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PROCESS EQUIPMENT



Drum Carts



Drum Inverters



Drum Tippers



Drum Movers



Material Transfer Station

Questions?

Ask an EHS
Engineer

Drum Tippers

EHS has developed a patented Drum Tipper to address the ergonomic risk factors associated with manually dumping drums. Each system is tailored from a core production design to meet the specific requirements of the application.



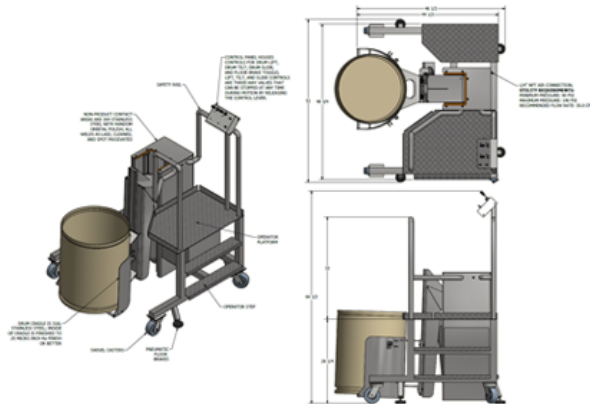
Easy to Clean

The exoskeletal frame of the EHS Drum Tipper provides a design that allows full wash-down and access to all surfaces and components. With no sealed panels that could leak or collect water, the open frame design of the Drum Tipper ensures that all the cleaning solution will fully rinse from the frame. In compliance with GMP practices, all product contact surfaces are polished to a unidirectional mechanical finish with a surface roughness of less than 25 $\mu\text{m Ra}$. The EHS Drum Tipper is constructed from 304 stainless steel and uses a completely pneumatic control system.

Operator Centric Design

By designing around an analysis of operator's movements during the drum charging process, an unmatched level of safety, operating simplicity, and functionality is achieved. A drum can be raised, lowered, and tipped into the proper position by using a single hand or foot control. This approach to drum handling allows the operator to easily control the product flow during the entire charging process.

[Click to watch video ▶](#)



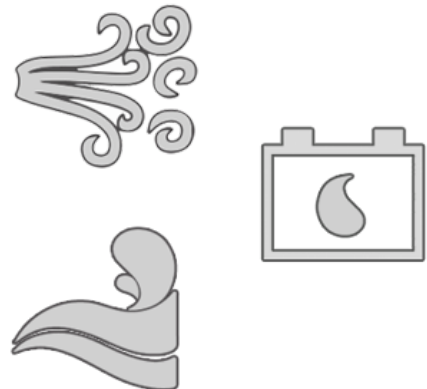
Custom Design

EHS embraces a customizable design philosophy; off-the-shelf drum tipper have many drawbacks because of their inability to conform to particular application needs. During the design phase, the EHS engineering team analyzes the application to develop a custom comprehensive drum-handling solution. By using standard options as well as custom-designed features, a GMP operator-centric design can be achieved.

Power Configurations

The EHS Drum Tipper has three power configuration options.

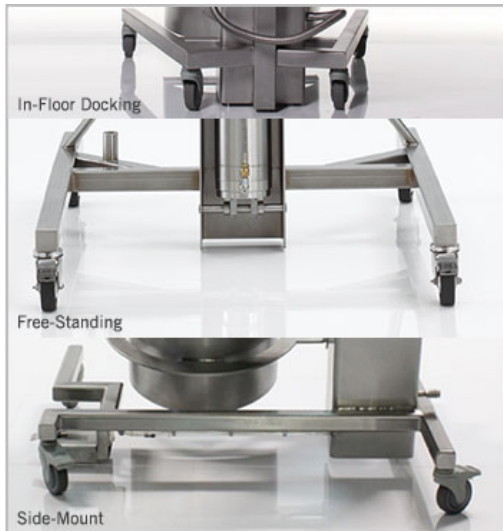
- **Pneumatic:** This is the simplest design with the least number of moving parts, ideal for drums weighing less than 150 kilograms. Little maintenance is required on a fully pneumatic drum tipper.
- **Pneumatic Hydraulic:** This option provides a smoother drum lift cycle than the fully pneumatic version and is primarily used for drums weighing more than 150 kilograms or drums full of liquids.
- **Electric Hydraulic:** Without the need for a compressed air hookup, this option allows for the greatest mobility. All the electric components are enclosed in IP66 rated housing.



Cart Options

The EHS Drum Tipper has four frame configuration options.

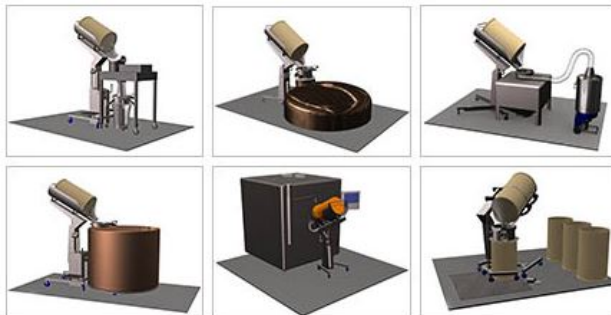
- **Fixed Mount:** This bolt down design is made for a permanent or semi-permanent installation into concrete or steel flooring.



- **In-Floor Docking:** The docking system uses a small receiver in the floor that allows the Drum Tipper to dock in place. This approach helps properly position the Drum Tipper in relation to the application and provides stability during the dumping process.
- **Free-Standing:** The Free-Standing frame is fully mobile, requiring no floor installation. The Drum Tipper is rolled into position and floor brakes are activated before beginning the charging process.
- **Side Mount:** The Side Mount configuration is primarily used for drum-to-drum dispensing. It allows the operator to easily access the drum opening during the charging process.

Surface Finish

- **GMP Plus:** All welds are ground and polished. All surfaces are passivated and have a unidirectional surface finish with less than 20 μin Ra surface roughness.
- **GMP Standard:** Non-product surfaces have an orbital surface finish, while product contact surfaces have a unidirectional surface finish with less than 20 μin Ra surface roughness.



Application Library

EHS has developed an [Application Library](#) to demonstrate how the Drum Tipper can be adapted to work with a variety of applications. The list can serve as a starting point for developing a solution tailored to specific application needs and is not an exhaustive list of the possible applications.

SHOWS AND EXHIBITS

Interphex 2015
April 21-23
Booth #1952

ACHEMA 2015 Germany
June 15-19

CONTACT DETAILS

Headquarters:
1623 W Pioneer Pkwy
Peoria, IL 61615

Phone: 800-463-7817
Fax: 309-285-8948

LATEST NEWS

EHS now has an application focused sample drawing library for many common industry applications. Visit our Applications page to see some of the applications we can service.

