TECHNICAL DATA SHEET

PressPro™ Two Cylinder Small Tonnage Powder Press Machine

Manual hydraulic press · 2–15 T · pointer or digital gauge · compact, glove-box ready

PressPro™ EPPM2P / EPPM2D series two-cylinder manual powder press — manual hydraulic drive, handwheel and lever, pointer or digital pressure gauge. Image shown for reference; dimensions and configuration vary by model.

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SECTION I

Product Overview

The PressPro™ Two Cylinder Small Tonnage Powder Press Machine (EPPM2P / EPPM2D series) is a compact manual hydraulic laboratory pellet press. The 2 Cylinder Pointer Manual Pellet Press series (EPPM2P) features low tonnage, compact size, light weight and easy portability, making it ideal for use inside glove boxes. With specific molds, it can compress various powder materials for applications in research, teaching, testing, catalysis, pharmaceuticals and other fields. The 2 Cylinder Digital Display Manual Pellet Press series (EPPM2D) is an upgrade of the original press, integrating a digital pressure gauge that directly displays tonnage without the need for conversion. Five tonnages cover 2–15 T; die molds are optional and not included with the main machine.

SECTION II

Core Advantages

— **Two gauge options** — pointer gauge on 2P models, digital display gauge on 2D models showing tonnage directly

— **Manual control, stable holding** — manual pressurization and manual gradual pressurization with pressure stability of ≤1 MPa / 10 min

— **Compact and portable** — low tonnage, small footprint and light weight — easy to move and ideal for glove-box use

— **Made for lab pellet work** — presses powders such as KBr, NaCl and Al2O3 into pellets, columns and special-shaped bodies for IR, XRF and materials research

SECTION III

Specifications

Technical data

Specifications	
Brand	PressPro™ by ACS Material
Models (SKU)	EPPM-2P02 / 2D02 · EPPM-2P03 / 2D03 · EPPM-2P05 / 2D05 · EPPM-2P12 / 2D12 · EPPM-2P15 / 2D15
Series	EPPM2P – 2 Cylinder Pointer Manual Pellet Press · EPPM2D – 2 Cylinder Digital Display Manual Pellet Press
Available Maximum Capacities	2 / 3 / 5 / 12 / 15 T
Pressurization Method	Manual pressurization / manual gradual pressurization
Pressure Stability	≤1 MPa / 10 min
Configuration	Main machine, 1 unit; die molds optional and not included

Specifications					
Parameter	**2 T**	**3 T**	**5 T**	**12 T**	**15 T**
Pointer Model	EPPM-2P02	EPPM-2P03	EPPM-2P05	EPPM-2P12	EPPM-2P15
Digital Model	EPPM-2D02	EPPM-2D03	EPPM-2D05	EPPM-2D12	EPPM-2D15
Pressure Range	0–2 T / 25 MPa	0–3 T / 28.8 MPa	0–5 T / 31.4 MPa	0–12 T / 30 MPa	0–15 T / 30 MPa
Pressure Conversion	1 MPa = 0.08 T; 1 t = 12.5 MPa	1 MPa = 0.1 T; 1 t = 9.6 MPa	1 MPa = 0.16 T; 1 t = 6.28 MPa	1 MPa = 0.4 T; 1 t = 2.5 MPa	1 MPa = 0.5 T; 1 t = 2 MPa
Piston Diameter	Ø32 mm	Ø35 mm	Ø45 mm	Ø70 mm	Ø80 mm
Max Piston Stroke	<30 mm				
Pressure Gauge Display Specification (as published)	2P: 1 MPa · 2D: 0.01 t or 0.01 MPa				
Pressurization Method	Manual pressurization / manual gradual pressurization				
Pressure Stability	≤1 MPa / 10 min				
Worktable Diameter	Ø68 mm	Ø80 mm	Ø68 mm	Ø78 mm	Ø128 mm
Workspace	W 90 × 106 mm	W 90 × 120 mm	W 90 × 120 mm	W 92 × 150 mm	W 140 × 150 mm
Overall Dimensions	205 × 170 × 370 mm	205 × 170 × 370 mm	205 × 170 × 370 mm	230 × 160 × 420 mm	275 × 210 × 440 mm
Weight	~12 kg	~23 kg	~23 kg	~28 kg	~55 kg

Each tonnage is offered as a pointer model (2P) and a digital model (2D) sharing the same press body and specifications. Max piston stroke is published once for the series. Please confirm these specifications for the selected model before ordering. Never exceed the rated pressure of the model concerned. Gauge choice: 2P = pointer gauge; 2D = digital display gauge showing tonnage directly.

Scope of delivery

— **Standard configuration: EPPM2P / EPPM2D series main machine, 1 unit**

— **Die molds: optional and not included**

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

SECTION IV

Applications

Widely used in new materials, superconductors, powder ceramics, new energy sources, batteries, construction materials and metallurgical powders. Compresses various powder materials such as potassium bromide (KBr), sodium chloride (NaCl) and aluminum oxide (Al2O3); produces pellets, columns and special-shaped bodies for scientific research. Compatible with calcium iron analysis, infrared spectroscopy (IR) and X-ray fluorescence (XRF) analyzers. Suitable for testing the compressive strength of various objects.

Product value: five compact manual tonnages from 2 to 15 T, in pointer or digital display versions — a portable, glove-box-ready hydraulic press for laboratory pellet work.

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