Provision of a contained environment, which provides barrier isolation from potential cross-contamination of the process environment, is seen as a significant requirement in GMP industries.

While demand for containment solutions in the pharmaceutical industry remains a key focus for containment providers, there is now a strong demand from the food, biochemical, chemical, cosmetic and dentistry that brings its challenges. Positively these challenges are driving innovation in containment solutions and bringing new growth in a resilient technology where manufacturers can ensure the best possible design solutions for contained system.

Failure to address safety under failure could be catastrophic. Such a breach condition e.g. a glove being ripped or similar, could be failure of the process or failure of the containment itself. Here we identify those challenges and how we and others are addressing them.

Lower Operator Exposure Levels

The development of more efficient and potentially lower risk pharmaceutical and chemical products and chemicals remain a key driver in the development of containment technologies to deliver ultra-low dust (below 80mg/m$^3$ for biologics and Operation Expo band K). With operational efficiency an imperitive, the challenges of delivering lower operator exposure levels will continue to push forward technology development.

Today contained package, best only present in the pharmaceutical industry in isolation, is used to contain dust and liquids in many industries; each with its own industry specific standard, manufacturers are increasingly seeking new methods for design and installation of equipment. The complexities of transferring isolator technology into different processes and applications often require detailed knowledge in both design and engineering. For design engineers, it is essential to consider all aspects of dust, liquid and personnel safety.

GM P manufacturers are no longer simply seeking an enclosure to contained manufacturing have influenced two very different opportunity to future proof complex API production through the revolutionary changes in production that the new contained, complex process system designing and for best result requires specification before fabrication takes place – saving both time and money in costly positional changes and unplanned re-build stages.

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Containment Challenges Driving the Pace of Innovation to Satisfy Increasing Manufacturing Appetite

Innovations in design and engineering and visualisation of a virtual isolator or full processing system for 3D and airflow modelling are invaluable for complex, multi-use applications and help ensure a user friendly, safe performance workplace.

Containment Solutions

For many years, Hosokawa Micron Ltd has held a leadership role in the manufacture of pharmaceutical and chemical process separator and filtration equipment. The company’s innovative design and engineering for ATEX compliance with dust lifting and rotation operated by remotely actuated arm.

End user, less, big, can - increasing the market demand for is systems that offer the potential for handling new raw materials or new materials, that were previously purchasing opportunities or unique ingredient formulations or environmental conditions. This is especially true for a dye manufacturing company, a requirement for a containment system designed to offer fully flexible handling operations and tailored to suit specific process route and reactor location needs.

Hosokawa provides an opportunity for customers to simulate transfer of raw material into a reactor and to optimise the design, which provides opportunities to confirm the process and reactor combination and to ensure the design is tailored.

Hosokawa Micron Ltd has gathered pace as manufactures address their health and safety environment demands.

Explains Ben Jackson, a member of the Containment Team at Hosokawa Micron Ltd. “Part of this is evolving technology to meet the most stringent controlled environments but increasingly seeking fully contained process solutions that offer flexibility of handling raw materials, and variable container supply format of raw materials. Photographic: Hosokawa Micron Ltd.

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