

Laboratory Jaw Crusher Small Scale Ore And Mineral Crushing Machine

Item Number: PS02



Introduction

This high-performance laboratory jaw crusher delivers efficient medium and fine crushing of ores, minerals, and coal up to 150 MPa compressive strength, featuring adjustable discharge sizing, rugged wear-resistant jaws, uniform particle distribution, and low maintenance.

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Application	Description	Key Benefit
Metallurgical Sample Prep	Primary reduction of iron ore, copper concentrate, slag, and ferroalloys prior to chemical assaying.	Achieves consistent particle liberation without metal cross-contamination.
Mining & Mineral Exploration	Rapid field sample crushing of geological core samples, rock fragments, and quartz veins.	High reduction ratio enables fast transition from field rocks to analytical pulp preparation.
Coal & Coke Quality Testing	Sizing of raw coal, metallurgical coke, and anthracite samples for moisture, ash, and volatile matter analysis.	Prevents excessive fines generation while maintaining uniform moisture preservation.
Construction Materials Testing	Size reduction of aggregates, concrete core samples, limestone, and cement clinker in quality control labs.	Easily crushes abrasive building materials up to 150 MPa compressive strength.
Geological Research Institutes	Micro-fracturing and preparation of mineral rock specimens for XRD, XRF, and elemental analysis.	Precise discharge adjustment ensures target particle sizing for downstream milling.
Refractories & Ceramics	Processing of raw clay, alumina, silicates, and ceramic batch components prior to fine pulverization.	Rugged jaw plates resist extreme abrasion from hard ceramic precursor materials.

Specification Parameter	PS02-125x150	PS02-150x200
Feed Opening Size (mm)	125 × 150	150 × 200
Maximum Feed Size (mm)	< 100	< 110
Adjustable Discharge Size (mm)	< 20	< 30
Production Capacity (T/h)	0.3 – 1.5	0.5 – 2.0
Motor Power (kW)	3.0	4.0
Max Compressive Strength (MPa)	≤ 150	≤ 150
Crushing Mechanism Type	Dynamic Eccentric Squeezing	Dynamic Eccentric Squeezing
Jaw Plate Material	High-Wear Resistant Alloy	High-Wear Resistant Alloy
Operation Type	Continuous Laboratory Batch	Continuous Laboratory Batch