



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

Automatic Metallographic Grinder & Polisher ToronPol™ GP-2CT Series is a versatile, double-disk polishing machine designed for complete metallographic sample preparation, including pre-grinding, grinding, and polishing. With strong power and low noise, this machine is built to be both durable and efficient. Its fully automatic polishing head minimizes manual effort, making it easy to operate. This reliable machine is an ideal choice for enterprises and research institutions seeking high-quality sample preparation equipment.

APPLICATIONS

The ToronPol™ GP-2CT Series is an integrated, automated system engineered to maximize both the efficiency and reproducibility of the entire metallographic sample preparation process. By combining a fully automated polishing head with a high-capacity dual-disk platform, it streamlines the workflow from coarse grinding to final polishing, delivering exceptional throughput and the highly consistent, artifact-free surfaces required for definitive microstructural analysis.

This high-throughput automated system is essential for laboratories focused on process control and efficiency in:

- **Automotive & Aerospace Manufacturing:** For high-volume quality control and process validation, enabling the rapid and repeatable preparation of samples to verify heat treatment, coating thickness, and weld integrity in safety-critical components.
- **Primary Metals Production:** In steel and aluminum mills to provide the rapid, consistent feedback on material cleanliness, grain size, and phase distribution necessary for real-time adjustments to the production process.
- **Commercial Testing Laboratories:** To maximize sample throughput and analytical consistency for a diverse range of clients, enabling labs to meet demanding turnaround times while delivering the highest quality, reproducible results.
- **Medical Device Manufacturing:** To provide the validated, repeatable preparation of implantable materials (e.g., titanium, stainless steel) and surgical instruments required to meet stringent FDA and ISO regulatory standards for quality assurance.

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FEATURES

- Multi-purpose functionality: This machine handles the entire metallographic sample preparation process, including rough grinding, fine grinding, rough polishing, and fine polishing, providing a cost-effective solution for enterprises and research institutions.
- Smooth speed control: Equipped with a specialized frequency conversion speed control system, allowing users to set three common speeds, program a timer, and enable automatic stopping.
- Efficient, low-noise motor and control system: Ensures reliable, quiet operation.
- Precision grinding plate: Designed for fine grinding and surface treatment to achieve a perfectly flat sample surface.
- Centralized loading system: Simplifies use and maximizes sample preparation efficiency.
- Cast aluminum chassis: Provides stable and reliable machine performance.
- High-strength composite shell: Molded as a single unit for durability and rust resistance.

TECHNICAL SPECIFICATIONS

Model	ToronPol GP-2CT
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Wheel (mm)	☐ Ø203 ☒ Ø254
Speed(rpm)	100-1000rpm ☐ can be customized
Wheel	2
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



TORONTECH

Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 

Phone: +971 488 19252
Email: me@torontech.com



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