



# Flexible Enclosures



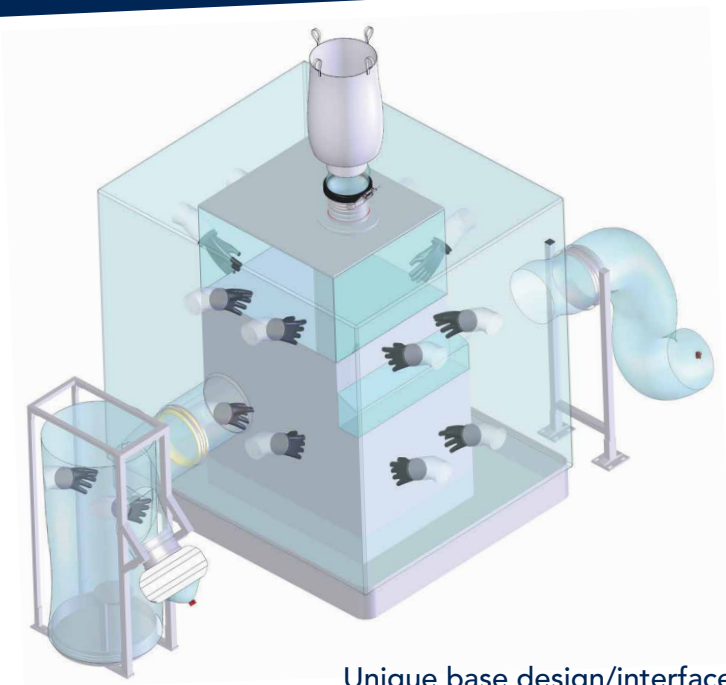
## Flexible Containment Technologies

ILC Dover's flexible enclosures take the concept of a traditional flexible glove bag to a new level. Using the same reliable fabrication techniques and proven containment design features found on our DoverPac<sup>®</sup> family of products, we've produced a line of flexible enclosures adaptable to a wide range of existing equipment. These enclosures save time and money by allowing you to retrofit existing processing equipment while achieving nanogram containment levels. All materials meet FDA standards and the design accommodates cGMP as well as operator ergonomics.

Allows operators to work in shirt sleeve environment – increases efficiency

- 3rd party validated Nanogram containment levels using SMEPAC guidelines
- Economical
- Fast turnaround/installation
- Compatible with a wide range of existing equipment for retrofit
- Design makes use of existing DoverPac<sup>®</sup> containment details such as crimps, bag/out sleeves, and o-ring interface canisters
- Ergonomics are improved with an increased range of motion
- Designs support separation of process and technical areas
- Where applicable, entire piece of equipment can be contained

# Flexible Enclosures



## Tablet Press/Deduster Flexible Enclosure

- Powder added using a DoverPac® and canister interface
- A series of glove sleeves permit easy press operation
- Continuous bag-out sleeve supports tablet sampling/analysis
- Unexpected maintenance can be performed using bag out sleeve and gloves

## Unique base design/interface

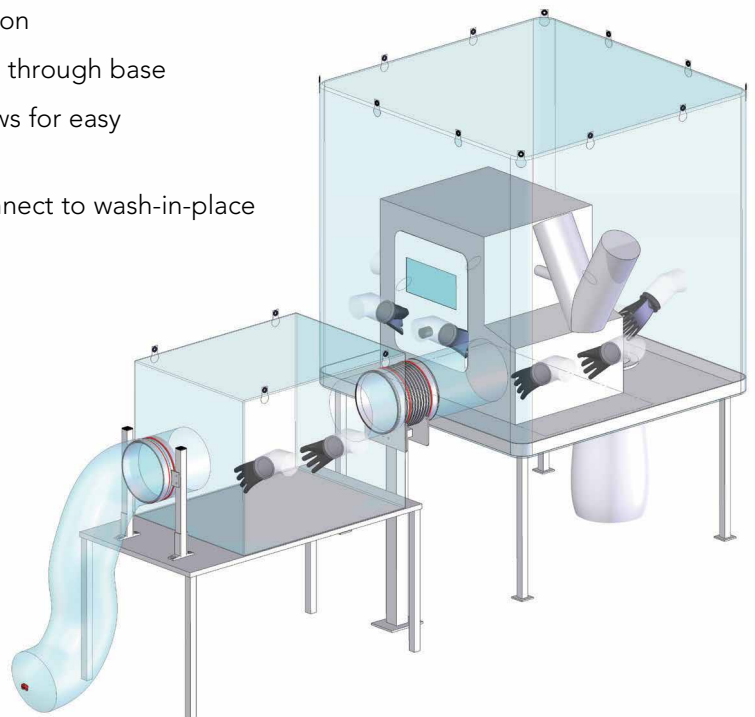
- Eliminates the need for zippers
- Stainless steel construction
- Utilities can be plumbed through base
- Fork lift compatible allows for easy repositioning
- Base can be used to connect to wash-in-place (WIP) system

## Enclosures designed to work with:

- Blending
- Milling
- Tableting
- Weighing
- Subdividing
- 

## More cost effective than:

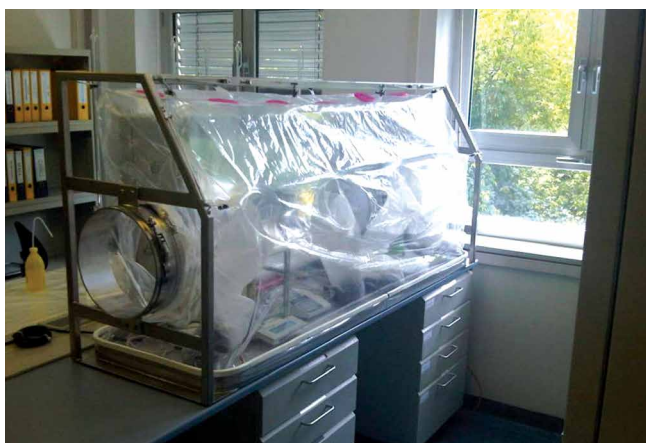
- Rigid isolators
- Downflow booths
- New equipment



## Lab Scale Analytical/Blending Process Train

- Product enters through bag-in sleeves
- Operation of equipment accommodated via glove sleeves
- Integration of process steps through ILC Dover canister interface
- Process train can be expanded to include sub-dividing, milling, tableting, etc.

# Flexible Enclosures

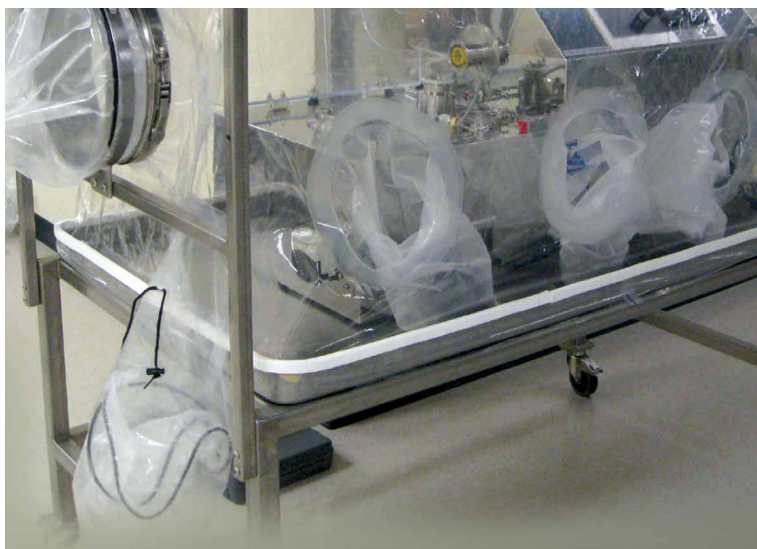


## Weighing and Dispensing

- Utilities through pan
- Used with standard lab equipment

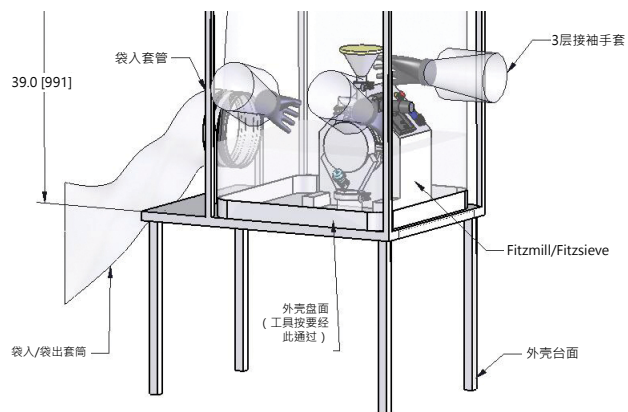
## Mill Flexible Enclosures

- Powder added at top using DoverPac<sup>®</sup> addition technique or scooped in by hand
- Milled powder discharged into DoverPac<sup>®</sup>, IBC or vessels

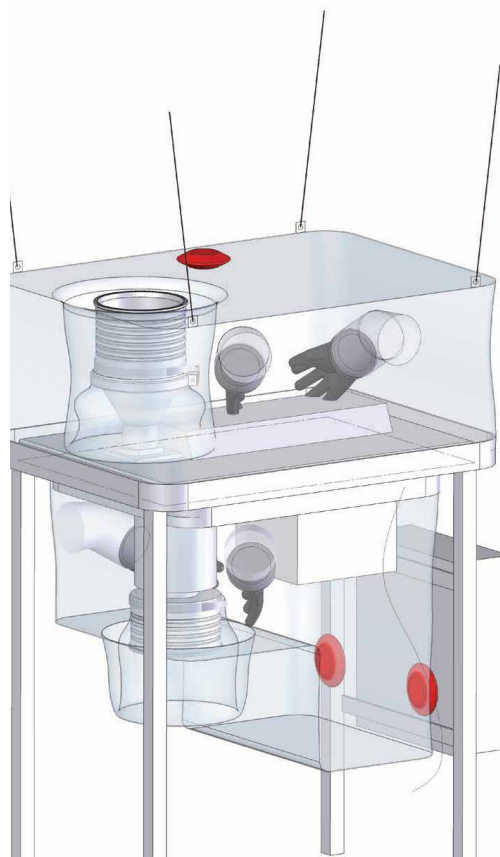


## Granulator

- Mobile frame allows use in multiple suites
- Clear film and bungee attachments optimize ergonomics



L1A Fitzmill

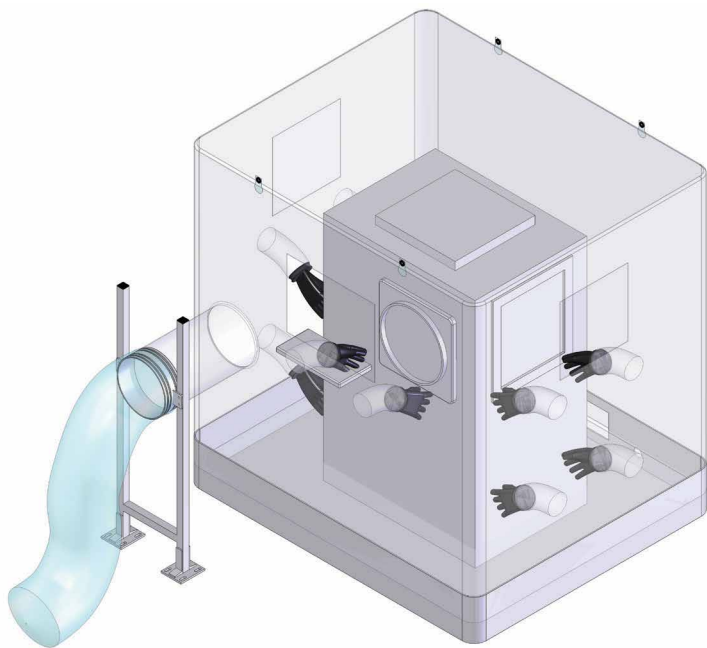


Overdrive Mill enclosure with shroud removed and fully deployed to allow use of glove sleeves for cleaning and maintenance

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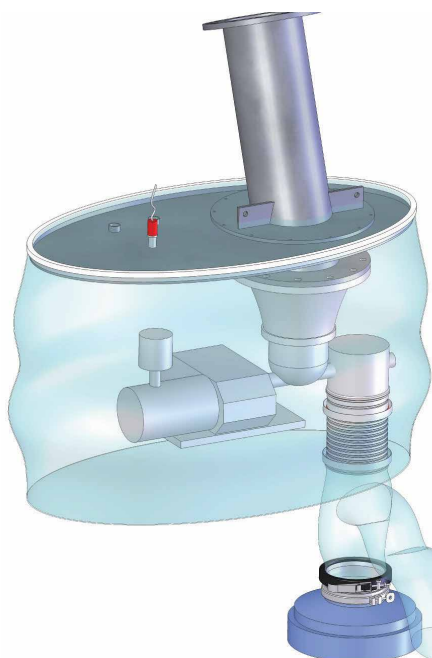
## Tablet Coater Enclosure

- Tablets bagged in/out through sleeve
- Glove sleeves allow full operator access



## IBC Transfer

- Milled powder or finished product
- Tare weighing in process transfer



Dispensing device enclosure  
with transfer sleeve to IBC or  
downstream process



MKT-0012C

\*ArmorFlex is a registered trademark of ILC Dover LP



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