



BANBROS ENGINEERING PVT. LTD.

The Precision Measurement People

AUTOMATIC METALLOGRAPHIC SAMPLE GRINDING POLISHING MACHINE



BGPM-3A

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

BGPM-3B



**DESCRIPTION:**

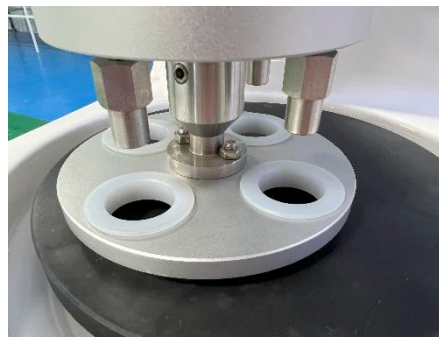
In the process of metallographic sample preparation, the grinding and polishing of the sample is an indispensable process. After the sample is ground and polished, a bright mirror-like surface can be obtained. The metallographic sample grinding and polishing machine adopts a frequency converter to adjust 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:

- One machine can do the rough grinding, fine grinding, rough polishing and fine polishing of metallographic specimens.
- Double working plates ϕ 250mm, double times improved working efficiency.
- Pneumatic version automatic grinding head, one time can process 6 pieces of samples (4 pieces of BGPM-3A).
- 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. We can 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 SPECIFICATION:

Model No.	BGPM-3A	BGPM-3B
No. of polishing disc	Single disc	Double disc
Grinding polishing plate diameter	ϕ 250mm (optional ϕ 203mm, 230mm)	ϕ 250mm (optional ϕ 230mm, 300mm)
Sample number	4 pieces ϕ 30mm sample	6 pieces ϕ 30mm sample
Disc rotate speed	50-1000r/min (stepless adjustable) and 4 constant speed (400rpm, 600rpm, 800rpm, 1000rpm)	
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 (factory setting is less than 0.2MPa)	
Motor power	0.9KW	
Machine size (L*W*H) & N/W	455*785*700mm, 70kg	790*740*700mm, 90kg
Package size & G/W	950*680*870mm, 90kg	920*820*840mm, 115kg
Power supply	Single phase, AC 220V 50Hz	



Special design rubber rings can work together with the sample holder to suitable test different size samples

STANDARD ACCESSORIES:

Item Name	Q'ty	Item Name	Q'ty
Grinding plate Φ 250 (on machine)	1pc of BGPM-3A; 2pcs of BGPM-3B	Water inlet pipe + Water outlet pipe	1pc + 1pc
Water retaining ring (on machine)	1pc of BGPM-3A; 2pcs of BGPM-3B	Level adjust screw	4pcs
Abrasive paper ϕ 250	2pcs	Power cord	1pc
Polishing cloth ϕ 250	2pcs of BGPM-3A; 8pcs of BGPM-3B	Anti-dust lid	1pc of BGPM-3A; 2pcs of BGPM-3B
Waterproof ring	1pc of BGPM-3A; 2pcs of BGPM-3B	Magnetic disc	1pc of BGPM-3A; 2pcs of BGPM-3B
Pressure-resistant tube ϕ 8	1pc	Anti-stick disc	3pcs of BGPM-3A; 5pcs of BGPM-3B
Oil-water separator	1pc	Manual	1pc
Certificate	1pc		