



BANBROS ENGINEERING PVT. LTD.

The Precision Measurement People

AUTOMATIC METALLOGRAPHIC SAMPLE GRINDING POLISHING MACHINE

BMP-1AT

- **VALUE**
- **VERSATILITY**
- **PERFORMANCE**



BMP-2AT



**DESCRIPTION:**

In the process of metallographic sample preparation, the grinding and polishing of the sample is an indispensable process. After the sample is ground and polished, a bright mirror-like surface can be obtained. The metallographic sample grinding and polishing machine adopts a frequency converter to adjust the speed, which can make the speed of the grinding and polishing disc infinitely adjustable between 50-1000r/min. The grinding and polishing of the sample can be completed by replacing the metallographic sandpaper and polishing fabric. It is especially suitable for metallographic laboratories in factories, colleges and research institutes, and is an excellent equipment for grinding polishing metallographic samples.

FEATURES:

- Electronic lock head, press one key can lock the head, easy operation.
- One machine can do the rough grinding, fine grinding, rough polishing and fine polishing of metallographic specimens.
- Double working plates $\phi 250\text{mm}$, double times improved working efficiency.
- Pneumatic version automatic grinding head, one time can process 6 pieces of samples.
- Integral moulding of high-strength FRP material shell, sturdy and durable, never rusty.
- The faucet adopts copper material, which has good corrosion resistance.
- Stepless speed design, low noise, stable working performance. Can meet meet a variety of needs.
- With water cooling system to prevent damage to the metallographic structure due to overheating of the sample. And can get better metallographic surface easily.

TECHNICAL SPECIFICATIONS:

Model No.	BMP-1AT	BMP-2AT
Disc Number	Single Disc	Double Disc
Grinding Polishing Plate Diameter	$\phi 250\text{mm}$ (optional $\phi 230\text{mm}$, 300mm)	
Sample Number	6 pieces $\phi 30\text{mm}$ sample	
Disc Rotate Speed	50-1000r/min (stepless adjustable) and 3 constant speed (300rpm, 600rpm, 900rpm); Support clockwise direction and anticlockwise direction rotation	
Automatic Grinding Head	5-150 rpm (stepless speed)	
Sample Holding Type	Single point pressure loading	
Force Loading	Pneumatic (should work with air compressor)	
Loading Force Range	0-0.7Mpa (work pressure should at 0.1- 0.4MPa)	
Motor Power	1.1KW	
Machine Size & N/W	455*785*700mm, 75kg	735*570*590mm, 100kg
Package Size & G/W	950*680*870mm, 95kg	920*820*840mm, 120kg
Power Supply	Single phase, AC 220V 50Hz	
Working Environment	Stable, vibration-free work table, ambient temperature 5°C - 30°C ; relative humidity <85%, the surrounding no corrosive gases and conductive dust-free	

**STANDARD ACCESSORIES:**

Name	Q'ty	Name	Q'ty
Grinding Plate Φ250 (On Machine)	1pc of BMP-1AT; 2pcs of BMP-2AT	Water Retaining Ring (On Machine)	1pc of BMP-1AT; 2pcs of BMP-2AT
Abrasive Paper Φ250	2pcs	Pressure-Resistant Tube Φ8	1pc
Polishing Cloth Φ250	2pcs of BMP-1AT; 8pcs of BMP-2AT	Waterproof Ring	1pc of BMP-1AT; 2pcs of BMP-2AT
Oil-Water Separator	1pc	Water Inlet Pipe + Water Outlet Pipe	1pc + 1pc
Magnetic Disc	1pc of BMP-1AT; 2pcs of BMP-2AT	Anti-Stick Disc	3pc of BMP-1AT; 5pcs of BMP-2AT
Level Adjust Screw	4pcs	Power Cord	1pc
Anti-Dust Lid	1pc of BMP-1AT; 2pcs of BMP-2AT	Manual & Certificate	1 pc

* Due to continuous product development, Image & specification can be upgrade.