Automatic Xrf Pellet Press 40 Ton Hydraulic Sample Preparation Press For Fluorescent Spectroscopy Analysis

Item Number: KT-YGA

Introduction

Streamline your XRF sample preparation with this heavy duty forty ton automatic fluorescent pellet press featuring intelligent PLC touchscreen control programmable multi stage pressure cycles and robust safety mechanisms designed for high throughput industrial and laboratory spectroscopy applications

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Application	Description	Key Benefit
Cement Manufacturing	Compacts raw meal, finished cement, and clinker powders utilizing steel ring or boric acid cup configurations.	Minimizes measurement errors in routine quality control and element concentration checking.
Geological & Mining Studies	Compresses crushed iron ore, copper concentrate, slag, and industrial minerals into high-density analysis discs.	Provides maximum physical stability for high-vacuum wavelength-dispersive spectrometers.
Metallurgy & Catalysts	Pelletizes metal powders, high-melting-point oxides, and spent catalyst powders under high tonnage.	Ensures complete structural integrity of difficult-to-bind samples without adding organic binders.
Ceramics & Materials Science	Compresses advanced technical ceramic powders like alumina and zirconia into uniform green bodies for firing analysis.	Prevents pressure-gradient cracking to ensure structural uniformity.
Environmental Monitoring	Prepares pressed pellets from soil, fly ash, sediment, and wastewater residues for heavy metal trace analysis.	Eliminates sample crumbling during automatic spectrometer sample tray handling.
Pharmaceutical Testing	Presses crystalline active pharmaceutical ingredients and solid excipients into stable testing discs.	Ensures high cross-contamination prevention and clean, non-destructive chemical evaluations.
Battery Energy Research	Prepares solid state electrolytes, carbonaceous anodes, and lithium compound powder disks.	Allows precise material characterization under highly consistent, controlled densities.

Parameter Spec	Detailed Value for KT-YGA
Model Designation	KT-YGA
Control Mode	Interactive Color Touchscreen & PLC Program Control (Chinese/English Menu)
Compatible Mold Formats (Optional)	Boric Acid Border , Aluminum Cup, Steel/Plastic Ring, Plastic Cup
Maximum Tonnage Pressure	40 Tons (40 T)
Dwell Time	User-programmable (Arbitrary Duration setting)
Piston Stroke Length	100 mm
Maximum Column Opening	220 mm
Physical Outer Dimensions	650 mm (L) × 540 mm (W) × 1240 mm (H)
Approximate Weight	325 kg
Required Power Supply	Three-Phase AC 380 V ± 5%, 50 Hz
Motor Rated Power	1.3 kW

Parameter Spec	Detailed Value for KT-YGA
Standard Electrical Connection Cable	Five-core wire (3 Phase lines + 1 Neutral + 1 Ground), Length > 2 meters
Approved Hydraulic Oil Grade	L-HM46 High-Pressure Anti-Wear Hydraulic Fluid
Operating Environment Temperature	10 °C to 40 °C