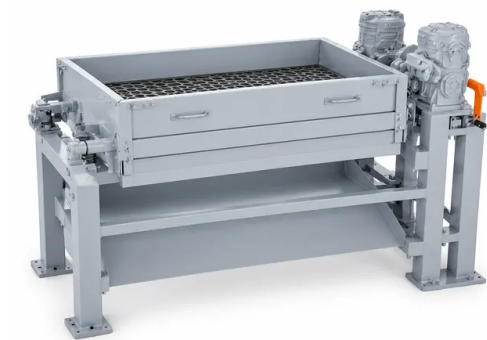


Coke Post Drum Mechanical Shaking Sieve For Metallurgical And Foundry Coke Mechanical Strength Testing

Item Number: KT-JTG



Introduction

Streamline metallurgical quality control with our automated coke post drum mechanical sieve engineered with a heavy duty crank drive precision timed shaking and standardized tiered screen plates for reproducible coke strength analysis.

[Learn More](#)

Application	Description	Key Benefit
Metallurgical Blast Furnace Coke Quality Control	Automated classification of blast furnace coke fractions following Micum (M40/M10) or Irsid (I20/I10) drum index tests.	Delivers consistent, operator-independent index verification to optimize blast furnace fuel permeability and operational efficiency.
Foundry Coke Shatter and Abrasion Testing	Sizing structural integrity and fracture resistance of large-block foundry coke after mechanical tumble testing.	Replaces laborious hand-sieving of heavy lump coke while safeguarding testing integrity through standardized 45-second screening cycles.
Commercial Coke Oven Plant Production Monitoring	Routine batch screening in coking plant process control laboratories to monitor carbonization quality and post-quenching mechanical resilience.	Rapid multi-tier separation minimizes assay turnaround times, enabling rapid optimization of coal blending formulations and coking times.
Third-Party Metallurgical Inspection Services	High-throughput contractual conformity verification for commercial cargo transshipment, shipping terminals, and independent test facilities.	Guarantees stringent inter-laboratory repeatability and complies with international metallurgical test standards across global testing networks.
Coal and Carbon Materials Research Laboratories	Granulometric and structural degradation research evaluating pilot-scale coke batches, bio-coke briquettes, and novel carbon anodes.	Facilitates flexible interchangeability of upper screen plates (25 mm or 40 mm) for variable experimental research criteria.
Ferroalloy and Non-Ferrous Smelting Quality Assurance	Mechanical grading of specialty reduction carbon and nut coke subjected to physical stress simulation drums.	Enhances sample throughput while eliminating dust exposure and manual labor through automated mechanical batch separation.

Parameter	Specification Detail (Model KT-JTG)
Equipment Item Number	KT-JTG
Primary Functionality	Mechanical post-drum shaking sieving for metallurgical and foundry coke strength determination
Motor Power Rating	1.5 kW
Drive System Architecture	Motor direct-coupled to industrial speed reducer via wheel coupling with eccentric crank linkage
Oscillation / Swing Angle	40° to 45° continuous reciprocating arc
Standard Single Sieving Cycle Duration	45 seconds (automated cycle completion with relay control)
Cycle Control Mechanism	Integrated electrical timer relay with automatic shutdown
Deck Configuration	Two-tier mechanical screening assembly with discharge gate mechanism
Upper Tier Sieve Plate Aperture	40 mm or 25 mm (perforated plate; interchangeable)
Lower Tier Sieve Plate Aperture	10 mm (perforated plate; customizable upon request)
Sieve Screen Material	High-strength abrasion-resistant structural steel plate

Parameter	Specification Detail (Model KT-JTG)
Chassis Construction	Heavy-duty welded structural angle steel framework
Material Discharge Method	Manual tilt lever/gate mechanism feeding directly into receiving collection hoppers
Operational Mode	Semiautomatic batch loading with push-button activation and timed auto-stop