TECHNICAL DATA SHEET

PressPro™ Protective Small Tonnage Powder Press Machine

Manual hydraulic press · 15–60 T · pointer or digital gauge · safety protected

PressPro™ EPPMPP / EPPMPD series protective 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™ Protective Small Tonnage Powder Press Machine (EPPMPP / EPPMPD series) is a manual hydraulic laboratory press with added safety protection. It is an upgraded design based on the original EPPM-4 series hydraulic press, and is intended for pressing brittle materials or molds requiring high pressure in laboratories with high safety requirements. The series is offered in two gauge versions: the Protective Pointer Manual Pellet Press series (EPPMPP) with a pointer gauge, and the Protective Digital Display Manual Pellet Press series (EPPMPD) with a digital gauge that displays tonnage directly. Five tonnages cover 15–60 T; die molds are optional and not included with the main machine.

SECTION II

Core Advantages

— **Two gauge options** — pointer gauge on PP models, digital display gauge on PD models showing tonnage directly

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

— **Safety protection built in** — upgraded design with added safety protection features

— **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-PP15 / PD15 · EPPM-PP24 / PD24 · EPPM-PP30 / PD30 · EPPM-PP40 / PD40 · EPPM-PP60 / PD60
Series	EPPMPP – Protective Pointer Manual Pellet Press · EPPMPD – Protective Digital Display Manual Pellet Press
Available Maximum Capacities	15 / 24 / 30 / 40 / 60 T
Pressurization Method	Manual pressurization / manual gradual pressurization
Pressure Stability	≤1 MPa / 10 min
Safety	Upgraded design with added safety protection
Configuration	Main machine, 1 unit; die molds optional and not included

Specifications					
Parameter	**15 T**	**24 T**	**30 T**	**40 T**	**60 T**
Pointer Model	EPPM-PP15	EPPM-PP24	EPPM-PP30	EPPM-PP40	EPPM-PP60
Digital Model	EPPM-PD15	EPPM-PD24	EPPM-PD30	EPPM-PD40	EPPM-PD60
Pressure Range	0–15 T / 30 MPa	0–24 T / 34 MPa	0–30 T / 31.5 MPa	0–40 T / 30 MPa	0–60 T / 34 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	1 MPa = 1.76 T; 1 t = 0.56 MPa
Piston Diameter	Ø80 mm	Ø95 mm	Ø110 mm	Ø130 mm	Ø150 mm
Max Piston Stroke	<30 mm	<30 mm	<40 mm	<50 mm	<50 mm
Pressure Gauge Display Specification (as published)	PP: 1 MPa · PD: 0.01 t or 0.01 MPa				
Pressurization Method	Manual pressurization / manual gradual pressurization				
Pressure Stability	≤1 MPa / 10 min				
Worktable Diameter	Ø88 mm	Ø128 mm	Ø128 mm	Ø148 mm	Ø168 mm
Workspace	W 80 × 150 mm	W 112 × 160 mm	W 112 × 160 mm	W 146 × 180 mm	W 200 × 210 mm
Overall Dimensions	260 × 180 × 420 mm	310 × 200 × 440 mm	310 × 200 × 440 mm	360 × 225 × 490 mm	440 × 240 × 530 mm
Weight	~43 kg	~72 kg	~72 kg	~96 kg	~142 kg

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

Scope of delivery

— **Standard configuration: EPPMPP / EPPMPD 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 manual tonnages from 15 to 60 T with added safety protection, in pointer or digital display versions — a safety-upgraded manual hydraulic press for laboratories with high safety requirements.

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