

Automatic Metallographic Specimen Grinding and Polishing Machine



Model: HMP-2C

Product overview:

Iqualitrol HMP-2C is a double-disc automatic grinding and polishing machine integrating pre-grinding, grinding and polishing. It is controlled by a high-end touch screen, the grinding and polishing plate is driven by a three-phase silent motor, and a V-belt is used for transmission.

Iqualitrol HMP-2C grinding head is driven by a stepping motor and a synchronous belt is used for transmission.

Iqualitrol HMP-2C has the characteristics of stable rotation, low noise, safety and reliability; Adjust the rotation speed of the grinding head and the grinding and polishing plate, set the pressure and sample preparation time by yourself, to adapt to different needs; built-in lighting system, convenient to take and place the sample; built-in cooling device, can cool the sample during grinding, In order to prevent damage to the metallographic structure due to overheating of the sample.

Iqualitrol HMP-2C is an ideal choice for metallographic sample preparation equipment in factories, scientific research units and laboratories of universities and colleges.

Main functions and features:

1. Super cost-effective, stable quality, complete functions, DIY can be customized according to different requirements of customers. The shell is made of ABS blister, which is novel in appearance and anti-corrosion.
2. The faucet adopts all-copper chrome plating process, which has good corrosion resistance
3. Using touch screen control and display, easy to operate, clear and intuitive
4. The grinding head is automatically locked with electromagnetic clutch, which is convenient and quick
5. Support stepless speed regulation or four-speed speed regulation mode, making speed regulation more convenient
6. Support single action and linkage start of grinding and polishing plate and grinding and polishing head, which is more flexible to use
7. More than 10 sets of grinding and polishing process parameters can be stored for quick recall;
8. The sample chuck is automatically loosened and tightened, with the internal lighting system, convenient to take and place the sample
9. Equipped with fast sample clamping discs, which can be replaced with clamping discs of different diameters;

13. The whole machine adopts three-phase mute motor and stepping motor, with stable rotation, low noise and long service life

14. The emergency stop button can stop the operation quickly and conveniently, which is safer

15. Double-disc design, sample preparation efficiency is more efficient.

Technical parameters:

Product model	HMP-2C
Number of grinding discs	2
Diameter of grinding and polishing disc	254mm
Rotation speed of grinding and polishing plate	Stepless speed regulation 100-1000r/min Four-speed speed regulation 300 500 800 1000r/min
Rotation direction of grinding and polishing disc	Two-way forward and reverse
Rotation direction of grinding head	clockwise
Rotating speed of grinding head	0—120r/min
Grinding head motor	Stepping motor 200W
Grinding head locking method	Automatic
Timing adjustable time	0-99min
Pressure method Center	Single point pneumatic pressure
Pressurized pressure	0-0.5Mpa(Commonly used 0.2-0.3Mpa)
Number of specimen clamps	4pcs
Clamping sample thickness	8-22mm (customizable)
Specimen clamping specifications	Standard $\Phi 30$, ($\Phi 22$ $\Phi 30$ $\Phi 45$ any specifications are optional, special specifications can be customized)
power supply	220V 50Hz
Appearance size	755*660*710mm
weight	100kg

Configuration list:

Product accessories	unit	number	Remark
Grinding disc $\Phi 254$	piece	2	Installed on the device
Water retaining ring	piece	2	Installed on the device
Pressure ring	piece	2	Installed on the device
Anti-stick disk	piece	3	$\Phi 250\text{mm}$
400 mesh adhesive sandpaper	piece	4	$\Phi 250\text{mm}$
800mesh adhesive sandpaper	piece	4	$\Phi 250\text{mm}$
1200mesh adhesive sandpaper	piece	4	$\Phi 250\text{mm}$
Adhesive polishing cloth	piece	4	$\Phi 250\text{mm}$
Inlet pipe	piece	1	6 points interface
Outlet pipe	piece	1	$\Phi 32$
Technical documents	1 copy of product manual	1 copy of product certificate	