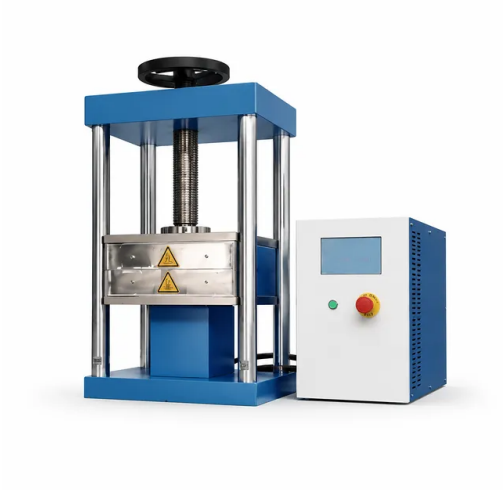
Split-Type Automatic Hydraulic Hot Press 30 Ton 350X350Mm With Dual Heating

Item Number: XP37



Introduction

Split-type automatic hydraulic hot press with 30-ton pressure, 350x350mm dual heated platens, PID temperature and pressure control, and integrated water cooling for precise, repeatable sample preparation in research and industrial labs for battery electrode fabrication, polymer molding, thin film lamination.

Learn More

Application	Description	Key Benefit
Polymer & Rubber Molding	Compression molding of thermoplastics, elastomers, and rubber compounds into test specimens or small batches.	Uniform heat and pressure ensure void-free parts with consistent mechanical properties.
Composite Material Lamination	Curing and bonding layered composites such as carbon-fiber prepregs or multilayer films under heat and pressure.	Precise temperature and force profiles achieve optimal interlaminar adhesion.
Battery Electrode Preparation	Hot pressing of lithium-ion battery electrode slurries onto metal current collectors to improve density and adhesion.	Enhances electrode conductivity and structural integrity for higher performance cells.
Thin Film Production	Melting and pressing polymer granules or films to create thin, uniform sheets for research or prototype production.	Controlled cooling rapidly stabilizes film thickness and morphology.
Powder Tablet Forming	Hot compression of powdered pharmaceuticals, ceramics, or chemicals into dense, high-strength tablets.	Programmable pressure holds allow sintering-like densification without dedicated furnaces.
Hot Embossing	Transfer of micro- or nanoscale patterns from a master mold onto thermoplastic substrates using heat and pressure.	Precise force and temperature control replicate features with high fidelity.
Industrial XRF Sample Preparation	Pressing powdered samples into fused beads or pellets under controlled heat and pressure for consistent X-ray fluorescence analysis.	Eliminates mineralogical and particle-size effects for more accurate elemental analysis.

Parameter	Value
Model	XP37
Type	Split-type Automatic Hot Press
Max. Working Pressure	0 – 30 T (adjustable)
Platen Size	350 × 350 mm (dual platens, large heated area)
Platen Working Temperature	RT – 300 °C
Heating Power	5,400 W (2 × 2,700 W, independent dual-zone)
Temperature Control Method	PID intelligent programmable controller
Pressure Control Method	PID automatic program hold / release control
Piston Stroke	60 mm
Max. Daylight	180 mm
Platen Cooling Method	Circulating water cooling; connect to tap water or external chiller

Parameter	Value
Control Interface	7-inch industrial-grade touchscreen
Power Supply	AC 220 V / 50 Hz (standard); optional 240 V / 60 Hz or 110 V / 60 Hz
Dimensions (approx.)	780 × 440 × 620 mm (to be confirmed)
Net Weight (approx.)	360 kg (to be confirmed)
Safety Certification	CE certified