

## Automatic metallographic sample grinding and polishing machine by Central pressure loading

### Model: HMP-1B



#### Product overview:

Iqualitrol HMP-1B is a single-disc automatic grinding and polishing machine integrating pre-grinding, grinding and polishing. It adopts single chip microcomputer technology to control through touch screen, the grinding and polishing disc is driven by DC brushless motor, V-belt is used for transmission, the grinding head is driven by stepping motor, and the synchronous belt is used for transmission.

Iqualitrol HMP-1B has the characteristics of stable rotation, low noise, long life, safety and reliability; The rotation speed of the grinding head and the grinding/ polishing plate can be set according to the user's needs, set the pressure, set the sample preparation time, and adapt to different needs;

It comes with a lighting system, which is convenient to take and place samples; cooling device can be used during grinding to cool the sample to prevent damage to the metallographic structure due to overheating of the sample.

#### Configuration list

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

**Technical parameters:**

Product model	HMP-1B
Number of grinding discs	1
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	Clockwise and Anticlockwise
Grinding disc motor power	1.1KW
Rotation direction of grinding head	Clockwise
Rotating speed of grinding head	0—150r/min
Grinding head motor	Stepping motor 200W
Grinding head locking method	automatic
Timing adjustable time	0-99min
Pressure adjustment method	Automatic pressure regulation inside the system
Pressurization method	Center pneumatic pressurization
Pressurized pressure	0-150N (common range 40-120N)
Number of specimen clamps	6pcs
Clamping sample thickness	8-22mm (Can be customized)
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
Total power	1.8KW
Dimensions	475*660*710mm
weight	80kg