

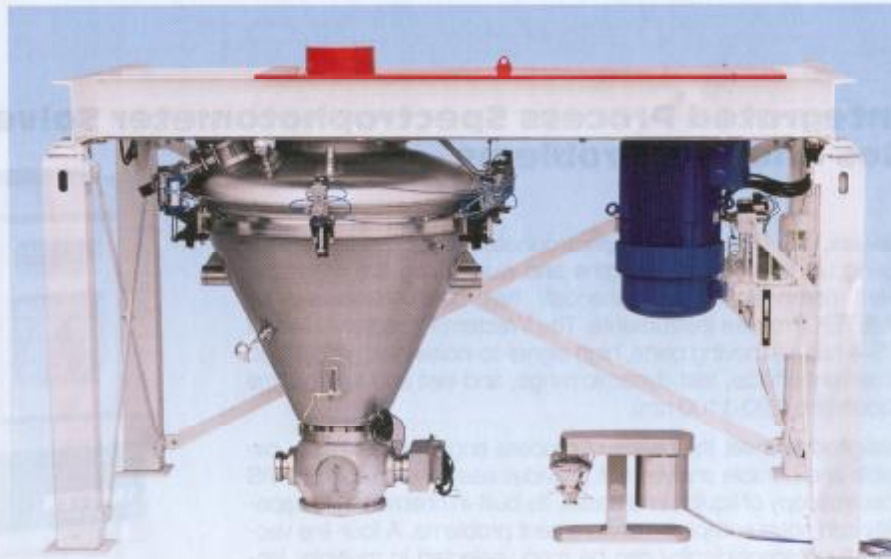
## Hosokawa Micron Participates POWTECH 2005

Doetinchem, The Netherlands – Hosokawa Micron B.V., leading in the field of powder processing technology and specialized in engineering, design and manufacture of equipment and systems for mechanical and thermal processing of powders, will participate in Powtech 2005. Our four core businesses are: mixing, drying, agglomeration and containment.

'PT-S, our new powder characteristics tester' In spite of its compact size, the Hosokawa powder tester can measure seven characteristics and three auxiliary values, which are critical in planning and designing of powder processing and quality management systems.

### Cyclomix 1 L 'Minimum in size, maximum in performance'

The Cyclomix 1 litre is the smallest intensive high shear mixer. The working principle of this patented intensive mixer is based on a unique combination of high shear and high impact mixing and ensures a homogenous end product in an ultra short batch time. In combination with the jacket around the vessel and the cover this machine is made extremely suitable for



Cyclomix 1 l vs 1000 l

intensive mixing of cohesive and heat sensitive products. The Cyclomix can also be used for example for dispersion of pigments, introduction of liquids without creating any lumps, coat-

ing (solid/solid; solid/liquid), agglomeration, drying etc. In a special execution the Cyclomix can be used under vacuum. Several different processes can be performed in a single machine. The Cyclomix is produced in a range of 1 - 2000 litres (product capacity).

Cyberjet demonstration film 'Cyberjet, the most efficient way of cleaning' On the plasma screen we will show a movie about the Cyberjet. The Cyberjet is a robotized cleaning system for cleaning the internal surfaces of a mixer or dryer. Before wet cleaning, the Cyberjet blows compressed air on the critical areas of the dryer. Therefore a significant amount of the (expensive) product remaining is recovered. Up to 99% product recovery before wet cleaning can be achieved. The conical wall of the dryer will be cleaned by means of a spiral. The pitch distance and the speed of the jet can be varied so that as less as possible cleaning liquid is used to clean the wall.

The Cyberjet has in comparison to a conventional cleaning method less shadow spots and it has the possibility to change the cleaning pattern and the intensity per object.

### 1.000 L Vrieco Nauta Double screw mixer

The Hosokawa Vrieco-Nauta conical mixer is a low/medium intensity mixer specially designed for mixing segregative, free flowing and pasty products. The MSC-double screw mixer is specially developed for high-speed mixing of products.

It is offering you maximum flexibility in process guaranteeing a constant mixing quality at 10 to 100% product filling for numerous different powders, pastes and liquids. The unique conical design in combination with the bottom outlet gives cleaner and faster batch discharge. Mixing time is 4x shorter than working with a conventional Nauta mixer and the building height will be reduced. The Hosokawa Vrieco Nauta double screw mixer is often used during the production process of bulk products in industries such as:

- Bulk pharmaceuticals: Paracetamol, Antibiotics, Alginates, Vitamins.
- Chemicals: Plastics, Pigments, Resins, (C)MC, Polymers, Salt, Carbon black, herbicides, pesticides
- Food: Milk powder, Alginates, Starch, Cacao, Gelatine, Pectin, Spices, Sugar, Gist, Flour, Egg powders.

Further we will present a Dome cover of a pharmaceutical mixer, a flash dryer model Mdh2 for the mineral industry and a Panel to present our new freeze-drying concept. As a result of the wide range of products we offer, it enables us to find an individual solution for every customer.

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