

# *Beta-500*

## *Automatic Cut-off Machine*

CUTTING



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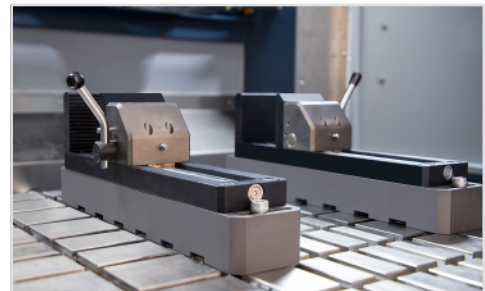
TROJAN (SUZHOU) MATERIAL TECHNOLOGY CO.,LTD

# Beta-500 Automatic Cut-off Machine

Beta-500 is a fully automatic large-scale vertical cutting machine, suitable for cutting various metal materials, ceramics, quartz glass and petrographic samples. It can realize fully automatic, multi-stage automatic cutting with different thicknesses and different angles of XYZR four axes (the R-axis is an optional function).

## Features:

- ◆ XYZR four-axis fully automatic control. R-axis (rotation/angle) is optional.
- ◆ It can realize multi-segment continuous cutting on the X-axis (R-axis), with equal thickness (angle), or at any specified position;
- ◆ Extra large work surface and cutting chamber; work surface size reaches 728x832mm. The cutting chamber size reaches 1248x1220mm and the height is 900mm.
- ◆ Can clamp ultra-long specimens that run through the left and right sides;
- ◆ Simulation function of cutting route;
- ◆ Equipped with a wireless handwheel to control the movement of four axes to achieve rapid tool setting;
- ◆ The one-piece cast aluminum base and reliable powder coating ensure durability and no rust;
- ◆ 10-inch large touch screen;
- ◆ Floor standing water tank with large volume, easy to remove for cleaning;
- ◆ Equipped with magnetic separator and paper tape filtration system;
- ◆ Laser tool setting device.

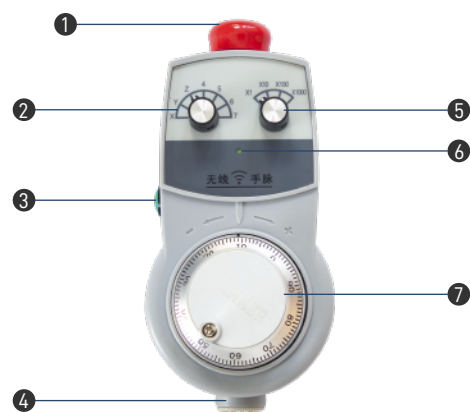


## Control Panel Introduction:



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

## Wireless handwheel:










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

## Technical Specifications:

Model		Beta-500
Cutting blade	Speed	500~2500rpm
	Diameter	Φ508mm
	Center hole	Φ32mm
Electricity	import	3x380V/50Hz+Neutral+Ground
	Cutting power	15KW(S1)
Cutting capacity	Maximum diameter	Φ190mm
	Maximum square section	190x360mm
Smart cutting	Cutting mode	Vertical cutting/horizontal cutting/segment cutting/continuous cutting/angle cutting (optional)
	Feeding method	Constant speed cutting/ Pulse cutting/ Automatic speed control
Travel		Z-direction (vertical): 330mm, Y-direction (front-back): 500mm; X-direction (left-right): 550mm
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	30um
Oil mist collector (optional)	Power	0.37Kw
	Air volume	600m <sup>3</sup> /h
Weight	Host	1450Kg
	Water tank	155kg

## Technical Specifications:

1	Filtration and cooling systems		200L, contains water pump, paper tape filtration and magnetic filtration system	1set
2	Fast lock vise (right and left side)		One on each side	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	Coolant		TJ-1410,(2000ml)	1 bottle
10	Cutting blade		A605040 (508*50.8*4.0) A505040 (508*50.8*4.0)	10 each

## Optional accessories:

1	Vertical Fixture			1pc
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## Related Consumables & Accessories:



Cut Off Wheels



Cutting Coolant



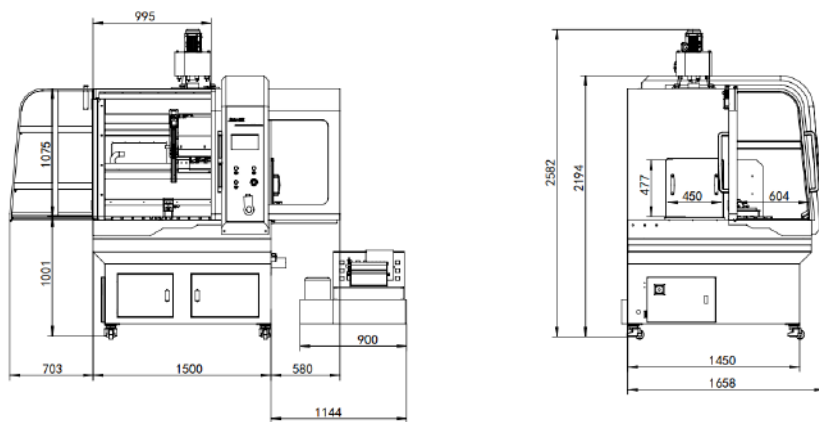
Vertical Clamp-100



Fast lock vise

## Dimension Figure

Unite: mm



## Purchase list:

### Cut Off Wheels:

01.01.190	A60 Cut Off Wheels(Extremely Hard)	A605010	508*50.8*4.0mm	10pcs
01.01.290	A50 Cut Off Wheels(Medium Hard)	A505040	508*50.8*4.0mm	10pcs
01.01.390	A30 Cut Off Wheels(Soft)	A305040	508*50.8*4.0mm	10pcs
01.02.490	S20 Cut Off Wheels(Soft Non-Ferrous)	S205040	508*50.8*4.0mm	10pcs

### Cutting 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 Cutting Fluids Preservatives	1L/5L



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