

sieve shaker with three dimensional electromagnetic drive

Sieve shaker is a precision particle size analysis equipment, widely used in laboratories and industrial production, mainly used for particle size classification and measurement of powders, granules, lumps and suspensions.

Electromagnetic Sieve Shaker

The Electromagnetic Sieve Shaker utilizes a three-dimensional electromagnetic drive system to ensure even sample distribution on the sieve mesh, delivering high-efficiency, low-noise, and stable screening for granular and powder materials. Its precise control and repeatability make it an essential tool for laboratory research, quality control, and industrial production in soil analysis, mineral analysis, pharmaceuticals, and more.

Technical Characteristics

1. **Three-dimensional electromagnetic drive:** Electronically controlled system produces uniform vibration and throwing motion for even sample grading.
2. **Adjustable parameters:** Vibration frequency and amplitude can be tailored to different materials for optimal screening stability and accuracy.
3. **Strong applicability:** Suitable for both dry and wet sieving, meeting diverse sample requirements.



4. **Continuous and intermittent modes:** Supports both vibration modes to enhance screening efficiency based on material properties.
5. **Quiet operation:** Electromagnetic drive ensures low noise, ideal for extended laboratory use.
6. **Intelligent memory function:** Stores up to 9 screening programs for quick switching between different grading conditions.
7. **Efficient cleaning:** Easy screen replacement and cleaning reduce maintenance workload.
8. **Screening time and frequency adjustment:** Allows fine control over process for superior adaptability and precision.

Working Principle

The sieve shaker transforms electromagnetic vibration into three-dimensional throwing motion, enabling uniform sample spread and effective grading across the sieve mesh. Adjustable frequency, amplitude, and screening time allow precise control for various materials and applications, ensuring repeatable and accurate results for every screening batch.

Application Areas

1. Agriculture: Crop seed screening, soil particle size analysis.
2. Minerals & metallurgy: Particle size separation of coal, ores, and raw materials.

3. Pharmaceutical & chemical industries: Particle analysis and screening of pharmaceuticals and chemical reagents.
4. Food industry: Grain, additives, and spice particle size analysis for product consistency.
5. Environment & resources: Soil analysis, solid waste management, waste screening for environmental research.
6. Glass & ceramics: Raw material and powder screening for accurate production ratios.
7. Construction industry: Particle size analysis of cement, sand, and gravel to optimize material use.

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Model	AS100
Sample features	powder, loose particles, suspensions
Timer	1 to 99 minutes
Measuring range	20µm to 30mm
Amplitude	0 to 3mm continuously adjustable
Dry and wet sieving	yes
Intermittent operation	0 to 99s
Sample load	3kg

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Model	AS100
Number of analyzing sieve stages	9 stages
Sieve material	stainless steel
Diameter of sieve	100, 150, 200, 203mm, 8"
Movement form	three-dimensional throwing movement
Power supply	220Vac, 50Hz
Power	400W
Net weight	43kg
Dimensions	400x480x240mm
Note:	Sieve shaker is made in China, but all sieves are made in european and the USA. Our sieves standards are available in ASTM E11 and ISO 3310 for users to choose from.