

TECHNICAL DATA SHEET

## PressPro™ Automatic Isostatic Press Machine

*Cold isostatic pressing • 20T / 30T / 40T / 60T / 100T • automatic • chamber pressure up to 300 MPa*



**PressPro™ EPSPA Series — Representative Configuration**

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

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## SECTION I

## Product Overview

The PressPro™ Automatic Isostatic Press Machine (EPSPA series) uses electro-hydraulic drive with an integrated upper plate swing arm structure. With its attractive design, simple operation process, intelligent program control system, stable and reliable pressure data with precise pressure control, and multiple safety protection devices, it is well suited to high-end laboratories.

The EPSPA series covers five models: EPSPA020 (20T), EPSPA030 (30T), EPSPA040 (40T), EPSPA060 (60T), and EPSPA100 (100T), with automatic pressurization. Chamber dimensions and pressure ratings are specified for each model in the comparison table (chamber pressure  $\leq 300\text{MPa}$ ).

## SECTION II

## Core Advantages

- **Fully automatic pressing cycle** — automatic pressurization - automatic pressure holding - precise pressure compensation - timed pressure relief; 5 configurable stages (upgradeable to 30 segments)
- **7-inch touch screen control** — pressure system - data management system - Chinese/English interface (USB upgradeable); remote control optional
- **Multiple safety protections** — steel plate protection, bulletproof glass protection door, leakage protection and emergency stop; automatic relief on cylinder limit and system overpressure
- **Chamber matched per model** — isostatic chamber dimensions and pressure ratings specified for each tonnage (chamber pressure  $\leq 300\text{MPa}$ ); see the model comparison table
- **20T / 30T / 40T / 60T / 100T capacity** — five models across five tonnages with matched chamber dimensions
- **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™ Automatic Isostatic Press Machine                                                                   |
| Models (SKU)                        | EPSPA020 · EPSPA030 · EPSPA040 · EPSPA060 · EPSPA100                                                          |
| Drive                               | Electro-hydraulic drive, integrated upper plate swing arm 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 - Chinese/English interface (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                       | 400W                                                                                                          |
| Chamber Pressure Rating             | $\leq 300\text{MPa}$ (tonnage varies by model)                                                                |
| Configuration                       | One automatic isostatic press.                                                                                |

**EPSPA series**

| Specifications               |                   |                   |                   |                   |                    |
|------------------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Parameter                    | 20T<br>(EPSPA020) | 30T<br>(EPSPA030) | 40T<br>(EPSPA040) | 60T<br>(EPSPA060) | 100T<br>(EPSPA100) |
| Pressure Range               | 0.3-20T / 0.1t    | 0.3-30T / 0.1t    | 0.5-40T / 0.1t    | 1-60T / 0.1t      | 1-100T / 0.1t      |
| Piston Diameter              | Φ95 mm            | Φ110 mm           | Φ130 mm           | Φ150 mm           | Φ200 mm            |
| Max Piston Stroke            | <30 mm            | <30 mm            | <40 mm            | <50 mm            | <50 mm             |
| Isostatic Chamber Dimensions | Φ22×70 mm         | Φ30×150 mm        | Φ40×150 mm        | Φ50×150 mm        | Φ60×150 mm         |
| Chamber Pressure Range       | ≤300MPa / 12t     | ≤300MPa / 22t     | ≤300MPa / 39t     | ≤300MPa / 60t     | ≤300MPa / 87t      |
| Overall Dimensions           | 340×430×580 mm    | 340×430×580 mm    | 370×460×630 mm    | 370×460×650 mm    | 400×560×750 mm     |
| Approx. Weight               | ~110 kg           | ~120 kg           | ~180 kg           | ~240 kg           | ~290 kg            |

**Scope of delivery**

— **Standard configuration** — one automatic isostatic press — **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™ EPSPA series is a high-end automatic cold isostatic press with intelligent program control, well suited to high-end laboratories. The full automatic pressing cycle — automatic pressurization, automatic pressure holding, precise pressure compensation and timed pressure relief — runs across 5 configurable stages. Five models cover maximum press capacities of 20 T, 30 T, 40 T, 60 T and 100 T.

Product value: 20T / 30T / 40T / 60T / 100T automatic cold isostatic press with model-specific chamber dimensions and pressure ratings, and 7-inch touch screen control. Confirm the selected model and chamber size against your application requirements before ordering.

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