



VIBRATORY POLISHER TORONPOL™ V1200

Vibratory Polisher ToronPol™ V1200 is an automatic vibratory polisher specifically engineered to achieve high-quality polished surfaces on a diverse array of materials, particularly for electron backscatter diffraction (EBSD) applications. Its high-frequency vibrations in horizontal motion create an effective polishing action that removes any minor deformations left after mechanical preparation, revealing a stress-free surface. This makes the V1200 an ideal choice for preparing specimens for EBSD analysis.

APPLICATIONS

The ToronPol™ V1200 is a specialized instrument for the final stage of specimen preparation, designed to eliminate the microscopic residual stress and deformation that remains after conventional mechanical polishing. Through a gentle, high-frequency vibratory action, it produces a pristine, damage-free surface, which is the absolute prerequisite for obtaining accurate results from the most sensitive microstructural analysis techniques, especially Electron Backscatter Diffraction (EBSD).

This ultimate-stage preparation is essential for enabling advanced analysis in:

- **Advanced Materials R&D:** As the definitive method for preparing samples for EBSD, which is fundamental for characterizing crystal orientation, grain boundaries, and micro-texture to understand and engineer the properties of novel alloys and composites.
- **Aerospace & Defense:** For preparing difficult materials like titanium, superalloys, and high-strength steels to analyze deformation mechanisms and crystallographic texture, which is critical for predicting component performance, fatigue life, and reliability.
- **Failure Analysis:** To reveal the true, unaltered microstructure directly adjacent to a fracture surface, ensuring that the evidence used for a definitive root cause investigation is free from preparation-induced artifacts.
- **Semiconductor & Electronics Industry:** To achieve the perfect, defect-free surface required for analyzing the crystallography of thin films, solder joints, and substrates, which directly impacts electronic properties, performance, and device reliability.

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FEATURES

- **Frequency and voltage controls:** Adjusting the vibrating frequency enables polishing of specimens in various sizes, while changing the applied voltage allows for easy control of polishing speed.
- **Automatic timer control:** The machine automatically stops after the set time.
- **Versatile specimen handling:** Capable of accommodating both small and large specimens.
- **Multiple size holders:** Compatible with holders ranging from 1 inch to 2 inches in diameter, with custom sizes available.
- **Robust and durable design:** Built for longevity and reliability.
- **User-friendly operation:** Simple to use and maintain.
- **Suitable for all materials:** Effective for polishing a wide range of materials.

TECHNICAL SPECIFICATIONS

Model	ToronPol V1200
Bowl Size (mm)	Ø305mm/12inch
Power	110/220V□ 50/60Hz
Motor	550W
Dimension(WxDxH)	530*660*470
Weight(kg)	135
Specimen Holder, 1.25inch	● 3pcs

Holder Weights, 1.25inch	● 3pcs
Lever Plate for 1.25inch	● 1pcs
Polishing Pad	● 1pcs
Other holders, weights and lever plate	○ 1inch ○ 1.5inch ○ 2inch□ can be customized
● Standard ○ Option	



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