TECHNICAL DATA SHEET

PressPro™ Four Cylinder Small Tonnage Powder Press Machine

Manual hydraulic press · 15–40 T · pointer or digital gauge · compact manual press

PressPro™ EPPM4P / EPPM4D series four-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™ Four Cylinder Small Tonnage Powder Press Machine (EPPM4P / EPPM4D series) is a compact manual hydraulic laboratory pellet press. The 4 Cylinder Pointer Manual Pellet Press series (EPPM4P) features stylish design, exquisite workmanship and wide applicability. It can be paired with specific molds for use with calcium iron analysis, infrared spectroscopy (IR) and X-ray fluorescence (XRF) analyzers, and is widely applied in research and development fields such as superconductors, batteries, powder metallurgy, advanced ceramics, building materials, cement, and the chemical and pharmaceutical industries. The 4 Cylinder Digital Display Manual Pellet Press series (EPPM4D) is an upgrade of the original series hydraulic press, featuring a digital pressure gauge that directly displays tonnage with a precision of 0.01 t, making it ideal for users requiring high-pressure control accuracy. Four tonnages cover 15–40 T; die molds are optional and not included with the main machine.

SECTION II

Core Advantages

— **Two gauge options** — pointer gauge on 4P models, digital display gauge on 4D models showing tonnage directly with 0.01 t precision

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

— **Four capacity options** — maximum press capacities of 15, 24, 30 or 40 T, each available with a pointer or digital pressure gauge

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

SECTION III

Specifications

Technical data

Specifications	
Brand	PressPro™ by ACS Material
Models (SKU)	EPPM-4P15 / 4D15 · EPPM-4P24 / 4D24 · EPPM-4P30 / 4D30 · EPPM-4P40 / 4D40
Series	EPPM4P – 4 Cylinder Pointer Manual Pellet Press · EPPM4D – 4 Cylinder Digital Display Manual Pellet Press
Available Maximum Capacities	15 / 24 / 30 / 40 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	**15 T**	**24 T**	**30 T**	**40 T**
Pointer Model	EPPM-4P15	EPPM-4P24	EPPM-4P30	EPPM-4P40
Digital Model	EPPM-4D15	EPPM-4D24	EPPM-4D30	EPPM-4D40
Pressure Range	0–15 T / 30 MPa	0–24 T / 34 MPa	0–30 T / 31.5 MPa	0–40 T / 30 MPa
Pressure Conversion	1 MPa = 0.5 T; 1 t = 2 MPa	1 MPa = 0.7 T; 1 t = 1.42 MPa	1 MPa = 0.95 T; 1 t = 1.05 MPa	1 MPa = 1.33 T; 1 t = 0.75 MPa
Piston Diameter	Ø80 mm	Ø95 mm	Ø110 mm	Ø130 mm
Max Piston Stroke	<30 mm	<30 mm	<30 mm	<50 mm
Pressure Gauge Display Specification (as published)	4P: not published · 4D: 0.01 t			
Pressurization Method	Manual pressurization / manual gradual pressurization			
Pressure Stability	≤1 MPa / 10 min			
Worktable Diameter	Ø88 mm	Ø108 mm	Ø128 mm	Ø148 mm
Workspace	W 80 × 150 mm	W 80 × 150 mm	W 92 × 160 mm	W 106 × 180 mm
Overall Dimensions	245 × 180 × 420 mm	245 × 180 × 420 mm	275 × 210 × 440 mm	295 × 230 × 490 mm
Weight	~42 kg	~42 kg	~58 kg	~78 kg

Each tonnage is offered as a pointer model (4P) and a digital model (4D) sharing the same press body and specifications. Never exceed the rated pressure of the model concerned. Gauge choice: 4P = pointer gauge; 4D = digital display gauge showing tonnage directly.

Scope of delivery

— **Standard configuration: EPPM4P / EPPM4D 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: four compact manual tonnages from 15 to 40 T, in pointer or digital display versions — a compact manual hydraulic press for laboratory pellet work.

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