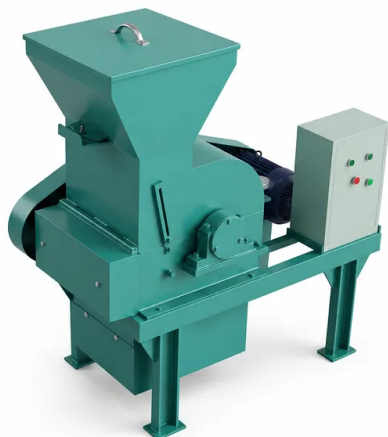


Wet Coal Crusher Wet Material Sample Preparation Hammer Mill

Item Number: KT-SM



Introduction

This high performance wet coal crusher efficiently processes brittle materials with up to 20 percent moisture without sample moisture loss. Featuring integrated pre screening vibrating mechanisms and durable impact hammers, it ensures accurate sample preparation for industrial laboratories.

[Learn More](#)

Application	Description	Key Benefit
Coal Mine Quality Control	Crushing run-of-mine (ROM) wet coal samples with high surface moisture prior to total moisture and proximate analysis.	Prevents screen blind-up and moisture loss, preserving accurate calorific value determinations.
Thermal Power Generation	Continuous sizing of incoming fuel coal samples for power plant boiler fuel testing and verification.	High capacity handling up to 6.0 T/h allows rapid processing of large batch fuel shipments.
Metallurgical & Coke Production	Pre-crushing wet coking coal blends, iron ore fines, and fluxing materials before laboratory pulverization.	Delivers uniform rounded particle aggregates, improving downstream division and grinding efficiency.
Geological & Mineral Exploration	Processing wet ore cores, shale, and brittle mineral rocks extracted from field exploration sites.	High impact cleavage force handles hard feed sizes up to 150 mm without machine jamming.
Automated Sample Preparation Lines	Integration into fully automated sampling systems combining samplers, driers, splitters, and grinders.	Standardized modular interface enables smooth inline material transfer across continuous workflows.

Parameter	KT-SM-300	KT-SM-400	KT-SM-500	KT-SM-600
Feed Granularity / Input Size	65 mm	80 mm	125 mm	150 mm
Discharge Granularity / Output Size	≤ 15 mm	≤ 15 mm	≤ 20 mm	≤ 25 mm
Throughput Yield / Capacity	≤ 1.5 T/h	≤ 2.5 T/h	≤ 4.0 T/h	≤ 6.0 T/h
Applicable Material Moisture	~20%	~20%	~20%	~20%
Crushing Principle	Cleavage Impact	Cleavage Impact	Cleavage Impact	Cleavage Impact
Pre-Screening Method	Vibrating Screen	Vibrating Screen	Vibrating Screen	Vibrating Screen
Moisture Retention	Zero-Loss Sealed	Zero-Loss Sealed	Zero-Loss Sealed	Zero-Loss Sealed
Transmission Guarding	Full Protective Enclosure	Full Protective Enclosure	Full Protective Enclosure	Full Protective Enclosure
System Compatibility	Standalone / Integrated Line	Standalone / Integrated Line	Standalone / Integrated Line	Standalone / Integrated Line