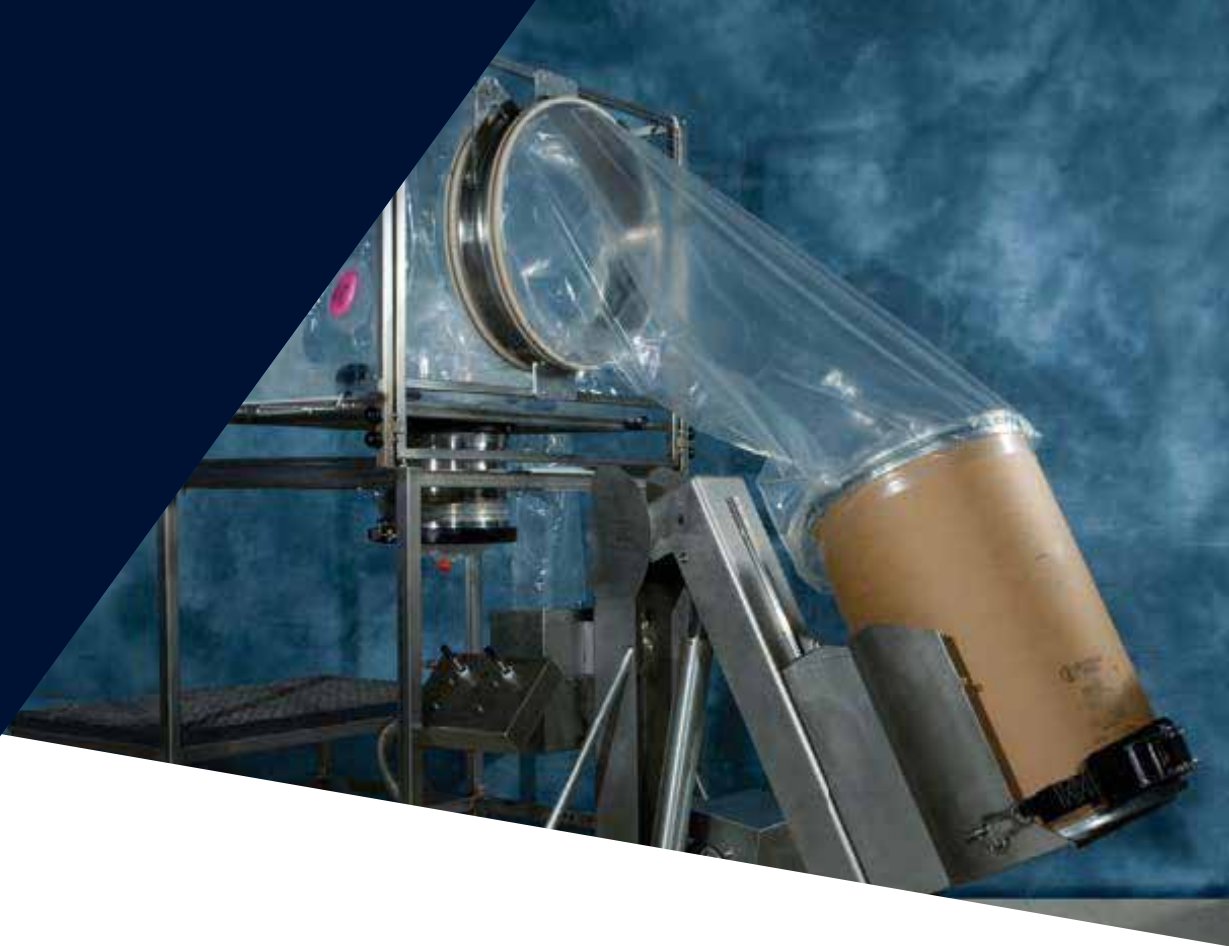




# Drum Transfer System

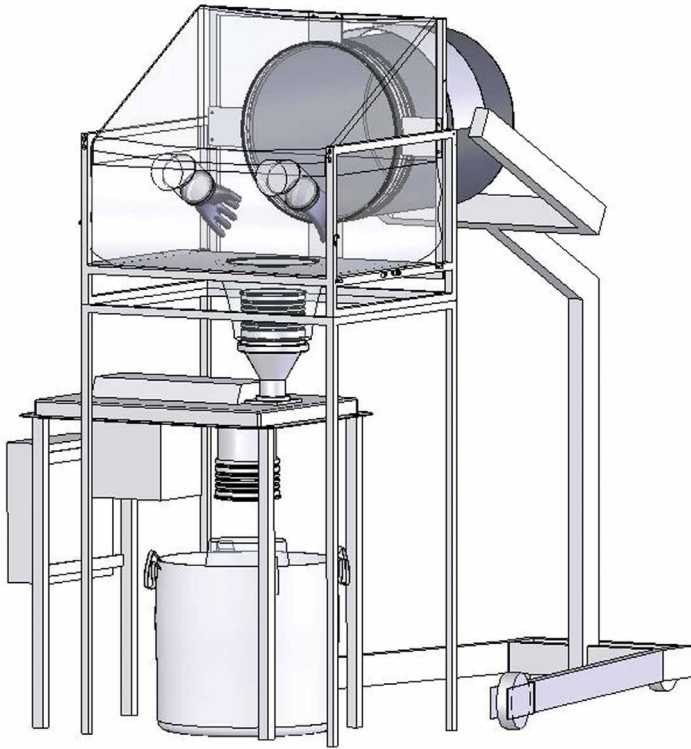


## Contained transfer of drummed materials using a closed disposable manufacturing system.

ILC Dover's Drum Transfer System can be used for contained transfer of active pharmaceutical ingredients (API's), intermediates, and excipients in applications such as: milling, subdividing, charging and repackaging.

- Shortens time to manufacturing readiness.
- Disposables reduce cleanup and cleaning validation.
- Lightweight, mobile system.
- Protects operator and product.
- Minimizes product loss.
- Low capital cost.
- Improved operator ergonomics.
- Less complex than rigid isolators.
- cGMP system—no cross contamination.
- OEL's to 1.0  $\mu\text{g}/\text{m}^3$  achieved.
- Validated in customer applications.

# Drum Transfer System



BrandNu Labs photo



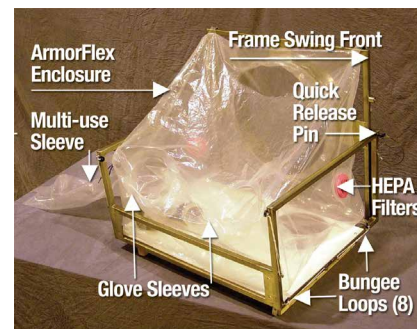
Flow Sciences photo

## Drum Transfer System Components

The center piece of ILC Dover's Drum Transfer System is the frame and flexible enclosure. The base upon which the frame is mounted may be determined by specific applications. Several options for drum lifting are available. The illustration/photos above and left show typical Drum Transfer Systems and components.

The flexible containment enclosures and liners are made from ILC Dover's ArmorFlex® film. This rugged film has become the industry standard flexible containment material of ILC Dover's pharmaceutical customers.

Occupational Exposure Level (OEL) third party testing was performed on this Flow Sciences configuration. Task based results certified to below 1.0 µg/m<sup>3</sup> or 100 nanogram/m<sup>3</sup> on an 8-hour time weighted average (TWA).



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