

TECHNICAL DATA SHEET

PressPro™ Manual Isostatic Press Machine

Cold isostatic pressing · 20T / 30T / 40T / 60T · manual hydraulic · isostatic chamber included



PressPro™ EPSM Series — Representative Configuration

The PressPro™ Manual Isostatic Press Machine (EPSM series) is a manual hydraulic cold isostatic press. Image shown for reference; dimensions and configuration vary by model.

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SECTION I

Product Overview

The PressPro™ Manual Isostatic Press Machine (EPSM series) uses manual hydraulic drive and is the entry-level model in the isostatic press range. The isostatic chamber needs to be moved each time a sample is made or taken. It is suitable for making a small number of samples where high work efficiency is not required, and is best operated with strength and high safety awareness. The EPSM series covers eight models: EPSMP020 / EPSMD020 (20T), EPSMP030 / EPSMD030 (30T), EPSMP040 / EPSMD040 (40T), and EPSMP060 / EPSMD060 (60T), with manual hydraulic pressurization. P = pointer gauge, D = digital display. Each model includes one isostatic pressure chamber (chamber pressure ≤ 300 MPa).

SECTION II

Core Advantages

- **Manual hydraulic drive** — hand-operated pressurization and gradual pressurization with manual pressure relief
- **Isostatic chamber included** — each model supplied with one isostatic pressure chamber (chamber pressure ≤ 300 MPa); chamber removable for use as a conventional tablet press
- **Pointer or digital gauge** — pointer: dual scales in t and MPa (manufacturer-stated display accuracy: 1 MPa); digital: manufacturer-stated display accuracy 0.01 t or 0.01 MPa
- **20T / 30T / 40T / 60T capacity** — eight models across four tonnages with matched chamber dimensions
- **Safe operation** — bulletproof glass protection door; observe cylinder rising height warning
- **Customizable** — custom 500MPa isostatic press configurations or rubber molds available on request

SECTION III

Specifications

Technical data — all models

Specifications	
Brand	PressPro™ by ACS Material
Product Name	PressPro™ Manual Isostatic Press Machine
Series (Parent SKU)	EPSM
Models (SKU)	EPSMP020 · EPSMD020 · EPSMP030 · EPSMD030 · EPSMP040 · EPSMD040 · EPSMP060 · EPSMD060
Drive	Manual hydraulic drive
Pressurization Method	Manual pressurization / manual gradual pressurization, manual pressure relief
Pressure Gauge Type	Pointer gauge with dual scales in t and MPa; manufacturer-stated display accuracy: 1 MPa. Digital gauge; manufacturer-stated display accuracy: 0.01 t or 0.01 MPa
Safety Configuration	Bulletproof glass protection door
Chamber Pressure Rating	≤ 300 MPa (tonnage varies by model)
Configuration	1 hydraulic press + 1 set of isostatic pressure chamber; custom 500MPa isostatic press configurations or rubber molds available on request

EPSM series

Specifications				
Parameter	20T (EPSMP020 / EPSMD020)	30T (EPSMP030 / EPSMD030)	40T (EPSMP040 / EPSMD040)	60T (EPSMP060 / EPSMD060)
Pressure Range	0-20T / 28.4MPa	0-30T / 31.5MPa	0-40T / 30MPa	0-60T / 34MPa
Pressure Conversion	1MPa=0.7t / 1t=1.42MPa	1MPa=0.95t / 1t=1.05MPa	1MPa=1.33t / 1t=0.75MPa	1MPa=1.76t / 1t=0.56MPa
Piston Diameter	Φ95 mm	Φ110 mm	Φ130 mm	Φ150 mm
Max Piston Stroke	<30mm	<40mm	<50mm	<50mm
Pressure Gauge Type	Pointer gauge with dual scales in t and MPa; manufacturer-stated display accuracy: 1 MPa; Digital gauge; manufacturer-stated display accuracy: 0.01 t or 0.01 MPa			
Pressurization Method	Manual pressurization / manual gradual pressurization, manual pressure relief			
Safety Configuration	Bulletproof glass protection door			
Isostatic Chamber Dimensions	Φ22×70mm	Φ30×120mm	Φ40×150mm	Φ50×150mm
Chamber Pressure Range	≤300MPa / 12t	≤300MPa / 22t	≤300MPa / 39t	≤300MPa / 60t
Overall Dimensions	310×200×680mm	310×200×680mm	360×225×710mm	440×240×720mm
Approx. Weight	~90 kg	~100 kg	~130 kg	~180 kg

Scope of delivery

— **Standard configuration** — one hydraulic press + one set of isostatic pressure chamber (chamber size matched to model) — **Optional, not included** — molds; custom 500MPa isostatic press configurations or rubber molds available

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

SECTION IV

Applications

The PressPro™ EPSM series is an entry-level manual cold isostatic press for preparing small batches of samples. The isostatic chamber is moved for each sample; with the chamber removed, the press can be used as a conventional tablet press. Eight models cover maximum press capacities of 20 T, 30 T, 40 T and 60 T.

Product value: 20T / 30T / 40T / 60T manual cold isostatic press with isostatic chamber included (≤300MPa) and pointer or digital gauge options. Confirm the selected model and chamber size against your application requirements before ordering.

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