



TORONTECH



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AUTOMATIC METALLOGRAPHIC GRINDER & POLISHER TORONPOL™ GP-1C

Automatic Metallographic Grinder & Polisher ToronPol™ GP-1C is a powerful, low-noise, single-disc, fully automatic machine designed for metallographic sample preparation. It seamlessly integrates pre-grinding, grinding, and polishing functions, making it a versatile solution for various preparation needs. Featuring an automated grinding and polishing head, it significantly reduces manual effort and is simple to operate. This durable, reliable machine is an excellent choice for enterprises and research institutions seeking efficient and high-quality sample preparation equipment.

APPLICATIONS

The ToronPol™ GP-1C is an automated polishing system designed to deliver superior consistency and flexibility in metallographic sample preparation. By utilizing an automated head with individual piston pressure control, it allows multiple, diverse specimens to be prepared simultaneously, each with its own optimized force. This eliminates operator variability and ensures highly reproducible, artifact-free surfaces, making it an ideal solution for laboratories with a high mix of samples and exacting quality standards.

This flexible automation is critical for precision and efficiency in:

- **Failure Analysis:** To simultaneously prepare multiple sections from a single failed component, applying the ideal, specific pressure to each unique area to preserve critical microstructural evidence for a definitive root cause investigation.
- **Materials Research & Development:** To accelerate innovation by enabling the parallel preparation of different experimental alloys or materials in a single run, ensuring each sample receives its optimal preparation parameters for accurate comparative analysis.
- **Welding Qualification:** For the efficient and consistent preparation of multiple weld coupons—such as base metal, heat-affected zone (HAZ), and fusion zone—ensuring all samples are perfectly prepared for a comprehensive and reliable evaluation of weld integrity.
- **High-Mix Quality Control:** In labs that inspect a wide variety of components (e.g., contract testing, aerospace), this system provides the flexibility to process different materials and sample sizes together, maximizing throughput without compromising on preparation quality.

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FEATURES

- Easy-to-use grinding and polishing functions
- Variable speed with three quick-access preset speed buttons
- Adjustable piston-pressure polishing head, allowing independent polishing of 1-6 specimens
- Reversible rotation control (CCW and CW)
- Universal water hose, extendable for easy basin cleaning
- Disposable plastic bowl liner for simple maintenance
- Hard-anodized aluminum working wheel for enhanced durability
- Rust-resistant, durable composite construction
- Powder-coated aluminum housing for reliable, long-lasting performance

TECHNICAL SPECIFICATIONS

Model	ToronPol GP-1C
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	Center force loading
Motor of Head	90W
Power	220V (110V is also available)
Paper Ring	●
Splash guard	●
Cover	●
Grinding paper	●
Polishing Cloth	●
Diamond Spray	○
Diamond Slurry	○
Alumina Powder	○
Recirculating Tank	○
● Standard ○ Option	



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