

TECHNICAL DATA SHEET

PressPro™ X-Ray Fluorescence Press Machine

XRF sample preparation · 30T / 40T · manual & automatic models · XRF sample-preparation dies



PressPro™ EPFM Series — Representative Configuration

The PressPro™ X-Ray Fluorescence Press Machine (EPFM series) prepares samples for X-ray fluorescence (XRF) analyzers. Image shown for reference; manual and automatic configurations vary by model.

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SECTION I

Product Overview

The PressPro™ X-Ray Fluorescence Press Machine (EPFM series) is designed for preparing samples for X-ray fluorescence (XRF) analyzers, commonly known as a fluorescence press machine. With specific molds, the machine serves multiple purposes. It is widely used in R&D and testing of new materials such as superconductors, batteries, rare earths, catalysts, cement, minerals, marine mud analysis, powder metallurgy, and advanced ceramics.

The EPFM series covers four models: EPFM30TX and EPFM40TX with manual hydraulic pressurization and a pointer pressure gauge, and EPFA30TX and EPFA40TX with automatic pressurization and a 7-inch touch LCD screen. All models include one set of XRF sample-preparation dies (boric acid, steel ring, plastic ring, or aluminum cup – select one).

SECTION II

Core Advantages

- **XRF sample preparation** — designed for preparing samples for X-ray fluorescence analyzers; with specific molds, one machine serves multiple purposes
- **30T / 40T capacity** — 0-30T (31.5 MPa) or 0-40T (30 MPa) for manual models; automatic models with real-time sample pressure calculation
- **Automatic safety & data (EPFA)** — limit-switch pressure relief, overpressure protection, and USB data export on automatic models
- **Manual & automatic models** — EPFM30TX / EPFM40TX with manual pressurization; EPFA30TX / EPFA40TX with automatic pressurization, pressure holding, and pressure compensation
- **XRF sample-preparation dies** — one set included as standard – boric acid, steel ring, plastic ring, or aluminum cup (select one)
- **Wide R&D application** — superconductors, batteries, rare earths, catalysts, cement, minerals, marine mud, powder metallurgy, and advanced ceramics

SECTION III

Specifications

Technical data — all models

Specifications	
Brand	PressPro™ by ACS Material
Product Name	PressPro™ X-Ray Fluorescence Press Machine
Series (Parent SKU)	EPFM
Models (SKU)	EPFM30TX · EPFM40TX · EPFA30TX · EPFA40TX
Application	Sample preparation for X-ray fluorescence (XRF) analyzers
Pressurization Method	Manual (EPFM) / automatic (EPFA)
Standard Mold	One set of XRF sample-preparation dies (boric acid, steel ring, plastic ring, or aluminum cup – select one)
Configuration	One main machine with one set of XRF sample-preparation dies

EPFM series

Specifications				
Parameter	EPFM30TX	EPFM40TX	EPFA30TX	EPFA40TX
Pressure Range	0-30T / 31.5MPa	0-40T / 30MPa	0.3-30T / 0.1t	0.4-40T / 0.1t
Pressure Conversion	1MPa = 0.95t	1MPa = 1.33t	Automatic	Automatic
Piston Diameter	Ø110 mm	Ø130 mm	Ø110 mm	Ø130 mm
Max Piston Stroke	<30mm	<50mm	<30mm	<50mm
Pressure Gauge Type	Pointer gauge, dual scales in t and MPa (digital gauge optional)		7-inch touch LCD screen (remote control optional)	
Pressurization Method	Manual pressurization / gradual pressurization, manual pressure release		Automatic pressurization / holding / compensation, pressure release	
Pressure Holding Time	Manual control		Unlimited (N seconds)	
Sample Pressure Conversion	/		Real-time automatic calculation of sample pressure (MPa)	
Hydraulic Cylinder Limit Protection	Warning: do not exceed the cylinder rising height		Automatic pressure relief when cylinder touches limit switch	
System Safety Configuration	/		Automatic pressure relief when system pressure exceeds safe value	
Safety Configuration	Bulletproof glass shield (optional)		Bulletproof glass protection door, leakage protection, emergency stop switch	
Data Management	/		Storage, management, viewing, USB output	
Power Supply	/		220V (50Hz/60Hz)	
Worktable Diameter	Ø128 mm	Ø148 mm	Ø128 mm	Ø148 mm
Workspace	W: 92×160mm	W: 106×180mm	W: 145×160mm	W: 165×180mm
Overall Dimensions	275×210×440mm	295×230×490mm	230×405×470mm	260×430×500mm
Approx. Weight	58 kg	78 kg	85 kg	120 kg

Scope of delivery

— **Standard configuration** — one main machine with one set of XRF sample-preparation dies (boric acid, steel ring, plastic ring, or aluminum cup – select one)

— **Optional, not included** — bulletproof glass shield and digital pressure gauge (EPFM manual models); remote control (EPFA automatic models)

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

SECTION IV

Applications

For X-ray fluorescence (XRF) sample preparation: select the manual (EPFM30TX / EPFM40TX) or automatic (EPFA30TX / EPFA40TX) model, and the XRF sample-preparation die type (boric acid, steel ring, plastic ring, or aluminum cup) to match the sample. The automatic models provide real-time sample pressure calculation, pressure holding, and USB data export.

Product value: 30T / 40T fluorescence press with manual and automatic configurations, XRF sample-preparation dies included, and wide application in new material R&D. Confirm the selected model, pressurization mode, and mold type against your application requirements before ordering.

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