

tap sieve shaker for the military and chemical industries

By simulating manual sieving action and combining circular motion with vertical clapping, the clapper sifter is capable of standardized automatic sieving of powder and granular samples, and is the recommended sieving equipment in accordance with a number of international standards, such as ISO and ASTM.

Tap Sieve Shaker

The Tap Sieve Shaker is an efficient and accurate dry particle analysis instrument designed for laboratory and quality inspection applications in particle classification, particle size determination, and sieve analysis. Ideal for irregular, agglomerating, and friction-prone samples, this device is widely used in metallurgy, geology, pharmaceuticals, building materials, chemicals, food, soil testing, and more.

Features

1. **Dual motion mode:** Integrates circular translation and vertical tapping action to replicate manual screening, suitable for complex particle samples.
2. **Strong sieving consistency:** Fixed movement frequency and stable mechanical structure ensure highly repeatable sieving experiments.



3. **Multi-layer sieve frame support:** Accommodates up to 7 layers of standard analytical sieves (200 mm or 8-inch diameter) for rapid and efficient classification.
4. **Easy operation:** Precise digital panel for sieving time settings, one-button start for standardized testing.
5. **Durable structure:** Maintenance-free AC motor drive and robust anti-vibration body for long service life.
6. **Safety and security:** Equipped with safety switch and anti-jamming system for reliable operation.
7. **Low noise operation:** Optional soundproof cabinet, suitable for continuous laboratory use.

Working Principle

Driven by a motor, the sieve frame platform moves in a horizontal circular motion, simulating manual sieving, while vertical tapping action replicates manual flapping. This dual force ensures thorough particle separation: larger particles remain on the screen, while finer particles pass through to lower screens. The tapping action is switchable to suit different sample properties, and precise control of sieving time and movement frequency guarantees accurate, reproducible results.

Application Areas

1. Geology and minerals: Particle size analysis and grading after ore crushing, soil particle screening.
2. Building materials industry: Particle size control for cement, lime, sand, gravel, and related raw materials.
3. Pharmaceutical industry: Consistency testing of powder particles, granule quality control.
4. Food industry: Dry powder screening and grading for products like flour and powdered sugar.
5. Chemical industry: Particle size assessment for pigments, catalysts, additives, and powders.
6. Environmental protection and agriculture: Screening of contaminated soils and fertilizer particle analysis.

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Model	AS200tap
Number of screen layers	1 to 7
Sieve diameter	200mm, 203mm, 8inch
Sieve size	20 μ m to 25mm
allowable load	\leq 3kg
Oscillations per minute	278 \pm 10

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Model	AS200tap
Taps per Minute	150 ± 10
Tap height	38 ± 6mm
Oscillations displacement	25mm
Timer	1s to 99minutes
Noise	less than 82db
Power supply	220Vac, 50Hz
Power	180W
Dimensions	700x450x650mm
Weight	68kg
Measuring range	20µm to 30mm
Amplitude	0 tp 3mm continuously adjustable

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Model	AS200tap
Dry and wet sieving	yes
Intermittent operation	0 to 99s
Sample load	3kg
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

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Model	AS200tap
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.