

Powder Handling Excellence



Contamination free filling and emptying - DCS Drum Containment System for solids and liquids

DEC offers contamination free filling and emptying via the Drum Containment System (DCS). DEC strives for powder handling excellence and is one of the pioneers in containment. With more than 700 sold units DEC's solution DCS is the preferred choice for many organisations in the challenging environment for containment with upmost focus on safety and reliability.

Filling

The DCS is a cylindrical glove box constructed of AISI type 316L electro polished stainless steel with a glass cover and two glove ports. It has been designed to provide safe handling of active ingredients.



Benefits in a nutshell:

- Optimal product, operator and environment protection
- Full visibility inside the system
- High degree of flexibility (drum height and diameters)
- No need to wear gloves during the filling/emptying process
- Mobile, compact, ergonomic
- Easy to clean (CIP)
- Adequate for corrosive materials
- GMP compliant
- Cost-efficient

Dryer discharge with DCS Filling Station for big bags and drums, precision +/- 100 g

The DCS can be installed directly under the equipment to be discharged or where several items of equipment are to be emptied through one single station. If headroom is limited filling can still be carried out by combining the Powder Transfer System (PTS). Safety being paramount the DCS offers contamination free filling of drums and big bags via the DCS glove box allowing the operator to open double liners in a sealed environment. (Reached containment: $< 1\mu\text{g}/\text{m}^3$).

Emptying

Featuring the same benefits the DCS also ensures contamination free emptying of drums.

The DCS is fully mobile and again, its flexibility allows it to work with a multitude of different drum sizes. Working in combination with the PTS the free moving suction lance and excellent visibility ensure residue free emptying of the drum. The system also offers partial emptying and is available with a platform for smaller drums, if required.



DCS Drum Discharging Station combined with PTS for pneumatic reactor feeding



Dietrich Engineering Consultants sa

Z.I. Larges Pièces A · Ch. du Dévent · P.O. Box 9 · 1024 Ecublens · Switzerland
Tel +41 21/694 20 40 · Fax +41 21/694 20 59 · info@dec-group.net



Optionnally, both systems filling and discharging are available with load cell features to provide accurate dosing, sampling features and for inert operation.

For contained emptying of big bags, DEC provides big bag discharge stations supplied with a DCS head guaranteeing both primary and secondary containment.

Big Bag discharging with DCS head and weighing option

Handling of toxic and corrosive liquids

DCS Liquid - The safe and contained emptying and filling of drums is now possible without additional precautions, such as full protective clothing or large Laminar Airflow booths.



Above: DCS Liquid for different drum sizes, special double lance version



Right: DCS Liquid System for drum discharging with corrosive and toxic liquids

The DCS Drum Containment Systems provide a significantly more flexible, precise and economical way of handling drums and big bags compared with conventional isolation systems.



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