benchtop sample divider with vibratory feed from vibrator

benchtop sample divider is a high-precision, miniaturized automatic sample shrinkage equipment, designed for laboratory and field rapid sample preparation and design.

Benchtop Sample Divider

The design of the benchtop sample divider strictly follows the national standards related to the preparation of solid particles samples such as coal, ore, etc., which can effectively realize the automatic mixing and isometric shrinkage of particles, ensuring the representativeness of the samples and the accuracy of the analytical results.

Features

1. Efficient rotary reduction structure, automatic completion of the equal parts of the sample, easy to operate.
2. Stepless variable speed feeding system, vibrator feeding stable and controllable, to avoid the phenomenon of material segregation.
3. Adjustable speed of the turntable, suitable for different particle sizes and sample types, to enhance the precision of the reduction.

4. All stainless steel structure, to ensure corrosion resistance, rust and corrosion, to meet the harsh experimental environment.
5. Accurate positioning of the material cup, sampling, sample exchange is convenient, improve work efficiency.
6. Closed design, reduce dust leakage, in line with laboratory environmental protection and safety norms.

Core Advantages

1. Compact size, space-saving: suitable for desktop or lab bench use, without complex installation.
2. Accurate reduction, small error: to ensure that the sample has a good representation, to meet the needs of analysis and testing.
3. Simple maintenance, long service life: high-quality materials and modular structure design, low maintenance costs.
4. Convenient operation, intelligent control: equipped with timing and speed adjustment function, users can easily realize automatic reduction.

Working Principle of Benchtop Sample Divider

Benchtop sample divider adopts the compound working mechanism of vibration feeding + rotary shrinking. Granular materials are firstly fed into the shrinking area evenly by the vibrating feeder, and then the rotary sampling disk distributes the materials proportionally to multiple receiving containers through continuous movement. By adjusting the amplitude and rotating speed of the rotating disk, the proportion and precision of reduction can be controlled, effectively preventing deviation due to particle settling or density difference. In addition, the closed structure can avoid the air disturbance caused by the sample offset, to further improve the consistency of the sample.

Applicable Fields

1. Coal industry: raw coal, commercial coal, washed coal and other sample preparation.
2. Mineral and metallurgical industry: iron ore, bauxite, ferroalloy, manganese ore and other particles of samples.
3. Building materials and chemical industry: for cement clinker, limestone, powder additives and other materials before processing.
4. Power and energy research institutions: for boiler coal quality monitoring.
5. Third-party testing and scientific research institutes: a variety of materials before quantitative analysis shrinkage operation.

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Model	**SD300**
Particle size for reduction	⩽3mm
Reduction ratio	1/8 to 1/2(adjustable)
Feed hopper capacity	0.5L
Number of sample buckets	8
Motor power	0.2kw
Power supply	220Vac, 50Hz
Weight	85kg
Dimensions	700x400x750mm