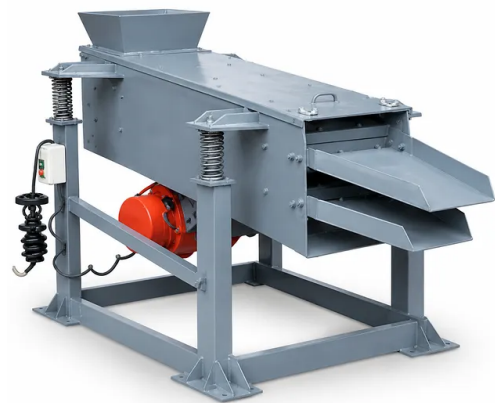


Single And Double Deck Dual Use Vibrating Screen For Industrial Material Sieving And Grading

Item Number: KT-DSC



Introduction

Engineered for high-efficiency laboratory and industrial separation, this single and double-deck dual-use vibrating screen delivers precise particle grading, adjustable excitation force, interchangeable screen plates, and continuous high-throughput processing across demanding mining, coal, and metallurgical applications.

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Application	Description	Key Benefit
Geological Exploration & Core Sampling	Classifying drill cores, crushed rock samples, and mineral exploration specimens into standardized size distributions for metallurgical assay.	Eliminates manual labor, boosts analytical repeatability, and delivers sharp fraction classification.
Coal Preparation & Petrographic Grading	Sorting crushed coal, coke breeze, and carbonaceous shale into distinct particle sizes prior to combustion testing or pilot float-sink separation.	Prevents sieve blinding through high-frequency motion and allows rapid adjustments to deck excitation.
Metallurgical Slag & Sinter Sizing	Classifying crushed metallurgical slag, iron ore sinter, and fluxing agents in pilot plants and quality assurance laboratories.	Resists abrasive particle wear through heavy-gauge steel construction and durable square-mesh sieve plates.
Chemical Powder & Granule Processing	Fractionating pelleted catalysts, industrial salts, agricultural fertilizers, and synthetic resins to remove fines and oversized aggregates.	Offers fully enclosed discharge paths that minimize dust dispersion while maintaining continuous processing throughput.
Refractory & Ceramic Raw Material Prep	Precision sieving of grog, clays, calcined bauxite, and fused alumina to control grain size matrices for pressing and casting.	Ensures consistent packing density by maintaining accurate mechanical cut-points using interchangeable sieve plates.
Mining & Quarry Aggregate Testing	Batch and continuous grading of sand, gravel, crushed limestone, and ballast samples to verify compliance with industrial sizing standards.	Handles coarse raw feed up to 40 mm effortlessly with throughput capacities reaching up to 200 kg per hour.

Specification Parameter	Technical Detail
Product Identification Code	KT-DSC
Sieve Plate Dimensions (L x W)	600 mm x 300 mm
Standard Pre-Installed Sieve Apertures	Upper Deck: 25 mm x 25 mm Lower Deck: 10 mm x 10 mm
Auxiliary Interchangeable Sieve Plates	Included Spares: 6 mm x 6 mm, 2 mm x 2 mm
Sieve Deck Configuration	2 Decks (3-Fraction Separation) / Single-Deck Capable
Screen Deck Inclination Angle	11.5°
Vibration Stroke Amplitude	2 mm to 4 mm (Adjustable)
Excitation Frequency / Impact Rate	1400 impacts/min
Maximum Raw Feed Grain Size	0 mm to 40 mm
Processing Throughput Capacity	4 kg/h to 200 kg/h
Electric Motor Rated Power	0.15 kW
Total Equipment Weight	124 kg

Specification Parameter	Technical Detail
Overall Physical Dimensions (L x W x H)	1100 mm x 750 mm x 900 mm
Structural Frame Material	Heavy-duty welded section steel
Sieve Box Construction	High-strength welded steel plate
Vibration Generation Mechanism	Dual eccentric flywheel counterweight assembly
Isolation & Damping Mechanism	Tuned high-resilience coil damping springs
Operational Duty Cycle	Rated for continuous feeding and sustained processing