

Advanced Automatic Grinding-polishing Machine

Central load + Single point loading + Electronic locks

eGP-2D

- Central load + Single Point load
- Electronic lock of grinding head
- Automatic cleaning function
- Water cooling + lighting system
- Stepless speed 100-1400r/min

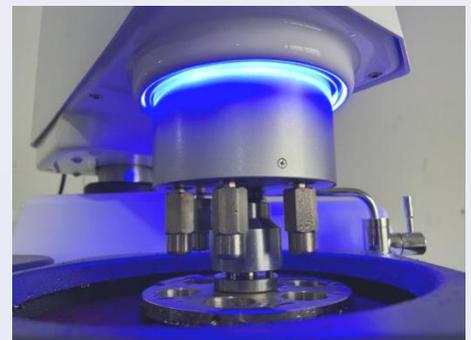


eGP-2D is a advanced fully automatic metallographic grinding and polishing machine integrating pre-grinding, grinding and polishing. It is controlled by a touch screen, the grinding and polishing plate is driven by a DC brushless motor, and the grinding head is driven by a stepping motor. The machine has the characteristics of stable rotation, low noise, safety and reliability. Users can set the rotational speed, pressure, sample preparation time, etc. of the grinding head and grinding and polishing plate through the simple operation of the touch screen according to their needs to meet different needs.

The machine has its own lighting system, which is convenient for taking and placing the sample, and has a cooling device, which can cool the sample during grinding to prevent the metallographic structure from being damaged due to overheating of the sample. It is especially suitable for metallographic laboratories in factories, colleges and research institutes, and is the best choice for grinding and polishing metallographic samples.

Product Feature:

1. Super cost-effective, stable quality, complete functions, DIY can be customized according to different requirements of customers.
2. Double working plates, standard plates dimension 254mm, 50% larger than normal grinding - polishing machine
3. One time can polishing 6pieces of diameter 30mm samples.
4. The shell is made of high-end ABS, which has a novel appearance and high-end atmosphere.
5. The touch screen display control, the interface is clear and intuitive, and the operation is simple.
6. The testing time, rotating speed and pressure can be set.
7. The grinding head is automatically locked with electromagnetic clutch, which is convenient and quick operation.
8. Stepless speed regulation 100-1400r/min or four constant speed regulation (customer can define three common speeds for pre-grinding, grinding and polishing).
9. It can store 100 groups of grinding and polishing programs for quick recall.
10. The magnetic disc design supports quick disc change, and the replacement of sandpaper and polishing cloth is more efficient.



11. The free-rotating design of the sample chuck, with the internal lighting system, is convenient for taking and placing the sample.
12. Built-in nozzle, sewage collection tank, automatic cleaning.
13. The whole machine adopts DC brushless and stepper motor, with stable rotation, low noise and long life.
14. The base is made of aluminum alloy material, which is cast in one piece, light in weight, good in shock absorption, and anti-corrosion.

Technical Specifications

Model	eGP-2D
Working plate	Standard ϕ 254mm with magnetic disc; 2.2KW
Speed of working plate	100-1400 r/min stepless speed Support clockwise / anticlockwise direction rotating
Four level constant speeds (stepless speed)	V1=300r/min, V2=500r/min, V3=800r/min, V4=1000r/min (each speed can be set between 100-1400r/min)
Grinding head speed	0-200r/min
Grinding head power	0.2kw (clockwise rotating)
Grinding head lock mode	Automatic electronic lock
Sample holder	Standard ϕ 30mm 6 pieces of samples
Automatic mode	Can be programmed speed, running time and grinding wheel steering switch, with timing function
Samples pressure range	Center load: 0-150N (Commonly used 40-120N) Single point load: 0-90N
Pressure Loading type	Single point pneumatic pressurization + Central Pressure
Pressure adjustment	Digital voltage regulation
Timing function	0-99 minutes
Power supply	AC220V, 50/60Hz, 2.8KW

Dimension / weight	770X730X700mm	100kg
Packing size	840X810X800mm	118kg

Safe & Durable design

eGP-2D was design and produced to meet the needs of metallurgical labs and Industrial labs. With Urgency stop button, more safe and easy operate; All the machine will be continuous tested by our inspect engineers, ensure machine delivery with zero defect

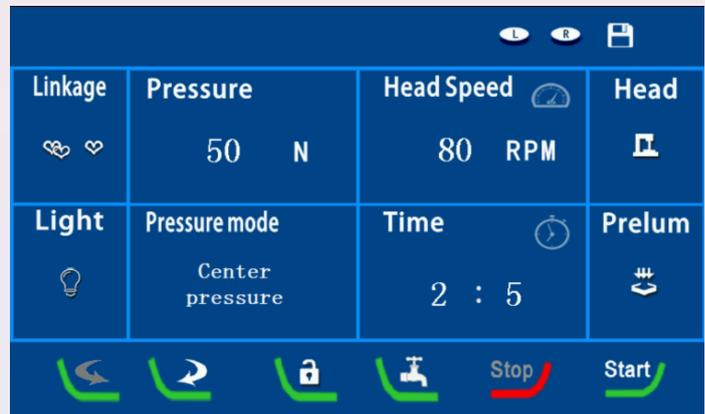


Rinse Function

Start processing work, water system can be flow in, greatly protected the surface of sample, ensure get high quality specimen

Color touch screen & Menu design

eGP-2D was design with 7" touch screen with menu structure design. All the working parameters can be done on the screen



Programmable design & widely rotating speed

eGP-2D system can store 100 groups testing programs, no need setting programs every time, greatly improved working efficiency;

DC brushless motor & Stepless motor drive, working disc rotating speed can be set from 100-1400r/min; Automatic grinding head speed range 0-200r/min.



Central pressure load + Single Point load

One time can process 6 pieces of samples

Supply all kinds of polishing cloth, abrasive paper and sample holders: optional



Standard Accessory:

Item	Qty	Item	Qty
Grinding plate 254mm	2	Polishing cloth with PSA (250mm)	4
Sandpaper with PSA 400#	4	Sandpaper with PSA 800#	4
Sandpaper with PSA 1200#	4	Waterproof ring (on machine)	2
Anti-stick disc (250mm)	3	Magnetic disc (250mm)	2
Water inlet 0.75''	1	Power line connector	1
Water outlet 32mm	1	Manual Book	1
Technical documents: quality certificate, warranty card			