

sealed jaw crusher reduction machine with mixing function

Sealed jaw crusher reduction machine can efficiently process solid samples such as coal and ore through precise mechanical design, combined with sealing system and crushing technology, which is widely used in various testing experiments.

Sealed Jaw Crusher Reduction Machine

The Sealed Jaw Crusher Reduction Machine meets the requirements of key national standards such as GB474 “Preparation Method of Coal Sample”, GB/T18666 “Commodity Coal Quality Sampling and Acceptance Methods”, and GB/T2007 “General Rules for Bulk Mineral Product Sampling and Sample Preparation”. Designed to deliver reliable and accurate sample processing results, this equipment is ideal for laboratories, power plants, and industrial production lines.

Main Features

1. **Fully sealed design:** Prevents dust leakage during crushing and reduction, ensuring a clean work environment and compliance with environmental standards.
2. **Adjustable discharge size:** Flexibly set discharge size to meet diverse sample preparation requirements.
3. **Quality shrinkage equipment and moisture adaptability:** Stainless steel shrinkage device resists corrosion and efficiently handles samples with high moisture content, preventing clogging.



4. **Efficient sample preparation:** Crushing, mixing, and reduction steps are completed rapidly, maintaining sample moisture and precision.
5. **Simple operation and maintenance:** User-friendly design facilitates easy operation, cleaning, and maintenance, minimizing manual intervention and boosting efficiency.
6. **Low noise and safety:** Operates quietly, with all transmission components protected for operator safety and compliance with production standards.

Working Principle

The Sealed Jaw Crusher Reduction Machine utilizes high-intensity mechanical pressure and shear via classic jaw crusher design to crush samples. The reduction system divides samples into uniform, representative portions without moisture loss. Fully sealed construction maintains sample integrity and minimizes environmental pollution.

1. **Crushing:** Samples are compressed and sheared between two jaw plates to achieve the required particle size.
2. **Scaling function:** Crushed samples are divided using a stainless steel scaling device, ensuring sample representativeness and uniformity.
3. **Sealed design:** Prevents dust and moisture loss, ideal for high-humidity samples.

Application Areas

1. Coal industry: Sample processing and quality testing for composition and calorific value analysis.
2. Electric power industry: Coal sample analysis and quality control for fuel adaptability in power plants.
3. Iron and steel metallurgy: Raw material sampling and quality control for accurate production ratio.
4. Geological exploration and building materials: Ore and mineral sample reduction for exploration and quality analysis.
5. Third-party testing organizations: Efficient, non-destructive sample processing for accurate and representative test results.

Advantages

1. Improved working efficiency: Automated reduction and sealing design enable rapid sample processing.
2. Reduced dust pollution: Fully sealed system cuts environmental contamination, meeting modern protection standards.
3. Sample integrity guarantee: Efficient process preserves moisture and composition for accurate analysis.
4. Adaptable: Handles samples with varied physical properties and moisture content, ideal for high-humidity materials.
5. Easy to operate: Simple design streamlines operation, cleaning, and maintenance.

6. Low noise and high safety: Quiet operation, comprehensive safety features, and secure design for safe operation.

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Model	EPS100x60	EPS150x125
Feed size	≤60mm	≤100mm
Output size	≤3 to 13mm	≤10 to 40mm
Reduction ratio	1/8 to 1/2(adjustable)	
Production rate	200 to 500kg per hour	500 to 2000kg per hour
motor power	1.5kw + 0.4kw	4kw + 0.4kw
Power supply	three phase 380Vac	
Weight	300kg	555kg
Dimensions	950x550x1100mm	1120x870x1450mm
Note	High manganese steel jaw plate, can crush coal, coke, iron ore, coal gangue and other medium hardness materials	