

Industrial Hammer Cutter Crusher And Sample Divider System

Heavy Duty Laboratory Milling Equipment

Item Number: KY-DS



Introduction

Discover our industrial hammer cutter crusher and sample divider system engineered for dust-free continuous sample preparation. Perfect for tough brittle or moist materials offering adjustable discharge particle sizes, high throughput, and precision mechanical sampling in demanding laboratory workflow processing applications.

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Application	Description	Key Benefit
Coal & Coke Sample Preparation	Crushes run-of-mine coal, washed coal, and industrial coke down to analytical grain sizes while retaining original sample moisture.	Prevents moisture degradation and yields representative sub-samples for calorific value testing.
Geological & Mining Exploration	Processes hard mineral ores, rock cores, and drill cuttings into consistent fractions suitable for assay testing.	High-rigidity alloy blades process tough, abrasive minerals without excessive tool wear or iron contamination.
Metallurgical Quality Control	Performs rapid primary reduction of iron ore, sintering materials, and slag prior to laboratory XRF/ICP analysis.	Integrated division reduces manual handling steps and speeds up furnace batch verification workflows.
Aggregates & Building Materials	Handles limestone, clinker, cement raw meal, and aggregate stone testing in construction quality testing labs.	Full-width hammer design prevents clogging even when processing variably sized quarry feed.
Environmental & Soil Testing	Pre-treats bulk soil samples, dried sludge, and industrial solid waste samples for environmental analytical suites.	Sealed housing prevents hazardous dust release and maintains strict sample containment protocols.

Specification Parameter	KY-DS-3520-DIV	KY-DS-4540-DIV
Max Feed Size (mm)	80	150
Discharge Size Range (mm)	3 - 10 (Adjustable)	6 - 18 (Adjustable)
Division Ratio	1/2	~1/8
Processing Capacity (kg/h)	1600	2600
Main Drive Power (kW)	4.0	5.5
Divider Motor Power (kW)	0.12	0.12
Material Moisture Allowance	< 10% (for smooth flow)	< 10% (for smooth flow)
Crushing Mechanism	Shear & Impact Rotating Blades	Shear & Impact Rotating Blades
Chamber Construction	Steel Frame with Wear Liners	Steel Frame with Wear Liners

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Specification Parameter	KY-DS-3520	KY-DS-4540
Division Function	Not Included	Not Included
Processing Capacity (kg/h)	1800	3000
Main Drive Power (kW)	4.0	5.5
Material Moisture Allowance	< 10% (for smooth flow)	< 10% (for smooth flow)
Chamber Liners	Replaceable Steel Plates	Replaceable Steel Plates
Mobility	Integrated Swivel Casters	Integrated Swivel Casters