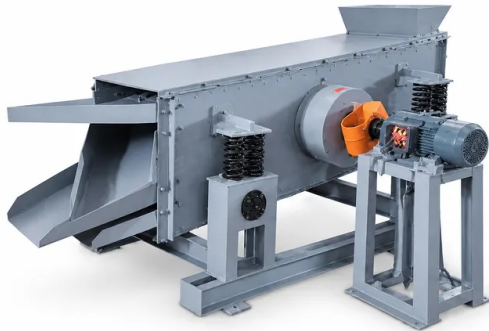


Pre Drum Multi Deck Mechanical Vibrating Screen For Iron Ore Sinter And Pellet Classification

Item Number: KT-JTO



Introduction

Engineered for industrial testing, this pre-drum multi-deck mechanical vibrating screen delivers automated size classification for iron ore sinter and pellets. Featuring heavy-duty damping springs, tiered decks, and programmable timers, it enhances metallurgical lab productivity and repeatability.

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Application	Description	Key Benefit
Sinter Tumbler Index (ISO / GB/T) Preparation	Pre-classifying furnace sinter charges into standard granulometric fractions (+40 mm, 25-40 mm, 16-25 mm, 10-16 mm, -10 mm) prior to drum tumbling.	Replaces inconsistent manual screening with reproducible particle fractions required for ISO 3271 and GB/T 24531 tumble and abrasion testing.
Cold Pellet Compressive Strength Sizing	Isolating uniform pellet cohorts (typically within designated size bands) from fired or green iron ore pellet production lines.	Ensures tight particle size uniformity, eliminating diameter variations that compromise statistical validity in compressive crush testing.
Blast Furnace Burden Quality Control	Continuous verification of direct-reduced iron (DRI), blast furnace lump ore, and agglomerates delivered to smelting charging bins.	Mitigates blast furnace permeability issues by rapidly detecting and quantifying unwanted fines before charge loading.
Metallurgical Research & Pelletizing Pilot Plants	Laboratory-scale fractioning of novel agglomeration recipes, flux additions, and binder mixtures subjected to cyclic thermal and physical stress.	Delivers rapid, batch-to-batch fractionation with configurable runtimes to establish baseline degradation indices for experimental raw material mixes.
Mining & Beneficiation Plant Process Auditing	In-line or near-line verification of industrial vibrating screens, secondary crushers, and sintering disc discharge streams.	Identifies screen mesh wear or crusher bypass in upstream operations by conducting rapid, highly repeatable verification sieving.
Refractory & Heavy Mineral Aggregate Testing	Classification of dense refractory grog, ferroalloys, bauxite, and coarse slag materials requiring aggressive amplitude sieving.	High-torque mechanical drive and robust spring suspension effortlessly process high-density, sharp-edged mineral samples without frame fatigue.

Parameter	Specification (KT-JTO-2D Variant)	Specification (KT-JTO-4D Variant)
Base Product Item Number	KT-JTO-2D	KT-JTO-4D
Governing Standard	GB/T 24531-2009	GB/T 24531-2009
Number of Sieve Decks	2 Layers	4 Layers
Standard Screen Aperture Sizes	40×40 mm, 25×25 mm (or customized pairs)	40×40 mm, 25×25 mm, 16×16 mm, 10×10 mm
Screen Deck Dimensions (L × W)	1600 mm × 500 mm	1600 mm × 500 mm
Effective Screening Area per Deck	0.8 m²	0.8 m² (3.2 m² total stacked area)
Screen Deck Inclination Angle	10° - 11.5°	10° - 11.5°
Vibrational Amplitude (Stroke)	6 - 8 mm	6 - 8 mm

Parameter	Specification (KT-JTO-2D Variant)	Specification (KT-JTO-4D Variant)
Excitation Frequency	960 strokes/min (vibrations/min)	960 strokes/min (vibrations/min)
Drive Motor Power	2.2 kW	2.2 kW
Operating Voltage / Electrical Supply	380 V, 3-Phase, 50/60 Hz	380 V, 3-Phase, 50/60 Hz
Screening Timing Control	Fully automatic, digital user-adjustable	Fully automatic, digital user-adjustable
Core Mechanical Assembly	Base foundation, support frame, screen body, sieve decks, spring brackets, damping coil springs, feed inlet, motor, transmission mechanism	Base foundation, support frame, screen body, sieve decks, spring brackets, damping coil springs, feed inlet, motor, transmission mechanism