

sealed hammer crusher with stainless steel splitter

Sealed hammer crusher with stainless steel splitter combines the functions of hammer crushing and condensing with a fully sealed design, which effectively prevents dust from leaking out during the high intensity crushing process and reduces the loss of samples, ensuring that the samples are representative of the moisture and particles.

Sealed Hammer Crusher with Stainless Steel Splitter

The Sealed Hammer Crusher with Stainless Steel Splitter is engineered to comply with national standards such as GB/T19494 Coal Mechanized Sampling, GB474 Coal Sample Preparation Methods, and GB/T18666 Methods for Sampling and Acceptance of Commodity Coal Quality. This advanced equipment ensures efficient, representative, and accurate sample processing for coal, minerals, alloys, and more.

Main Features

1. **Fully sealed design:** Prevents dust leakage, meets modern environmental standards, and is ideal for workplaces requiring strict pollution control.
2. **Wear-resistant crushing chamber:** Made from seamless steel pipe, highly resistant to wear and impact, prolonging service life and protecting samples from contamination and overheating.



3. **Full-width manganese chrome alloy hammer head:** Ensures uniform and thorough processing, resists clogging, and delivers superior crushing performance.
4. **Inserted screen plate design:** Tool-free, quick replacement saves maintenance time and boosts working efficiency.
5. **Stainless steel reducer:** Handles materials with high moisture, avoids clogging, and maintains sample integrity and uniformity.
6. **Efficient sampling:** Rapidly completes crushing, mixing, and reduction while preserving sample moisture—perfect for high-volume workplaces.
7. **Convenient operation and maintenance:** Simple to operate, easy to clean and maintain, reducing downtime and improving productivity.
8. **Low noise, smooth operation:** Quiet, stable machine operation improves workplace comfort and reduces noise pollution.
9. **Safety protection design:** All transmission components are fully protected, meeting safety standards to ensure operator safety.

Working Principle

The Sealed Hammer Crusher with Stainless Steel Splitter uses a combination of hammer crushing and reduction. Material enters the crushing chamber, where a high-speed alloy hammerhead delivers multi-directional impact, efficiently crushing even high hardness materials. The full-width hammerhead ensures uniform sample size, and the crushed material is distributed through a stainless steel reducer, preserving sample moisture and representativeness. Sealed construction prevents dust leakage and maintains sample quality.

- **Hammer head crushing:** Multi-directional impact with abrasion-resistant alloy hammer head crushes even tough materials like coke or ferroalloys.
- **Condensation:** Stainless steel reducer ensures representative sample division and retains moisture.
- **Sealed structure:** Prevents dust, preserves sample moisture, and ensures sample quality.

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Model	PSK180x150	PSK250x360
Feed size	≤50mm	≤150mm
Output size	less than 3mm, less than 6mm(adjustable)	less than 3mm, 6mm, 13mm(adjustable)
Reduction ratio	1/8 to 1/2(adjustable)	

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Model	PSK180x150	PSK250x360
Production rate	300 to 600kg per hour	1200 to 1800kg per hour
motor power	1.5kw + 0.4kw	4kw + 0.4kw
Power supply	three phase 380Vac	
Weight	260kg	380kg
Dimensions	800x760x1380mm	1150x730x1250mm