

# CONTAINMENT AND POWDER HANDLING SOLUTIONS



Operator Protection



Product Protection



Environment Protection



Maintain Area Classification

## ISOLATORS & GLOVEBOXES

Hosokawa Micron is a world renowned single source supplier of containment systems and leads the way in meeting the changing needs of today's fast moving industries where demands for low occupational exposure levels (OEL's) and increased product integrity requirements are paramount.



Consolidation Isolator

Hosokawa Micron's Isolator systems enable products to be handled down to OEB<5 (down to 30 nanogram)

These ultra high containment levels are required when handling highly active or toxic chemicals and offer complete operator safety and product integrity. Hosokawa Isolators are available for both manual and automated handling and processing procedures and are available in single units or multi-cell variants

where defined barriers separate individual processes. They are ideal for such critical processes as milling, micronising, drying, dispensing and product pack off.



Milling Isolator

Isolators offer unique operational benefits:

- Shirt sleeve environment operation
- Reduction of airborne dust for ATEX compliance
- Ergonomical design for user friendly operation
- CIP/SIP options
- Explosion protected



Fill Weigh Isolator

# CONTAINMENT AND POWDER HANDLING SOLUTIONS

Hosokawa Micron offer a range of off the shelf and bespoke isolator containment options to suit individual requirements. Hosokawa Micron work with customers to develop the right containment solution from individual units to fully integrated systems.

ISOLATORS & GLOVEBOXES



## MOBILE ISOLATORS

For companies looking for a lower cost alternative to the stainless steel isolator and shorter lead time for testing, trials or production processes the Hosokawa Hosokawa Micron's Mobile, plug and play, Isolators offer containment levels  $<1\mu\text{g}/\text{m}^3$ .

Excellent internal visibility, optional glove port positioning and lightweight construction make these Isolators highly flexible in use as self contained workstations. A 'single use' variant incorporates a plastic bag canopy into the stainless steel construction.

## STATIC ISOLATORS

Developed for safe handling of high potency chemicals and other hazardous powders Hosokawa Micron's isolators can offer containment down to nano levels and are typically used in pharmaceutical, nuclear and chemical industries for sampling, charging, dispensing and packing applications.

Designed using the latest engineering and simulation and modeling software each unit is ergonomically designed for ease of use.



## INTEGRATED CONTAINMENT TECHNOLOGY

Hosokawa Micron Isolators can be designed to contain either Hosokawa or third party processing equipment such as micronisers, tray dryers, granulators etc. Hosokawa Micron's own range of equipment can be specially designed for installation inside an Isolator to offer a bespoke contained processing solution.

## CONTAINED PARTICLE SIZE REDUCTION SYSTEM

This unique processing concept offers flexible milling from coarse size down to ultrafine particles whilst maintaining OELs of  $<1\mu\text{g}/\text{m}^3$ . The system consists of two separate but interconnecting rigid isolator chambers, the milling chamber and the filter/product collection chamber.



Three interchangeable mills, mounted on plug and play, wheeled trolleys deliver accurate milling operations of small gramme sized to production scale lots. The product collection, sub-division and dispensary operations are carried out in the separate chamber. In-line laser diffraction analysis or manual sampling options are available.

The Contained Particle Size Reduction System has been designed to offer an enhanced ergonomic and less restrictive working environment for operators whilst meeting the most stringent operator exposure levels.

## SHIELDED ISOLATORS

Meeting today's challenges in the nuclear and associated industries Hosokawa Micron offer a range of off the shelf and bespoke, shielded and non-shielded isolator systems for recovery and reprocessing, MOX fuel manufacture and size reduction of materials for volume reduction and reprocessing.



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