



## Containment

# Pack Off Systems

- Safe packaging of toxic and explosive powders
- Adaptable to various types of packaging
- Modular and custom-made design
- From simple to fully integrated system
- Various levels of containment
- Accurate filling
- No clean room requirement

## Pack Off Systems

Dec's Pack-Off systems manage a range of packaging, from single inflatable seals to continuous liners integrated in a glove box if necessary. Modular packaging systems are available for different containment and process requirements, including sterile applications.

The installation has an accurate weighing system, which combined with appropriate dosing equipment such as a rotary valve or PTS Feeder ensures precise filling of the packaging.

Continuous liners are supplied vertically folded in unique cartridges in extended lengths compared to the standard. Liner material is specified to customer requirements and is manufactured in a clean room. Contained disconnection is guaranteed by a specific clip system or integrated welding machine.

For more stringent constraints such as high containment or GMP requirements a specifically designed Pack-Off system combines isolator, laminar flow and continuous liner technologies. This concept, already validated by the competent authorities, allows the final APIs to be packaged without the need of a clean room.

### Features

- Accurate to 1 g
- Containment up to nanogram level
- Toxic and sterile product application
- Fills bags, continuous liners, aluminum canisters or containers
- Controlled product feeding with automatic weighing
- Manual or automated sampling
- CIP / SIP system

### Options

- Welding machine
- Online sampling
- Venting filter
- RABs (Restricted Access Barriers) to ensure grade A transfer in and out

### Continuous Liner Design

- Up to 80 m
- Class ISO 5,  $\gamma$ -sterilized if required
- Compact delivery form in sealed PE-Bags
- Antistatic, FDA approved (FDA 21 CFR part. 177)

