

Industrial Coal Briquette Drop Shatter Strength Tester

Item Number: KT-TE19



Introduction

Engineered to evaluate briquette mechanical integrity, this industrial coal briquette drop shatter strength tester features automated 2000 mm elevation and controlled release onto a heavy steel plate, ensuring strict compliance with industry testing standards and reliable shatter resistance analysis.

[Learn More](#)

Application	Description	Key Benefit
Industrial Briquette Quality Control	Routine batch screening of gasification, boiler, and metallurgy briquettes during factory production.	Catches defective binding batches early, preventing catastrophic breakdown during kiln charging and transport.
Binder Formulation Research	Evaluating mechanical strength variations achieved with inorganic, organic, or composite briquette binders.	Quantifies exact shatter resistance improvements to optimize binder ratios and reduce chemical additive costs.
Bulk Shipping and Transit Simulation	Simulating vertical impact shocks encountered at conveyor transfer points, railhead drops, and barge loading bins.	Identifies fragile agglomerates prone to attrition, minimizing dust degradation and spontaneous combustion hazards.
Commercial Fuel Trade Inspection	Providing third-party certified verification of mechanical coal properties for commodity import/export contracts.	Delivers fully standardized, dispute-free mechanical strength metrics adhering strictly to MT/T 925 benchmarks.
Gasification Fuel Preparation Testing	Verifying that lump and briquetted coal charges preserve bed porosity without forming excessive fine powders under impact.	Protects fixed-bed and fluid-bed gasifiers from pressure fluctuations caused by disintegrating fuel beds.
Coking and Smelting Feedstock R&D	Testing the physical degradation thresholds of pre-formed carbon and coal-ore composite pellets prior to blast furnace use.	Ensures high compressive and shatter resistance to maintain gas permeability inside high-temperature blast zones.

Specification Parameter	Technical Detail
Product Item Number	KT-TE19
Applicable Test Standards	MT/T 925-2004, GB/T 15459-1995
Standard Test Height	2000 mm (Selectable / Adjustable Stop)
Receiving Tray Dimensions (L × W × H)	1200 × 900 × 200 mm
Sample Loading Tray Dimensions (L × W × H)	260 × 180 × 130 mm
Drive Motor Rated Power	370 W
Operating Electrical Supply	220 V ± 10%, 50 Hz, Single Phase
Elevation Mechanism	Motorized chain/cable hoist with guide tracking wheels
Sample Release Method	Automatic mechanical tip at designated elevation limit
Impact Surface Material	High-rigidity carbon steel plate
Containment Enclosure	Integrated 200 mm vertical steel containment sidewalls
Required Balance Resolution	Accurate to 1.0 g (for initial and residual mass determination)
Standard Sieve Mesh Cut-off	13 mm square aperture sieve (per standard specification)
Testing Cycle Specification	Three consecutive drops of 10-piece specimen sets with intermediate sieving