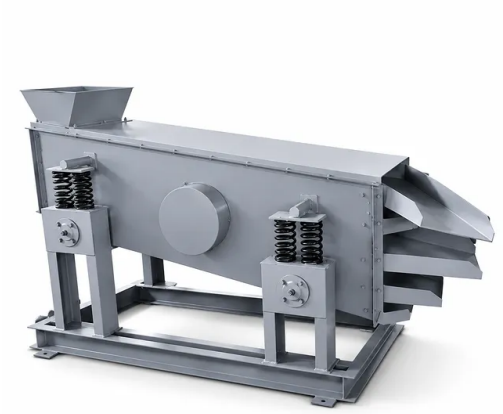
Pre Drum Multi Deck Mechanical Vibrating Screen For Sinter And Pellets Sieve Grading

Item Number: KT-JTN



Introduction

Engineered to satisfy GB T24531 standards, our automated multi deck mechanical vibrating screen optimizes sinter and pellet gradation before drum tumbling tests, reducing manual labor while boosting laboratory throughput with precise programmable timing and durable multi deck separation.

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Application	Description	Key Benefit
Iron Ore Sinter Pre-Drum Analysis	Grading blast furnace sinter batches to isolate precise particle fractions before standard tumbler and abrasion resistance testing.	Eliminates manual screening bias and guarantees compliance with national and international metallurgical standards.
Oxidized Pellet Quality Verification	Sizing fired and fluxed iron ore pellets prior to compressive strength and drum index mechanical integrity screening.	Delivers clean fraction cuts without chipping or degrading brittle agglomerates during mechanical excitation.
Blast Furnace Feedstock Optimization	Routine quality auditing of ironmaking burden constituents directly sampled from blast furnace bunker conveyor feeds.	Provides immediate, accurate grain size distribution curves to help operators fine-tune furnace permeability.
Mineral Agglomeration R&D	Laboratory-scale screening of newly formulated binders, green pellets, and cold-bonded briquettes across research facilities.	Delivers consistent, programmable vibration cycles to support comparative degradation and strength research.
Sinter Plant Process Control	In-line QA/QC testing along continuous sintering strands to determine burn-through uniformity and product breakage properties.	Lowers labor intensity while delivering fast feedback on sintering grate and ignition hood operational efficiency.
Third-Party Inspection & Assaying	Independent testing of metallurgical bulk shipments at port terminals and transshipment yards prior to commercial verification.	Guarantees legally reproducible screening results utilizing certified standard-compliant aperture dimensions.

Specification Parameter	Value / Detail
Equipment Model Code	KT-JTN
Manufacturing Standard	GB/T 24531-2009
Screen Deck Configurations	2 Decks / 4 Decks
Screen Mesh Aperture Dimensions	40 × 40 mm, 25 × 25 mm, 16 × 16 mm, 10 × 10 mm
Screen Surface Dimensions (L × W)	1600 × 500 mm
Deck Inclination Angle	10° – 11.5°
Vibrational Amplitude	6 – 8 mm
Excitation Frequency	960 cycles/min
Drive Motor Rated Power	2.2 kW
Electrical Power Supply	380 V (Three-Phase)
Operational Timing Control	Integrated automatic digital timer with user-defined settings
Structural Components	Base chassis, support brackets, vibrating screen box, screen decks, spring brackets, damping springs, feed chute, drive mechanism, electric motor