

high strength jaw crusher with zero point correction

High Strength Jaw Crusher is an efficient crushing equipment for mineral and alloy sample preparation, which is widely used in iron and steel, non-ferrous metallurgy and third-party testing organizations.

High Strength Jaw Crusher

The design and manufacture of the High Strength Jaw Crusher meets strict industry standards, ensuring accuracy and stability in sampling processes. This equipment is renowned for its outstanding performance, reliability, and ability to meet demanding requirements for sample preparation.

Main Features

1. Large diameter double shaft transmission structure: Effectively ensures the stability of the adjusting screw during high-intensity work, avoiding deformation common in conventional structures and enhancing durability and reliability.
2. Adjustable jaw gap: Continuously adjustable via a ruler, allowing users to easily set discharge size to achieve accurate crushing results for various materials.
3. Zero-point correction function: Automatically compensates for jaw wear, maintaining optimal working condition, extending service life, and reducing maintenance frequency.
4. Easy-to-clean crushing chamber: Front door can be easily opened for cleaning and maintenance, ensuring sample purity and preventing cross-contamination.



5. High-strength material jaws: Made of integral chrome alloy or tungsten carbide for excellent wear resistance and long-term stability under high load conditions.
6. High-quality imported bearings: Equipped with SKF imported bearings for smooth running, reduced friction loss, and lower failure rates.
7. Overload protection and grounding protection: Automatic shutdown on overload to prevent damage, with grounding protection for operator safety.

Working Principle

The High Strength Jaw Crusher crushes materials by the relative movement of two jaw plates: the movable jaw and the fixed jaw. Feed material is compressed, sheared, and rubbed between the jaws until it is crushed to the required size. The gap between the jaws can be adjusted for different granularity, and the zero-point correction function automatically compensates for jaw wear to maintain stable crushing performance.

Advantages

1. High-efficiency crushing: Large-diameter double-shaft drive and high-strength jaws enable efficient processing of hard materials.
2. Precise adjustment: Scale jaw gap adjustment and zero correction function allow flexible handling of different materials and particle size requirements.

3. Low failure rate: Imported bearings and optimized structure ensure stable operation and reduced maintenance costs.
4. Strong safety: Overload shutdown and grounding protection provide safety for both equipment and operators.
5. Environmental protection design: Meets modern industry requirements for environmental protection, reducing pollution during operation.

Application Areas

1. Iron and steel industry: Sample preparation of alloy materials such as silicon manganese alloy, ferrochrome, ferromolybdenum, ferroniobium, etc.
2. Non-ferrous metallurgy: Crushing and sample preparation for copper, aluminum, zinc, and other metal ores.
3. Mineral exploration and geological research: Preliminary crushing of ore samples for analysis and research.
4. Third-party testing organizations: Laboratory sample crushing and analysis for reliable mineral and alloy product quality inspection.
5. Chemical analysis field: High-precision sample preparation for accurate chemical composition analysis.

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Model	HP150G	HP150W
Feed size	≤80mm	≤800mm
Output size	less than 5mm or 10mm(adjustable)	
Production rate	200 to 500kg per hour	
Motor power	7.5kw	
Power supply	three phase 380Vac	
Weight	450kg	470kg
Dimensions	850x810x1200mm	850x810x1200mm
Jaw material	chromium alloy	tungsten carbide