



## AIR JET SIEVING MACHINE AS 200 JET

**The Air Jet Sieving Machine AS 200 jet is particularly suitable for low density and low particle size materials which tend to agglomerate. It is used with sieves of 10 microns mesh size and up. The procedure is very gentle on the material as no mechanical sieving aids are required. The average sieving time is only 2-3 minutes.**

The AS 200 jet is specifically designed for test sieves with a diameter of 203 mm/8" (or 200 mm with adapter). The air jet generated by an industrial vacuum cleaner can be adjusted by using the manual vacuum regulation. Optionally, an automatic vacuum regulation is available. The Open Mesh Function, a procedure which greatly reduces the number of near-mesh particles, provides optimum separation efficiency, excellent reproducibility and a longer service life of the sieves. Sieving time and nozzle speed are conveniently selected with a single button; the settings are shown in the graphic display. The Quick Start Mode is used to start the sieving process under standard conditions without entering parameters.



## ACCURACY & EFFICIENCY

- | Air jet technology for dispersion and deagglomeration
- | Measuring range 10 µm to 4 mm
- | Quick, efficient procedure
- | Open Mesh Function reduces near-mesh particles
- | Digital parameter setting (time, vacuum, speed)
- | Quick Start option
- | Variable nozzle speed
- | Automatic vacuum regulation and cyclone (options)
- | Memory for 9 Standard Operating Procedures (SOPs)
- | Suitable for RETSCH standard sieves

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## ACCESSORIES & OPTIONS

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



### Cyclone with holder and collecting receptable

To extend the service life of the filters in the vacuum cleaner and for recovery of the sample fraction passing the sieve, we recommend the use of the optional cyclone. The separation degree and limiting particle size respectively depend on the sample characteristics.



### Test sieves 10 µm and up

RETSCH test sieves consist of a solid stainless steel sieve frame of high stability for reliable sieving results. Paying close attention to mesh-specific requirements, the fabric of each test sieve is precisely joined into the frame and tautened.



### 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.



### Ultrasonic baths and dryers

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

## RETSCH TEST SIEVES AND ACCESSORIES - ENGINEERED FOR SUPERIOR PERFORMANCE

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## TYPICAL SAMPLE MATERIALS

RETSCH's Air Jet Sieve AS 200 jet is ideally suited for separation, fractioning and particle size determination of pharmaceutical materials, ceramics, chemical products, cosmetics, food, minerals, pigments, plastics, powder coating, rubber, toner particles and washing powder.



*coffee*



*spices*



*cement*

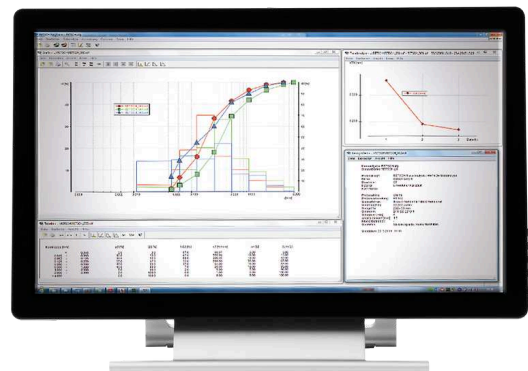


*minerals*

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

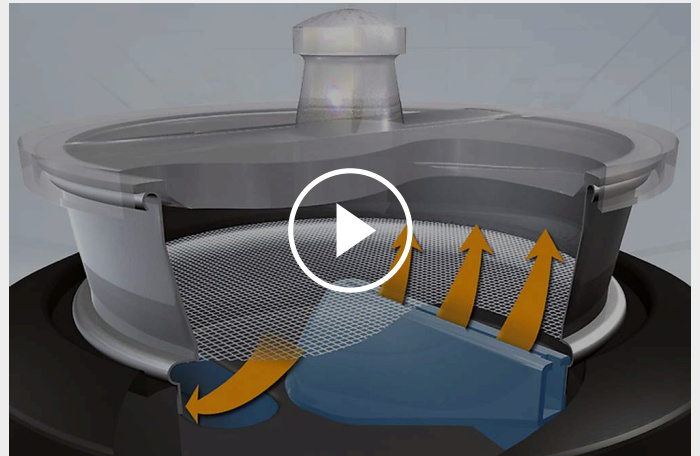
## EASYSIEVE / EASYSIEVE CFR EVALUATION SOFTWARE

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.



## FUNCTIONAL PRINCIPLE

The AS 200 jet is equipped with a rotating slotted nozzle. The sieve and lid are placed above the nozzle. A vacuum generates a strong jet of air which disperses the particles on the sieve through the slotted nozzle. The material which is smaller than the mesh size of the sieve is transported by the back flow of the air to the cyclone or to the vacuum cleaner. The air jet helps to deagglomerate the particles and constantly purges the sieve mesh.



[Click to view video](#)

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### TECHNICAL DATA

<b>Applications</b>	separation, fractioning, particle size determination
<b>Field of application</b>	chemistry / plastics, construction materials, environment / recycling, food, geology / metallurgy, glass / ceramics, medicine / pharmaceuticals
<b>Feed material</b>	powders
<b>Measuring range*</b>	10 µm - ~ 4 mm
<b>Sieving motion</b>	dispersion by air jet
<b>Max. batch / feed capacity</b>	0.3 - 100 g
<b>Max. number of fractions</b>	1 (by using a cyclone: 2)
<b>Speed</b>	digital, 5 - 55 min <sup>-1</sup> (nozzle)
<b>Time display</b>	digital, 00:10 - 99:59 min
<b>Interval operation</b>	no
<b>Vacuum</b>	2,000 - 9,999 Pa / 20 - 99 mbar / 0.3 – 1.45 psi
<b>Storable SOPs</b>	9 / Quick Start mode
<b>Suitable for dry sieving</b>	yes
<b>Suitable for wet sieving</b>	no
<b>Serial interface</b>	yes
<b>Including test certificate / can be calibrated</b>	yes
<b>Suitable sieve diameters</b>	203 mm (200 mm with adapter)
<b>Max. height of sieve stack</b>	1 sieve (25 mm (1") / 50 mm ( 2"))
<b>Accessories</b>	cyclone / automatic vacuum regulation
<b>Electrical supply data</b>	100-240 V, 50/60 Hz
<b>Power connection</b>	1-phase
<b>W x H x D</b>	460 x 288 x 305 (without cover)
<b>Net weight</b>	~ 16 kg
<b>Standards</b>	CE

\*depending on feed material and instrument configuration/settings


[www.retsch.com/as200jet](http://www.retsch.com/as200jet)




## ORDER DATA

### AIR JET SIEVING MACHINE AS 200 JET


**Air Jet Sieving Machine AS 200 jet for test sieves 203 mm (8") Ø, with manual vacuum regulation, incl. lids for test sieves 1" and 2" height and rubber mallet  
(please order test sieve and vacuum cleaner separately)**


30.027.0001  AS 200 100–240 V, 50/60 Hz incl. test report acc. to EN 10204 2.2  
jet

### CYCLONE AS 200 JET


32.935.0008  Cyclone with holder and collecting receptacle (250 ml and 500 ml sample bottle)  
(industrial vacuum cleaner GM 80 recommended)

### ACCESSORIES AS 200 JET

32.748.0004  Industrial vacuum cleaner GM 80, 230 V, 50/60 Hz (other electrical versions  
available) only for 30.027.0001

32.524.0010  Main filter for industrial vacuum cleaner GM 80, 1 piece


32.524.0011  HEPA filter unit for industrial vacuum cleaner GM 80, incl. 1 HEPA filter

32.524.0012  HEPA filter for industrial vacuum cleaner GM 80, 1 piece

32.100.0004 Automatic vacuum regulation AS 200 jet

02.025.0070  Adapter and lids for test sieves 200 mm Ø x 50 mm and 200 mm Ø x 25 mm

03.107.0487  Spare lid for test sieves 203 mm (8") Ø x 1"

03.107.0448  Spare lid for test sieves 203 mm (8") Ø x 2"

22.523.0001  Sample bottles, 250 ml, 10 pieces

22.523.0002  Sample bottles, 500 ml, 10 pieces

## TEST SIEVES WITH ELECTROFORMED SHEET

60.142.000010	Test sieve with electroformed sheet (ISO 3310-3), 203 mm Ø, 25 mm height, 10 µm
60.142.000016	Test sieve with electroformed sheet (ISO 3310-3), 203 mm Ø, 25 mm height, 16 µm

## ADDITIONAL ITEMS AS 200 JET

99.200.0003	IQ/OQ Documentation for AS 200 jet
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