

Manual Hydraulic Hot Press 5 Ton With 330X330Mm Platens Programmable Temperature Control

Item Number: XP47



Introduction

KINTEK's manual hydraulic hot press delivers precise 5-ton force and uniform heating up to 300°C on 330x330mm platens, ideal for polymer films, flexible electronics, and composite material research. Water cooling and programmable touchscreen ensure consistent, high-quality sample preparation.

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Application	Description	Key Benefit
Polymer Film Lamination	Hot-press lamination of plastic, rubber, and composite films for material characterization and prototyping.	Large platen and low pressure prevent film distortion and thickness variation.
Flexible Electronics Assembly	Precision bonding of flexible printed circuits (FPCs), conductive traces, and thin-film components.	Uniform low-pressure and accurate temperature control ensure delicate bonding without circuit damage.
Textile & Leather Coating	Lamination and surface coating testing for specialty textiles, synthetic leather, and functional fabrics.	Even heat distribution and water cooling enable rapid cycling for throughput-sensitive material trials.
Laboratory Specimen Preparation	Teaching and small-batch R&D sample pressing for new material formulation screening.	Simple manual operation and programmable profiles support reproducible academic and industrial research.

Specification	Value
Model	XP47
Pressure Drive	Manual Hydraulic (hand lever)
Force Range	0 - 5 tons (0 - 49 kN)
Maximum Surface Pressure	0 - 4.5 Bar (approx. 0.45 MPa)
Platen Size	330 × 330 mm (dual independent heating)
Maximum Daylight Opening	150 mm
Lower Platen Stroke	50 mm
Temperature Range	0 - 300 °C
Maximum Heating Power	3500 W (3.5 kW)
Controller	Programmable touchscreen PID controller
Cooling Method	Water-cooled channels (chiller recommended)
Power Supply	Single-phase AC 220 V, 50 Hz (16 A socket)
Weight	370 kg
Dimensions (H×W×D)	approx. 950 × 600 × 525 mm