



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

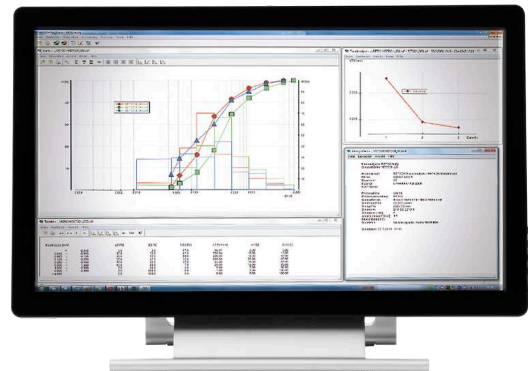


minerals

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

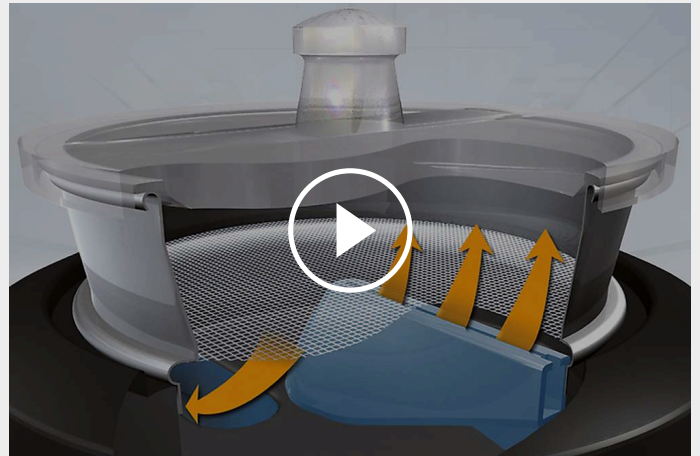
EASYSIEVE / EASYSIEVE CFR EVALUATION SOFTWARE

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

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

*depending on feed material and instrument configuration/settings

www.retsch.com/as200jet

ORDER DATA

AIR JET SIEVING MACHINE AS 200 JET

Air Jet Sieving Machine 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 jet	100–240 V, 50/60 Hz	incl. test report acc. to EN 10204 2.2
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VACUUM CLEANER 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
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32.524.0010		Main filter for industrial vacuum cleaner GM 80, 1 piece
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32.524.0011		HEPA filter unit for industrial vacuum cleaner GM 80, incl. 1 HEPA filter
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32.524.0012		HEPA filter for industrial vacuum cleaner GM 80, 1 piece
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32.100.0004		Automatic vacuum regulation AS 200 jet
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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 (32.748.0004) recommended) only for 30.027.0001
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ACCESSORIES AS 200 JET / JET PRO / JET PHARMA

02.025.0070		Adapter and lids for test sieves 200 mm Ø x 50 mm and 200 mm Ø x 25 mm
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03.107.0487		Spare lid for test sieves 203 mm (8") Ø x 1"
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03.107.0448		Spare lid for test sieves 203 mm (8") Ø x 2"
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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 AIR JET SIEVING MACHINES

99.200.0003

IQ/OQ Documentation for AS 200 jet

RECALIBRATION AIR JET SIEVING MACHINES

The Retsch Air Jet Sieving Machines can be calibrated at Retsch/Germany or at selected subsidiaries/agents

SER-97.001.0001

Calibration of AS 200 jet at Retsch/Germany
incl. test report acc. to EN 10204 2.2