

Micro Desktop Precision Servo Hot Press 1.8 Ton 60X60Mm Dual Plate Programmable Oil Free Ce Certified

Item Number: XP76



Introduction

This compact desktop servo hot press delivers 1.8-ton precision pressing with 60x60mm dual heated platens, programmable temperature control up to 200°C, and oil-free operation for clean labs. Ideal for battery research, polymer films, and sample preparation.

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Application	Description	Key Benefit
Battery Electrode Pressing	Compact press for calendaring anode/cathode materials on metal foils under heat and pressure.	Uniform thickness and density for reproducible coin cell or pouch cell performance.
Hot Embossing	Precision replication of micro- and nanostructures onto thermoplastic surfaces.	High-resolution pattern transfer with consistent temperature and pressure control.
Polymer Thin Film Fabrication	Melting and compressing polymer pellets into films for optical, barrier, or dielectric testing.	Homogeneous films with controllable thickness and minimal air entrapment.
XRF Pellet Preparation	Pressing powder samples into solid discs for X-ray fluorescence analysis.	Dense, flat pellets ensuring accurate elemental analysis.
Sample Lamination	Bonding layered materials such as multi-layer films or composite structures.	Uniform bonding strength across small sample areas without voids.
Material Testing Specimens	Compressing powdered or granular materials into standardized shapes for mechanical or thermal analysis.	Consistent specimen dimensions and density for reliable test data.

Parameter	Specification	Remarks
Model	XP76	Desktop micro precision servo hot press
Max. Safe Working Force	0 - 1,800 kgf (approx. 1.8 metric tons)	Servo motor controlled precision pressing/holding
Driving Method	Electric servo actuator	100% oil-free, no hydraulic system
Pressure Control Accuracy	< 2%	High repeatability
Heated Platen Size	60 × 60 mm	Compact micro platens
Daylight / Platen Opening	30 mm	Ensure mold thickness is less than 30 mm
Max. Heating Temperature	200 °C	Operating range: 0 - 200 °C
Temperature Control	Dual-plate independent, programmable with ramp rates	Multi-step ramp and soak profiles
Total Heating Power	600 W (0.6 kW)	Low power consumption
Platen Cooling Method	Water circulation cooling	Chiller is optional, not included in base price
Overall Dimensions (WxDxH)	300 × 300 × 500 mm	Extremely space-saving
Net Weight	Approx. 100 kg	Rigid, vibration-resistant frame
Power Requirement	Single-phase AC 220 V, 50 Hz	Compatible with European standard sockets (Type F)

Parameter	Specification	Remarks
Compliance	CE Certified	English manual and certificate included