

Coal Sample Divider Riffle Splitter For Laboratory Material Preparation

Item Number: KT-EF



Introduction

Engineered for representative division of granular materials, this precision riffle sample divider ensures rapid, bias-free coal sample reduction with an enclosed dust-controlled design, durable stainless steel chutes, and compliant particle handling across power and metallurgical testing laboratories.

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Application	Description	Key Benefit
Coal and Coke Quality Testing	Representative reduction of run-of-mine coal and washed coking coal before proximate, ultimate, and calorific testing.	Preserves true moisture content and volatile distribution while eliminating operator sampling bias.
Thermal Power Plant Fuel Monitoring	Daily division of pulverized fuel and boiler feed coal samples to verify combustion efficiency and ash yield.	Enclosed design prevents airborne combustible dust, ensuring clean and safe preparation areas.
Metallurgical Ore and Sinter Assay	Splitting crushed iron ores, bauxite, sintered concentrates, and metallurgical flux materials prior to XRF analysis.	High abrasion resistance against hard mineral particulates with zero structural chute deformation.
Cement and Building Materials Lab	Representative subsampling of limestone, clinker, gypsum, and raw meal before fineness and chemical composition assays.	Uniform multi-slot division prevents segregation of ultra-fine fractions from coarser raw meal grains.
Mining Exploration and Core Processing	Reduction of crushed geological drill cores, trench samples, and tailings in field laboratories and mine sites.	Heavy-duty construction delivers consistent performance under harsh, remote site operational conditions.
Chemical and Fertilizer Production	Homogeneous sample splitting of granular synthetic fertilizers, mineral salts, and industrial dry chemicals.	Contamination-free contact surfaces prevent cross-batch adulteration and resist corrosive chemical dusts.
Environmental Soil and Sediment Testing	Subsampling of dried environmental soil cores, river sediments, and aggregate screenings prior to trace element detection.	Ensures repeatable sample representation without losing sensitive micro-particulate fractions.

Model Identifier	Number of Chutes	Chute Width (mm)	Maximum Feed Particle Size (mm)	Material Construction	Housing Type
KT-EF-1	18	15	< 6	Heavy-Duty Stainless Steel / Powder-Coated Carbon Steel	Enclosed Dust-Retaining Housing with Double Receiving Pans
KT-EF-2	24	8	< 3	Heavy-Duty Stainless Steel / Powder-Coated Carbon Steel	Enclosed Dust-Retaining Housing with Double Receiving Pans
KT-EF-3	32	5	< 1	Heavy-Duty Stainless Steel / Powder-Coated Carbon Steel	Enclosed Dust-Retaining Housing with Double Receiving Pans