

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 or 0.01 MPa, 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 or 0.01 MPa precision
- **Manual control, stable holding** — manual pressurization and manual gradual pressurization, manual depressurization with pressure stability of  $\leq 1$  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 Al<sub>2</sub>O<sub>3</sub> 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, manual depressurization                            |
| Pressure Stability           | $\leq 1$ MPa / 10 min                                                                                     |
| Configuration                | Main machine, 1 unit; die molds optional and not included; press or die molds customizable on request     |

| 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                                     | Φ80 mm                                                                                  | Φ95 mm                                                                      | Φ110 mm                                                                     | Φ130 mm                                                                     |
| Max Piston Stroke                                   | <30 mm (Warning: watch the cylinder rising height, do not exceed the limit)             | <30 mm (Warning: watch the cylinder rising height, do not exceed the limit) | <30 mm (Warning: watch the cylinder rising height, do not exceed the limit) | <50 mm (Warning: watch the cylinder rising height, do not exceed the limit) |
| Pressure Gauge Display Specification (as published) | 4P: pointer gauge, pressure/pressure dual-scale display, 1 MPa · 4D: 0.01 t or 0.01 MPa |                                                                             |                                                                             |                                                                             |
| Pressurization Method                               | Manual pressurization / manual gradual pressurization, manual depressurization          |                                                                             |                                                                             |                                                                             |
| Pressure Stability                                  | ≤1 MPa / 10 min                                                                         |                                                                             |                                                                             |                                                                             |
| Worktable Diameter                                  | Φ88 mm                                                                                  | Φ108 mm                                                                     | Φ128 mm                                                                     | Φ148 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; press or die molds customizable on request

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 (Al<sub>2</sub>O<sub>3</sub>); 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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