

CONTAINMENT AND POWDER HANDLING SOLUTIONS



Operator Protection



Product Protection



Environment Protection



Maintain Area Classification

TODAY'S CHALLENGES

in Pharmaceutical Product Development and Manufacture

Hosokawa Micron Ltd supply bespoke containment and powder handling solutions to meet the powder and particle processing demands of the pharmaceutical industry. Our philosophy is to work with our customers to develop the most effective system, tailored to individual requirements.

In response to the increased demand for greater levels of containment due to the increased potency of pharmaceutical compounds, Hosokawa Micron offers a wide range of solutions including isolator gloveboxes, downflow booths, laminar flow

booths and pack-off systems. The Hosokawa Micron Group continues to invest in the pioneering development of the technology, expertise and service that is recognised by pharmaceutical companies worldwide.

Hosokawa Micron Ltd provides a full design, build, validation, installation and commissioning service for projects ranging from lab and pilot plant to full turnkey installations.

INTEGRATED CONTAINMENT TECHNOLOGY

Hosokawa Containment equipment can be designed to contain third party pharmaceutical

processing equipment such as micronisers, tray dryers, granulators etc. as well as integrating Hosokawa's own range of processing equipment which has been specially designed for installation inside an isolator. Product contact parts are designed with ergonomics, GMP, easy cleaning and maintenance in mind with drive systems mounted externally to the processing chamber.

Containment performance has been independently verified down to $<10\mu\text{g}/\text{m}^3$ for downflow booths through to nanogramme levels of containment when using isolator/glovebox technology.



HOSOKAWA MICRON LTD

PROCESS TECHNOLOGIES FOR TOMORROWSM



CONTAINMENT AND POWDER HANDLING SOLUTIONS

With varying requirements for product isolation and operator protection, Hosokawa Micron have developed a range of equipment and integrated system options to meet the varied containment criteria demanded by different applications.

DRUM FILLING SYSTEMS

Accurate weight controlled filling systems designed and manufactured to maintain the highest standards of hygiene, dust control and product integrity.



LAMINAR FLOW BOOTHS

A controlled, once through, non-turbulent air flow ensures good operator protection from dust and fumes. Individually designed to allow manual or automatic handling including product charging/discharging, filling and weighing, inspection, dispensing and the pumping or dispensing of liquids or solvents.



DOWNFLOW BOOTHS

The air circulation system ensures complete safety for personnel as a conditioned airflow passes vertically from the booths ceiling pushing any dust or vapours away from the operator's breathing zone. Plug and play options available.



HYBRID ISOLATORS

A high visibility, cost effective, mid range option for the containment of products and processes with containment levels below $1\mu\text{g}/\text{m}^3$. Suitable for applications that require the containment of larger pieces of equipment or a larger processing area. Range includes lightweight mobile units with short production lead times.



ISOLATORS



Designed for the handling of highly active compounds or toxic chemicals, Hosokawa's range of isolators offer complete operator safety and product integrity, where ultra high containment levels are required.

Benefits:

- Shirt sleeve operation
- Ergonomically designed for user friendly operation
- CIP/SIP options

Available for both manual and automated handling procedures. Hosokawa isolators are available as single units or multiple cell variants where defined barriers separate individual processes.



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The Hosokawa Micron Group will always be the leading global company covering the mountain range of Powder Technologies. The Group will achieve peaks of excellence in the development and commercialisation of advanced materials, process equipment and systems engineering.