



Low Energy Size Reduction Milling Systems



- Easy to operate
- Low maintenance
- High energy efficiency
- No metal to metal contact
- Easily adaptable
- Low heat, dust and noise



The latest **Uni-Mill** 'Cone-mill' sieving granulator offers proven size reduction technology to a broad spectrum of industries. The stainless steel construction of the **Uni-Mill** makes it an ideal machine for pharmaceutical, food and chemical process applications.

The **Uni-Mill** system is versatile and simple to operate. Screen changes are fast and easy to implement to suit changes in production requirements.

Pharmaceutical Applications

The **Uni-Mill**, 'conical screen' or 'cone mill' is thoroughly proven in pharmaceutical manufacture as an ideal way to grind pharmaceutical powders requiring even particle distribution.

Typical applications are de-lumping of material collected from a fluid bed drier prior to compression and for the re-grinding of tablets that are out of specification.



Chemical Applications

The **Uni-Mill** is ideal for chemical industry applications such as de-lumping of chemical powder, fine grinding of dyes, de-lumping of detergent particles and product reclaim such as re-processing chemical or detergent tablets.

The **Uni-Mill** provides consistent results where a milled and granulated product with a regular bulk density is required.



Food Processing

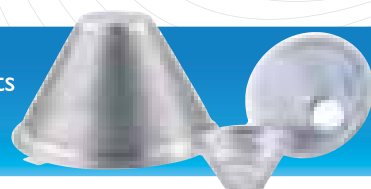
Conical screen milling has improved hundreds of applications that exist within food processing applications. Low heat generation makes the **Uni-Mill** ideal for grinding heat sensitive products.

Suitable uses are; grinding plain and cream-filled biscuits for reclaim, dispersion of powder-mixes, grinding herbs and spices and bread-crumbing.



Uni-Mill Advantages

Easy To Operate / Low Maintenance / High Energy Efficiency / Adapts Easily To Other Products
Low Heat, Dust & Noise Generation / No Metal To Metal Contact In The Milling Zone



Control Powder Quality In Just One Process!

Dry Milling

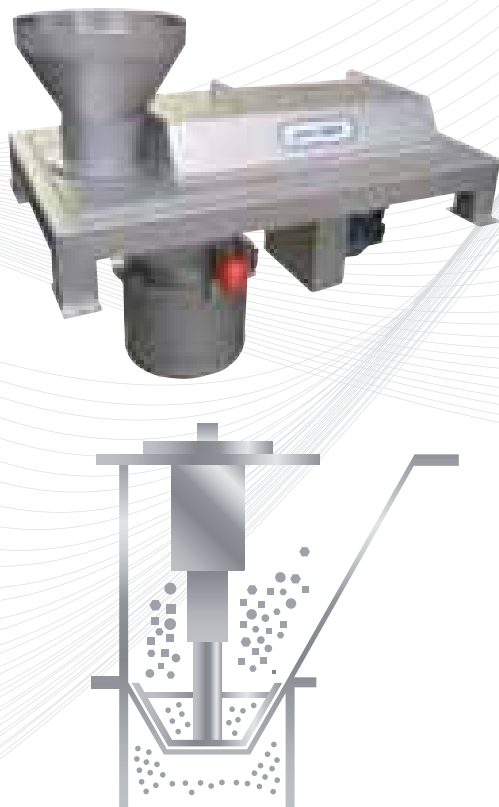
Reduce coarse, lumpy material to a smaller, uniform particle size.

Dispersion And Dry Mixing

Thorough mixing of lumpy powders and powder mixes, even friable material.

Controlled Grinding

Reduction of oversize material with a minimum generation of 'fines' to a specific particle size.



Uni-Mill Features

- Compact size
- Fast screen changes
- Easy clean GMP design
- Static or mobile support frames
- Hand feed, continuous feed and vacuum feed.
- All stainless steel construction. AISI 304 or AISI 316L contact parts available.

Uni-Mill Operation

Unprocessed material is loaded into the product inlet of the Uni-Mill by hand, gravity-feed or vacuum transfer. The material then passes into the milling chamber where a rotating impeller forces the unprocessed material through stationery cone-shaped screen by a vortex action.

The material is instantly reduced in size as it passes through the holes in the screen. By changing a combination of screen, impeller-shape and speed, the finished milled particle size can be carefully controlled. Most importantly for pharmaceutical and food production there is no metal to metal contact between the impeller and screen.



UNI™ MILL



- Various Outputs
- Custom Design Service
- In-Line Vacuum Use Optional
- Stainless Steel Construction
- Lab Size Or Full Scale Production



- Multi-Purpose
- Quiet Operation
- Easy-Clean Design
- Uniform Particle Size

Local Representative

Mill Screen Manufacture

An extensive range of replacement screens are available manufactured in our own factory, using advanced manufacturing methods and finishes. The vast majority of popular screen types are reproduced by CAD CAM using photo-etching technology ensuring high accuracy without distortion and guaranteed 100% repeatability. For highly abrasive applications, hardened stainless steel screens can be supplied which have a unique patented surface treatment, which outperforms conventional hard-chroming processes.



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