

Automatic Hydraulic Hot Press With Large Plate And Precision Temperature Control For Advanced Material Sample Preparation And Industrial Research

Item Number: PZD6



Introduction

High-performance automatic hydraulic hot press featuring 500x500mm plates and 18-segment program control for precise material sample preparation. Includes integrated water cooling and real-time data monitoring to ensure consistent results in demanding laboratory and industrial research environments.

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Application	Description	Key Benefit
Solid-State Battery Research	Compacting electrolyte powders and laminating battery components under heat.	High pressure accuracy ensures optimal contact and density for conductivity studies.
Polymer Film Production	Melting thermoplastic granules to create uniform thin films for optical or mechanical testing.	Precise plate parallelism and temperature control result in consistent film thickness.
Advanced Ceramics	Sintering and pressing of technical ceramic powders into structured shapes.	Multi-stage pressure programs prevent internal cracking during the green body formation.
Carbon Fiber Composites	Thermal curing of resin-impregnated fiber sheets under high clamping force.	Uniform heating across the 500x500mm plate ensures consistent resin flow and curing.
Pharmaceutical Tableting	High-volume production of test batches for various pill and tablet formulations.	Large working space allows for multi-cavity dies, increasing batch efficiency.
Electronic Lamination	Pressing multi-layer PCBs or bonding flexible electronics at controlled temperatures.	Fine pressure regulation (0.01T) protects delicate internal circuit structures.
XRF Sample Prep	Preparing high-density pellets for X-ray fluorescence analysis.	Automatic operation eliminates human error in pressing times and pressures.

Parameter	Specification (PZD6)
Model Identifier	PZD6
Heating Temperature Range	RT - 300°C / RT - 500°C (Optional)
Heating Power	10kW / 16kW
Pressure Range	0.01 - 60 Tons
Pressure Accuracy	0.01 T
Plate Size (M x N)	500 x 500 mm
Working Space	520 x 100 mm
Display Screen	7-inches High-Resolution Touch Screen
Program Capacity	18 Segments (Pressure, Temperature, Cooling)
Safety Protection	Acrylic door with auto-power off, Emergency Stop

Parameter	Specification (PZD6)
Cooling Method	Integrated Water Cooling (Manual/Auto activation)
Interface Modes	Standard Mode (Direct) / Advanced Mode (Curve/List)
Component Durability	Metal buttons with silver-plated contacts (>100,000 cycles)
Data Connectivity	USB Drive export for curve and data records
Remote Control	Supports PC analysis and modification
Power Supply	220V / 110V (Customizable)
Dimensions (L x W x H)	680 x 680 x 1280 mm
Total Weight	1080 kg