

sealed hammer knife wet coal crusher and sample divider

sealed hammer knife wet coal crusher and sample divider complies with a number of industry standards, including GB/T19494 “Mechanized Sampling of Coal”, GB474 “Methods of Preparation of Coal Samples”, etc. It is widely used in the fields of coal and electric power, iron and steel metallurgy, geology and building materials.

Sealed Hammer Knife Wet Coal Crusher and Sample Divider

This advanced equipment efficiently crushes and reduces wet coal samples, ensuring uniformity, precision, and compliance with strict coal quality control standards. Its design focuses on environmental protection, sample integrity, and operational safety for modern laboratory and industrial use.

Features

1. Fully sealed design: Prevents dust pollution during operation, meets environmental standards, and protects the working environment.
2. High wear-resistant hammer knife material: Tungsten carbide-coated hammer knives ensure durability even with high hardness or wet samples.
3. Sieve plate material: Special alloy sieve plate offers high strength and wear resistance, preventing abrasion and sample leakage.



4. Inserted sieve plate design: Quick and easy installation/replacement to meet various particle size requirements.
5. Classic reduction type: Ensures moisture retention and sample representativeness during reduction.
6. High-efficiency operation: Efficient crushing, mixing, and reduction even for high-moisture samples, maintaining sample integrity.
7. Simple operation and maintenance: User-friendly design for easy operation, cleaning, and maintenance, reducing labor intensity.
8. Low-noise operation: Smooth running and low noise improve work efficiency and the operating environment.
9. Safety protection facilities: Protective devices on all transmission components meet safety standards and ensure operator safety.
10. Efficient cleaning system: Automatic cleaning device on the impact plate prevents adhesion and clogging, ensuring stable long-term operation.

Working Principle

The Sealed Hammer Knife Wet Coal Crusher and Sample Divider uses a high-speed rotating hammer knife to crush wet coal samples. During crushing, the hammer blade breaks the samples, which are then screened through a replaceable sieve plate for precise particle size control. Classic reduction technology divides the samples into representative portions while retaining moisture. All operations occur in a fully sealed environment, preventing dust pollution and conforming to environmental requirements.

Advantages

1. Environmental protection: Fully sealed, low-noise design meets high industry standards for safe and eco-friendly production.
2. High efficiency: Rapid sampling and processing improve production efficiency for crushing, mixing, and reduction.
3. High abrasion resistance: Durable hammer blades and sieve plates enable long-term stable operation and lower maintenance costs.
4. Adaptable: Handles wet coal and high-moisture samples effectively, preventing moisture loss.
5. Easy to clean: Inserted sieve plate and automatic cleaning device simplify cleaning and maintenance.
6. High safety: Comprehensive protective measures ensure operator safety and minimize risk.

Application Areas

1. Coal power: Crushing, mixing, and reduction of coal samples for raw material quality control in power plants.
2. Iron and steel metallurgy: Sampling and quality testing of iron ore, coke, and other materials for metallurgical production.
3. Geology & Building Materials: Mineral and building material sample preparation to meet quality testing needs.

4. Third-party testing: Sample preparation for coal, ore, and other materials in third-party labs, ensuring reliable test results.
5. Other Mineral Resources: Suitable for crushing and sample preparation of minerals and non-metallic ores with high humidity, like manganese ore and bauxite.

With this equipment, efficient and accurate crushing, screening, and reduction of samples is guaranteed, providing reliable support for quality control and testing.

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Model	DPS400x260
Feed size	≤100mm
Output size	less than 6 mm or 13mm(choose any one of)
Reduction ratio	1/8 to 1/2(adjustable)
Production rate	2000kg per hour
motor power	4kw+0.4kw
Power supply	three phase 380Vac

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Model	DPS400x260
Weight	320kg
Dimensions	1140x680x1530mm