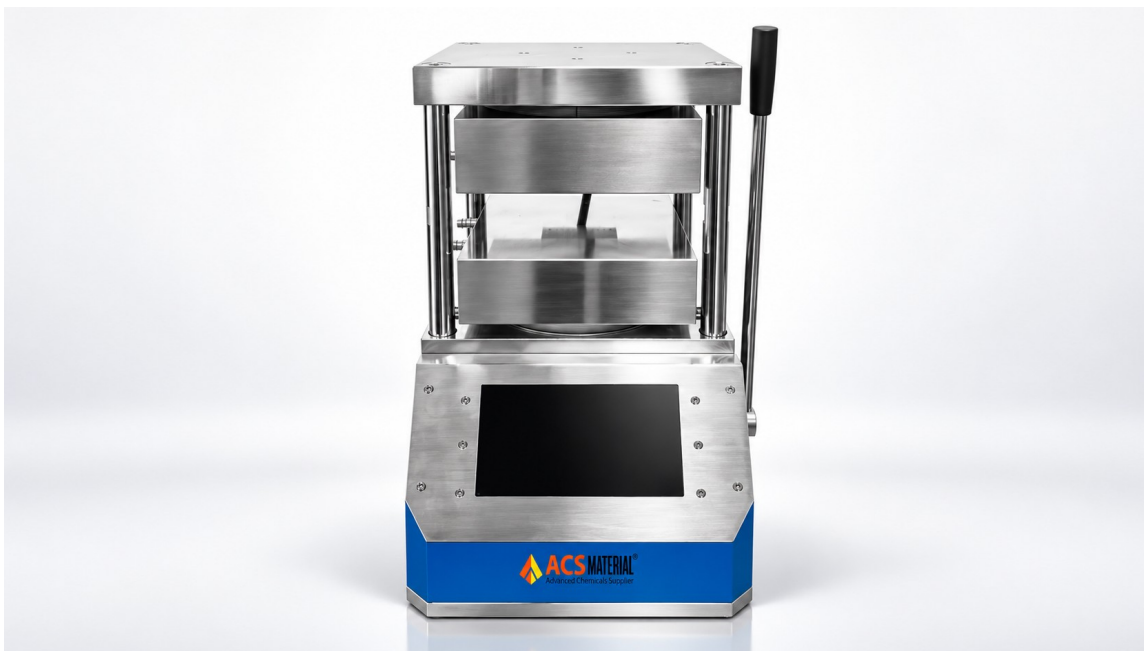


TECHNICAL DATA SHEET

PressPro™ Dual Flat Heating Plate Hot Press Machine

Manual pressurization · dual flat heating plate up to 500°C · 30-stage programmable temperature control · 7-inch touch LCD



PressPro™ EPHPME Series — Representative Configuration

The PressPro™ Dual Flat Heating Plate Hot Press Machine (EPHPME and EPHPMEG series) covers ten models with maximum press capacities up to 30 T. Image shown for reference. Dimensions and configuration vary by model.

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SECTION I

Product Overview

The PressPro™ Dual Flat Heating Plate Hot Press Machine (EPHPME and EPHPMEG series) uses hydraulic manual drive in a compact integrated structure: a manual hydraulic press with integrated 7-inch touch LCD control and customizable hot pressing molds. The dual flat heating plates — with the upper plate fixed and polished surface plates — combine manual pressurization with 30-stage programmable temperature control, especially suitable for hot pressing experiments on thin samples such as plastic films. The touchscreen calculates the sample pressure (MPa) automatically in real time.

The EPHPME series covers five models (EPHPME00, EPHPME01, EPHPME02, EPHPME03, EPHPME04) with maximum press capacities of 10 T, 24 T and 30 T, heating plates of 150×150mm to 400×400mm, and heating from room temperature to 300°C / 0.01°C. The EPHPMEG series covers five models (EPHPMEG0, EPHPMEG1, EPHPMEG2, EPHPMEG3, EPHPMEG4) with the same capacities and plate sizes, and heating from room temperature to 500°C / 0.01°C. A water chiller is required when the temperature exceeds 300°C. Die molds are optional and customizable, not included.

SECTION II

Core Advantages

- **Manual hydraulic drive** — manual pressurization / manual gradual pressurization, manual pressure relief; hydraulic cylinder drive with hands-on control of the pressing force
- **Dual flat heating plates, upper plate fixed** — heating and pressing on both the upper and the lower flat plates; polished surface plates with easy positioning; the fixed upper plate delivers higher parallelism
- **Up to 500°C heating, depending on the model** — heating from room temperature to 300°C / 0.01°C (EPHPME series) or 500°C / 0.01°C (EPHPMEG series)
- **Real-time sample pressure conversion** — automatic calculation of the sample pressure (MPa) in real time
- **Compact integrated structure** — manual hydraulic press with integrated 7-inch touch LCD control; fixed upper heating plate for higher parallelism
- **30-stage programmable temperature control** — 30-stage programmable temperature control with automatic heating, programmed heating profiles, controlled-rate heating, automatic temperature holding, and natural cooling; temperature hold time unlimited seconds, configurable per stage
- **7-inch touch LCD screen** — pressure display - temperature control system - data management system on a 7-inch touch LCD screen; remote control optional
- **High-temperature safety configuration** — when the temperature exceeds 50°C, the temperature controller automatically signals “Caution: Hot Surface”; power supply with leakage protector; a water chiller is required when the temperature exceeds 300°C
- **Flexible configuration** — hot pressing molds optional and customizable (not included); air/water cooling chiller optional; workspace height extendable; two series and ten models for sample-size and tonnage selection

SECTION III

Specifications

Technical data

Specifications	
Brand	PressPro™ by ACS Material
Models (SKU)	EPHPME00 · EPHPME01 · EPHPME02 · EPHPME03 · EPHPME04 · EPHPMEG0 · EPHPMEG1 · EPHPMEG2 · EPHPMEG3 · EPHPMEG4
Series	EPHPME and EPHPMEG – Dual Flat Heating Plate Hot Press Machine
Available Maximum Capacities	10 / 24 / 30 T, depending on model
Pressurization Method	Manual pressurization / manual gradual pressurization, manual pressure relief

Control Interface	7-inch touch LCD screen (remote control optional); pressure display – temperature control system – data management system
Sample Pressure Conversion	Real-time automatic calculation of sample pressure (MPa)
Temperature Control System	30-stage programmable temperature control with automatic heating, programmed heating profiles, controlled-rate heating, automatic temperature holding, and natural cooling
Temperature Hold Time	Unlimited seconds, configurable per stage
Hot Pressing Plate Cooling Method	Natural cooling (air/water cooling chiller optional)
Insulation Method	Imported insulation plate + stainless steel water-cooled insulation plate. A water chiller is required when the temperature exceeds 300°C.
High-temperature Safety Configuration	When the temperature exceeds 50°C, the temperature controller automatically signals "Caution: Hot Surface"
Power Supply	220V (50Hz/60Hz) with leakage protector
Configuration	1 main machine; air/water cooled chiller optional, not included; workspace height extendable; hot pressing molds customizable according to requirements

EPHPME series

Specifications					
Parameter	EPHPME00	EPHPME01	EPHPME02	EPHPME03	EPHPME04
Pressure Range	0-10T/0.01t	0-10T/0.01t	0-10T/0.01t	0-24T/0.01t	0-30T/0.01t
Piston Diameter	-	-	-	-	-
Max Piston Stroke	<60mm (Warning! Please do not exceed the cylinder's rising height.)				
Hot Pressing Plate Type	Dual flat plate heating and pressing, polished surface plate, easy positioning, upper plate fixed.				
Hot Pressing Plate Size	150×150mm	180×180mm	200×200mm	300×300mm	400×400mm
Workspace	W 150×55mm	W 180×55mm	W 200×55mm	W 300×55mm	W 400×55mm
Heating Temperature	Room temperature to 300°C / 0.01°C	Room temperature to 300°C / 0.01°C	Room temperature to 300°C / 0.01°C	Room temperature to 300°C / 0.01°C	Room temperature to 300°C / 0.01°C
Maximum Power	1300W	1900W (900W×2+100W)	1900W (900W×2+100W)	4200W	5100W
Overall Dimensions	300×400×430mm	350×400×440mm	350×400×440mm	450×410×450mm	560×600×620mm
Approx. Weight	60kg	90kg	95kg	360kg	420kg

EPHPMEG series

Specifications					
Parameter	EPHPMEG0	EPHPMEG1	EPHPMEG2	EPHPMEG3	EPHPMEG4
Pressure Range	0-10T/0.01t	0-10T/0.01t	0-10T/0.01t	0-24T/0.01t	0-30T/0.01t
Piston Diameter	-	-	-	-	-
Max Piston Stroke	<60mm (Warning! Please do not exceed the cylinder's rising height.)				
Hot Pressing Plate Type	Dual flat plate heating and pressing, polished surface plate, easy positioning, upper plate fixed.				
Hot Pressing Plate Size	150×150mm	180×180mm	200×200mm	300×300mm	400×400mm
Workspace	W 150×55mm	W 180×55mm	W 200×55mm	W 300×55mm	W 400×55mm
Heating Temperature	Room temperature to 500°C / 0.01°C	Room temperature to 500°C / 0.01°C	Room temperature to 500°C / 0.01°C	Room temperature to 500°C / 0.01°C	Room temperature to 500°C / 0.01°C
Maximum Power	1300W	1900W (900W×2+100W)	1900W (900W×2+100W)	4200W	5100W
Overall Dimensions	300×400×430mm	350×400×440mm	350×400×440mm	450×410×450mm	560×600×620mm
Approx. Weight	60kg	90kg	95kg	360kg	420kg

Scope of delivery

— **Standard configuration** — EPHPME and EPHPMEG series main machine (dual flat heating plate hot press with integrated 7-inch touch LCD control)

— **Optional, not included** — air/water cooled chiller; hot pressing molds customizable according to requirements

Final accessories and scope of supply are confirmed in the quotation.

SECTION IV

Applications

Especially suitable for hot-pressing experiments on thin samples such as plastic films. The integrated manual hydraulic design combines fixed upper heating plates with programmable temperature control. Select the model, plate size, temperature range, and pressing capacity according to the sample and experimental requirements.

Product value: ten models with maximum press capacities up to 30 T, dual flat heating plates up to 500°C, and 30-stage programmable temperature control with automatic heating and temperature holding. A water chiller is required when the temperature exceeds 300°C. Confirm the selected model, heating temperature, plate size and mold against your sample dimensions and application requirements before ordering.

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