Laboratory 15 Ton 400X400Mm Automatic Hot Press With Independent Heated Platens

Item Number: XP88

Introduction

Laboratory 15 ton automatic hot press with 400x400mm heated platens, independent temperature control to 200°C, hydraulic operation, programmable touchscreen. Ideal for XRF sample prep, polymer laminating, and film fabrication. Fast cooling option, CE certified. Get a quote today.

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Application	Description	Key Benefit
XRF Sample Preparation	Presses powdered samples into uniform pellets for X-ray fluorescence analysis, ensuring consistent density and flat surface.	High reproducibility and minimal contamination, meeting stringent analytical standards.
Polymer Film Fabrication	Melts and presses polymer granules or sheets into thin films of precise thickness for material testing and R&D.	Independent platen heating ensures uniform melt and film quality.
Hot Embossing	Creates micro- and nano-structures on polymer substrates through controlled heat and pressure, used in microfluidics and optics.	Accurate temperature and pressure control enable fine feature replication.
Laminating	Bonds multiple layers of materials such as composites or electronics under heat and pressure.	Even heating prevents delamination and ensures strong, void-free bonds.
Battery Research	Prepares electrode materials and solid-state battery components, including stacking and densification of layers.	Programmable recipes allow precise processing of air-sensitive materials in inert-atmosphere setups.
Quality Control Sample Prep	Produces standardized test specimens for tensile, impact, and other mechanical tests across industries.	Fast cooling and automation boost throughput for high-volume QC labs.
Ceramic Processing	Compacts ceramic powders into green bodies for sintering with precisely controlled density.	Uniform pressure and heating reduce cracking and variability in final ceramics.
Pharmaceutical R&D	Develops tablet formulations by compressing powder blends into consistent tablet shapes for dissolution testing.	Accurate force control ensures reproducible hardness and disintegration properties.

Parameter	XP88-1 (with Chiller Package)	XP88-2 (Standard Configuration)
Heated Platen Size	400 x 400 mm	400 x 400 mm
Rated Heating Power	6 kW	2 x 4000 W (independent per platen)
Heating Control	Dual platen, independent programmable control	Two independently heated platens
Working Temperature Range	0 – 200 °C	0 – 200 °C
Working Pressure Range	0 – 15 Ton	0 – 15 Ton
Pressure Source	Hydraulic	Hydraulic
Press Plate Spacing	60 mm	50 mm
Cooling Method	Circulating water rapid cooling (chiller included)	Circulating water cooling (chiller optional)
Controller	7-inch touchscreen controller	PID programmable touchscreen, English interface, data logging, data export
Power Supply	Single-phase AC 230 V, 50 Hz	Three-phase AC 400 V, 50 Hz

Parameter	XP88-1 (with Chiller Package)	XP88-2 (Standard Configuration)
Safety Protection	Automatic stop upon door opening	Not specified
Certifications	CE	CE
Main Unit Dimensions (WxDxH)	1100 x 600 x 1200 mm	Not provided
Chiller Dimensions (WxDxH)	470 x 670 x 890 mm	N/A (chiller not included)