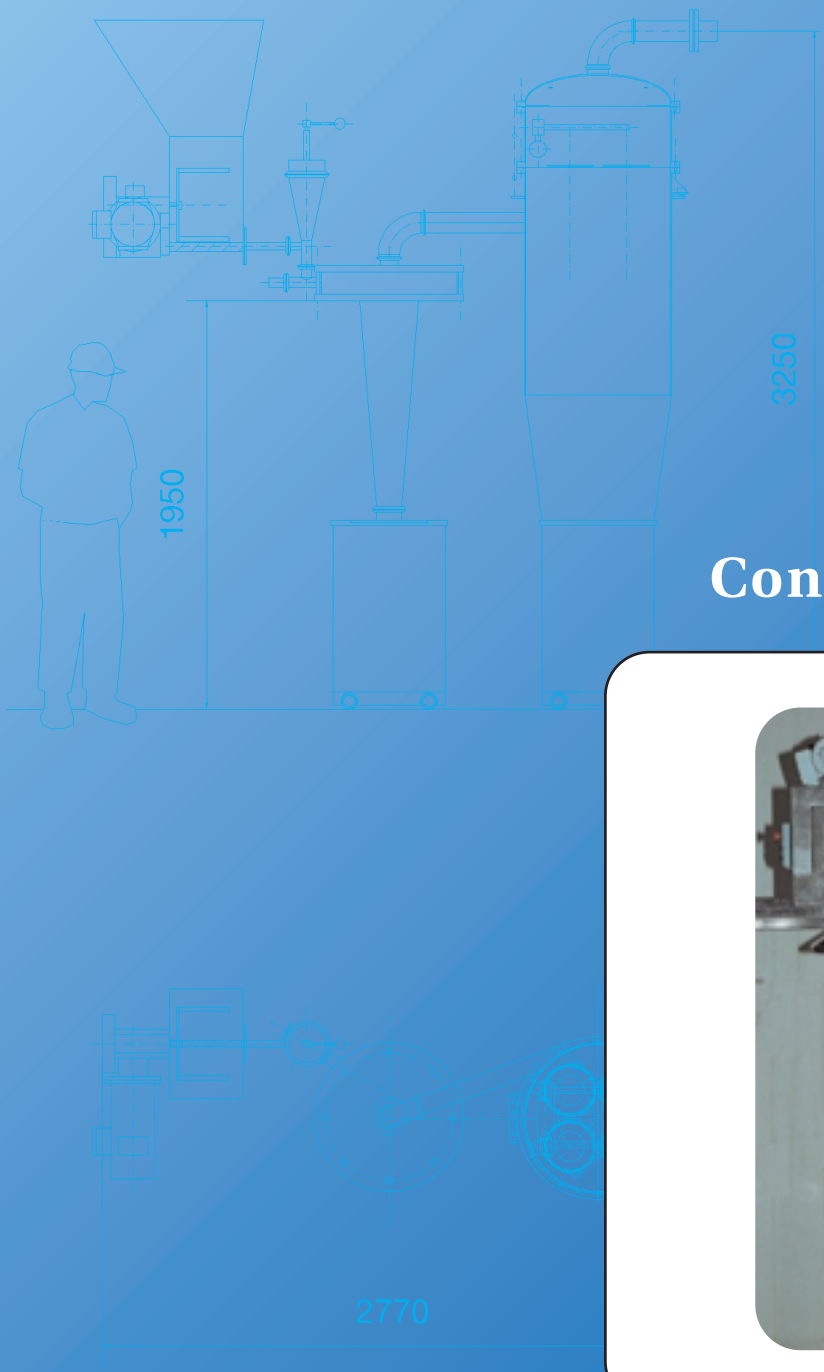
APTM

ADVANCED POWDER TECHNOLOGY AND MICRONISATION

KOMPAK-4/9



Single-Pass Effectiveness for Continuous Operation

SUPERJET MICRONISER

SuperJet Kompak-4 and bigger...

SuperJet microniser Kompak-4 and the bigger series are used for batches of at least 100 kgs and continuous operation, with collection of micronised product in drums or silos.

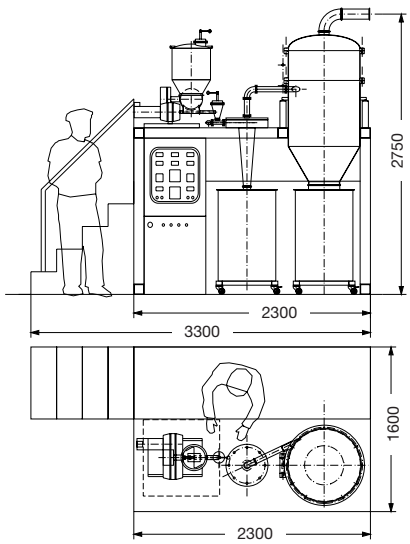
These machines have modular design that allows complete customization to the product specification and interchangeability for different product hoppers, collecting bins and optional controls.

Basic Machines

All construction versions feature the following equipment:

• SuperJet microniser with direct collection of the product from the grinding chamber, without risk of fiber contamination. It has a nozzle ring with optimized grinding angles, a horizontal venturi feeding system that avoids metal contamination and built-in, static classifying system that assures very narrow, particle size distribution

• Twin-shaft feeder, volumetric type, with concave-profile, self-cleaning, screws, able to break the agglomerates and to assure an accurate feeding of poor flowing products, for the whole batch. Speed is controlled by a stepless, mechanical variator.



SuperJet Kompak-4
Kompak-5 to Kompak-9 series are customized to product specification
top discharge versions, without bottom cyclone are also available

• High-efficiency, dust separator combining inertial and static effects, with membrane filter cartridges, reverse-pulse, automatic cleaning and final, safety HEPA that exhausts breathing air quality to the atmosphere.

• Venturi silencer with sight glass and PTFE wiper, actuated by hand

• Standard controls, integrated in the front panel, include process pressure regulators, pressure gages and differential gages to monitor the filters.

• Full stainless steel construction and simple, modular design allowing easy access to internal parts that are hand polished with extrafine, mirror finish 320-360 grit, Ra 0.25-0.32µm.

Pharma Versions

SuperJet Pharma versions are sanitary, USDA-accepted design, in line with Good Manufacturing Practice and the most demanding pharmaceutical specifications worldwide.

They are equipped with JM-series SuperJet microniser that have replaceable nozzle rings with optimized grinding angles for different products or range of products.

The microniser disassembles in more parts, without threads or recessed surfaces, for perfect cleaning of components and fast changeover, without risk of cross-contamination.

The dust separators are cylindrical and have sanitary clamp connections.

The process equipment is made of stainless steel AISI316 (316L). Super-mirror finish of contact parts, 400-600 grit Ra 0.16-0.25µm is also available. Materials, filters and roughness certificates are routinely supplied.

Options

SuperJets can include many options, the following being the most requested:

• high-precision, electronic pressure controls that monitor the microniser with proportional pressure regulators

• synoptic and LCD-alarm display with fault messages in plain english

• electronic motor controller allowing stepless regulation of feeding speeds across the specified range and features current limiting to prevent overloading

• batch validation equipment including 4-20mA pressure transducers and process recorder to document each event.

• vacuum compensation system that avoids environment contamination in case of blow-backs.

• replaceable internal linings include PTFE, polyurethane, boron carbide and hard-metal alloys, etc.

Special versions such as closed-loop, nitrogen systems, independent of liquid gas storages and 10/16-bar pressure shock resistant machines are described in other data sheets.

SuperJet Kompak-series can be equipped with process enclosures to reduce the noise and dust release to atmosphere, during the disassembling and cleaning.

Top-discharge versions, without microniser's bottom cyclone are also available, being used to convey the product to the storage.

SuperJet Microniser with enclosure

APTM

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SuperJet Micronisers	Nominal Size inch	mm	Air/Inert Gas @7bar/100psi Nm3/min	scfm	Superheated Steam @14bar/200°C kg/hr	lbs/hr	Expected Output kg/hr
JM-4	16	405	12.8	450	495	1090	3.5-150
JM-5	20	505	17.9	630	765	1690	5.0-350
JM-6	24	610	25.7	910	990	2180	8.0-550
JM-7	30	760	39.5	1395	1650	3640	25-1200
JM-8	36	910	54.5	1925	2350	5180	40-2000
JM-9	42	1070	82.0	2895	3200	6950	90-3700

... what a high-tech microniser should be