



DUAL CYLINDER AUTOMATIC HOT MOUNTING PRESS TORONMOUNT™ 502/1202/4002 SERIES

Dual Cylinder Automatic Hot Mounting Press ToronMount™ 502/1202/4002 Series are programmable, automatic hot mounting presses engineered for outstanding efficiency. Each cylinder can operate independently, allowing for flexible usage. These machines provide users with enhanced control over heating and cooling cycles, setting them apart from many other hot mounting presses. A broad selection of mold assemblies ranging from 25 to 50 mm in diameter is available, making them ideal for compressing metallographic specimens.

APPLICATIONS

The ToronMount™ 502/1202/4002 Series is engineered to dramatically increase the throughput and efficiency of the metallographic sample mounting process. By providing two fully independent cylinders, this system allows for the simultaneous encapsulation of two different sets of specimens, effectively doubling a laboratory's mounting capacity. This makes it an essential tool for high-volume environments where reducing preparation time is critical to overall productivity.

This high-throughput capability is indispensable for eliminating bottlenecks in:

- **High-Volume Manufacturing QC:** In sectors like automotive, aerospace, and primary metals, this press enables the continuous, rapid mounting of routine process control samples, ensuring the lab can keep pace with demanding production schedules.
- **Commercial Testing Laboratories:** To maximize sample turnaround time and profitability by doubling the mounting capacity, allowing labs to process more client samples per day without compromising on quality.
- **Process Development & Engineering:** For facilities optimizing processes like welding or heat treatment, the dual system allows for the parallel preparation of multiple test coupons, significantly accelerating the validation and comparison workflow.
- **Advanced Research Labs:** To enhance productivity by allowing researchers to run two different mounting protocols simultaneously—for example, preparing routine samples in one cylinder while developing a method for a new material in the other.

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FEATURES

- **Ease of Use:** Simple one-button start with automatic pressure loading, heating, and cooling.
- **High Efficiency:** Redesigned heating and cooling units significantly reduce cycle time. For a 30mm specimen, the cycle typically takes about 8 minutes (except AutoPRESS 301, which takes around 25 minutes).
- **Independent Operation:** Each of the two cylinders can operate independently and accommodate different mold sizes.
- **User-Friendly Interface:** The color HMI touch screen allows easy adjustment of pressure, heating temperature, heating time, and cooling time.
- **Real-Time Temperature Display:** Real-time temperature curve display for easy monitoring.
- **Memory Modes:** Store up to 10 parameter settings for convenient recall.
- **Dual-Specimen Capacity:** Each cylinder can produce two specimens simultaneously with a spacer.
- **Flexible Cooling Modes:** Choose from time-based, temperature-based, or manual cooling modes. Includes a water-saving feature.
- **Durable Cover:** Constructed from high-temperature-resistant composite materials through integral molding.
- **Optional Coolant Tank:** A mobile plastic recirculation coolant tank is available for added flexibility.

TECHNICAL SPECIFICATIONS

Model	ToronMount™ 502	ToronMount™ 1202	ToronMount™ 4002
Operation	Automatic		
Pressure	Air	Hydraulic	Hydraulic
Cooling	Automatic/manual		
Mold	○25 ●30 ○40 ○50mm, others can be customized		
Max Force□ kgs□	500	1200	4000
Max Tem□ °C□	180	200	200
Heater	2.4KW	2.4KW	3KW
Dimension(WxDxH)	600x560x430	540x560x430	540x560x430
Weight	45Kg	65Kg	77Kg
Power	220V 50Hz (110V is also available)		
Air source	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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