

Electric Sample Divider For Laboratory Coal And Granular Material Sample Preparation

Item Number: KT-DSF



Introduction

Engineered for precise sample preparation, this electric sample divider delivers continuous horizontal reciprocating cutting, an adjustable division ratio, robust dust containment, and representative splitting for coal, ores, and bulk granular materials up to thirteen millimeters.

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Application	Description	Key Benefit
Coal Preparation and Washery Quality Control	Continuous division of raw coal, washed coal, and middlings samples (up to 13 mm) for proximate, calorific value, and sulfur content verification.	Eliminates sampling bias, meets ISO/ASTM moisture and ash compliance, and processes bulk gross samples rapidly without manual riffle clogging.
Thermal Power Generation Fuel Testing	Rapid reduction of daily boiler feed coal deliveries to yield laboratory analysis samples and legal retain samples.	Guarantees true representative quality assessment for fuel settlement billing while completely containing combustible coal dust within the enclosure.
Mining and Mineral Ore Beneficiation	Reduction of crushed core samples, run-of-mine ores, and flotation pilot plant feeds prior to pulverizing and XRF/ICP analysis.	Delivers consistent cut fractions across differing specific gravities without particle size or density segregation bias.
Metallurgical Sinter and Pellet Quality Testing	Splitting of metallurgical coke, fluxed iron ore pellets, and sinter feeds within steelworks quality assurance departments.	Resists severe material abrasiveness and high throughput demands while generating statistically validated samples for physical and chemical audits.
Aggregates and Construction Materials Quality	Mechanical division of crushed stone, gravel fractions, and coarse sands for sieve grading and mechanical strength testing.	Accelerates bulk sample mass reduction from quarry sites to testing-ready quantities without particle degradation.
Chemical and Bulk Granular Processing	Fractionation of synthetic fertilizers, granular plastics, industrial salts, and catalyst supports prior to batch release assays.	Enclosed construction prevents airborne cross-contamination, preserves volatile moisture fractions, and minimizes personnel chemical exposure.

Technical Parameter	Specification Metric
Equipment Model Identifier	KT-DSF
Maximum Feed Particle Size	≤ 13 mm
Division Ratio Range	1/2, 1/4, 1/8 (Continuously Adjustable)
Processing Capacity (Productivity)	400 – 800 kg/h (Type 6 configuration)
Drive Motor Power Rating	0.75 kW
Motor Specification / Frame	Y90S-6
Electrical Power Supply	380V, 3-Phase, 50 Hz
Kinematic Splitting Mechanism	Motorized horizontal reciprocating linear cross-stream cutter
Discharge Configuration	Dual-directional stream split (Analysis sample / Reject stream)
Feed Material Suitability	Coal, coke, ores, geological core fractions, and industrial bulk solids
Structural Housing	Fully enclosed, dust-tight fabricated industrial steel chassis