

Post Drum Mechanical Sieve Shaker For Sinter And Pellet Strength Testing

Item Number: KT-JTL



Introduction

Upgrade metallurgical quality control with our post drum mechanical sieve shaker designed for sinter and pellet ore drum test classification featuring automatic timing heavy duty drive mechanism sealed dust control enclosure and standardized screening plate precision.

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Application	Description	Key Benefit
Blast Furnace Sinter Quality Control	Mechanical screening of iron ore sinter charges immediately following tumble drum degradation testing to determine the shatter index.	Delivers consistent, operator-independent index figures essential for blast furnace burden permeability control.
Pellet Ore Cold Crushing and Drum Testing	Automated classification of fired and cold-bonded iron ore pellets after rotational abrasion impact testing in QA assay labs.	Accurately segregates sub-6.3 mm and sub-5.0 mm fines, preventing manual error in abrasion index reporting.
Metallurgical Research and Burden Evaluation	Evaluating novel binders, flux mixtures, and sintering thermal profiles within academic and corporate metallurgical R&D centers.	Standardizes experimental sieving parameters across prolonged testing campaigns for reproducible comparative data.
Port and Terminal Mineral Inspecon	Bulk mineral transshipment hubs evaluating the degradation resistance of imported iron ore sinters and pellets during offloading.	Handles high throughput batch testing with rapid cycle times, accelerating commercial grading verification.
Mining Assay and Mineral Processing Labs	Sizing coarse run-of-mine aggregates and pilot-scale agglomerates following mechanical tumbling and crushing trials.	Resilient drive system withstands abrasive ores without premature mechanical wear or frame deformation.
Steel Plant Raw Material Intake Audits	Compliance verification of third-party sinter deliveries against contracted mechanical strength and degradation thresholds.	Provides audit-proof, repeatable sieving results that streamline dispute resolution and supplier qualification.

Specification Parameter	Specification Details (Model: KT-JTL)
Equipment Model	KT-JTL
Primary Application	Post-tumble drum mechanical screening for sinter and pellet ore
Electric Motor Power Rating	1.1 kW
Drive Transmission System	Motor-to-speed-reducer via wheel coupling, eccentric crank drive
Screening Motion	Mechanical reciprocating swing
Oscillation / Swing Angle	45°
Standard Cycle Duration	1.5 minutes per batch (automated stop)
Cycle Control Method	Integrated precision electrical time relay control
Screen Deck Dimensions	800 mm (Length) × 500 mm (Width)
Standard Screen Aperture Sizes	6.3 mm × 6.3 mm (standard) or 5.0 mm × 5.0 mm (optional interchange)
Screen Plate Compatibility	Interchangeable punched plate screen design
Frame Construction	Heavy-duty welded angle steel structural chassis
Environmental Protection	Fitted sealing top cover for airborne dust containment

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Material Unloading System	Integrated mechanical gate discharging into receiving hopper