Retsch®
a VERDER company



VIBRATORY SIEVE SHAKER

AS 200 BASIC

retsch.com/products/sieving/sieve-shakers/as-200-basic/

AS 200 BASIC

VIBRATORY SIEVE SHAKER

The vibratory 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 short sieving times.

The AS 200 basic sieve shaker is the economical alternative of the series with familiar RETSCH quality and reliability. It features digital setting and display of performance and time.



CONTROLLED SIEVING PERFORMANCE

Digital setting and display of performance and time make the AS 200 basic a practical choice for routine dry and wet sieving tasks.

AT A GLANCE

- 20 µm – 25 mm measuring range
- Dry and wet sieving
- Up to 3 kg batch / feed capacity
- Sieve stack up to 510 mm

AS 200 BASIC

ACCURACY & EFFICIENCY

- NEW: digital display of performance and time
- Suitable for dry and wet sieving
- Excellent separation efficiency even with short sieving times
- Efficient electromagnetic drive
- Sieve stack up to 510 mm height
- Free adjustment of all process parameters (time, performance)
- 3-D throwing motion which ensures optimum use of the open sieve area and lets the sample move equally over the whole sieving surface
- Optional comfort clamping device
- Optional evaluation software EasySieve
- Maintenance-free
- Easy operation, ergonomic design

AS 200 BASIC

WET SIEVING

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 µm) 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 BASIC

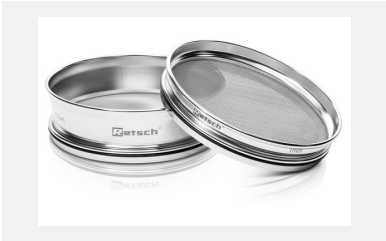
ACCESSORIES & OPTIONS

RETSCH sieve shakers can be equipped with a variety of accessories to meet a wide range 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.



SIEVING AIDS

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



ACCESSORIES FOR TEST SIEVES

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



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.

SIEVE ACCESSORIES → retsch.com/products/sieving/test-sieves/sieves-accessories/

AS 200 BASIC

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-conform version.

EASYSIEVE SOFTWARE →

retsch.com/products/sieving/evaluation-software/

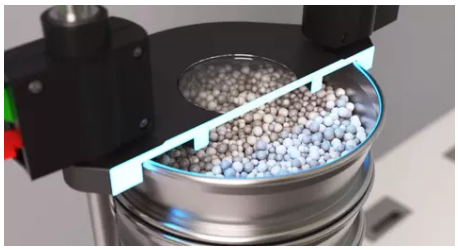


AS 200 BASIC

FUNCTIONAL PRINCIPLE

Each vibratory sieve shaker of the series AS 200 is equipped 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.



AS 200 / AS 300 / AS 450 function principle — video poster frame.

AS 200 BASIC

TYPICAL APPLICATIONS

RETSCH's vibratory sieve shakers are ideally suited for separation, fractioning and particle size determination of cement clinker, chemicals, coffee, construction materials, fertilizers, fillers, flours, grains, metals powders, minerals, nuts, plastics, sand, seeds, soils and washing powder.



fertilizers



soil



cereals



construction materials

FIND THE RIGHT PREPARATION ROUTE

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

APPLICATION DATABASE →

retsch.com/applications/application-database-retsch/



AS 200 BASIC

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	9 / 17
Max. mass of sieve stack	4 kg
Amplitude	digital, 1 - 100% (0 - 3 mm)
Controlled amplitude	-
Time display	digital, 1 - 99 min
Suitable for dry sieving	yes
Suitable for wet sieving	yes
USB interface	-
Including test certificate / can be calibrated	-
Suitable sieve diameters	100 mm / 200 mm / 203 mm (8")
Max. height of sieve stack	510 mm
Clamping devices	standard, "comfort", each for wet and dry sieving
Protection code	IP 21
Electrical supply data	different voltages
Power connection	1-phase
W x H x D	417 x 212 x 384 mm
Net weight	~ 35 kg
Standards	CE Complies with the requirements of the European Pharmacopoeia 2.9.12 and 2.9.38

AS 200 BASIC

ORDERING INFORMATION

VIBRATORY SIEVE SHAKERS AS 200

For test sieves up to 203 mm / 8" Ø. Please order clamping device, test sieves and collecting pan separately. Other electrical versions available for the same price.

30.030.0001	AS 200 basic | 230 V, 50 Hz

CLAMPING DEVICES AS 200

Max. number of fractions 9 / 17; suitable sieve diameters shown below.

32.662.0002	Clamping device "standard", 200 / 203 mm Ø
32.662.0001	Clamping device "comfort", 200 / 203 mm Ø
32.662.0005	Universal clamping device "standard", 100 – 203 mm Ø
32.662.0004	Universal clamping device "comfort", 100 – 203 mm Ø
32.662.0007	Universal wet sieving clamping device "standard", 100 – 203 mm Ø
32.662.0006	Universal wet sieving clamping device "comfort", 100 – 203 mm Ø

SIEVE STACKS AND ACCESSORIES AS 200

60.131.000999	Sieve stack: 8 test sieves (ISO 3310-1), 200 mm Ø, 50 mm height; 45 µm, 63 µm, 125 µm, 250 µm, 500 µm, 1 mm, 2 mm, 4 mm; collecting pan.
60.150.000999	Sieve stack: 8 test sieves (ASTM E11), 203 mm (8") Ø, 50 mm (2") height; 325, 230, 120, 60, 35, 18, 10, 5 mesh; collecting pan.

ACCESSORIES AS 200

02.938.0001	Add-on weight 2100 g (two discs) for low loads (< 2 kg) for AS 200 basic
03.243.0044	Rubber disc for sieve plate
99.200.0037	IQ/OQ Documentation for AS 200 basic
32.481.0022	Clamping lid with large window of Perspex for test sieves 200/203 mm Ø
32.481.0014	Universal clamping lid with small window for test sieves 100/150/200/203 mm Ø
32.481.0015	Universal wet sieving lid with small window for test sieves 100/150/200/203 mm Ø

CLAMPING ELEMENTS & RODS

32.142.0001	Clamping nuts, (2 pieces), "standard"
32.737.0001	Quick-clamping elements, (2 pieces), "comfort" AS 200/300/400
05.114.0061	O-ring for quick-clamping element for AS 200, 1 piece
32.248.0002	Threaded rods, (2 pieces), "standard"
32.248.0001	Threaded rods, short, (2 pieces), max. 5 sieves, "standard"
32.742.0009	Rods, smooth, (2 pieces), "comfort" AS 200
32.742.0011	Rods, smooth, short, (2 pieces), max. 5 sieves, "comfort" AS 200

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ORDERING INFORMATION

SIEVING AIDS

32.365.0001	Chain ring for test sieves 200 mm and 203 mm Ø
32.050.0001	Brushes, 3 pieces
32.902.0001 / 0002	Cubes of polyurethane, 12 × 12 × 12 mm / 20 × 20 × 20 mm, 10 pieces each
32.354.0001 / 0002 / 0004	Balls of rubber, 20 mm Ø, 5 pieces / agate, 10 mm Ø, 10 pieces / steatite, 6 mm Ø, 150 g
32.012.0001	Test Sieve Rack for 10 Test Sieves Ø 200 mm/8”, height 50 mm/25 mm

ACCESSORIES FOR TEST SIEVES (PANS, RINGS, LIDS)

All listed accessories are stainless steel where specified. Article numbers for 200 mm Ø accessories are shared between 50 mm and 25 mm sieve-height groups where the source repeats them.

Article number	200 mm Ø accessories	Height
69.720.0050 / 0025	Collecting pan	50 / 25 mm
69.220.0050 / 0025	Intermediate pan	50 / 25 mm
69.121.0050 / 0025	Intermediate ring	50 / 25 mm
69.520.0051	Sieve lid	—
69.420.0050	Collecting pan with outlet	50 mm
69.221.0025	Venting ring for wet sieving	25 mm
05.114.0174	O-ring for test sieves	—

Article number	203 mm / 8” Ø accessories	Height
69.720.3050 / 3025	Collecting pan	2” / 1”
69.220.3050 / 3025	Intermediate pan	2” / 1”
69.121.3050 / 3025	Intermediate ring	2” / 1”
69.520.3051	Sieve lid	—
69.420.3050	Collecting pan with outlet	2”
69.221.3025	Venting ring for wet sieving	1”
05.114.0174	O-ring for test sieves	—

FOR TEST SIEVES 100 MM Ø

60.010.000100	Collecting pan, stainless steel, height 40 mm
60.220.000100	Intermediate pan, stainless steel, height 40 mm
60.935.000100	Intermediate ring, stainless steel, height 40 mm
60.107.000100	Sieve lid, stainless steel
60.010.100100	Collecting pan with outlet, stainless steel, height 40 mm
05.114.0045	O-ring for test sieves

AS 200 BASIC

TEST SIEVES — ORDERING DATA

Test sieves: 200 mm Ø; ISO 3310/1; stainless steel / wire gauze. The catalogue lists both 50 mm and 25 mm heights, each available with compliance, inspection or calibration certificate. The tables below reproduce the complete range as compact article-number series.

Height	Compliance certificate	Inspection certificate	Calibration certificate
50 mm	60.131.xxxxxx	60.231.xxxxxx	60.331.xxxxxx
25 mm	60.122.xxxxxx	60.222.xxxxxx	60.322.xxxxxx

Article-number key: xxxxxx is the six-digit nominal opening in micrometres, zero-padded. For example 20 µm = 000020; 1.00 mm = 001000; 125.00 mm = 125000. Certificate 1 = compliance, 2 = inspection, 3 = calibration. A dash is shown for the web catalogue's "# mesh no." column.

AVAILABLE OPENINGS · MICROMETRES

20 · 25 · 32 · 36 · 38 · 40 · 45 · 50 · 53 · 56 · 63 · 71 · 75 · 80 · 90 · 100 · 106 · 112 · 125 · 140 · 150 · 160 · 180 · 200 · 212 · 224 · 250 · 280 · 300 · 315 · 355 · 400 · 425 · 450 · 500 · 560 · 600 · 630 · 710 · 800 · 850 · 900 µm

AVAILABLE OPENINGS · MILLIMETRES

1.00 · 1.12 · 1.18 · 1.25 · 1.40 · 1.60 · 1.70 · 1.80 · 2.00 · 2.24 · 2.36 · 2.50 · 2.80 · 3.15 · 3.35 · 3.55 · 4.00 · 4.50 · 4.75 · 5.00 · 5.60 · 6.30 · 6.70 · 7.10 · 8.00 · 9.00 · 9.50 · 10.00 · 11.20 · 12.50 · 13.20 · 14.00 · 16.00 · 18.00 · 19.00 · 20.00 · 22.40 · 25.00 · 26.50 · 28.00 · 31.50 · 35.50 · 37.50 · 40.00 · 45.00 · 50.00 · 53.00 · 56.00 · 63.00 · 71.00 · 75.00 · 80.00 · 90.00 · 100.00 · 106.00 · 112.00 · 125.00 mm

The catalogue lists some larger test sieve openings beyond the shaker's stated measuring range of 20 µm – 25 mm. Consult the order-data page for selection and suitability.

FULL ORDER DATA →

retsch.com/products/sieving/sieve-shakers/as-200-basic/order-data/

AS 200 BASIC

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