



AIR JET SIEVING MACHINE AJ200

- Measuring range : 5 µm to 5mm
- Max. loading : 0.3g-100g

The Air Jet Sieving Machine AJ200 is a top-notch solution for particle separation and deagglomeration, utilizing advanced air jetting technology to ensure precise and reproducible results. Its uniquely designed nozzle offers adjustable rotation speeds, optimizing sieving consistency. The AJ200 supports both manual operation and automatic pressure control, with fully adjustable parameters including time, vacuum, and speed.

Designed for versatility, the AJ200 accommodates standard sieves with diameters of 203mm (8") or 200mm (with adapter). It also boasts the capacity to store up to 9 standard operating procedures (SOPs), making it an indispensable tool for industries requiring meticulous particle analysis.

APPLICATIONS

Air Jet Sieving Machine AJ200 is used for fine powder particle size analysis in pharmaceutical materials, chemicals, plastics, rubber, detergents, minerals, pigments, toners, ceramics, and food products.

It is especially suitable for dry, fine, or lightly cohesive powders that require accurate sieve analysis in the low-micron to millimeter range.

FEATURES

- Air jetting technology reduces agglomeration.
- Specially designed nozzle ensures consistent sieving results.
- Equipped with standard sieves with a diameter of 203mm (8") or 200mm (with adapter).
- Manual operation (standard) or automatic pressure control.

- All parameters are adjustable (time, vacuum, speed).
- Can store 9 standard operating procedures (SOPs).

THEORY & METHOD

An air jet sieving machine measures the particle size distribution of fine powders. It is widely used for materials that are too fine or too cohesive for ordinary mechanical sieving, such as pharmaceuticals, pigments, and food powders.

How Air Jet Sieving Works

A single test sieve is placed over the powder, and a slotted nozzle rotates slowly beneath it. A vacuum draws air up through the slot, creating a rising air jet that lifts and disperses the powder across the full sieve surface. This controlled airflow breaks soft agglomerates and keeps particles moving so undersized material can pass through the mesh while oversized material remains on top.

Because the airflow is controlled and the sieve is tested one size at a time, the method works well for lightweight powders that may blind or cake during conventional sieve shaking.

TECHNICAL SPECIFICATIONS

Measuring range	5 µm to 5mm
Sieving motion	by air jetting
Max. loading	Contenta0.3g-100g
Max. number of fractions	1 (2 with cyclone)
Speed	digital controlled, 5-55 min-1(nozzle)

Time display	00:01 - 99:59 min
Applied to dry sieving	Yes
RS232 interface	Yes
Analysis sieves dia.	203mm/200mm(with adapter)
Chamber vacuum	20 - 99 mbar / 0.3 - 1.45 psi
Storable SOPs	9 or QUCIK START mode
Rated power	220V, 50/60Hz (110V Also available upon request)



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