

MP-1DA Single Disk Intelligent Fully Automatic Grinding and Polishing Machine



Features and benefits:

iqualitrol MP-1DA a single disc desktop auto grinding polishing machine with three modes: intelligent, semi-automatic, manual.

PLC intelligent control system, 7-inch high-definition touch screen, and curve start mode, adopts 304 stainless steel shell, suitable for pre grinding, grinding, polishing on metallographic samples.

MP-1DA achieves precise positioning of the grinding and polishing head left and right through pneumatic operation.

The servo motor is electrically lifted, and 8 samples are mounted simultaneously, with a single plate $\Phi 200\text{mm}(8\text{'})$ Grinding and polishing disc, with stepless speed regulation of 50~1500rpm and a fixed speed of 250/500/750/1000/1250/1500r/min in six gears, with adjustable forward and reverse rotation, pneumatic single point pressurization, adjustable pressure, and continuously adjustable grinding and polishing head speed of 20~120rpm.

All actions are automatically controlled by the program, which can be customized and programmed. The program allows the staff to freely input operating parameters according to usage conditions. Except for the manual operation of sample clamping, all other movements of this grinding and polishing machine are automatically operated by the machine, greatly improving work efficiency and stability.

Technical Specifications:

model	MP-1DA
Body form	Desktop
Clamping quantity	$\Phi 30\text{mm} * 8$ pieces
Pressurization method	Pneumatic/single point
Single point pressure	0-50N
Operation mode	Intelligent mode/manual mode
control system	PLC control system/7 'high-definition touch screen
Grinding speed	50-1500 rpm (intelligent speed regulation)
Grinding head speed	20-120 rpm (intelligent speed regulation)
Grinding parameters	Store 100 grinding and polishing schemes
Abrasive addition	Dual channel intelligent automatic spraying
Feeding interval	Intelligent setting, minimum feeding interval of 1s
Spraying time	Intelligent setting, minimum spraying time of 1 second
Sample grinding time	0-9999 seconds X2
principal axis	Electric lifting
Grinding head motor	100W DC brushless motor
Grinding disc motor	300W DC brushless motor
Sample block diameter	$\Phi 8-40\text{mm}$ (special specifications and sizes can be optional)