

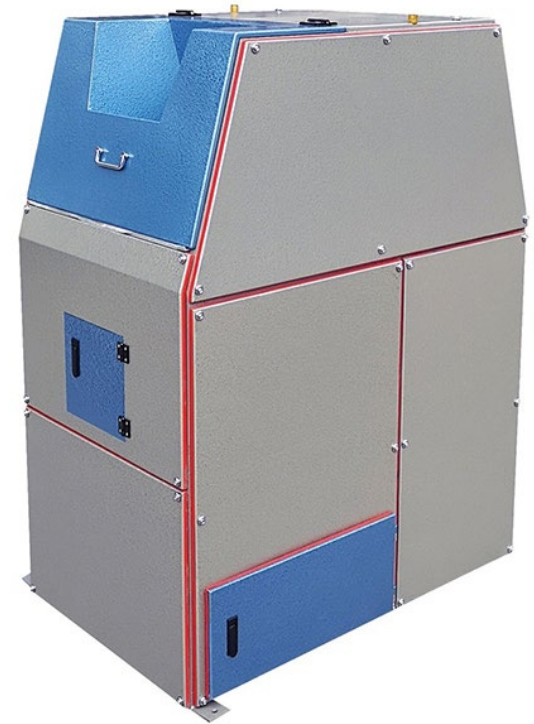
sealed alloy jaw crushing and splitting machine manufacturer

Sealed alloy jaw crushing and splitting machine is a kind of high efficient sample preparation equipment integrating crushing and reduction, which is widely used in coal, electric power, metallurgy, geology, building materials, third-party testing and other fields.

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In the chemical analysis or industrial quality control process of various types of minerals and solid bulk materials, the representativeness and homogeneity of samples are of vital importance, and the Sealed Alloy Jaw Crusher & Shrinker is specially designed for realizing high-precision and high-efficiency sample pre-processing.

This equipment meets the technical requirements of national standards GB 474 “Coal Sample Preparation Methods”, GB/T 2007 “Bulk Mineral Sampling, Sample Preparation General Rules”, GB/T 4010 “Ferroalloy Chemical Analysis Sample Taking and Preparation” and other related specifications, is one of the indispensable and important instruments for laboratories, sampling stations, quality control centers and other units.



Features

1. Fully sealed environmental protection design: the whole machine adopts fully sealed structure, no dust in the process of crushing and reduction, in line with national environmental protection requirements, friendly to the operator.
2. Alloy material crushing cavity: the key components are made of high wear-resistant alloy steel casting, impact resistance, abrasion resistance, long service life, suitable for high hardness or corrosive samples.
3. Adjustable discharge size: by adjusting the spacing of the jaws, it can realize the discharge of different size requirements to adapt to different sample making needs.
4. Efficient integrated operation: crushing, mixing and reduction can be completed at one time, which reduces manual operation and makes the samples more representative.
5. Stainless steel reduction system: reduction device is made of corrosion-resistant stainless steel, even if the sample moisture content is high, it is not easy to block, to ensure that the reduction process is smooth.
6. Easy operation and maintenance: compact structure, maintenance port design is reasonable, easy to clean up, reduce the labor intensity of operation.
7. Stable operation, low noise: optimization of transmission structure and buffer design, to ensure that the whole machine running smoothly, noise control in the safe range.

Advantages

1. Improve the representativeness of the samples: automatically complete the mixing and equalizing reduction, to avoid human error, to ensure that the analysis results are accurate and reliable.
2. Saving time and labor cost: one key to start to complete the entire sampling process, greatly improving work efficiency.
3. Safety protection design: the key transmission parts are equipped with protective cover and safety interlocking device to ensure safe operation.
4. Strong adaptability: whether coal, coke, ores, manganese ore, ferroalloy and other materials, can be quickly crushed, uniform shrinkage, to meet the needs of various laboratories.
5. Green environmental protection concept: sealed structure and low noise operation reflects the green industrial concept, help laboratories to meet environmental standards.

Working Principle

1. Crushing stage: the sample is crushed by the upper and lower two high-strength alloy jaw plates after entering from the feed opening. The movable jaws are driven by the electric motor for reciprocating motion, and the block sample is gradually crushed to the preset particle size.
2. Mixing Stage: The crushed sample enters the mixing chamber through free fall or infusion design to ensure that the material is fully homogenized before reduction.

3. Reduction stage: using the classic rotary or trough reduction principle, through the natural flow of materials will be divided into multiple collectors to achieve equal sample. The structure of reduction is made of stainless steel, which is corrosion-resistant and does not adhere to the sample, making the reduction process precise and reliable.

Application Areas

1. Coal and electric power industry: used for coal sample preparation and quality control, to meet the requirements of heat, moisture, ash, etc. before the analysis of the sample preparation.
2. Metallurgy and iron and steel industry: suitable for sample processing of raw materials such as ferroalloy, manganese ore, etc., to ensure the authenticity of assay data.
3. Geological survey and mineral analysis: used for crushing and reduction of geological samples or ore samples, to improve the accuracy of geological survey data.
4. Building materials industry: a reliable assistant for limestone, cement raw materials and other sampling process.
5. Third-party testing organizations: widely used in quality supervision, environmental protection monitoring, import and export inspection and other sampling occasions, to ensure that the test results have legal effect.
6. Scientific research and teaching units: laboratory sample pretreatment, assisting teaching and scientific research analysis.

Model	EPS100x60	EPS150x125
Feed opening size	100x60mm	150x125mm
Feed size	≤60mm	≤100mm
Output size	less than 5 to 20mm(adjustable)	less than 10 to 40mm(adjustable)
Reduction ratio	1/8 to 1/2(adjustable)	
Production rate	250 to 500kg per hour	850 to 1500kg per hour
motor power	1.5kw + 0.4kw	4kw + 0.4kw
Power supply	three phase 380Vac	
Weight	300kg	555kg
Dimensions	950x550x1100mm	1120x870x1450mm
Note	Alloy jaws for crushing high hardness ferroalloys such as manganese silicon, manganese ferroalloys, etc.	