

TECHNICAL DATA SHEET

PressPro™ Versatile Infrared Powder Tablet Press Machine

Φ13 mm KBr pellets • 12T/15T manual • 20T electric • 10T automatic



PressPro™ EPIM Series — Manual Infrared Powder Tablet Press

The PressPro™ Versatile Infrared Powder Tablet Press Machine (EPIM and EPIA Series) prepares Φ13 mm KBr pellets for infrared spectrometers. Image shown for reference.

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SECTION I

Product Overview

The PressPro™ Versatile Infrared Powder Tablet Press Machine (EPIM and EPIA Series) is commonly used for preparing $\Phi 13$ mm ($\Phi 12.7$ mm) KBr (potassium bromide) pellets for infrared (IR) spectrometers. With specific molds, one machine presses solid samples of various shapes and sizes. It is widely used in research, education, testing, catalysis, and pharmaceuticals.

SECTION II

Core Advantages

— **Versatile, one machine** — standard $\Phi 13$ mm IR die set included; optional molds press pellets of different sizes and shapes

— **Precise pressure control** — dual-scale pointer gauge on manual models; 4.3-inch touchscreen on EPIA20TH; 7-inch touchscreen on EPIP10TH

— **Four models, manual to automatic** — 12T/15T manual presses; 20T electric press with automatic compensation; 10T fully automatic press

— **Complete kit** — $\Phi 13$ mm infrared molds, agate mortar and pestle, KBr crystal, and sample scoop included; infrared heating lamp optional

SECTION III

Specifications

Technical data — EPIM / EPIA Series

Specifications				
Parameter	EPIM12BH	EPIM15TH	EPIA20TH	EPIP10TH
Pressure Range	0-12T / 30MPa	0-15T / 30MPa	0.2-20T / 0.1t	0.1-10T / 0.1t
Pressure Conversion	1MPa = 0.4t	1MPa = 0.5t	Automatic	Automatic
Piston Diameter	$\Phi 70$ mm	$\Phi 80$ mm	$\Phi 95$ mm	$\Phi 65$ mm
Maximum Piston Stroke	<30 mm (Warning! Do not exceed the maximum cylinder stroke.)	<30 mm (Warning! Do not exceed the maximum cylinder stroke.)	30 mm	30 mm
Pressure Gauge Type	Pointer gauge, dual-scale pressure/force display (digital gauge optional)	Pointer gauge, dual-scale pressure/force display (digital gauge optional)	4.3-inch touch LCD screen	7-inch touch LCD screen
Pressurization Method	Manual pressurization / gradual pressurization, with manual pressure release	Manual pressurization / gradual pressurization, with manual pressure release	Electric pressurization with automatic compensation; manual pressure release	Automatic pressurization / holding / supplementary pressurization / depressurization
Holding Time	Manual control	Manual control	Manual control	Unlimited seconds
Mold Pressure Conversion	/	/	Automatic program conversion	Automatic program conversion
Hydraulic Cylinder Limitation Protection	/	/	/	Available
System Safety Configuration	/	/	/	Available
Safety Protection Configuration	Bulletproof glass protective cover (optional)	Bulletproof glass protective cover (optional)	/	Available
Data Management	/	/	/	Available
Equipment Power Supply	/	/	220V (50Hz/60Hz)	220V (50Hz/60Hz)
Table Diameter	$\Phi 78$ mm	$\Phi 88$ mm	$\Phi 108$ mm	$\Phi 128$ mm
Working Space	Width 92×150 mm	Width 80×150 mm	Width 80×150 mm	Width 145×160 mm
Overall Dimensions	225×155×380 mm	245×180×420 mm	245×380×430 mm	230×405×470 mm
Approx. Weight	28 kg	40 kg	75 kg	85 kg

Scope of delivery

— **Standard configuration** — 1 tablet press machine, 1 set of $\Phi 13$ mm infrared molds, 1 set of agate mortar and pestle, 1 bottle of potassium bromide (spectroscopically pure), 1 sample scoop

— **Optional, not included** — infrared heating lamp

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

SECTION IV

Applications

The PressPro™ EPIM / EPIA Series versatile infrared powder tablet press prepares $\Phi 13$ mm KBr pellets for infrared spectrometers. With specific molds, one machine presses solid samples of various shapes and sizes for research, education, testing, catalysis, and pharmaceuticals.

Product value: versatile IR powder tablet press for $\Phi 13$ mm KBr pellets, manual 12T/15T to fully automatic 10T. Confirm your spectrometer compatibility before ordering.

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