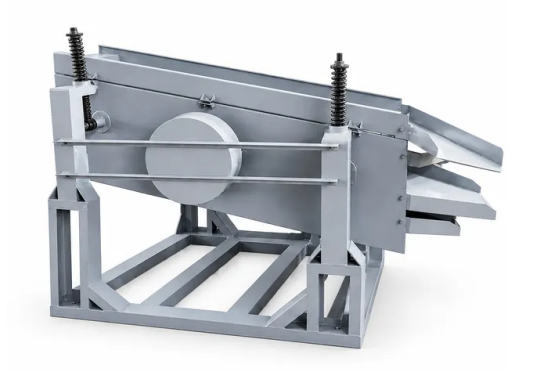


Coke Pre Drum Sizing Mechanical Sieve For Metallurgical Coke Fraction Classification And Breeze Content Analysis

Item Number: KT-JTF



Introduction

Optimize metallurgical quality control with this coke pre drum sizing mechanical sieve designed to classify particle fractions and isolate breeze content with precision. Repeatable four deck separation eliminates manual labor, reduces sampling errors, and ensures rigorous standard compliance daily.

[Learn More](#)

Application	Description	Key Benefit
Pre-Drum Tumbler Preparation	Sizing metallurgical coke samples into designated fractions before Micum (M40/M10) or Irsid (I20/I10) tumbler drum tests.	Ensures uniform feed charging compliant with testing standards, preventing sample bias in subsequent mechanical strength degradation analyses.
Blast Furnace Feed Coke Auditing	Screening incoming furnace coke deliveries to verify compliant particle distributions (typically 25 to 80 mm) and detect oversized lumps.	Maintains gas permeability across the blast furnace shaft by screening out irregular lump profiles that impede optimal counter-current reduction.
Coke Breeze Content Determination	Accurately isolating the sub-25 mm fine fraction from bulk production batches during quenching and wharf discharging.	Delivers precise tracking of yield losses and coking degradation, protecting thermal efficiency by preventing fines from entering high-temperature zones.
Coking Plant Screen Line Optimization	Verifying sizing efficiencies of primary industrial vibrating screens and scalpers by running split batch testing on product discharge streams.	Identifies worn screen media, uneven feed distribution, or aperture blinding on the production floor through calibrated bench-scale fraction verification.
Coal Blending and Carbonization R&D	Evaluating the physical lump yields and breakdown tendencies of pilot-scale carbonization ovens using alternative coking coal blends.	Delivers repeatable particle distribution data to correlate laboratory coal petrography and plastic properties with real-world lump yield characteristics.
Commercial Custody Transfer Testing	Conducting unbiased third-party particle size verification at receiving wharves, rail transshipment terminals, and bulk coke shipping ports.	Provides verifiable, machine-controlled classification records that minimize commercial disputes between coke producers and blast furnace operators.

Specification Parameter	Value / Configuration
Equipment Model Code	KT-JTF
Tier Configuration	4 Layers (Yielding 5 Output Fractions)
Screen Plate Aperture Specifications	Layer 1: 80 × 80 mm Layer 2: 60 × 60 mm Layer 3: 40 × 40 mm Layer 4: 25 × 25 mm
Separated Size Classes	>80 mm, 60–80 mm, 40–60 mm, 25–40 mm, <25 mm (Coke Breeze)
Screen Plate Geometry	Square-hole punched/welded steel plate
Screen Body Inclination Angle	11.5°
Excitation / Vibration Amplitude	6–8 mm
Electric Drive Motor Power	0.75 kW
Transmission Mechanism	Industrial V-Belt with counterweighted flywheel assembly
Framework Construction	Heavy-duty welded section steel structural chassis

Specification Parameter	Value / Configuration
Sieve Body Material	Heavy-gauge welded abrasion-resistant steel plate
Shock Isolation System	Integrated mechanical vibration-reduction damping mountings
Primary Operating Function	Mechanized classification of metallurgical coke before drum test & breeze quantification