

Laboratory Hammer Crusher Sealed Sample Preparation
Pulverizer For Coal And Minerals

Item Number: PSPC



Introduction

This high-performance laboratory hammer crusher meets GB474 sample preparation standards across coal, metallurgy, and geological testing. Featuring a dust-free sealed design, high-manganese steel hammers, adjustable output sizing, and optional integrated sample dividers for maximum industrial laboratory sampling efficiency.

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Application	Description	Key Benefit
Coal & Coke Sample Preparation	Primary and secondary reduction of raw coal, washed coal, and industrial coke samples according to GB474 standards.	Maintains exact moisture integrity and particle distribution for precise calorific and volatile matter analysis.
Metallurgical Quality Control	Pulverization of iron ore, sinter, slag, limestone, and alloy additives prior to XRF or wet chemical analysis.	High-manganese hammers withstand high-hardness minerals without introducing iron impurities or suffering rapid wear.
Geological & Mining Research	Processing drill cores, rock samples, and raw mineral ores in field units or central exploration laboratories.	High throughput capacity up to 1.5 T/h enables continuous processing of heavy core volumes.
Power Generation Inspection	On-site coal sample sizing at thermal power plant receiving stations and automated sampling buildings.	Sealed, low-noise design allows seamless integration into industrial fuel laboratory operations without airborne dust.
Academic & Commercial Testing	Multi-purpose sample reduction for third-party inspection agencies and academic materials research.	Multi-stage adjustable discharge sizes (3mm to 18mm) accommodate diverse testing protocols on a single unit.

Environmental & Aggregate Sizing	Grinding construction waste, concrete, ceramics, and environmental soil samples for leachability testing.	Prevents sample clogging and overheating, delivering consistent, reliable test specimens.
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Parameter / Specification	PSPC-180x150	PSPC-Z180x150	PSPC-Z250x360	PSPC-S180x150	PSPC-S250x360
Equipment Variant	Standard Compact Hammer Crusher	Sealed Hammer Crusher	Heavy-Duty Sealed Crusher	Integrated Sealed Crusher & Divider	Heavy-Duty Integrated Crusher & Divider
Feed Size (mm)	≤ 50	≤ 70	≤ 150	≤ 70	≤ 150
Discharge Size (mm, adjustable)	3, 5, 6, 8	3, 6, 12	6, 12, 18	3, 6, 12	6, 12, 18
Production Throughput Capacity (T/h)	0.12	0.3 - 0.5	0.6 - 1.5	0.3 - 0.5	0.6 - 1.5
Sample Division Ratio (□□□)	N/A	N/A	N/A	1/2 to 1/8	1/2 to 1/8
Main Drive Motor Power (kW)	1.5	1.5	3.0	1.5	3.0
Division System Motor Power (kW)	N/A	N/A	N/A	0.12	0.12
Operating Voltage	380V / 220V	380V	380V	380V	380V
Compliance Standard	GB474	GB474	GB474	GB474	GB474

Parameter / Specification	PSPC-180x150	PSPC-Z180x150	PSPC-Z250x360	PSPC-S180x150	PSPC-S250x360
Chamber Construction	Alloy Structural Steel	Alloy Structural Steel	Alloy Structural Steel	Alloy Structural Steel	Alloy Structural Steel
Impact Element Material	High-Manganese Steel	High-Manganese Steel	High-Manganese Steel	High-Manganese Steel	High-Manganese Steel
Dust Prevention Design	Open Discharge Guard	Full Enclosure Seal	Elastic Dust Seal Guard	Full Enclosure Seal	Full Enclosure Seal
Feed Control Mechanism	Manual Hopper	Manual Hopper	Manual Control Gate	Manual Hopper	Manual Control Gate