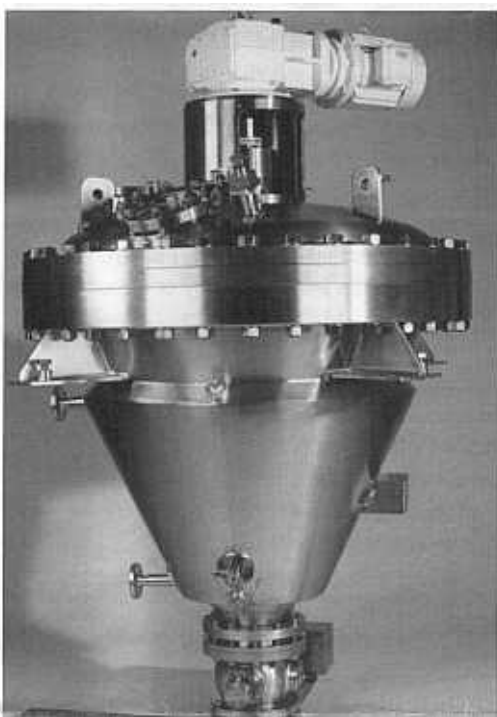


## Cool Solutions to Powder Spots

The Vrieco Nauta Division of Hosokawa Micron, a world leader in Powder and Particle Processing, has engineered a solution to process variability giving increased product consistency and quality.



Pharmaceutical Bulk Steriles can be susceptible to degradation when subject to heat for long periods. Removing heat from dried powders presents a problem for new and existing processes. The project brief was to provide a mixer with jacketed cooling capabilities to remove hot zones and thus eliminate degradation of high value active ingredients within an existing powder drying system. The active cooling equipment was to be designed to replace an existing buffer hopper with minimum interruption or modification to existing plant equipment and to be available for installation in an exceptionally short project lead-time. Limitations of height and constraints of orientation of existing equipment were critical design considerations. The recently launched CT Dryer was developed to provide full fluidisation of powder and give excellent thermal transfer without significant aeration of the powders. By initiation of fast approval turnaround, expediting procedures and commitment to maintaining a lean project plan by all parties the project time scale was achieved. Specific changes to the design include increased cone angle to give maximised volume within the restricted height. Additionally, double mechanical seals with IPA lubrication have been incorporated into the new CT Cooler and will be available as an option on the Vrieco Nauta range of centre driven mixers including the CT and Cyclomix range.

**Hosokawa Micron BV**

**Contact:**

**Tel: + 31 314 373 333**

**Fax: + 31 314 373 456**

**Email: [info@hmbv.hosokawa.com](mailto:info@hmbv.hosokawa.com)**

**Web: [www.hosokawamicron.nl](http://www.hosokawamicron.nl)**