

# J-200, J-300 & J-400 Series



## Fluid jet micronizers designed for 'medium 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-200, J-300 & J-400 fluid jet micronizers are designed for medium production.{/xtypo\_info}

Based on the intuitive and highly efficient jet milling technology developed by Tecnologica

Meccanica (Italy), J-

the

200

J-300

&

J-400

series of

## **Fluid Jet Micronizers**

are capable of yielding extremely narrow tight particle size distribution (PSD) curves of d100<5μm (100% below 5μm) and d99<3μm (99% below 3μm) or even less depending on the nature of the product.

{faq inline/tabs}

#### **Profile**

The J-200 fluid jet micronizer has been designed on the basis of c

The J-200 works at a constant temperature (endothermic) and ind

{xtypo quote} Thanks to Jt-200 odular design conception the spandaled, on red-1890, to the

or

#### **Features**

- Productivity from 0.50 to 350.00 kg/hour
- •One single collecting point bin, available in many different sizes
- •Scalability 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
- •Special internal lining, Ptfe, Pur (Vulkollan), Ceramic, Titanium nitride, etc.
- •The J-200 is manufactured in AISI type 316L (EN 1.4404) stainles

#### **Benefits**

While the

J-200

is capable of micronizin**g-β00**/der batches up to 35500.00

Simplicity of the whole unit combined with very low product loss (typical yields of 99.5% of the batch size

The system is fully-automated by PLC/HMI and comes equipped with volumetric or gravimetric pharma

## **Technical Specifications**

#### Milling Chamber: J-200

- •Process gas at 7 bar=1.70 m3/min (60.0 CFM)
- •Process gas at 12 bar=2.74 m3/min (96.8 CFM)
- •Estimated capacity=from 0.5 to 50.0 kg/hour

## Milling Chamber: J-300

- •Process gas at 7 bar=4.20 m3/min (148.3 CFM)
- •Process gas at 12 bar=6.90 m3/min (243.7 CFM)
- •Estimated capacity=from 5.0 to 200.0 kg/hour

#### Milling Chamber: J-400

- •Process gas at 7 bar=7.00 m3/min (247.2 CFM)
- •Process gas at 12 bar=12.00 m3/min (423.8 CFM)
- •Estimated capacity=from 10.0 to 350.0 kg/hour

## **Options**

Numerous configurations are available and can be offered to tailor our micronizers to your specific applie

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 wit200epE filter ( )

Balance line

J-200 , J-300 &
 J-200 , J-300 &

- •CIP and SIP systems
- •Explosion proof (ATEX) version
- Sterile version
- Open version for clean room
- •Totally closed, stand-alone version
- System fully automated by PLC/HMI

#### The Standard Pharma Version

- Open manifold execution, FDA validatible
- •Upper and lower plates + central nozzles ring closed by four handles, or by a single V-clamp
- •Twin screw volumetric feeder
- •Manifold with automatic main valve, ball process valves, two pressure gauges, and one thermometer
- •Cyclone filter with polyester anti-static filter sleeves, ending with a sanitary butterfly valve for product co
- •Final filtering unit with pre-filter, semi absolute, and absolute Hepa filter (99.997% efficiency)
- Main control panel
- •Simplified version based on the same Pharma concept can be customized for other applications:
- Cosmetics
- Fine chemicals
- Food
- Fillers

**Gallery** {gallery}J200300400{/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. The **Particle Size Distributi(PSD)** is controlled by adjusting two many controlled by the controlled by the controlled by the cont

PRESSURE : The energy used to micronize; increased pressure increased pressu

#### The Fluid Jet Micronizer Advantages

- Enhanced hi-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 expe<u>Microenwithtion Technology</u>. 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 Fising Det Milet your desired endiste by the 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 & amp; J-70 Series The capacity is from 0.0 000 Mode 1000 Mg/hour, suitable for pilot, or small produce 1000 Mg/hour, suitable for pilot 1000 Mg/hour, suitable for

<u>J-100, J-125 & Lamp; J-150 Series</u> The capacity is from 0.5 does by the capacity is from 0.5 does

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

{/faq}

#### **Download Brochure:**

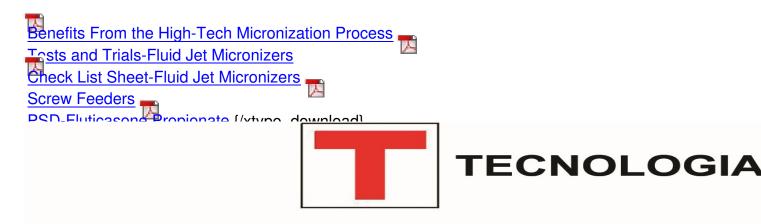
{xtypo\_download} \( \overline{L} \)
J-200 Data Sheet \( \overline{L} \)
J-300 Data Sheet \( \overline{L} \)
J-400 Data Sheet \( \overline{L} \)

J-200, J-300 & amp; J-400 Product Sheet

人

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

Fluid Jet Mill Technology



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