

Beta-300 Pro Automatic Abrasive Sectioning Machine

SECTIONING

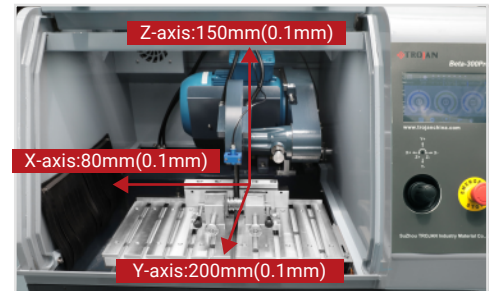


2024
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TROJAN (SUZHOU) MATERIAL TECHNOLOGY CO.,LTD

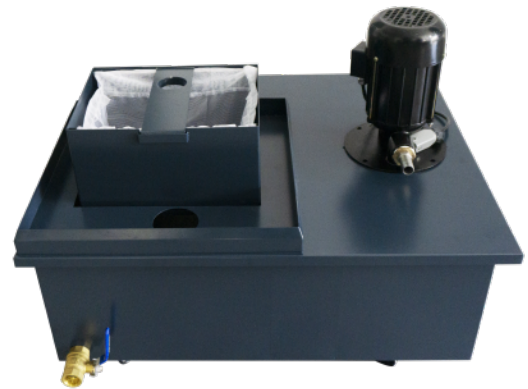
Beta-300 Pro Automatic Abrasive Sectioning Machine

Beta-300Pro is a fully automatic vertical metallographic cutting machine. It utilizes advanced intelligent control technology with full touchscreen operation. Equipped with a three axis industrial joystick and laser positioning, it features a larger cutting worktable for easier operation. The machine integrates various cutting methods and techniques, ensuring excellent cutting surfaces even for heavy-duty, large cross-section samples. Its intelligent cutting modes offer the highest level of repeatability.



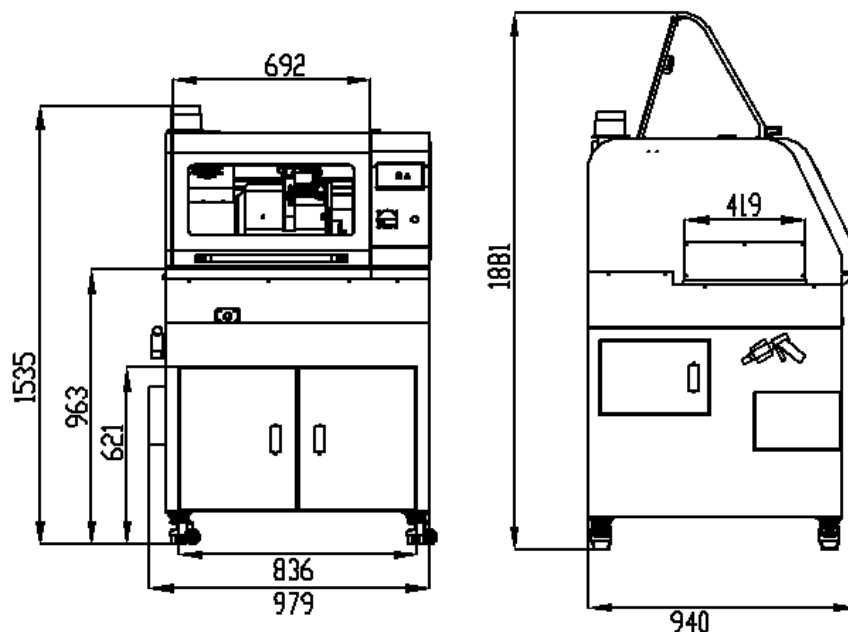
Features:

- ◆ Featuring a 7-inch high-definition LCD touchscreen interface, capable of saving and customizing up to 20 sets of cutting parameters;
- ◆ X-Y-Z three-axis linkage enables fully automatic cutting, with laser alignment for precise positioning of the cutting location;
- ◆ Multiple cutting modes to meet the cutting requirements of various samples;
- ◆ Standard fast vise enables fast and secure sample clamping, with various optional fixtures available;
- ◆ Adjustable cutting force with intelligent optimization based on material hardness and preset parameters;
- ◆ Pulse cutting function with automatic speed adjustment for superior cutting performance;
- ◆ Automatic judgment of cutting end function;
- ◆ Quick positioning function.



Dimension Figure

Unit: mm











Technical Data:





Model		Beta-300 Pro
Cutting blade	Rotation speed	800~3500rpm
	Diameter	Φ300mm
	Arbor size	32mm
Electronic	Input	3x380V/50Hz+ground line
	Rated power	Total power 5.0KW, Motor Power 4KW
Safety	Emergency stop	Press to cut off the control circuit and main power
	Security door lock	When the door is open, it cannot be started; when it is running, the door is locked
	Rocker	Requires two-hand control
	Overload protection	Automatic shutdown for overload current
	Cutting Force	Monitoring cutting force, automatic stop when exceeding the set value
Control	Display / Control	7-inch touchscreen
	Z-axis feed	Automatic : 0.1~5mm/s
	Y-axis feed	Automatic : 0.1~5mm/s
	X-axis feed	Electric control rocker
Cooling	Capacity	80L
	Dimension	720x550x550mm (WxDxH, with paper pump)
	Connector	Inlet: DN15, High Pressure pipe of Φ19 inner diameter; outlet: 1.5", Flexible pipe of Φ38 inner diameter
	Water way	Two, flow: 50L/Min
Intelligent Cutting	Cutting Mode	Vertical/ Horizontal/Vertical + Horizontal
	Speed control mode	Constant speed / Pulsing/ Automatic speed adjustment
	Laser tool setting	Equipped
	Automatic tool setting	Equipped
	Automatic cut off	No need to set cutting depth, automatic stop after cut off
Cutting Capacity	Max. diameter	Φ110mm
	Max. Square section	80x200mm
Workbench	Dimension	280x536mm
	T-slot	12mm
	Travel	X-axis: 80mm Y-axis: 200mm Z-axis: 150mm
Dimensions	W×D×H	979×940×1535mm(Closed cover), 979×940×1881mm(open cover)
Weight	Beta 300 pro	376kg
	Water tank	34kg

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

Standard Accessories:

1	Recirculating cooling and filter system		Capacity: 80L, flow: 100L/Min	1set
2	Handlebar style fast-lock		S300L/R	1set
3	Open spanner		30 Open spanner	1pc
4	Allen key		8mm Allen key	1pc
5	Cutting blades fix		Lock nut 1pcs+Fixing piece 2pcs	1set
6	Inlet pipe		Φ19mm Rubber pipe 1.5m	1pc
7	Outlet pipe		Φ38mm steel wire pipe	1pc
8	Abrasive Wheels		A603020 (300*32*2.0) A503020 (300*32*2.0)	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:

01.01.160	A60 Alumina Abrasive Wheels (Very hard ferrous metals)	A603020	300*32.0*2.0mm	10pcs
01.01.260	A50 Alumina Abrasive Wheels (Medium hard ferrous metals)	A503020	300*32.0*2.0mm	10pcs
01.01.360	A30 Alumina Abrasive Wheels (Soft ferrous metals)	A303020	300*32.0*2.0mm	10pcs
01.02.460	S20 Abrasive Cut Off Wheels (Non-ferrous soft metals)	S203020	300*32.0*2.0mm	10pcs

Diamond/CBN Cut Off Wheels:

01.03.570	DP Electroplated Diamond Cut Off Wheels	DP303220	300*32.0*2.0mm	1PC
01.04.670	DR Resin-Bonded Diamond Cut Off Wheels	DR303220	300*32.0*2.0mm	1PC
01.05.770	DM Metal-Bonded Diamond Cut Off Wheels	DM303220	300*32.0*2.0mm	1PC
01.10.970	CBN-M BoronNitride Cut Off Wheels	CBN-M303220	300*32.0*2.0mm	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



TROJAN (SUZHOU) MATERIAL TECHNOLOGY CO.,LTD

Tel: +86-512-65283666

Email: sales@trojanchina.com

Web: www.trojanworld.com

Add: Building 26, No.228 Gongtang Road, Luzhi Town, Wuzhong Suzhou, China

