

# POWDER ANALYSIS & LABORATORY SCALE EQUIPMENT



Leaders in powder and particle technology, Hosokawa Micron offers not only an evolutionary selection of laboratory analytical equipment used in the design and manufacture of powders but also an extensive range of laboratory and pilot scale machines developed from their extensive collection of machinery for grinding, milling, mixing, drying and classifying.

## Fast, Accurate Laboratory Particle Size Measurement

### Alpine Air Jet Sieve e200LS **Dry Sieving**

Hosokawa Micron can now offer both wet and dry sieving devices for accurate fine particle size measurement in the laboratory. Both units offer screening down to 10 microns and deliver consistent repeatability. Their simple operation eliminates error sources for greater reliability.

- Comparison analysis
- Trend analysis
- Integrated computer controlled sieving process

### Viblette™ VBL **Wet Sieving**

Suitable for measuring the particle size of dielectric or cohesive dry materials such as carbon black or mineral fillers the Viblette™ VBL's enhanced vibration delivers measuring times up to 1/3 that of conventional sieves. Unique shower nozzles deliver effective powder wetting with little liquid waste.

- Analysis of slurries up to 10 litres/min



POWDER ANALYSIS EQUIPMENT

## Powder Characteristics Tester PT-X

### Complete powder characterisation in one instrument

The latest version of the industry standard laboratory unit used to determine powder characteristics such as flowability and floodability of dry powders when designing powder handling and processing systems.

- Touch screen computer control, reduces analysis time
- Reduced operator intervention for accuracy and repeatability
- Easy clean design with optional HEPA filter and vacuum cleaner

Measures: Angle of Repose, Compressibility, Angle of Spatula, Cohesion, Angle of Fall, Dispersibility and Angle of Difference, Aerated Bulk Density, Packed Bulk Density and Uniformity.



## Flexible Compact Isolator

A cost effective, versatile, barrier containment solution for use where handling of hazardous powders is infrequent or when investment in a dedicated static isolator is not appropriate. The modular design creates a unique 'one man' contained work station or when linked with other modules creates a pod system with individual activities contained in separate units.

- Portable design – simply wheel to where it's needed
- Plug and play operation for max flexibility
- Independently tested to  $<1\mu\text{g}/\text{m}^3$
- Available in sizes from 1m x 0.5m footprint
- Various RTP, glove port, CIP and air handling options available

Available  
in a range of  
semi rigid and  
disposable  
canopy  
options



## Picoline

### Mini Machines Mounted on One Uniquely Adaptable Platform

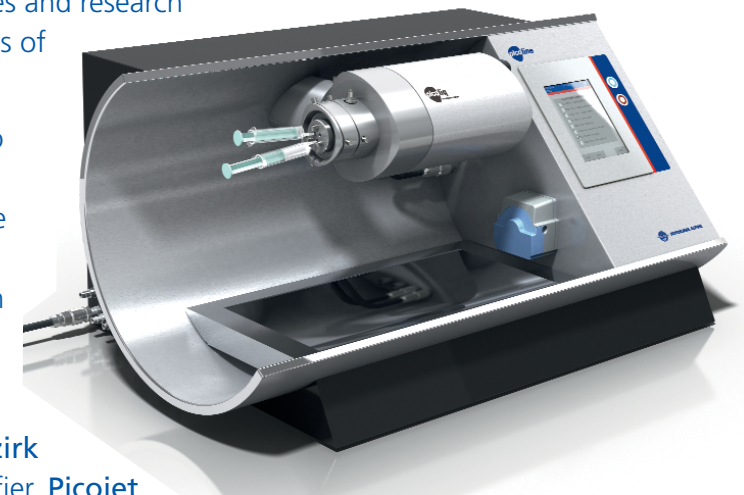
The Picoline range of mini machines used in laboratories and research facilities and all industry areas where ultra small batches of powders need to be produced.

When researchers have only a few grams of material to work with it is important to use the right processing machines from the start so scale up is easy. The Picoline range is derived from well established products from Hosokawa thus ensuring transfer to volume production is straight forward, reliable and problem free.

The Picoline range:

Includes: **Picoplex** based on the UPZ impact mill, **Picozirk** an impact classifier mill, **Picosplit** an ultrafine air classifier, **Picojet**

based upon the well know AFG opposed jet mill with integral classifier for ultrafine grinding, **Piconizer** a spiral jet mill, **Piocross** a pin mill, **Picoliq** a wet agitated media mill, **Picobond** a high energy mixer and **Picomix** a high performance batch mixer for dry powders.



- Can all be fitted into the same compact operating housing or platform
- Transportable and suitable for use in fume cupboard or compact isolator
- Capable of processing from 1gram up to several hundred grams
- Touch panel control, easy read data display



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