

Automatic Laboratory Hot Press 15 Ton 300°C Dual Zone Programmable Temperature Control

Item Number: XP87



Introduction

High-performance automatic lab hot press with 15-ton hydraulic pressure, dual independent heating zones up to 300°C, programmable ramp and dwell control, 7" touchscreen, active water cooling, CE certified. Ideal for material science and battery research. Get a quote.

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Application	Description	Key Benefit
Battery Electrode Fabrication	Pressing cathode/anode materials into uniform thin sheets for coin cell and pouch cell assembly	Consistent density and thickness for reliable electrochemical performance
Polymer Film Lamination	Melting and bonding thermoplastic layers under controlled heat and pressure	Void-free films with excellent adhesion for packaging or membranes
Hot Embossing	Transferring micro/nano patterns onto polymer substrates	High-fidelity replication for microfluidics and optical components
Ceramic Powder Compaction	Densifying ceramic powders into green bodies for subsequent sintering	High green density with minimal defects, improving sintered part quality
XRF Sample Preparation	Pressing powder samples into pellets for X-ray fluorescence analysis	Repeatable pellet quality for accurate elemental analysis
Composite Material Consolidation	Curing fiber-reinforced polymers or metal matrix composites	Optimized fiber-matrix distribution and void elimination
Lab Sample Manipulation	General pressing of various materials for research and development	Versatility to handle diverse experimental needs
Thin Film Production	Melting polymers to create uniform thin films for testing	Controlled thickness and smooth surface finish for characterization

Specification	Value
Model	XP87
Pressure Range	0-15 Tons (hydraulic, programmable)
Platen Working Temperature	RT-300 °C (dual independent control)
Heating Control	Independent programmable with ramp control
Heating Power	2200 W
Platen Size	200 × 200 mm
Platen Stroke	50 mm
Controller	7" touchscreen (multi-segment for temperature, pressure, time)
Cooling Method	Circulating water active cooling (external chiller required)
Power Supply	AC 220 V, 50 Hz, single phase (Type E/F plug)
Certification	CE certified