

# ***Beta-500 Automatic Abrasive Sectioning Machine***

SECTIONING



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10 / 11

TROJAN (SUZHOU) MATERIAL TECHNOLOGY CO.,LTD

# Beta-500 Automatic Abrasive Sectioning Machine

Beta-500 is a fully automatic large cutting machine, suitable for cutting various metal materials, ceramics, quartz glass, and rock samples. It features automatic multi-stage cutting with varying thicknesses and angles along the X, Y, Z, and optional R axes. (R axis is an optional feature.)

## Features:

- ◆ Freestanding independent water tank with a large capacity;
- ◆ Enables multi-segment continuous cutting along the X-axis (R-axis), allowing either equal thickness (angle) sections or custom-specified positions;
- ◆ Extra-large worktable and cutting chamber; the worktable measures 728x832mm, and the cutting chamber measures 1248x1220mm with a height of 900mm;
- ◆ Equipped with a wireless handwheel, enabling four-axis control for quick alignment;
- ◆ Integrated cast aluminum base with durable powder coating;
- ◆ Equipped with a 10-inch large touchscreen;
- ◆ Freestanding independent water tank with a large capacity, easy to remove and clean;
- ◆ Integrated magnetic separator, paper belt filtration system, and laser alignment for clean operation and precise positioning.

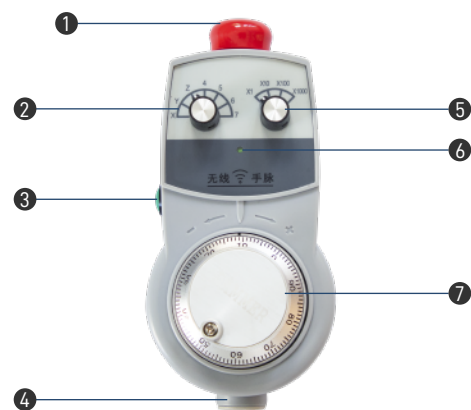


## Control Panel Introduction:



- |                |                         |
|----------------|-------------------------|
| ① Start button | ④ Stop button           |
| ② Reset button | ⑤ Emergency stop button |
| ③ Touchscreen  | ⑥ Wireless handwheel    |

## Wireless handwheel:



- |                             |                   |
|-----------------------------|-------------------|
| ① Emergency stop            | ⑤ Speed selection |
| ② Selection of control axes | ⑥ Indicator light |
| ③ Linkage button            | ⑦ Hand wheel      |
| ④ Charging interface        |                   |




## Technical Data:

Model		Beta-500
Cutting blade	Speed	500~2500rpm
	Diameter	Φ500mm
	Center hole	Φ50.8mm
Electricity	Input	3x380V/50Hz+Neutral+Ground
	Cutting power	15KW(S1)
Cutting capacity	Maximum diameter	Φ190mm
	Maximum square section	190x360mm
Smart cutting	Cutting mode	Vertical/ Horizontal/Segmented/ Continuous/R-Axis Rotary Cutting/ Angle Cutting (Optional)
	Feeding method	Constant speed/Pulsing/Automatic speed adjustment
Travel		X-axis (left-right): 550mm   Y-axis (front-back): 500mm Z-axis (up-down): 330mm   R-axis (rotation): 360°
Working bench	Size	832×728mm (W×D)
	T-slot	12mm
Angle Cutting (Optional)	Bench size	Φ600mm
	Number of automatic cuts	20
Cooling	Tank capacity	200L
	Tank Size	1500x900 height 650mm
	Connector	Inlet: Φ19 inner diameter high-pressure pipe; Outlet: Φ 80 inner diameter hose
	Flow rate	100L/min
Filtration	Method	Paper tape + magnetic separator
	Accuracy	30μm
Oil mist collector (optional)	Power	0.37Kw
	Air volume	600m³/h
Dimension	WxDxH	2582x1500x1658mm
Weight	Host	1450Kg
	Water tank	155kg

## Standard Accessories:

1	Recirculating cooling and filter system		Capacity 200L	1set
2	Fast vise		F400L/R	1set
3	Paper tape		Width 0.55mx100m	2pc
4	Oil mist separator		3x380V, 370W, 600m3/h	1pc
5	Wrench		46 open end wrench	2pc
6	Outlet pipe		80mm inner diameter steel wire hose	1pc
7	Inlet pipe		High pressure hose with an inner diameter of 19mm	1pc
8	Water gun			1pc
9	Abrasive Wheels		A605040 (508*50.8*4.0) A505040 (508*50.8*4.0)	5 pcs each

## Optional Accessories:

1	Large Vertical clamp		H400
2	Padding block for vertical vise		H400-BLOCK
3	Extend arm		H400-EX

## Related Consumables & Accessories:



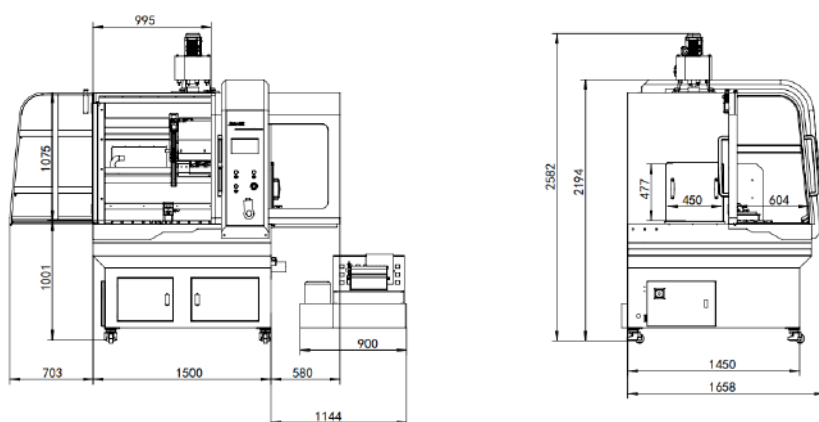
Abrasive Wheels



Coolant

## Dimension Figure

Unite: mm



## Purchase list:

### Abrasive Wheels:

01.01.190	A60 Alumina Abrasive Wheels (Very hard ferrous metals)	A605010	508*50.8*4.0mm	10pcs
01.01.290	A50 Alumina Abrasive Wheels (Medium hard ferrous metals)	A505040	508*50.8*4.0mm	10pcs
01.01.390	A30 Alumina Abrasive Wheels (Soft ferrous metals)	A305040	508*50.8*4.0mm	10pcs
01.02.490	S20 Abrasive Cut Off Wheels (Non-ferrous soft metals)	S205040	508*50.8*4.0mm	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



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