



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



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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**.

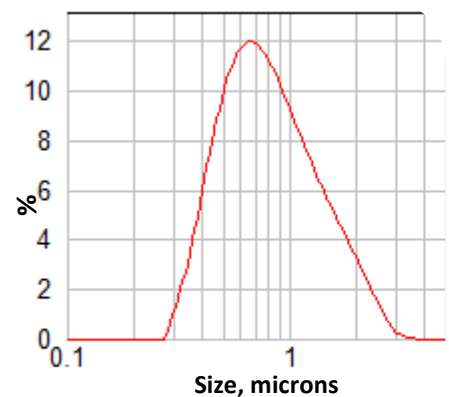
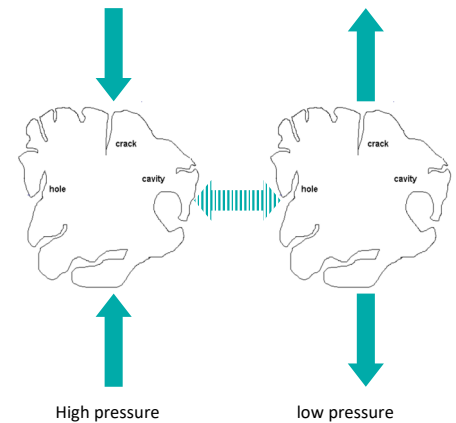
Lower Opex

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.



Contained demonstration unit

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

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