



**CASTABLE VACUUM
COLD MOUNTING
SYSTEM
TORONMOUNT™ -
CAST1000R**

Castable Vacuum Cold Mounting System ToronMount™-CAST1000R combines a compact design with large capacity. Its electrically rotating internal worktable streamlines resin casting, making operation quick, simple, and highly reliable. This system effectively removes bubbles from both the sample and resin, allowing the resin to penetrate into pores and cracks. The result is a flawlessly inlaid sample, free of bubbles and voids, and improved overall quality.

APPLICATIONS

The ToronMount™-CAST1000R is an advanced system that optimizes the cold mounting process through vacuum impregnation and a unique rotating worktable. Its primary application is to achieve a perfect, void-free encapsulation of porous, cracked, or complex specimens. By actively removing entrapped air from both the sample and the resin, it ensures complete infiltration into the finest features, providing superior edge retention and structural support for subsequent preparation.

This advanced impregnation capability is essential for ensuring analytical integrity in:

- **Failure Analysis:** For the definitive preservation of fracture surfaces and secondary crack networks, ensuring that every microscopic feature is fully supported by resin, which is critical for an accurate and unambiguous root cause investigation.
- **Thermal Spray Coatings & Composites:** To guarantee complete, void-free infiltration into the inherent porosity of thermal spray coatings and the intricate interfaces within composite materials, which is essential for accurate coating thickness measurement and structural evaluation.
- **Electronics & Microelectronics:** To achieve flawless, bubble-free encapsulation of printed circuit boards (PCBs) and densely packed electronic components, preventing preparation-induced damage and enabling perfect cross-sectional analysis.
- **Advanced Materials R&D:** For the preparation of delicate and porous research materials such as ceramics, powdered metals, and biomaterials, creating a fully densified, stable specimen that can be polished without artifacts to reveal the true material structure.

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FEATURES

- **4-Inch Color Touch Screen:** Intuitive and easy-to-use interface.
- **Built-In Vacuum Pump and Pressure Sensor:** Maintains the user-set vacuum level in the chamber for consistent results.
- **Automatic Pump Shutoff:** Vacuum pump stops automatically when the set time is complete.
- **Large Vacuum Chamber:** Ample space for processing multiple samples.
- **Transparent Cover:** Allows clear observation of samples during the inlaying process.
- **Retractable Arm:** Designed for convenient handling and ease of use.
- **Versatile Applications:** Compatible with epoxy resins, acrylic resins, polyester resins, and more.

TECHNICAL SPECIFICATIONS

Model	ToronMount™-CAST1000R
Ultimate Vacuum	80Pa
Mold size	● 30mm ○ 1,1.25,1.5, 2.0inch ○ Rectangular
Power	110-220V□ 50/60Hz, Single Phase
Chamber (WxDxH)	300*300*300
Pump(WxDxH)	260*110*240
Weight	6Kg

Epoxies resins	☒ 1sets
Mould Release	☐ 250ml
☒ Standard ☐ Option	



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