fully sealed vibrating splitter for direct reduction

Fully sealed vibrating splitter is a high-precision laboratory sample splitting equipment, which adopts the classic shrinkage type design, and is able to split the material directly and uniformly without pre-mixing.

Fully Sealed Vibrating Splitter

It is suitable for precision automatic reduction of granular materials such as coal, iron ore, bauxite, sintered ore, pellet ore and so on.

Working Principle of Fully Sealed Vibrating Splitter

Based on vibration technology. Through the excitation force generated by the vibration motor, the equipment makes the material move along a specific trajectory in the dividing trough, and utilizes the inertia of the material and the effect of gravity to divide a large number of original samples into several smaller samples in a uniform manner. Due to the sealing design, the equipment effectively prevents material splashing and cross-contamination during the working process, which ensures the representativeness of the samples and the accuracy of the analysis results.

Features

1. High-precision segmentation: the use of classical reduction type design, to ensure the uniformity and accuracy of the sample segmentation.
2. Sealing design: sealed structure effectively prevents material splashing and cross-contamination, to protect the representativeness of the sample.
3. Simple operation: compact structure, friendly operation interface, easy to use and maintain.
4. Adaptable: applicable to a variety of granular material division, to meet different experimental needs.
5. Energy saving and environmental protection: the use of high-efficiency vibration motor, reduce energy consumption, reduce noise pollution.

Advantages

1. Improve the accuracy of analysis: by uniformly dividing the sample, to ensure the representativeness and accuracy of the analysis results.
2. Reduce human error: automated operation reduces manual intervention and operational error.
3. Improve work efficiency: Split the sample quickly to save experiment time and improve work efficiency.
4. Reduce the risk of cross-contamination: sealing design effectively prevents cross-contamination of materials to ensure the purity of the sample.

5. Prolong the life of the equipment: high-quality materials and precision craftsmanship to improve the durability and service life of the equipment.

Application Areas

1. Coal industry: used for splitting coal samples to ensure the representativeness of analysis results.
2. Mineral resources: for the division of ore samples such as iron ore, bauxite, sintered ore, pelletized ore, and so on.
3. Iron and steel metallurgy: used in the division of iron and steel raw materials and product samples to meet the quality control needs.
4. Geological exploration: in the process of geological exploration, the rock and soil samples are evenly divided.
5. Building materials industry: used for splitting samples of cement, sand and gravel and other building materials to ensure the accuracy of quality testing.
6. Third-party testing organizations: provide high-quality sample splitting equipment for third-party testing organizations to meet the standardized testing needs.

fully sealed vibrating splitter for direct reduction

Model	**ZD12**
Particle size for reduction	⩽3mm or ⩽6mm
Reduction ratio	1/2(adjustable)
Vibration frequency	1440rpm
Production rate	1200kg per hour
Motor power	0.37kw
Power supply	three phase 380Vac
Weight	100kg
Dimensions	750x750x800mm