



GenGrind FA-IC 250S Single Wheel Fully Automatic Grinder & Polisher – Variable Speed



ULTIMATE USER-FRIENDLINESS



LEADING DEPENDABILITY AND RELIABILITY



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Description

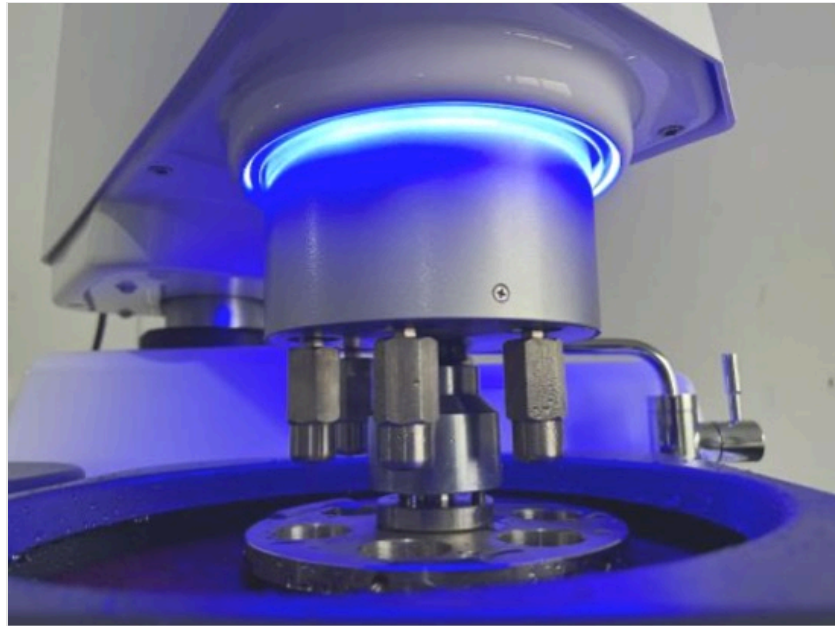
Introducing the GenGrind FA-IC 250S Single Wheel Polisher and Grinder, an advanced and fully automatic [metallographic grinding and polishing](#) machine. This state-of-the-art equipment seamlessly integrates pre-grinding, grinding, and polishing processes to deliver exceptional results.

Controlled through a user-friendly touch screen interface, the GenGrind FA-IC features a DC brushless motor driving the grinding and polishing plate, while the grinding head is efficiently powered by a stepper motor. This design ensures stable rotation, low noise levels, and utmost safety and reliability during operation.

The machine allows users to customize various settings such as rotational speed, pressure, and sample preparation time according to their specific requirements. These adjustments are effortlessly made through the intuitive touch screen, enabling users to cater to different needs with ease.



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Incorporating its own lighting system, the GenGrind FA-IC provides convenient sample handling and placement. Additionally, its cooling device effectively prevents overheating during grinding, safeguarding the integrity of the metallographic structure. This feature is particularly beneficial in preserving the quality of metallographic samples.

Whether in metallographic laboratories within factories, colleges, or research institutes, the GenGrind FA-IC Single Wheel Polisher and Grinder stands as the ultimate choice for precision grinding and polishing applications. Its cutting-edge capabilities and reliable performance make it the preferred solution for achieving impeccable metallographic results.



GenGrind FA-IC 250S Features

- Super cost-effective, offering outstanding value for money.
- Single working plate with standard dimensions of 254mm, providing 50% more working area compared to regular grinding and polishing machines.
- Capable of polishing 6 pieces of 30mm diameter samples in a single operation, maximizing productivity.
- High-end ABS shell, giving it a sophisticated and modern appearance.
- User-friendly touch screen display for clear and intuitive interface, ensuring simple operation.
- Adjustable testing time, rotating speed, and pressure to suit specific needs.
- The grinding head is equipped with an electromagnetic clutch for convenient and quick operation, automatically locking when needed.
- Offers stepless speed regulation from 100 to 1400rpm or four constant speed options, with the ability to define three common speeds for pre-grinding, grinding, and polishing.
- Allows storage of up to 100 groups of grinding and polishing programs for quick recall and efficient workflow.
- Features a magnetic disc design for swift disc changes, enhancing the replacement of sandpaper and polishing cloth.
- Boasts a sample chuck with free-rotating design, complemented by an internal lighting system, ensuring ease in sample handling.
- Equipped with a built-in nozzle, sewage collection tank, and automatic cleaning, streamlining maintenance tasks.
- Utilizes DC brushless and stepper motors for stable rotation, low noise levels, and prolonged machine life.
- The base is made of a single-piece aluminum alloy material, offering lightweight construction, excellent shock absorption, and corrosion resistance.



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The control display features a blue background with white text and icons. At the top left is the 'NEXTGEN MATERIAL TESTING' logo. At the top right are a 'M' icon and a save icon. The main area is divided into a 2x4 grid of control panels:

Linkage 	Pressure 50 N	Head Speed 80 RPM	Head
Light	Pressure mode Center pressure	Time 2 : 5	Prelum

At the bottom of the screen is a row of six touch controls: a left arrow, a right arrow, a lock icon, a faucet icon, a red 'Stop' button, and a green 'Start' button.

7" Touch Screen User Friendly Control Display

NORTH AMERICA (CORPORATE HEADQUARTERS): 170-422 Richards St., Vancouver, BC, V6B 2Z4 Canada

CALIFORNIA: 3503 Jack Northrop Ave., Suite # AF937, Hawthorne, CA 90250

Toll Free: +1 (888) 332-3582 | Fax: +1 905 247-0555 | www.nextgentest.com



GenGrind FA-IC 250S Technical Specification

Model	GenGrind FA-IC 250S
Disc Diameter	250mm (10")
Speed of Working Plate	100-1400 rpm Stepless Speed Supports Clockwise and Counter clockwise directions
Four Level Constant Speeds	V1=300rpm, V2=500rpm, V3=800rpm, V4=1000rpm (each speed can be set between 100-1400rpm)
Grinding Head Speed	0-200rpm
Grinding Head Power	0.2kW (Clockwise Rotating)
Grinding Head Lock Mode	Automatic Electronic Lock
Sample Holder	Standard is 6pcs @ 30mm Dia. (other sizes available upon request - Φ 25mm, Φ 30mm, Φ 40mm or 1", 1.25", 1.5" or custom)
Automatic Mode	Can program speed, running time and grinding wheel direction with timing functionality
Sample Pressure Range	Center Load: 0-150N (Commonly used 40-120N) Individual Force: 0-90N
Pressure Loading Range	Single Point Pneumatic Pressure and Pneumatic Central Pressure
Pressure Adjustment	Digital Voltage Regulation
Timing Function	0-99 Minutes
Power Supply	110V 50/60Hz 1.8kW
Dimensions & Weight	19.7" x 30.3" x 27.6"; 176lbs / 500 x 770 x 700mm; 80kg



GenGrind FA-IC 250S Standard Configuration

- GenGrind FA-IC 250S Single Wheel Fully Automatic Grinder and Polisher with Individual and Central Pneumatic Force Control
- Grinding Plate 254mm
- Polishing Cloth with PSA (250mm) (4)
- Grinding Papers 400# (4)
- Grinding Papers 800# (4)
- Grinding Paper 1200# (4)
- Waterproofing Ring (On Machine)
- Paper Disc
- Magnetic Disc
- Water Inlet Hose 0.75"
- Water Outlet Hose 32mm
- Power Line and Operational Manual

Important note: Sample Specimen size to be indicated at time of order

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