

Solid-State Battery Research Laboratory Hydraulic Hot Press

Item Number: MY20



Introduction

Reliable laboratory hydraulic hot press for solid-state battery research offers independent dual-zone heating, programmable pressure with auto compensation, and a touchscreen interface, enabling precise pelletizing of electrolytes, polymer lamination, and composite fabrication up to 300°C and 20 tons.

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Parameter	Specification
Model	MY20
Platen Dimensions	250 × 250 mm
Maximum Operating Temperature	≤ 300 °C
Heating Power	≤ 5400 W
Maximum Hydraulic Pressure	≤ 20 T (200 KN)
Pressure Generation Method	Built-in upward-clamping hydraulic system
Platen Opening (Daylight)	200 mm
Lower Platen Stroke	50 mm
User Interface	7-inch touchscreen controller
Power Supply Requirements	AC 240V / 60 Hz

Experimental Module	Typical Processing Conditions	Intended Research Application
Solid-State Electrolyte Pelletizing	150 °C - 250 °C, 10 - 20 T	Compacting ceramic/polymer composite electrolytes to reduce interfacial resistance.
Polymer Membrane Lamination	80 °C - 150 °C, low-to-medium pressure	Preparing uniform gel polymer electrolyte sheets or separator-electrode assemblies.
Composite Laminating	Up to 300 °C, variable pressure	Fabricating multi-layer carbon fiber or thermoplastic test specimens.