

Solid State Battery Research Laboratory Hydraulic Hot Press Machine

Item Number: MY14



Introduction

High-precision thermal compression system for solid-state battery research with independent dual-platen heating up to 300°C, 30-ton hydraulic press, and automatic pressure compensation for precise sample fabrication. Ideal for electrolyte compaction and composite lamination. With programmable cooling and safety interlocks.

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Parameter	Specification	Details / Control Capabilities
Model	MY14	Standard lab configuration
Maximum Pressure	30 T (Tons)	Hydraulic actuation
Pressure Control Precision	±0.15 T	High-precision sensor feedback loop
Pressure Retention & Compensation	Automatic	Programmed logic continuously compensates for material shrinkage
Dwell/Holding Time Control	Programmable	Automated release upon cycle completion
Platen Dimensions	500 × 500 mm	Ground tool steel platens
Max Platen Opening Height	100 mm	Vertical daylight clearance
Working Temperature Range	Ambient to 300 °C	Continuous operation capability
Dual Platen Heating Power	8,000 W	High-density cartridge heaters
Heating Control Method	Programmable	Dual-loop PID with ramp/slope rate control
Cooling Method	Circulating Water Cooling	Integrated internal cooling channels
Power Supply	Three-phase, 380V, 50Hz	Standard industrial power requirement
External Dimensions	980 × 890 × 1,550 mm	Compact laboratory footprint
Equipment Weight	860 kg	Floor-standing, low-vibration design