TORONTECH

TWIN WHEEL METALLOGRAPHIC GRINDER & POLISHER TORONPOL™ - 202D/252D/302D SERIES - WITH INDIVIDUAL WHEEL SPEEDS

Twin Wheel Metallographic Grinder & Polisher ToronPol™-202D/252D/302D Series features double wheels designed for metallographic specimen preparation. With a robust and variable-speed drive, this machine efficiently supports all stages of the preparation process. Notably, each wheel's speed can be adjusted individually, providing enhanced control and versatility for specific grinding and polishing tasks.

APPLICATIONS

The ToronPol™-202D/252D/302D Series is engineered to provide the ultimate in manual preparation flexibility and workflow optimization. Its defining feature is the independent, variable speed control for each wheel, allowing two completely different preparation steps—such as high-speed coarse grinding and low-speed final polishing—to be performed simultaneously. This makes it an ideal solution for dynamic labs that require maximum versatility from a single machine.

This advanced control is especially critical for efficiency and precision in:

- **Materials Research & Method Development:** For labs creating preparation procedures for new or exotic materials, allowing for the side-by-side comparison of different speeds and consumables to rapidly determine the optimal process parameters.
- **Failure Analysis:** To enable the meticulous, parallel preparation of different sections of a failed component, where a delicate fracture surface may require low-speed polishing while a larger section is simultaneously ground at high speed.
- **High-Mix Quality Control:** In job shops and commercial testing labs that handle a wide variety of materials daily, this system allows an operator to work on a soft metal (like aluminum) and a hard alloy (like tool steel) at the same time, each at its ideal speed.
- **Process Engineering (Welding & Heat Treat):** For quickly comparing the effects of different process variables by having one wheel set up for a standard preparation routine and the other for a specialized step, such as a final polish to reveal a specific microstructural feature.

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ToronPol-202D
Twin Wheel Metallographic Grinder and Polisher

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FEATURES

- User-friendly operation for grinding and polishing
- Variable speed control: Easily adjustable via a rotating switch, with individual wheel speeds displayed digitally
- Reversible direction control (CCW and CW) for flexible use
- Pull-out universal water hose for convenient basin cleaning
- Disposable plastic bowl liner for effortless maintenance
- Hard-anodized aluminum working wheel for enhanced durability
- Rust-resistant composite construction for long-lasting performance
- Powder-coated aluminum housing for dependable durability

TECHNICAL SPECIFICATIONS

Model	**ToronPol-202D**	**ToronPol-252D**	**ToronPol-302D**
Wheel (mm)	Ø203	○Ø203●Ø254	○Ø203 ○Ø254 ●Ø305
Speed(rpm)	100-1000	100-1000	100-1000
Motor	500W	600W	800W
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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