

15 Ton Programmable Hot Press With 7-Inch Touchscreen

260Mm Narrow Footprint

Item Number: XP17



Introduction

Experience precision molding with a 15-ton programmable hot press featuring a 7-inch touchscreen, 260mm narrow chassis, and dual-zone heating. Ideal for polymer films, battery research, and advanced materials. Engineered for glovebox compatibility, delivering up to 300°C with rapid cooling options.

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Application	Description	Key Benefit
Polymer Film Preparation	Produces high-precision thin sheets for mechanical and barrier testing.	Guaranteed ±4% thickness uniformity using certified molds.
Solid-State Battery Electrolyte Development	Hot-presses ceramic-polymer composites under controlled atmospheric conditions.	260mm width fits through glovebox airlocks without disassembly.
Polyimide (PI) Film Curing	Achieves full imidization at sustained 300°C with minimal thermal gradient.	Turbo configuration reaches 300°C 50% faster than standard systems.
Aerospace Composite Lamination	Consolidates multi-layer fiber-metal laminates for research-scale panels.	15-ton force and programmable pressure curves replicate autoclave conditions.
Quality Control Specimen Production	Generates identical test coupons for ASTM/ISO material characterization.	Digital recipe management eliminates lot-to-lot variability.
Academic Material Science Research	Supports gradient pressing, dwell steps, and pulsed pressure profiles in one run.	Drag-and-drop recipe builder simplifies complex experimental designs.
Photovoltaic Encapsulation Testing	Laminates EVA/POE films onto small glass-substrate modules for reliability studies.	Uniform heating prevents bubbles and incomplete cross-linking.
Biocompatible Polymer Processing	Shapes medical-grade thermoplastics in a clean, programmable cycle.	Low-mass cartridge heaters reduce thermal inertia for delicate biopolymers.

Parameter	Specification
Max Force	0 – 15.0 Tons (0-150 kN)
Platen Size	200 × 200 mm
Open Distance	50 mm
Control Panel	7-inch Touchscreen Programmable Controller (Aura-Touch™)
Footprint (W×D×H)	260 × 347 × 422 mm (optimized layout)
Net Weight	approx. 130 kg

Parameter	XP17 Core	XP17 Turbo	Application Guidelines
Working Temperature Range	RT – 250 °C	RT – 300 °C	Core suits most polymer and composite labs; Turbo enables solid-state electrolyte and PI film curing.

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Maximum Heating Power	1600 W (2 × 800 W)	2800 W (2 × 1400 W)	2800 W high-power cartridges cut preheat time significantly.
Power Grid Compatibility	AC 220 V / 50 Hz (single-phase)	AC 220 V / 60 Hz (custom)	50 Hz standard for Europe/China; 60 Hz configurable for Korea and North America.
Cooling Method	Internal water channel interface	External industrial chiller compatible	Both versions include internal ports; Turbo allows direct connection to rapid-cool chiller.