



SINGLE WHEEL METALLOGRAPHIC GRINDER & POLISHER TORONPOL™ GP-1

Single Wheel Metallographic Grinder & Polisher ToronPol™ GP-1 is an advanced grinder and polisher designed for metallographic specimen preparation. Its robust and adjustable speed drive facilitates effective operation across all preparation steps, ensuring high-quality results for your metallographic samples.

APPLICATIONS

The ToronPol™ GP-1 is a foundational instrument for the manual preparation of material specimens for microstructural examination. Its primary function is to produce a flat, mirror-polished, and damage-free surface, which is the absolute prerequisite for accurate microscopic analysis. This critical preparation step reveals a material's true internal structure, enabling precise evaluation of its properties and quality.

This essential preparation stage is a cornerstone of quality and research in:

- **Metallurgical & Materials Labs:** As a versatile, everyday workhorse for the routine grinding and polishing of a wide variety of metals and alloys to analyze grain structure, phase distribution, and non-metallic inclusions.
- **Manufacturing Quality Control:** For sectioning and preparing production components such as welds, castings, heat-treated parts, and thermal spray coatings to verify process integrity and ensure they meet design specifications.
- **Failure Analysis:** To meticulously prepare failed or fractured components, allowing for detailed examination of the underlying microstructure to accurately determine the root cause of failure.
- **Research & Education:** As an indispensable tool in academic and R&D settings for developing new materials and providing students and researchers with hands-on training in the fundamental principles of metallography.

FEATURES

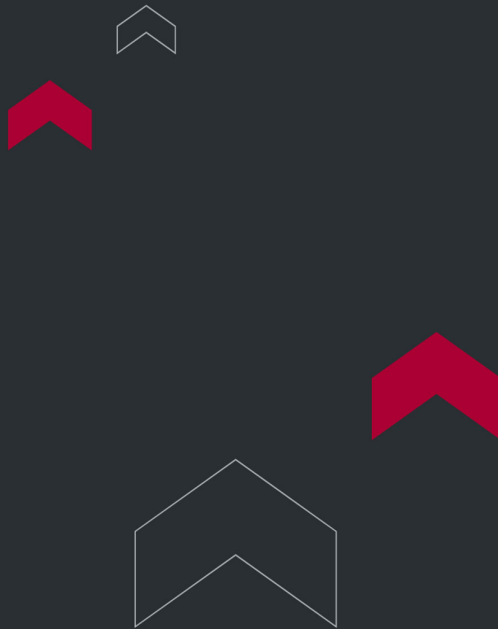
- User-friendly operation for grinding and polishing.

- Variable speed settings with three preset fast speed buttons.
- Control for both counterclockwise and clockwise direction.
- Pull-out water hose with universal direction for easy basin cleaning.
- Plastic disposable bowl liner for hassle-free cleaning.
- Hard anodized aluminum working wheel for enhanced durability.
- Constructed from durable composite materials that resist rust.
- Powder-coated aluminum housing for long-lasting reliability.

TECHNICAL SPECIFICATIONS

Model	ToronPol GP-1
Wheel (mm)	●Ø203○Ø254
Speed(rpm)	100-1000
Motor	550W
Power	110/220V
Paper Ring	●
Splash guard	●
Cover	●
Grinding paper	●
Polishing Cloth	●
Diamond Spray	○
Diamond Slurry	○
Alumina Powder	○

Recirculating Tank	☐
● Standard ○ Option	



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