

# 10 Ton 350°C Industrial Automatic Hot Press 500X700Mm Floor Standing

Item Number: XP89



## Introduction

Discover the 10-ton 350°C industrial automatic hot press with 500x700mm platens, floor-standing design, and advanced PID programmable control for precise, uniform heating and high-throughput, large-area pressing. Ideal for lamination, hot embossing, thin film preparation, and battery research applications.

[Learn More](#)

Application	Description	Key Benefit
Composite Sheet Lamination	Consolidating fiber-reinforced polymer layers or metal-polymer stacks under controlled heat and pressure for aerospace, automotive, or sporting goods.	Uniform large-area bonding with minimal voids, thanks to precise pressure profiling and even platen heating.
Polymer Thin Film Fabrication	Melting and pressing polymer pellets, powders, or pre-cursor films to achieve exact thickness, density, and surface finish for research or production.	Rapid water cooling sets the film quickly, preserving dimensional accuracy and reducing cycle overhead.
Battery Electrode Calendering	Pressing electrode materials onto current collectors for lithium-ion, solid-state, or next-generation battery R&D.	High-pressure uniformity ensures consistent electrode porosity and adhesion, critical for electrochemical performance.
Hot Embossing for Microfluidics	Imprinting micro- and nano-scale patterns onto thermoplastic substrates for lab-on-a-chip, biomedical, or optical devices.	PID ramp control prevents thermal stress, maintaining fine feature fidelity across large-format substrates.
XRF Pellet Preparation	Compacting powdered samples into solid, durable pellets for X-ray fluorescence analysis in mining, geology, or materials QA/QC.	Programmable force eliminates operator variability, yielding pellets with consistent density and smooth, crack-free surfaces.
Multi-Mold Laboratory Pressing	Simultaneously pressing numerous small molds or specimens—ideal for combinatorial materials research or high-throughput testing.	Large platen area maximizes productivity; independent heating zones allow different temperature profiles in the same cycle.

Parameter	Specification	Remarks
Model	XP89	Floor-standing industrial automatic hot press
Max Pressure	10 Tons (100 kN)	Hydraulic pressing
Pressure Control	Programmable control with ramp	Supports multi-stage profiles with dwell
Working Temperature	RT - 350 °C	PID control with ±1°C stability
Heating Control	Dual platens independent, PID programmable control with ramp	30-segment profiles for precise ramp/soak routines
Platen Size	500 × 700 mm	Extra-large area for oversize or multi-mold work
Daylight / Opening	100 mm	Suitable for sheets, films, and flat components
Cooling Method	Circulating water chilling	Requires external chiller (not included)
Power Supply	3-Phase 380V, 50Hz/60Hz optional	Configurable to regional grid specifications
Dimensions (L×W×H)	1200 × 800 × 1550 mm	Floor-standing footprint
Net Weight	1300 kg	Rigid construction for vibration dampening