



J-100, J-125 & J-150 Series

# Fluid jet micronizers designed for 'small production'

<u>Jet mill systems</u> are the ideal choice for micronising pharmaceutical powders down to 1 micron in size.

{xtypo\_info}Especially developed for pharmaceutical applications, the **J-100**, **J-125** & **J-150** fluid jet micronizers are designed for small production applications.{/xtypo\_info}Based on the

intuitive and highly efficient jet milling technology developed by

# Tecnologica Meccanica

(Italy), the

J-100

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J-125

&

J-150

series of

## Fluid Jet Micronizers

are capable of yielding extremely narrow tight particle size distribution (PSD) curves of d99<3 $\mu$ m (99% below 3 $\mu$ m) or even less depending on the nature of the product.

{faq inline/tabs}

#### **Profile**

The J-100 fluid jet micronizer has been designed on the basis of c

The J-100 works at a constant temperature (endothermic) and ope

{xtypo\_quote} Thanks to its 100 dular design concepts the spandated, on redutes, to the

**Features** 

- Productivity from 0.50 to 30.00 kg/hour
- •One single collecting point
- •Static classifier in three different configurations
- •Salability of the process to bigger micronizers
- •Very low product loss, typical yields are 99% of batch size
- •Elimination of blow-back phenomenon
- ·Limited caking of sticky powders
- •Quick and easy assembling and disassembling of the system with a limited number of clamped compor
- •Rapid cleaning and easy validation
- •Simplicity of the whole unit

or

- •Equipped with a skid-moters Gas Generator for feeding treated gas to the jet mill
- •Every equipment is manufactured in AISI type 316L (EN 1.4404) stainless steel or in Hastelloy mirror personal statement statement
- •Special internal lining, Ptfe, Pur (Vulkollan), Ceramic, Titanium nitride, etc.

#### **Benefits**

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This new family of micronizers has the lowest consumption of process gas per kg of production on the m

# **Technical Specifications**

#### Milling Chamber: J-100

- •Process gas at 7 bar=0.45 m3/min (15.9 CFM)
- •Process gas at 12 bar=0.73 m3/min (25.8 CFM)
- •Estimated capacity=from 0.50 to 7.50 kg/hour

### Milling Chamber: J-125

- •Process gas at 7 bar=0.59 m3/min (20.9 CFM)
- •Process gas at 12 bar=1.01 m3/min (35.7 CFM)
- •Estimated capacity=from 0.50 to 15.00 kg/hour

#### Milling Chamber: J-150

- •Process gas at 7 bar=0.73 m3/min (25.8 CFM)
- •Process gas at 12 bar=1.25 m3/min (44.2 CFM)
- •Estimated capacity=from 0.50 to 30.00 kg/hour

#### **Options**

Numerous configurations are available and can be offered to tailor our micro

The following options are already available:

- •Volumetric or gravimetric pharma feeders
- •Many different configurations for cyclone filter
- ·Sanitary rotary valve for the product collection

- •In line sampling device
- •Low Emission version with 00eb filter ( )
- Balance line

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- •CIP and SIP systems
- Explosion proof (ATEX) version
- Sterile version
- System fully automated by PLC/HMI
- Totally contained solution in isolator

The Standard Pharma Weesidar components that can be shared by all the different milling chambers

- •Upper and lower plates + central nozzles ring closed by three handles or by a single V-clamp
- •Open manifold execution, FDA validated
- •Stainless steel cyclone filter with polyester anti-static filter sleeve
- •Fully automated pneumatic shaking system
- •Supporting table with two pressure gauges, one thermometer and two ball valves
- Anti static swivel castors

**Gallery** {gallery}J100125150{/gallery} See it in Action! {flv}video |600|450|{/flv}

{/faq}

Find out more about <u>Micronization Technology</u> and its advantages to your applications below:

{faq inline/sliders} What is Micronization Technology?

Micronization Technology is a term that refers to the complex process of producing highly-refined po-

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 tangentially at subsonic speeds (approximately 50 m/s) into the flat cylindrical mil

{flv}venturi |600|450|{/flv}

The micronizing effect occurs when the slower incoming powder particles and the faster particles in the

Watch the micronization effect in a jet mill below:

{flv}jetmill |600|450|{/flv}

This process works at a constant temperature (endothermic) and independently with the lowest consum

Particle Size Distributi(PSD) is controlled by adjusting two managements.
PRESSURE : The energy used to micronize; increased pressure incre

## The Fluid Jet Micronizer Ædhantægesi-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 has over 40 years expellion Technology . It currently manufactures Fluid Jet Micronizers

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

To browse each solution Fluid Det Midt your desired a distribution available

J-20, J-25 & J-30 Series The capacity is from 0.5 100.00 g/hour, suitable for la

J-40, J-50 & Lamp; J-70 Series The capacity is from 0.00000071000 kg/hour, suitable for pilot, or small pro-

J-500, J-600, J-750 & J-7900 Apriesty is from 0.50 at 1450 Le Of the grinour, instinitable idear large production appl

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#### **Download Brochure:**

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J-100 Data Sheet

J-125 Data Sheet

J-150 Data Sheet

J-100, J-125 & amp; J-150 Product Sheet

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J-100, J-125 & J-150 Presentation 🃜

Fluid Jet Mill Technology



Benefits From the High-Tech Micronization Process

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