

Automatic Hydraulic Hot Press 40 Ton 200X200Mm Dual Zone Heating 500°C 220V And 300°C 110V

Item Number: XP71



Introduction

This automatic hydraulic hot press delivers 40-ton pressing force with 200x200mm dual heated platens, offering versions for 500°C (220V) and 300°C (110V) for precise, programmable high-temperature bonding, laminating, and sample preparation.

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Application	Description	Key Benefit
Polymer Film Preparation	Melting and pressing thermoplastics into thin, uniform films for spectroscopy or mechanical testing.	Achieves consistent thickness with precise temperature and pressure control.
Hot Embossing	Micro-structuring of polymer substrates for microfluidic devices or optical components.	Sub-micron feature replication with repeatable force and thermal uniformity.
Lamination of Battery Components	Bonding electrode layers and separator materials for solid-state battery prototyping.	Even layer adhesion without delamination, critical for performance and safety.
Sample Preparation for XRF	Pressing powdered samples into pellets for X-ray fluorescence analysis.	High-density, crack-free pellets ensure accurate elemental analysis.
Composite Molding	Consolidation of fiber-reinforced polymer sheets for lightweight structural testing.	Void-free composites with controlled cure cycles.
Adhesive Bonding Testing	Curing and evaluating structural adhesives under controlled heat and pressure.	Reproducible bond line thickness and thermal history.

Parameter	XP71 (220V Version)	XP71 (110V Version)
Model	XP71 (220V)	XP71 (110V)
Platen Size	200 × 200 mm	200 × 200 mm
Maximum Pressure	0 - 40 T	0 - 40 T
Temperature Range	RT - 500°C	0 - 300°C
Heating Power	3000 W (3 kW)	2100 W (2.1 kW)
Temperature Control	Dual-platen independent programmable with ramp/soak	Dual-platen independent programmable with ramp/soak
Platen Distance	50 mm	60 mm
Power Supply	Single-phase AC 220V, 50Hz	Single-phase AC 110V, 60Hz
Operating Current	Approx. 13.6 A	Approx. 19.1 A (requires 20A dedicated line)
Dimensions (WxDxH)	355 × 450 × 655 mm	335 × 410 × 625 mm
Net Weight	Approx. 230 kg	Approx. 180 kg
Cooling	Circulating water cooling (chiller recommended as optional add-on)	Circulating water cooling (external water circuit or self-provided chiller required)