

Fluid Jet Micronizers

With forty years of experience and in-depth know-how in the design and manufacture of equipment for the pharmaceutical, cosmetics and chemical industries, **Tecnologia Meccanica** (Italy) today can offer the most advanced

Fluid Jet Micronizers

systems (also known as

Fluid Jet Mills

) for the micronization of process powders.

{xtypo_info}Fluid Jet Micronizers provide an integrated and super-fast method of reducing the

dimension of powder particles to under 5 µm in size.{/xtypo_i nfo}This technology is extremely important in different industrial fields, particularly the pharmaceutical industry where the reduction of the active principles (the so-called API and HPAI) to such dimensions increases exponentially the characteristics of Bioavailability, Bioequivalence, and the surface area available of the product.

{xtypo_quote} Tecnologia Meccanica's Fluid Jet Micronizers are capable of achieving an extremely narrow tight particle size distribution curve of d100<5 μ m (100% below 5 μ m) and d99<3 μ m (99% below 3 μ m) or even less depending on the nature of the product.{/xtypo_quote}

A full range of **Fluid Jet Micronizers** is available for all your applications, including lab machines with capacities as low as 0.5 g/hour, up to production units with throughputs of up to 1500 kg/hour.

Find out more about **Micronization Technology** and its advantages to your applications below:

{faq inline/sliders} What is Micronization Technology?

Micronization Technology term that refers to the complex process of producing highly-refined powders

Generally, this is a complicated and rather expensive process with wide applications in various fields, pa

How Does Micronization Technology rk?

Process powder is fed at subsonic speeds (approximately 50 m/s) into the flat cylindrical milling chambe

The micronizing effect occurs when the slower incoming particles and the faster particles in the spiral particles works at a constant temperature (endothermic) and independently with the lowest consum

The **Particle Size Distributios** controlled by adjusting two main parameters:

PRESSURE : the energy used to micronize; increased pressure increased

• FEED RATE : the concentration of product fed into the milling chamb

The Fluid Jet Micronizer Advantageni-tech milling chamber geometry

- nozzles designed for laminar jet streams and available with different grinding angles
- optimized static classifier
- elimination of the "caking" of sticky powders
- narrow Gauss curve (particle size distribution)
- · lowest gas consumption on the market
- elimination of the "blowback" phenomenon
- optimised gas-solid separation and unique collecting point with yields close to 100%
- balance and control of pressures within the whole micronisation system
- reduction of contact surfaces rapid cleaning and lower product loss
- · easy cleaning and validation operations
- sterilizing system with hydrogen peroxide solution
- Inexpensive and easy to operate
- Capable of processing products with high solvent content (around 3000 ppm)
- Capable of processing sticky powders that do not flow well

Find Your Fluid Jet Micronizer Solution

Tecnologia Meccanica have over 40 years explifieronization Technologycurrently manufacturesulid di

Each size caters for a different requirement, depending on your application. If you are at all unsure or re

To browse each solution Fisited Des Milet your desired and debte tow the available

J-20, J-25 & J-30 Series The capacity is from 0.500g/hourfd 100.00 g/hour, suitable for la

J-40, J-50 & amp; J-70 Series The capacity is from 0.0 00 00 00 00 00 look for pilot, or small pro-

J- 100, J-125 & amp; J-150 Series The capacity is from 0.5 ddoe3 in to kg/hour, suitable for small production of the capacity is from 0.5 ddoe3 in to kg/hour, suitable for small production of the capacity is from 0.5 ddoe3 in to kg/hour, suitable for small production of the capacity is from 0.5 ddoe3 in to kg/hour, suitable for small production of the capacity is from 0.5 ddoe3 in the capacity is from 0.5 ddoe3

J-200, J-300 & amp; J-400 Series

The capacity is from 0.5000e35000 kg/hour

J-500, J-600, J-750 & J-909 Septiesty is from 0.50 total 500s Otok gr/foorerins to itable for large a picorduction app

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Download Brochure:

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Fluid Jet Mill Technology TE

Benefits From the High-Tech Micronization Process

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Tests and Trials-Fluid Jet Micronizers

Check List Sheet-Fluid Jet Micronizers



Screw Feeders T

PSD-Fluticasone Propionate {/xtypo_download}



Specializzata nello sviluppo e nella produzione di MICRO Specialized in the development and manufacturing of FLUID JET M