

TECHNICAL DATA SHEET

PressPro™ Automatic Isostatic Heat Press Machine

Warm isostatic pressing · 20T / 30T / 40T / 60T · automatic · chamber heating to 200°C



PressPro™ EPSXA Series — Representative Configuration

The PressPro™ Automatic Isostatic Heat Press Machine (EPSXA series) is an automatic warm isostatic press with chamber heating to 200°C. Image shown for reference; dimensions and configuration vary by model.

CONTENTS

- 01** Product Overview
- 02** Core Advantages
- 03** Specifications
- 04** Applications

ACS MATERIAL, LLC

959 E Walnut St., Suite 100
Pasadena, CA 91106, USA
Phone +1 (866) 227-0656
Fax +1 (781) 518-0284
contact@acsmaterial.com
Revision Date **10/03/2026**

SECTION I

Product Overview

The PressPro™ Automatic Isostatic Heat Press Machine (EPSXA series) is a warm isostatic press: an electric heating module wraps the exterior of the isostatic chamber, and thermal conduction heats the chamber, the liquid inside, and the samples to the required experimental temperature. It is suitable for new-material research and development.

Four models: EPSXA020 (20T), EPSXA030 (30T), EPSXA040 (40T), and EPSXA060 (60T). Chamber dimensions and pressure ratings (cold and warm) are specified per model in the comparison table.

SECTION II

Core Advantages

- **Warm isostatic pressing to 200°C** — electric heating module wraps the chamber; 30-stage programmable temperature control
- **Chamber matched per model** — dimensions and cold/warm pressure ratings per tonnage
- **Multiple safety protections** — steel plate, bulletproof glass door, leakage protection, emergency stop; auto relief on limit and overpressure
- **Fully automatic pressing cycle** — auto pressurization - holding - compensation - timed relief; 5 stages (upgradeable to 30)
- **7-inch touch screen control** — pressure system - temperature control - data management - (USB upgradeable); remote control optional
- **Customizable** — custom warm isostatic press configurations on request

SECTION III

Specifications

Technical data — all models

Specifications	
Brand	PressPro™ by ACS Material
Models (SKU)	EPSXA020 · EPSXA030 · EPSXA040 · EPSXA060
Drive	Electro-hydraulic drive
Pressurization Method	Automatic pressurization / gradual pressurization
Pressing Cycle	Automatic pressurization - automatic pressure holding - precise pressure compensation - timed pressure relief
Pressurization Stages	5 segments, configurable (upgradeable to 30 segments)
Temperature Control System	30-stage programmable temperature control with automatic heating, programmed heating profiles, controlled-rate heating, automatic temperature holding, and natural cooling
Chamber Heating Range	Room temperature - 200°C / 0.1°C
Temperature / Pressure Hold Time	Unlimited seconds, configurable per stage
Control Interface	7-inch touch LCD screen (remote control optional)
Touch Screen Functions	Pressure system - temperature control system - data management system (USB upgradeable)
Sample Pressure Conversion	Real-time automatic calculation of sample pressure (MPa)
Hydraulic Cylinder Limit Protection	Automatic pressure relief when the cylinder rises and touches the limit switch
System Safety Configuration	Automatic pressure relief when system pressure exceeds the safe value
Safety Configuration	Steel plate protection, bulletproof glass protection door, leakage protection, emergency stop switch
Power Supply	220V (50Hz/60Hz)
Configuration	One warm isostatic press; custom warm isostatic press configurations available on request

EPSXA series

Specifications				
Parameter	20T (EPSXA020)	30T (EPSXA030)	40T (EPSXA040)	60T (EPSXA060)
Pressure Range	1-20T / 0.1t	1-30T / 0.1t	1-40T / 0.1t	1-60T / 0.1t
Max Piston Stroke	40 mm	40 mm	40 mm	40 mm
Isostatic Chamber Dimensions	Φ22×70 mm	Φ30×120 mm	Φ40×120 mm	Φ50×150 mm
Chamber Pressure (Cold)	≤300MPa / 12t	≤300MPa / 22t	≤300MPa / 39t	≤300MPa / 60t
Chamber Pressure (Warm)	≤200MPa / 8t	≤200MPa / 15t	≤200MPa / 26t	≤200MPa / 40t
Overall Dimensions	370×460×630 mm	370×460×630 mm	370×460×650 mm	400×560×750 mm
Approx. Weight	~140 kg	~180 kg	~260 kg	~260 kg

Scope of delivery— **Standard configuration** — one warm isostatic press— **Optional, not included** — custom warm isostatic press configurations available on request

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

SECTION IV**Applications**

The PressPro™ EPSXA series is an automatic warm isostatic press with chamber heating to 200°C, well suited to new-material research and development. The full automatic pressing cycle — automatic pressurization, automatic pressure holding, precise pressure compensation and timed pressure relief — runs across 5 configurable stages. Four models cover maximum press capacities of 20 T, 30 T, 40 T and 60 T.

Product value: 20T / 30T / 40T / 60T automatic warm isostatic press with chamber heating to 200°C, model-specific chamber dimensions, and 7-inch touch screen control. Confirm the selected model and chamber size against your application requirements before ordering.

Revision Date: 10/03/2026**DISCLAIMER**

PressPro™ is a trademark of ACS Material, LLC. ACS Material, LLC believes that the information in this Technical Data Sheet is accurate and represents the best and most current information available to us. ACS Material makes no representations or warranties, either express or implied, regarding the suitability of the equipment for any application or the accuracy of the information contained within this document. Specifications are typical and may vary; confirm product details and application suitability at the time of quotation. Accordingly, ACS Material will not be responsible for damages resulting from use of or reliance upon this information.