Industrial Automatic Hot Press 100 Ton 350°C 600X600Mm Floor Standing

Item Number: XP93

Introduction

Industrial automatic hot press with 100-ton capacity, 600x600mm platens, 350°C max temp, and programmable PID control for precise thermal processing. Ideal for composite molding, rubber vulcanization, and lamination. Request a quote.

Learn More

Application	Description	Key Benefit
Rubber Vulcanization	Molding and curing rubber parts such as seals, gaskets, and dampers.	Uniform pressure and precise temperature ramps ensure consistent cross-linking and minimal scrap.
Carbon Fiber Composite Molding	Curing prepreg stacks under controlled heat and pressure to produce lightweight structural panels for aerospace and motorsport.	Programmable ramp profiles optimize fiber wet-out and void reduction, maximizing mechanical properties.
Glass Fiber Composite Lamination	Manufacturing durable fiberglass components like boat hulls and wind turbine blades.	Large platen size and high force allow single-shot molding of large parts, reducing assembly steps.
High-Pressure Laminate (HPL) Production	Bonding decorative laminates to substrates for furniture, flooring, and architectural panels.	Even pressure distribution and stable temperature prevent delamination and surface defects.
Battery Electrode Compression	Hot pressing electrode materials to improve density and conductivity in battery research.	Fine pressure control and uniform heating ensure consistent electrode thickness and performance.
Thermoplastic Sheet Consolidation	Pressing multiple layers of thermoplastic films into thick sheets for machining stock.	Multi-stage pressure programming prevents warpage and guarantees homogeneous material fusion.
Powder Compaction and Sintering	Hot pressing metal or ceramic powders into dense preforms for advanced materials.	High force and temperature capability achieve near-theoretical density in a single-step process.
Printed Circuit Board Lamination	Bonding layers of copper and prepreg under controlled temperature and pressure for electronics manufacturing.	Precision alignment and consistent bonding pressure ensure signal integrity and reliability.

Parameter	Specification	Remarks
Model	XP93	
Max Pressure	100 Tons (1000 KN)	Heavy-duty hydraulic system
Pressure Control	Programmable control with ramp	Multi-stage pressure
Working Temperature	0 – 350 °C	Dual-zone independent heating control
Heating Control	Dual-plate independent control, programmable temperature control with ramp	
Platen Size	600 × 600 mm	Suitable for large sheets or multiple molds
Opening / Daylight	250 mm	Wide opening for easy mold loading
Cooling Method	Circulating water cooling	Recommended dedicated chiller (optional, 1600 USD)
Power Supply	Three-phase 380V–415V, 50/60 Hz selectable	Customizable per destination country
Dimensions (L × W × H)	980 × 890 × 1750 mm	Floor-standing design

Parameter	Specification	Remarks
Net Weight	1200 kg	1.2-ton heavy-duty structure