



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

Automatic Metallographic Grinder & Polisher ToronPol™ GP-2A Series is a fully automated solution for preparing metallographic specimens. Equipped with a powerful, variable-speed drive, it supports a full range of preparation steps with ease. Its adjustable, individual piston polishing heads allow independent polishing of 1 to 6 specimens simultaneously, offering flexibility and efficiency for various sample preparation needs.

APPLICATIONS

The ToronPol™ GP-2A Series is an advanced automated system designed to provide maximum flexibility and throughput in metallographic sample preparation. Its key feature, the individual piston pressure heads, allows multiple, even dissimilar, specimens to be prepared simultaneously, each with its own optimized force. This eliminates operator variability and ensures highly reproducible, superior-quality surfaces, making it the ideal solution for laboratories with diverse and demanding workloads.

This highly flexible automation is critical for efficiency and precision in:

- **Commercial Testing Laboratories:** To dramatically increase sample throughput and accommodate a wide variety of materials from diverse clients, ensuring rapid turnaround times without compromising the quality and consistency of preparation.
- **Materials Research & Development:** For the parallel preparation of multiple experimental alloys or process variations, allowing researchers to apply the ideal pressure to each unique sample, thereby accelerating development cycles and ensuring accurate comparative analysis.
- **Failure Analysis:** To simultaneously prepare a failed component alongside an exemplar or different sections of a large part, applying customized force to each specimen to achieve an optimal, artifact-free surface for definitive root cause investigation.
- **Aerospace & Medical Device QC:** For quality labs that inspect a high mix of components (e.g., different fasteners, welds, implant materials), this system provides the flexibility to efficiently process varied sample types while maintaining the stringent consistency required for regulatory compliance.

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FEATURES

- User-friendly grinding and polishing functions
- Variable speed settings with three quick-access preset buttons
- Adjustable piston-pressure polishing head, capable of polishing 1-6 specimens independently
- Reversible rotation control (CCW and CW)
- Extendable, universal water hose for easy basin cleaning
- Disposable plastic bowl liner for convenient maintenance
- Hard-anodized aluminum working wheel for durability
- Rust-resistant composite construction
- Sturdy, powder-coated aluminum housing for long-lasting reliability

TECHNICAL SPECIFICATIONS

Model	ToronPol GP-2A
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, other customization
Pressure	Individual Piston
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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