

Vibratory Sieve Shaker AS 450 control

General Information

The analytical sieve shaker AS 450 control is used in research & development, quality control of raw materials, interim and finished products as well as in production monitoring. The controllable electromagnetic drive offers an optimal adaption for every product. Sharp fractions are obtainable even after very short sieving times.

With the sieve shaker AS 450 control RETSCH have designed their first sieve for 400 mm and 450 mm sieves which operates with a three-dimensional sieving motion. It can be used for dry and wet sieving. The optimized electromagnetic drive with RETSCH's CET Technology allows for an amplitude up to 2.2 mm even with maximum loads up to 25 kg. This makes the AS 450 superior to all other known sieve shakers based on conventional electromagnetic or imbalance drives.



Application Examples

cement clinker, chemicals, coal, coke, construction materials, fillers, minerals, ores, plastics, sand, soils, ...

Product Advantages

- suitable for dry and wet sieving
- excellent separation efficiency even with short sieving times
- efficient electromagnetic drive
- 3-D throwing motion which ensures optimum use of the open sieve area and lets the sample move equally over the whole sieving surface
- CET Technology for controlled amplitude even with high loads (up to 25 kg)
- up to 13 fractions in one sieving operation
- free digital adjustment of all process parameters (time, amplitude or sieve acceleration, interval)
- memory for up to 9 SOPs
- mobile operation panel for comfortable handling
- optional software EasySieve for control through RS232 serial interface, easy evaluation and documentation of results
- fulfils all criteria for measuring equipment related to ISO 9001
- maintenance-free
- easy operation (clamping), ergonomic design
- Dry and wet sieving in one model

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Features

Applications	separation, fractioning, particle size determination
Field of application	chemistry / plastics, construction materials, engineering / electronics, environment / recycling, geology / metallurgy, glass / ceramics
Feed material	powders, bulk materials, suspensions
Measuring range*	25 µm - 125 mm
Sieving motion	throwing motion with angular momentum - 3D movement
Max. batch / feed capacity	25 kg
Max. number of fractions	13 / 9 (min. 3)*
Max. mass of sieve stack	50 kg
Amplitude	digital, 0.2 - > 2.2 mm
Sieve acceleration	1 -> 7.1 g
Time display	digital, 1 - 99 min
Interval operation	10 - 99 s
Storable SOPs	9
Suitable for dry sieving	yes
Suitable for wet sieving	yes
Serial interface	yes
Suitable sieve diameters	400 mm / 450 mm
Max. height of sieve stack	963 mm
Clamping devices	"standard", "comfort", each for wet and dry sieving
Electrical supply data	different voltages
Power connection	1-phase
W x H x D	705 x 440 x 635 mm
Net weight	~ 220 kg
Standards	CE

Please note:

*depending on sieve height and clamping unit

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Videolink

<http://www.retsch.com/as450control>

Function Principle

RETSCH has patented the Continuous Energy Transfer Technology (CET Technology) on which the drive of the AS 450 control is based. The CET Technology provides a substantially higher energy input than the technology used in conventional sieve shakers. The AS 450 control achieves the highest amplitude even with maximum load which ensures optimum separation efficiency and high reproducibility. The electromagnetic drive which lets the sieve stack vibrate continuously transfers its energy in a controlled way to the sieve plate, following the harmonic sinusoidal oscillation of alternating current. The drive produces a 3D throwing motion that moves the product to be sieved equally over the whole sieving surface. The advantage: high stress capacity, extremely smooth operation and short sieving times with high separation efficiency.



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