

Tap Sieve Shaker AS 200 tap

General Information

The analytical sieve shaker AS 200 tap is used in research & development, quality control of raw materials, interim and finished products as well as in production monitoring.

Its tapping motion supports the sieve analysis of certain products such as activated carbon, abrasives, metal powder, spices and diamonds, as specified in the corresponding standards.



Application Examples

abrasives, cement, charcoal, coal, diamonds, spices, ...

Product Advantages

- horizontal circular sieving motion with vertical taps
- maintenance-free
- suitable for dry sieving
- excellent separation efficiency even with short sieving times
- sieve stack up to 350 mm height
- digital time setting
- easy operation, ergonomic design
- incl. software EasySieve for control through RS232 serial interface, easy evaluation and documentation of results
- fulfils all criteria for measuring equipment related to ISO 9001

Features

Applications	separation, fractioning, particle size determination
Field of application	agriculture, biology, chemistry / plastics, construction materials, engineering / electronics, environment / recycling, food, geology / metallurgy, glass / ceramics, medicine / pharmaceuticals
Feed material	powders, bulk materials
Measuring range*	20 μm - 25 mm
Sieving motion	horizontal circular motion with taps
Max. batch / feed capacity	3 kg
Max. number of fractions	7 / 13
Max. mass of sieve stack	6 kg
Speed	280 min^{-1}
No. of taps	150 min^{-1}
Time display	digital, 1 - 99 min
Suitable for dry sieving	yes
Suitable for wet sieving	-

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Serial interface	yes
Including test certificate / can be calibrated	-
Suitable sieve diameters	200 mm / 203 mm (8")
Max. height of sieve stack	380 mm
Protection code	IP 50
Electrical supply data	different voltages
Power connection	1-phase
Power consumption	180 W
W x H x D	700 x 640 x 450 mm / with sound enclosure cabinet: 700 x 670 x 520 mm
Net weight	~ 68 kg / with sound enclosure cabinet: ~ 92 kg

Please note:

*depending on feed material and instrument configuration/settings

Function Principle

In the AS 200 tap, mechanical action is applied to the test sieves in two dimensions. In addition to a horizontal circular motion with 280 oscillations, a vertical tapping motion with 150 taps per minute helps the particles to pass the sieve apertures. This combination of sieving motions simulates hand sieving. The number of oscillations and taps is independent of the power frequency which makes the sieving results of the AS 200 tap comparable world wide.