

Coal Rotary Drum Slime Testing Machine Coal Slurrification Index Tester

Item Number: KT-JT2



Introduction

Engineered for industrial coal preparation plants and inspection laboratories, this rotary drum slime testing machine accurately measures coal slurrification indices under standard GB/T 26918 protocols, featuring an engineered 200L drum, digital timer control, and a rugged reduction gear drive.

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Application	Description	Key Benefit
Coal Washing Plant Circuit Optimization	Evaluates the mudification kinetics of run-of-mine feed coal prior to dense medium cycloning or spiral separation circuits.	Minimizes unanticipated slime buildup in recirculating wash water and improves media recovery efficiency.
Commercial Commodity Inspection	Conducted by third-party testing agencies and customs inspection bodies to certify export and domestic coal durability grades.	Provides standardized, legally defensible slurrification ratings matching GB/T 26918 compliance guidelines.
Mining Geotechnical Exploration	Tests core and bulk exploration samples to assess secondary slurring behavior of unmined coal seams across varied strata.	Assures accurate metallurgical forecasting and informs proper tailings filter press and thickener sizing.
Washery Slurry Circuit Troubleshooting	Assesses high-clay coal batches when thickening, settling, and belt press dewatering units exhibit performance bottlenecks.	Pinpoints raw coal degradation root causes versus chemical flocculation deficiencies in the water circuit.
Mineral Processing Academic Research	Facilitates empirical studies on coal particle breakage mechanisms, clay dispersion, and attrition dynamics in aqueous media.	Delivers repeatable kinetic test conditions with precise control over tumbling duration and rotational velocity.
Anthracite and Lignite Comparative Studies	Compares degradation thresholds and fine particle generation differences across varying metamorphic ranks of coal.	Yields empirical data for custom-blending raw coals to prevent filter cloth blinding and slurry contamination.

Parameter	KT-JT2 Specification
Equipment Item Number	KT-JT2
Compliance Standard	GB/T 26918-2011 (Rotary Drum Slime Test Method for Coal Washing Plants)
Drum Internal Volume	200 L
Drum Effective Height / Length	1000 ± 2 mm
Drum Rotational Speed	20 r/min
Single-Batch Sample Weight	25 kg
Drive Motor Model	Y2-112M-6
Motor Rated Power	2.2 kW
Motor Rated Speed	960 r/min
Reduction Gearbox Model	WD120
Gear Reduction Ratio	1:47
Cycle Timing Setting Range	0 - 99 min (freely adjustable / digital countdown)
Electrical Power Supply	380 V / 50 Hz, 3-Phase

Parameter	KT-JT2 Specification
Structural Composition	Support Frame Chassis, Rotating Drum, Reduction Gear Drive, Discharge Mechanism, Digital Control Unit
Bearing Configuration	Dual heavy-duty pillow block bearing assemblies with heavy-gauge support shafts
Target Applicable Materials	Bituminous coal, anthracite, lignite, raw washed coal, and associated carbonaceous rock