

Portable Sampler For Solid Granular Materials

Item Number: KT-CYQ



Introduction

Engineered for rapid solid material collection, this portable sampler provides dependable core sampling reaching eight hundred millimeters deep. Built with reinforced alloy blades and stainless steel, the unit enables single operator efficiency during bulk railcar, truck, and stockpile inspections.

[Learn More](#)

Application	Description	Key Benefit
Thermal Power Utilities & Coal Generation	Extraction of representative thermal coal samples directly from stationary railcars, highway delivery trucks, and boiler feed storage bunkers prior to combustion analysis.	Ensures accurate calorific value and ash content verification while eliminating the need for expensive fixed mechanical sampling plants in confined receiving yards.
Coal Preparation & Commercial Processing	Routine sampling of raw feed coal, washed intermediate fractions, and crushed coarse products across processing circuits and outdoor stockpile reserves.	Delivers reliable cross-sectional monitoring of washing efficiency and moisture variation, preventing sampling bias caused by gravitational segregation in stockpiles.
Metallurgical & Smelting Operations	Acquisition of bulk granular sintering ores, metallurgical coke breeze, limestone fluxes, and pelletized additives from raw material holding bins and transit containers.	Provides precise physical and chemical composite specimens capable of penetrating compacted bulk materials without shearing degradation or component stalling.
Chemical & Fertilizer Manufacturing	Quality control extraction of granular urea, compound fertilizers, synthetic plastic polymers, and technical chemical salts stored in silos or shipping containers.	Stainless steel contact surfaces maintain batch purity and prevent contamination, while the high-speed auger pulls uniform vertical cores across dense product beds.
Cement Plants & Aggregates Production	Quality verification sampling of clinker, crushed limestone, gypsum, blast-furnace slag, and coarse mineral aggregate piles prior to milling and kiln entry.	Easily penetrates granular matrix formations containing particulate sizes up to 60 mm, ensuring accurate feed homogeneity and kiln chemistry control.
Geological Surveying & Field Exploration	Direct subsurface sampling of alluvial deposits, drill cuttings, tailing dams, and unconsolidated mineral sediments during exploration and site characterization.	Lightweight, highly portable configuration allows geologists and field crews to conduct comprehensive depth profiling in remote geographical locations lacking electrical utility grids.
Logistics Depots & Bulk Port Terminals	Rapid verification and customs compliance sampling of bulk dry cargo vessels, intermodal freight containers, and railcar fleets during material transshipment.	Minimizes vehicle turnaround time with rapid 0-5 kg sample collection per point, allowing single-operator deployment without interrupting port logistics workflows.

Parameter Specification	Technical Metric / Operational Value
Product Item Code	KT-CYQ
Sample Collection Capacity	0 - 5 kg per sampling cycle
Maximum Sampling Depth	≤ 800 mm
Maximum Feed Particle Size	≤ 60 mm
Rated Motor Power	≤ 1.0 kW
Nominal Operating Voltage	220 V AC
Barrel & Structural Material	Heavy-duty stainless steel alloy
Cutting Tip Construction	Wear-resistant reinforced alloy cutter base
Cylinder Architecture	Reinforced lower barrel with openable housing for debris extraction

Parameter Specification	Technical Metric / Operational Value
Drive Configuration	Integrated handheld motorized direct drive
Operator Requirement	Single-operator manual handling and positioning
Site Constraints	Zero spatial or permanent mounting restrictions