



AUTOMATIC METALLOGRAPHIC GRINDER & POLISHER TORONPOL™ GP-1CT

Automatic Metallographic Grinder & Polisher ToronPol™ GP-1CT is a robust, low-noise, single-disc, fully automatic polishing machine designed for comprehensive metallographic sample preparation. It combines pre-grinding, grinding, and polishing functions, offering versatility and efficiency in a single unit. With an automated grinding and polishing head, it significantly reduces manual effort, making it easy to operate. This durable machine is an excellent choice for enterprises and research institutions needing reliable, high-quality sample preparation equipment.

APPLICATIONS

The ToronPol™ GP-1CT is an automated system designed to bring both repeatability and flexibility to the metallographic sample preparation workflow. By utilizing an automated head with individual piston pressure, it allows for the simultaneous preparation of multiple, diverse specimens, each with its own precisely controlled force. This eliminates operator variability and is ideal for labs that require both high consistency and the ability to process a wide variety of materials.

This flexible and automated preparation is critical for ensuring accurate analysis in:

- **Heat Treatment & Surface Engineering:** For the routine and repeatable preparation of samples to verify case depth, decarburization, and coating integrity, allowing for side-by-side comparison of different process parameters in a single, efficient run.
- **Automotive & Powertrain QC:** To provide consistent, high-throughput preparation of critical components like gears, bearings, and shafts for the statistical process control of material microstructure and heat treatment quality.
- **Academic & Materials Research:** For research labs working with a diverse range of novel materials, this system provides the flexibility to develop unique preparation methods and efficiently process experimental alloys with varied characteristics.
- **Electronics & PCB Failure Analysis:** To perform the delicate, precise cross-sectioning of printed circuit boards and electronic components, where the ability to apply a specific, controlled force to each sample is critical for preventing damage and ensuring an accurate analysis.

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FEATURES

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

TECHNICAL SPECIFICATIONS

Model	ToronPol GP-1CT
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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