

# Automatic Xrf Pellet Press For Laboratory Spectrometry Sample Preparation

Número do item: PYGB



## introdução

This automatic XRF pellet press features PLC touch screen control and advanced pressure slow release to ensure exceptional sample consistency and crack free preparation for high throughput analytical laboratories and demanding industrial spectroscopy testing applications with ultimate system reliability.

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Application	Description	Key Benefit
<b>Cement Quality Control</b>	Compaction of raw meal, finished cement clinker, gypsum, and limestone powders into highly consolidated pellets for high-throughput XRF elemental monitoring.	Delivers consistent pellet density to guarantee stable, drift-free quantitative calibration curves.
<b>Geological and Mining Assay</b>	Compaction of pulverized ore samples, tailing concentrates, and soil sediments using protective steel rings or boric acid backing.	Ensures even pressure distribution across complex mineral grains, eliminating surface micro-cracks during analysis.
<b>Battery and Energy Materials</b>	Pressing electrode powders, solid-state electrolytes, and high-purity carbon matrices to inspect density characteristics and electrical performance.	Maintains structural flatness and exact thickness controls to achieve highly reproducible electrical testing metrics.
<b>Catalysis and Chemical Synthesis</b>	Pelletizing heterogeneous catalysts, advanced polymers, and industrial organic chemicals for structural characterization and reactivity profiling.	Preserves fragile catalyst frameworks by allowing precise, ultra-slow pressure ramp-down speeds.
<b>Ceramic and Refractory Engineering</b>	Compacting advanced technical ceramics, raw clay compounds, and oxide powders into standardized pellets for high-temperature sintering tests.	Achieves optimal pre-sintering green density, minimizing defects and distortion during subsequent thermal processing.
<b>Pharmaceutical Formulation Testing</b>	Consolidating active pharmaceutical ingredients (APIs), excipients, and tablet formulations for mechanical strength and dissolution tests.	Permits flexible, low-pressure operation with zero oil contamination risk, maintaining pure sample environments.
<b>Metallurgical Slag Analysis</b>	Pressing heavy metallurgical slag, metal oxides, and dust byproducts within protective aluminum cups for rapid emission spectrometer checking.	Provides high-tonnage containment that prevents ring failure and guarantees safe, high-speed automated sample scanning.

Technical Parameter	Specification Value for Model PYGB
<b>Model Identifier</b>	PYGB
<b>Control Mode</b>	Color Touchscreen Operation, PLC Program Control
<b>Supported Mold Configurations</b>	Boric acid cup, aluminum cup, steel ring, plastic ring (Optional)
<b>Maximum Pressing Force</b>	60 Metric Tons (60 T)
<b>Pressure Holding Time</b>	User-Adjustable (Arbitrary / Continuous)
<b>Piston Travel Stroke</b>	100 mm
<b>Vertical Clearance (Column Opening)</b>	220 mm
<b>Physical Dimensions (L x W x H)</b>	650 mm x 540 mm x 1240 mm
<b>Total Equipment Weight</b>	Approx. 360 kg
<b>Power Supply Requirements</b>	AC 3-Phase 380 V ± 5%, 50 Hz
<b>Rated Power Consumption</b>	1.3 kW

Technical Parameter	Specification Value for Model PYGB
Power Cable Configuration	5-core (3 phases + neutral + ground), length > 2 m
Hydraulic Oil Specification	L-HM46 high-pressure wear-resistant hydraulic oil
Operating Temperature Range	5°C to 40°C