



Powder Handling /
Process Containment
Solutions
from a Single Source

Dec Product Streams

Standard Equipment

Dec supplies an extensive line of powder handling, micronising and process containment equipment. With a wide range of patented products which increase safety, hygiene, containment and productivity.

Turn Key Projects

Dec realises fully integrated process systems of high quality, both turnkey and custom designed. Process and system development from safety to productivity.

Consultancy and Project Development

Dec works in close cooperation with its customers, from planning and design development, known as the FEED phase (front-end engineering and design) to project management through to technical support.

Dec is the ideal partner for the integration of new or existing equipment in primary and secondary processes, taking a holistic approach to ensure that every element has been taken into consideration.



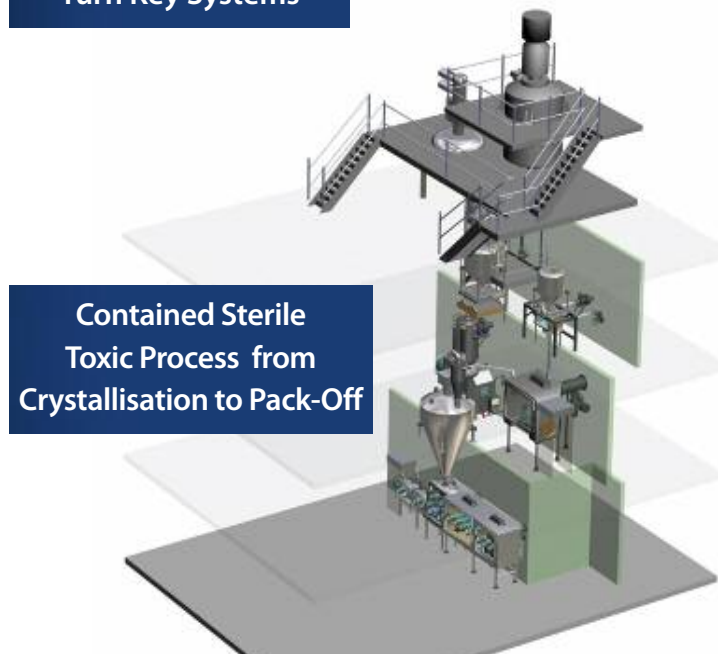
Standard Equipment
MC Jetmill® 150



Process Isolation &
Powder Handling



Process Integrated
Turn Key Systems



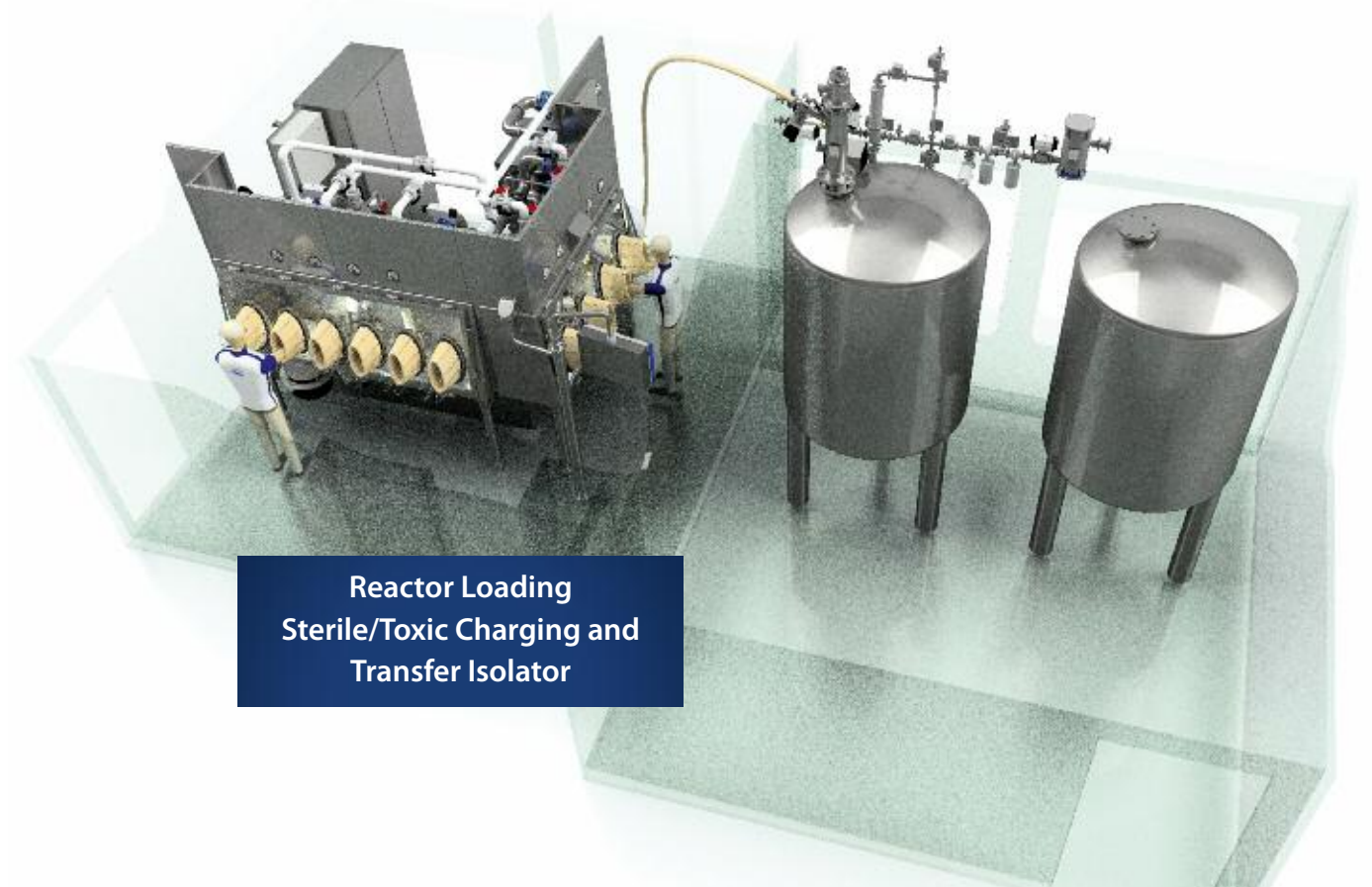
Contained Sterile
Toxic Process from
Crystallisation to Pack-Off

Dec's Expertise

Powder handling is one of the most frequent operations in the pharmaceutical, chemical and food industries. During production it is vital to be able to transfer powder from any kind of receptacle to a range of receivers, and to dispense, mix, stock and contain bulk powders. But these varying processes demand widely different handling methods using easily integrated, flexible process equipment that will enhance productivity. Dec Group has dedicated decades to master these requirements including safety, easy cleaning and high containment resulting in the manufacture of equipment which is compliant with the latest safety standards (REACH, GMP, etc.).

Powder handling systems which conform to today's standards of technology should be designed as multi-purpose facilities in order to respond quickly to market demands. The production units must allow fast changes of process using mobile and modular technologies.

Micronising and Pack-Off Isolator



Reactor Loading
Sterile/Toxic Charging and
Transfer Isolator

Isolation Technology

Containment performance to minimise operator exposure and process cross contamination



New 4th Generation MC Jetmill® Isolators
Provide full containment of highly active and/or sterile compounds with both operator and product protection



Multi Purpose Isolation Systems
Custom designed isolators used for dispensing from various packaging such as bags and drums into IBCs, reactors etc.

Filling

Innovative and proven systems for charging process equipment

DCS Drum Containment System*
Contained method of filling drums and big bags



DEC Big Bag Filling
Clean and precise filling of big bags

**Drum Emptying
DCS Drum
Containment System***

**Reactor Charging
PTS Powder Transfer
System***

**Filter Dryer
Discharge Isolator**

**Flexible
Micronizing Isolator**

Transferring

Safe and contained powder transfer with a wide range of applications

**PTS* – the
swiss original**
Effective and reliable method of transferring and dispensing both dry and wet powders and granules



PFL Powderflex*
Provides continuous and precise dosing and conveying of small to medium quantities of powder



Blending

Fully closed system for toxic and explosive powders in high containment areas

PTS Batchmixer*
The ultimate in speed and flexibility, enabling the operator to mix powders with different characteristics in a contained environment



Emptying

Safe powder dispensing from all types of equipment or packaging



DCS Drum Containment System*
Containment free emptying



DEC Big Bag Emptying
Optimal discharge for bridging and sticky products

Dosing

Dec's unprecedented technology offers precision dosing for many requirements



µPTS*
Precise volumetric dosing of very small amounts (0,5 mg – 100 g)



DosiValve*
Precise dosing even when handling difficult products, in combination with the PTS – Powder Transfer System*

* patented

Dispensing Isolator

**Powder Blending
PTS Batchmixer***

**Drum Charging
DCS Drum Containment System*,
PTS Powder Transfer System*, DosiValve**

Micronizing

With the new Dec MicroJet 4th Generation Jetmills*

MC Jetmill® 200
Production unit MC 200, with micronizing capacity up to 40 kg/hr.



* patented



MCOne®
For Research and Development teams looking to micronize very small quantities of material

Sampling

Dec Technology for safe and representative sampling

**MPTS
Sampling Device**
Facilitates complex sampling procedures directly from equipment, such as dryers, mixers, packaging units, etc.



DCS* Sampling System
Especially developed for taking samples out of drums containing API or other toxic powders

* patented



Dec provides high quality powder handling and process containment solutions for the pharmaceutical, chemical, food and cosmetic industries. This includes 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 4000 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 in 35 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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