



Process Containment Solutions

Process Containment Technology

Containment is a major concern for GMP industries. With a proven track record in managing highly technical and challenging isolation projects Dec is the perfect partner for the integration of new or existing equipment by providing comprehensive safe, ergonomic and dedicated containment solutions.

Dec develop, design and supply turnkey process integrated containment technology solutions for both potent and aseptic materials.

We provide custom-made solutions that meet the growing challenges with complete flexibility whilst meeting full compliance with all current health, safety and regulatory standards.

Our highly skilled and experienced project teams work closely with the customer to create customized solutions, starting from the Front End Engineering Design study through to commissioning, training and production startup.

Operator and product protection are a primary requirement with all Dec containment systems, the systems operate at nanogram containment level and have been validated and performance tested to SMEPAC guidelines.



Flexible containment system
Tablet press isolator



Supplier of both flexible and rigid high containment systems, Dec is able to propose customers the right solution depending on their application and project requirements.

Rigid containment system
Pre-blending and dispensing isolator

Filter Discharging and Pack-Off Isolators

Depending on the process, filter discharging isolators often are double-chamber glove box isolators, specifically designed for use with an on-site filter dryer for toxic or sterile applications.

The upper chamber for powder discharge, heel recovery and sampling from the filter dryer and the lower chamber for contained collection of the powder into bags or drums. Other equipment such as conical mills can be easily integrated. CIP wash gun assemblies and rotating spray heads generally provide easy cleaning.



Integrated filter dryer and dispensing isolator

Multi Purpose Isolator Systems

Custom designed isolators used for dispensing from various containers such as bags and drums into IBCs, reactors etc. These systems offer high containment in a controlled environment with fast cleaning and drying for swift product changes.



API Multi purpose dispensing and reactor charging isolator

Micronizing Isolators

The new 4th generation MC DecJet[®] isolators provide full containment of highly active and/or sterile compounds with both operator and product protection. The MC DecJet[®] micronizing and containment range (from MC DecJet[®] 30 to MC DecJet[®] 400) is the perfect union of years of experience as user and provider of micronizing and containment technologies. The attained experience has enabled Dec to fully understand critical process safety aspects and the mutual influence the environmental control and the micronizing process have on each other.

In-House Testing Capability

Our extensive in house testing facility allows us to test both non-toxic compounds with our standard open range of jet mill systems and now highly toxic compounds using our state of the art high containment micronizing isolation system with fully automated control, gravimetric feeding and dedicated air handling system capable of achieving specific temperatures and relative humidity requirements.



MC DecJet[®] 200 Half suit isolator



MC DecJet[®] 150 Micronizing and Conditioning Isolator

*patented technology

cGMP, REACH, Aseptic Manufacturing & Process Integration

All of Dec's containment technologies comply with pharmaceutical quality/manufacturing standards and is available for aseptic manufacturing when sterile products are involved and can be easily integrated into an existing production line. Dec's PTS technology (Powder Transfer System) can transfer, mix and discharge sensitive powders with no leakage, contamination or physical property changes from and towards any process step.

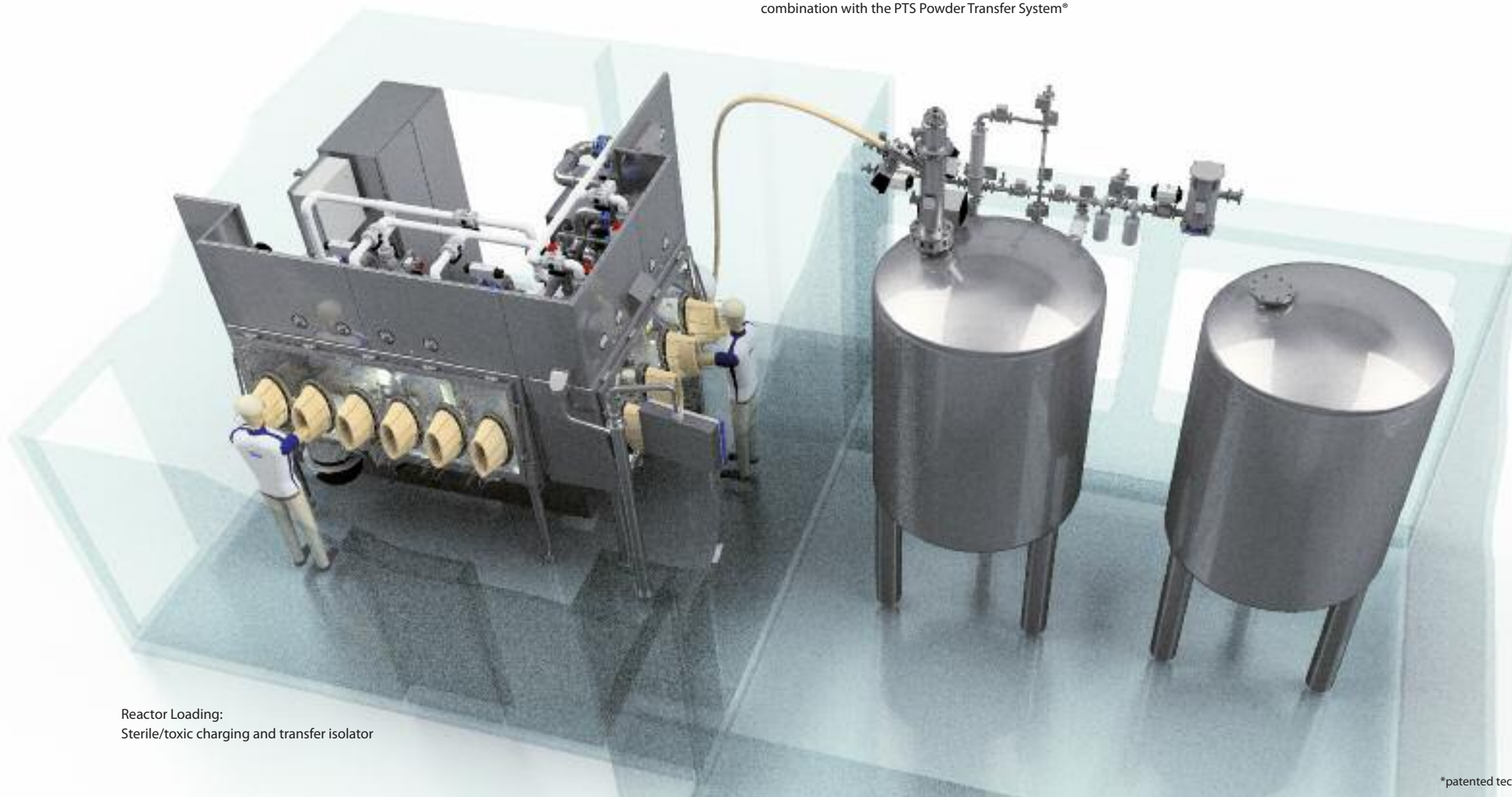
Powder Handling Isolator

Dec's Isocharge is a low cost method of both dispensing and charging materials into reactors or receiving systems via the PTS Powder Transfer System®. The Isocharge advantages of isolation combined with laminar flow technology, provide high containment of $< 1\mu\text{g}/\text{m}^3$ per 8 h TWA.

This safe solution for both the operator and working environment allows for fast emptying of materials, excellent working ergonomics and easy cleaning (WIP).



Isocharge – contained dispensing and reactor/equipment charging in combination with the PTS Powder Transfer System®



Reactor Loading:
Sterile/toxic charging and transfer isolator

*patented technology





Dec provide high quality powder handling and process containment solutions for the pharmaceutical, chemical, food and cosmetic industries. These include a wide range of patented products that enhance safety, hygiene, containment, reliability and productivity.

The depth of Dec's knowledge and their ability to develop innovative new technologies make them an invaluable partner for both multinationals and specialist organizations. As a result, more than 5000 systems from Dec have been successfully integrated into production sites of numerous companies worldwide.

With true worldwide coverage through subsidiaries in Germany, Great Britain, Ireland, Poland, USA, India, China and agents covering over 40 countries, the Dec Group provides its customers with global expertise in process containment technologies and a reliable network for local support.

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