Programmable 30 Ton Automatic Hydraulic Press For Laboratory Pressing

Item Number: XP92

Introduction

The 30 ton automatic hydraulic press streamlines lab workflows with programmable cycles, consistent force control, and a spacious 140x160mm working area. Ideal for XRF sample prep, battery material pressing, and thin film lamination. Request a tailored configuration today.

Learn More

Application	Description	Key Benefit
XRF Sample Preparation	Pelletizing powdered geological, cement, or metal samples for X-ray fluorescence analysis.	Produces dense, homogeneous pellets that improve analytical accuracy and lower detection limits.
Battery Electrode Pressing	Compacting anode and cathode powders into coin cell or pouch cell electrodes under controlled pressure.	Ensures uniform electrode density and thickness for reproducible electrochemical performance in battery testing.
Battery Electrode Calendering	Compressing coated metal foils to achieve target porosity and thickness for lithium-ion battery electrodes.	Improves electrode uniformity, directly enhancing battery capacity and cycle life.
Hot Embossing	Imprinting micro-scale patterns onto thermoplastic films using heat and pressure (requires optional heated platens).	Enables rapid fabrication of microfluidic chips, diffractive optics, and lab-on-a-chip devices with high replication fidelity.
Thin Film Lamination	Bonding multiple layers of polymer films or composite materials under heat and pressure to create defect-free laminated sheets.	Eliminates air bubbles and voids for consistent mechanical and optical properties across the entire film.
Polymer Melting & Pressing	Melting and compressing thermoplastic pellets into thin films or test specimens for spectral analysis or mechanical testing.	Provides a fast, repeatable method for preparing standardized samples without solvent casting or extrusion.
Ceramic Green Body Formation	Pressing ceramic powders into near-net-shape green bodies for sintering.	Ensures uniform density, minimizing warpage and cracking during subsequent firing stages.
Quality Control Specimen Preparation	Producing standardized test pieces from powdered or granular materials for hardness, tensile, and compression testing.	Guarantees repeatable specimen dimensions and compaction, critical for valid QC protocols.

Parameter	Value
Model	XP92
Working Pressure	0 – 30 T
Piston Stroke	30 mm
Display	7-inch Touchscreen
Language	English
Power Supply	AC 220 V, 50 Hz
Working Space	140 × 160 mm
Dimensions (L × W × H)	230 × 390 × 420 mm
Weight	95 kg