

VIBRATORY SIEVE SHAKER AS 200 CONTROL

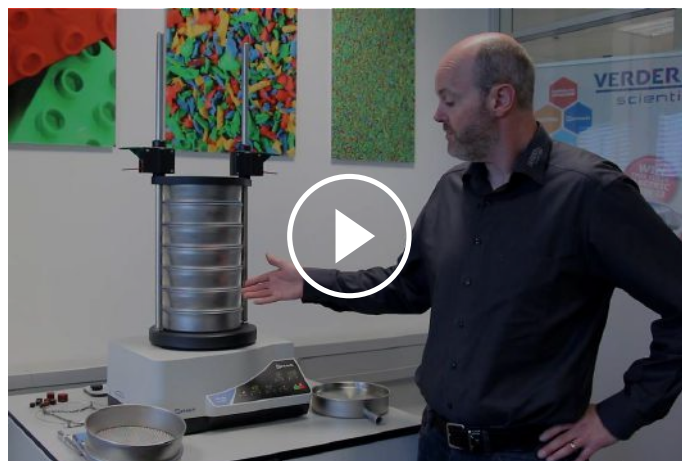
Worldwide comparability of results



The analytical sieve shakers of the series AS 200 are 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 obtained even after very short sieving times.

With its all-digital controls, up to 99 sieving programs and calibration certificate the sieve shaker AS 200 control is indispensable for all users who attach importance to precision and operational convenience and need to comply with the guidelines of the ISO 9001.

The AS 200 control can be calibrated to ensure 100% reproducibility of sieving results, not only in one device, but among all AS 200 control units! Accordingly, this model is perfectly suited to check particle size distributions for quality control, for example between suppliers and customers.



[Click to view video](#)

Product Video



ACCURACY & EFFICIENCY

- | 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
- | Setting of sieve acceleration "g" for comparable and reproducible sieving results worldwide
- | Free digital adjustment of all process parameters (time, amplitude or sieve acceleration, interval)



VIBRATORY SIEVE SHAKER AS 200 CONTROL

SAFE AND SIMPLE OPERATION

Operation of the AS 200 control is convenient and easy. All sieving parameters – vibration height, time, interval – are set, displayed and monitored digitally. Up to 99 parameter combinations (SOPs) can be stored for routine analyses. Through the integrated interface the instrument can be connected to a PC and controlled with the evaluation software EasySieve[®]. This program enables the user to control the whole sieving process and the subsequent documentation with convenience and accuracy.



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WET SIEVING WITH VIBRATORY SIEVE SHAKERS

There are many applications for which wet sieving is the best solution, e.g. when the material to be tested is a suspension or when a very fine sample ($< 45 \mu\text{m}$) that tends to agglomerate needs to be sieved. All vibratory sieve shakers from RETSCH can be used for wet sieving. There are special accessories like clamping lids with spray nozzle and collecting pans with outlet available. By placing RETSCH's venting rings between the sieves, air cushions can expand without letting liquid or sample material escape.



VIBRATORY SIEVE SHAKER AS 200 CONTROL

ACCESSORIES & OPTIONS

The sieve shakers of the control series can be equipped with a variety of accessories to provide for a wealth of application requirements.



| Clamping units

With the RETSCH clamping devices the sieves are clamped safely, quickly and conveniently on the sieve shaker. The clamping devices "comfort" are particularly user-friendly and timesaving.

| Accessories for test sieves

Collecting pans, intermediate pans, intermediate rings and sieve lids.

| IQ/OQ Documents

We provide IQ/OQ documentation for the „control“ sieve shakers to support IQ/OQ certification by our customers.

| Sample Dividers

Meaningful results can only be obtained if the sample represents the original material. Sample dividers produce representative part samples, thus ensuring reproducibility of the analysis.

Accessories for wet sieving

Clamping lid with nozzle, collecting pans with outlet, venting rings.

Sieving Aids

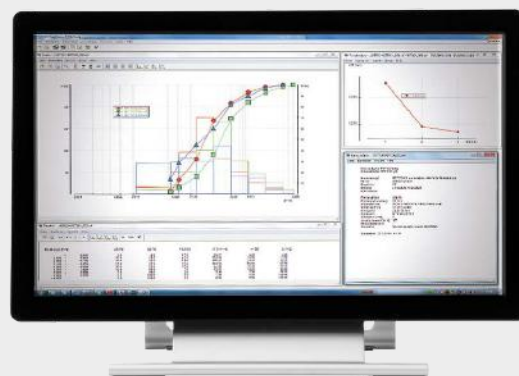
Chain rings, brushes, cubes, balls (e.g. for reducing agglomerations when sieving particles < 100 µm and keeping the mesh free).

Ultrasonic baths and dryers

Suitable for thorough cleaning of test sieves and for quick, gentle drying of samples and sieves.

EASYSIEVE / EASYSIEVE CFR EVALUATION SOFTWARE

EasySieve, the software for particle size analyses, exceeds manual evaluation in many aspects. The software is able to automatically control the necessary measurement and weighing procedures – from the registration of the weight of the sieve up to the evaluation of the data. It is simple and convenient to use and is also available in an FDA 21 CFR Part 11 compliant version.



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TYPICAL SAMPLE MATERIALS

Vibratory sieve shakers are frequently used for grain size analysis of cement clinker, chemicals, coffee, construction materials, fertilizers, fillers, flours, grains, metals powders, minerals, nuts, plastics, sand, seeds, soils, washing powder, etc.



coffee

soil

cereals

To find the best solution for your sample preparation task, visit our application database:

VIBRATORY SIEVE SHAKER AS 200 CONTROL

TECHNICAL DATA

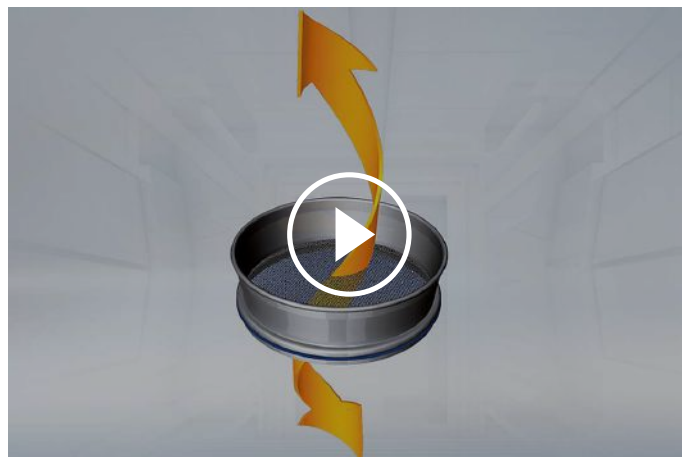
Applications	separation, fractioning, particle size determination
Field of application	agriculture, biology, chemistry / plastics, construction materials, engineering / electronics, environment / recycling, food, geology / metallurgy, glass / ceramics, medicine / pharmaceuticals
Feed material	powders, bulk materials, suspensions
Measuring range*	20 µm - 25 mm
Sieving motion	throwing motion with angular momentum
Max. batch / feed capacity	3 kg
Max. number of fractions	11 / 22
Max. mass of sieve stack	6 kg
Amplitude	digital, 0.2 - 3 mm
Controlled amplitude	yes
Sieve acceleration	1.0 - 15.1 g
Time display	digital, 1 - 99 min
Interval operation	1 - 99 s
Storable SOPs	99
Suitable for dry sieving	yes
Suitable for wet sieving	yes
USB interface	yes
Including test certificate / can be calibrated	yes
Suitable sieve diameters	100 mm / 200 mm / 203 mm (8")
Max. height of sieve stack	620 mm
Clamping devices	"standard", "comfort", each for wet and dry sieving
Protection code	IP 54 / IP 20
Electrical supply data	100-240 V, 50/60 Hz
Power connection	1-phase
W x H x D	417 x 212 x 384 mm
Net weight	~ 35 kg
Standards	CE

*depending on feed material and instrument configuration/settings

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FUNCTIONAL PRINCIPLE

All sieve shakers of the series AS 200 work with an electromagnetic drive that is patented by RETSCH (EP 0642844). This 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.



[Click to view video](#)

www.retsch.com/as200control