clamp	1pc
7	Abrasive Wheels		A603020(250*32*1.5) A503020(250*32*1.5)	5pcs each

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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