



AUTOMATIC METALLOGRAPHIC GRINDER & POLISHER TORONPOL™ GP-2C SERIES

Automatic Metallographic Grinder & Polisher ToronPol™ GP-2C Series is a versatile, double-disk polishing machine engineered for comprehensive metallographic sample preparation, including pre-grinding, grinding, and polishing. Designed with strong power and low noise, it is both robust and durable, ensuring consistent performance. Featuring a fully automatic polishing head, it significantly reduces manual labor, making it easy to operate. This machine is an ideal choice for enterprises and research institutions requiring efficient and reliable sample preparation equipment.

APPLICATIONS

The ToronPol™ GP-2C Series is engineered to standardize and accelerate the entire metallographic sample preparation workflow. By combining a fully automated polishing head with a high-capacity dual-disk system, it eliminates operator-to-operator variability and delivers exceptional throughput and reproducibility. This makes it an essential asset for any laboratory where high-volume, standardized preparation is critical for accurate, data-driven process control and quality assurance.

This high-throughput, automated system is indispensable for the rigorous demands of:

- **Aerospace & Defense:** For high-volume process control of safety-critical components, ensuring that the preparation of samples for heat treatment verification, coating analysis, and weld inspection meets the most stringent quality and repeatability standards.
- **Primary Metals Production:** In steel and aluminum mills for rapid, continuous quality checks on material cleanliness and microstructure, providing the fast, consistent feedback necessary for real-time production process control.
- **Automotive Manufacturing:** To support statistical process control (SPC) programs through the high-throughput inspection of powertrain components, gears, and bearings, ensuring consistent quality in heat treatment and manufacturing processes.
- **Commercial Testing Laboratories:** To maximize sample throughput and ensure analytical consistency across a wide range of client materials, enabling labs to meet rapid turnaround times while delivering the highest quality, reproducible results.

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FEATURES

- Multi-functional capability: This machine performs the entire metallographic sample preparation process, including rough grinding, fine grinding, rough polishing, and fine polishing, offering a cost-effective solution for enterprises and research institutions.
- Continuous speed control: Equipped with a specialized frequency conversion system, allowing users to set three common speeds, set a timer, and automatically stop for precision and convenience.
- High-efficiency, low-noise motor and control system: Provides reliable and quiet operation.
- Precision grinding plate: Ensures a smooth, flat surface on samples for fine grinding and surface treatment.
- Centralized loading system: Simplifies use and enhances sample preparation efficiency.
- Cast aluminum chassis: Ensures stable, reliable performance.
- High-strength composite shell: Molded for durability, rust-resistant, and built to last.

TECHNICAL SPECIFICATIONS

Model	ToronPol GP-2C
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Wheel (mm)	☐ Ø203 ☒ Ø254
Speed(rpm)	100-1000rpm ☐ can be customized
Wheel	1
Motor	550W
Mode	Automatic
Speed of head(rpm)	50-200
Holder(mm)	Φ30x6 pieces, can be customized
Pressure	Individual Piston
Motor of Head	90W
Power	220V (110V is also available)
Cooling water tank	Need
Air source	Need
Paper Ring	☒
Splash guard	☒
Cover	☒
Grinding paper	☒
Polishing Cloth	☒
Diamond Spray	☐
Diamond Slurry	☐
Alumina Powder	☐
Recirculating Tank	☐

☒ Standard ☐ Option



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