

SUPERFINE

POWER TO POWDER

Introducing the Vortex mill[©] Micronization, re-invented

- Easily micronize materials to 5 microns and less in one pass
- Up to **1:800 milling ratio**, No pre-milling required
- No Venturi feeder, **no clogging**
- Versatile—from the hardest materials to the most delicate proteins

- Active Pharmaceutical ingredients, Inhalable drugs
- Proteins
- Herbal products
- Pigments
- Polymers
- Food additives, Nutrients



SUPERFINE POWER TO POWDER

Vortex mill—a new concept in micronization

Our technology is based on exposing the particles of the milled material to **rapid changes of air pressure**. Hence, the particles break along their natural dents, cavities or crystal defects. Particles do not collide with each other. The result is a **"clean cut" powder** that is not accompanied with compression, trauma or amorphization of crystal surface, - a **"soft process"**.

No particle-particle collisions, no impact milling !

Superior performance—Power applied gently!

Superfine can micronize most materials to a powder **under 5 microns in one pass**.

It can handle absorbing energy materials such polymers and organics in **ambient temperature** or with minimum cooling.

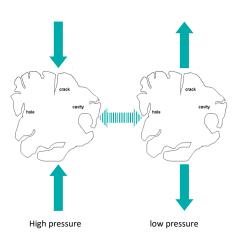
With Superfine, micronized particles are protected from heating or amorphization.

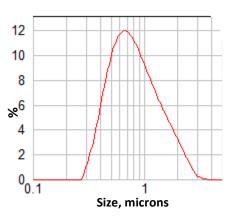
Lower Opex

Your Opex lowers due to the fact that our technology have a very high milling ratio, up to 1:800. No pre-milling. Particles of up to 3 mm can be fed.

Air pressures of **less than 6 bars** are usually required. **No multiple-millings** : less handling, higher yields. Cryogenic milling is avoided in many cases.

Do you need to micronize materials that needs special care, or you are looking for a cost effective solution to tough micronization applications?







Biopharmax India Pvt. Ltd. Bavdhan, Pune Contact us for Demonstration & Details Sheetal Kunjir Mob. +91 7887548008 Email : sheetal.kunjir@biopharmax.com



A breath of fresh air Creating the perfect powders for inhalation products





SUPERFINE POWER TO POWDER

Micronization is the single most critical step for performance of inhaled powders

Supefine introduces the first micronizer designed especially for inhalation products

Superfine strives in the challenging world of inhalable powders

Superfine's Vortex micronizer "feels at home" at the 2-5 microns and will easily obtain the perfect PSD range

Always single pass

Superfine's process ensures a single pass through the micronizer. That means higher crystallinity, more efficient process and higher yield.

Process guarantee

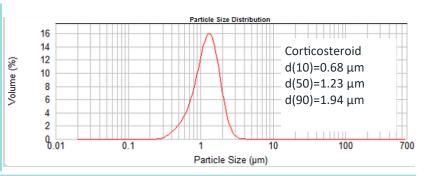
Superfine provides full support for installation, process development and manufacturing. We offer guarantee for PSD and production rate.

Proven performance

Superfine's Vortex micronizer is installed in commercial lines for Corticosteroids and other challenging API's

Do you need to micronize materials that need special care?

Are you are looking for a cost effective solution to tough micronization applications?



Contact us today for a free trial!

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