

TECHNICAL DATA SHEET

PressPro™ Large-Tonnage Automatic Isostatic Press Machine

Cold isostatic pressing · 65T / 100T / 150T / 200T · automatic · split structure · chamber pressure up to 300 MPa



PressPro™ EPSA Series — Representative Configuration

The PressPro™ Large-Tonnage Automatic Isostatic Press Machine (EPSA series) is an automatic cold isostatic press with a split structure and intelligent program control. Image shown for reference; dimensions and configuration vary by model.

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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
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SECTION I

Product Overview

The PressPro™ Large-Tonnage Automatic Isostatic Press Machine (EPSA series) uses electro-hydraulic drive with a split structure, intelligent program control, and multiple safety protections. After pressing, the chamber moves easily to the sampling platform — ideal for large-tonnage, large-size sample isostatic pressing.

Four models: EPSA065Z (65T), EPSA100Z (100T), EPSA150Z (150T), and EPSA200Z (200T). Chamber dimensions and pressure ratings are specified per model in the comparison table (chamber pressure $\leq 300\text{MPa}$).

SECTION II

Core Advantages

- **Large tonnage, split structure** — 65–200 T; control box separate from main machine
- **Chamber matched per model** — dimensions and pressure ratings per tonnage ($\leq 300\text{MPa}$)
- **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 - data management - (USB upgradeable); remote control optional
- **Customizable** — custom 500MPa configurations or rubber molds on request

SECTION III

Specifications

Technical data — all models

Specifications	
Brand	PressPro™ by ACS Material
Models (SKU)	EPSA065Z · EPSA100Z · EPSA150Z · EPSA200Z
Drive	Electro-hydraulic drive, split structure
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)
Pressure Holding Time	Unlimited seconds, configurable per stage
Control Interface	7-inch touch LCD screen (remote control optional)
Touch Screen Functions	Pressure 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)
Maximum Power	700W
Chamber Pressure Rating	$\leq 300\text{MPa}$ (tonnage varies by model)
Configuration	Split structure: 1 main machine + 1 control box + 1 set of isostatic pressure chamber; custom 500MPa isostatic press configurations or rubber molds available on request

EPSA series

Specifications				
Parameter	65T (EPSA065Z)	100T (EPSA100Z)	150T (EPSA150Z)	200T (EPSA200Z)
Pressure Range	1-65T / 0.1t	1-100T / 0.1t	1-150T / 0.1t	1-200T / 0.1t
Piston Diameter	Φ160 mm	Φ200 mm	Φ250 mm	Φ290 mm
Max Piston Stroke	<50 mm	<50 mm	<50 mm	<50 mm
Isostatic Chamber Dimensions	Φ50×150 mm	Φ60×150 mm	Φ80×150 mm	Φ90×150 mm
Chamber Pressure Range	≤300MPa / 60t	≤300MPa / 87t	≤300MPa / 154t	≤300MPa / 195t
Main Machine Dimensions	330×400×930 mm	380×520×930 mm	420×600×1050 mm	480×650×1150 mm
Control Box Dimensions	400×280×400 mm	500×350×480 mm		
Approx. Weight	~330 kg	~480 kg	~680 kg	~970 kg

Scope of delivery

— **Standard configuration** — one main machine + one control box + one set of isostatic pressure chamber

— **Optional, not included** — molds (customizable); custom 500MPa isostatic press configurations or rubber molds available on request

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

SECTION IV

Applications

The PressPro™ EPSA series is a large-tonnage automatic cold isostatic press with a split structure and intelligent program control, well suited to isostatic pressing experiments requiring large tonnages and large-size samples. 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 65 T, 100 T, 150 T and 200 T.

Product value: 65T / 100T / 150T / 200T automatic cold isostatic press with model-specific chamber dimensions and pressure ratings, split structure, and 7-inch touch screen control. Confirm the selected model and chamber size against your application requirements before ordering.

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