

Manual Heating Press With Precision Temperature Control And Hydraulic Pressure

Item Number: XP57



Introduction

Discover our manual heating press with precise temperature control up to 300°C, hydraulic pressure up to 24 tons, water cooling, and touchscreen interface for consistent lab pressing applications including battery research and material testing. Request a quote today!

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Application	Description	Key Benefit
Battery Electrode Lamination	Compaction of cathode and anode films for lithium-ion battery research.	Uniform density and adhesion for reliable electrochemical testing.
Polymer Film Production	Hot pressing of thermoplastic films for mechanical testing or spectroscopy.	Consistent thickness and flatness across the entire film.
Ceramic Pellet Pressing	Preparation of green ceramic bodies from powders for sintering trials.	High-pressure compaction minimizes porosity and enhances density.
Pharmaceutical Tablet Development	Small-batch production of drug tablets for dissolution and stability testing.	Adjustable pressure ensures tablet hardness meets pharmacopeial standards.
Composite Material Consolidation	Fabrication of multi-layer composites under heat and pressure for aerospace or automotive research.	Precise temperature control prevents thermal degradation of sensitive layers.
FTIR Spectroscopy Sample Prep	Formation of potassium bromide (KBr) pellets for infrared analysis.	Clear, uniform pellets with minimal scattering for high-quality spectra.
XRF Bead Preparation	Fusion of borate flux and sample powder to create homogeneous glass beads for X-ray fluorescence analysis.	Rapid, reproducible bead formation with minimal contamination.
Material Testing Specimen Molding	Hot pressing of polymer or metal powder into test specimens for tensile, impact, or hardness testing.	High density and consistent dimensions reduce variability in test results.

Parameter	Value
Model	XP57
Platen Working Temperature	0 ~ 300 °C
Heating Power	600 W
Platen Size	100 × 100 mm
Platen Gap	≤ 150 mm
Working Pressure	0 ~ 24 T
Cooling Method	Circulating Water Chilling
Temperature Control	7-inch Touchscreen
Power Requirements	110 V / 60 Hz or 220 V / 50 Hz (selectable)
Dimensions	500 × 175 × 500 mm

Parameter	Value
Weight	60 Kg