

Spring Mechanical Pressure Semi-automatic metallographic sample polishing machine



Model: HMPB-1

Product Overview:

In the process of metallographic sample preparation, the grinding and polishing of the sample is an essential process. After the grinding and polishing of the sample, a bright surface like a mirror can be obtained.

Iqualitrol HMPB-1 semi-automatic metallographic sample grinding and polishing machine adopts high-end touch screen, and equips with electric grinding and polishing head. It can grind and polish four samples at one time.

Iqualitrol HMPB-1 has the characteristics of stable rotation, free hands, low noise, convenient operation, and high efficiency. The rotational speed of the grinding and polishing plate is infinitely adjustable between 50-1000r/min.

The grinding and polishing process of the sample can be completed by replacing the metallographic abrasive paper and polishing fabric, which shows a wider application.

The bottom shell adopts integral plastic absorption, with novel appearance, and has its own cooling device, which can cool the sample during grinding and polishing to prevent damage to the metallographic structure due to overheating of the sample.

Iqualitrol HMPB-1 is applicable to the metallographic laboratory of factories, colleges and universities, and scientific research institutions, and is an ideal equipment for grinding and polishing metallographic samples.

Main functions and features:

1. The shell adopts high-end ABS integrated molding, with novel appearance and high-end atmosphere.
2. The faucet is made of 304 material, which is durable and has good corrosion resistance.
3. Touch screen display control, clear and intuitive interface, easy to operate.
4. With automatic cleaning function, the sump can be cleaned automatically to keep the sump clean (optional).
5. Stepless speed regulation plus eight-shift fixed speed, convenient and fast to meet various needs.
6. No air source is required for sample pressurization, and elastic loading and pressure are adjustable.
7. Countdown function, the time can be set arbitrarily, and the machine will be shut down when the time comes.

8. The grinding chuck can rotate clockwise or counterclockwise to meet different needs.

9. The grinding chuck and grinding head can be single-acting and linked to meet the requirements of manual and automatic one-key switching.

10. One-click automatic start function. After the sample is put into the clamping plate, click Start, and the grinding head and grinding plate will run automatically

11 Automatic centering prevents grinding and polishing of multiple surfaces.

Technical Parameter:

Grinding disc diameter	Standard configuration ϕ 250mm (customized for other specifications)
Grinding disc speed	50-1000r/min (stepless speed)
Grinding disc speed	8 steps Fixed speed
Rotation direction of abrasive disc	Forward and reverse
Grinding head speed	60RPM
Pressure mode of grinding head	Spring mechanically pressurized
Clamping quantity	4
Countdown function	The time can be set arbitrarily and the machine will stop automatically
Power Supply	Voltage: 220V Frequency: 50HZ
power	0.5KW
Overall dimension	430X730X530m
weight	60Kg

Configuration list:

Product accessories	Quantity unit	Quantity	explanatory note
Grinding disc	pc	1	Installed on the device
Water retaining ring	Pc	1	Installed on the device
Pressure ring	pc	1	Installed on the device
Water abrasive paper	PC	1	Φ 250mm
Polished fabric	PC	1	Φ 250mm
Water inlet pipe	Pc	1	6 sub-interfaces
Outlet pipe	pc	1	Φ 32
Technical documents	1. Product manual 1 copy 2. One product certificate		