



SINGLE CYLINDER AUTOMATIC HOT MOUNTING PRESS TORONMOUNT™ 301/501/1201/4001 SERIES

Single Cylinder Automatic Hot Mounting Press ToronMount™ 301/501/1201/4001 Series are programmable, automatic hot mounting presses designed for exceptional efficiency. These machines provide users with advanced control over heating and cooling cycles, offering an edge over many other hot mounting press options. A wide selection of mold assemblies ranging from 25 to 50 mm in diameter is available, making these presses ideal for compression of metallographic specimens.

APPLICATIONS

The ToronMount™ Series of hot mounting presses is designed to encapsulate material specimens in a protective polymer mount, a critical first step in the metallographic preparation workflow. By creating a standardized, easy-to-handle puck, this process provides excellent edge retention, protects fragile features, and prepares samples for subsequent automated or manual grinding and polishing, ensuring a high-quality, accurate final analysis.

This essential encapsulation process is a prerequisite for reliable analysis in:

- **Manufacturing Quality Control:** For the routine preparation of sectioned parts such as welds, heat-treated components, and castings, creating robust mounts that protect critical edges and are compatible with automated preparation systems.
- **Failure Analysis:** To protect and preserve the integrity of delicate fracture surfaces and secondary cracks on failed components, ensuring that crucial evidence is not damaged during subsequent handling and preparation.
- **Electronics & Microelectronics:** For the precise encapsulation of printed circuit boards (PCBs), solder joints, and electronic components, providing the support needed to achieve a perfect, planar cross-section without damaging delicate internal structures.
- **Materials Research & Academia:** As a fundamental and indispensable step for preparing a diverse range of materials, from small fasteners to composite coupons, ensuring consistent, high-quality specimens for reliable and repeatable microstructural investigation.

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FEATURES

- **Ease of Use:** Simple one-button start with automatic pressure loading, heating, and cooling.
- **High Efficiency:** Innovative heating and cooling design significantly shortens cycle time. For example, a 30mm specimen typically completes in about 8 minutes (with the exception of AutoPRESS 301, which takes around 25 minutes).
- **User-Friendly Interface:** The color HMI touch screen lets users easily set pressure, heating temperature, heating time, and cooling time.
- **Real-Time Temperature Display:** View temperature changes with a real-time curve display.
- **Memory Modes:** Store up to 10 different parameter settings for quick setup.
- **Dual-Specimen Capability:** Process two specimens simultaneously using a spacer.
- **Three Cooling Modes:** Choose between time-based, temperature-based, or manual cooling. Includes a water-saving feature.
- **Durable Cover:** Made from high-temperature-resistant composite materials through integral molding.
- **Optional Coolant Tank:** A mobile plastic recirculation coolant tank is available for added convenience.

TECHNICAL SPECIFICATIONS

Model	ToronMount™ 301	ToronMount™ 501	ToronMount™ 1201	ToronMount™ 4001
Operation	Automatic			
Pressure	Air	Air	Hydraulic	Hydraulic
Cooling	Automatic/manual			
Mold	○25 ●30 ○40 ○50mm, others can be customized			
Max Force□ kgs□	300	500	1200	4000
Max Tem□ °C□	180	180	200	200
Heater	600W	1.2KW	1.2KW	1.5KW
Dimension(WxDxH)	400x400x420	400x400x420	350x400x420	410x480x430
Weight	25Kg	25Kg	30Kg	48Kg
Power	220V 50Hz (110V is also available)			
Air source	Need	Need		
Cooling Water	Need			
Mold Release	○	○	○	○
Black Resin	●	●	●	●
Green Resin	○	○	○	○
Red Resin	○	○	○	○
Conductive Resin	○	○	○	○
Edge-protection Resin	○	○	○	○
Transparent Resin	○	○	○	○

Air filter	●	●		
Funnel & Spoon	●	●	●	●
Drains	●	●	●	●
● Standard ○ Option				



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