

Column Lifts & Blenders



Industrial Equipment & Design Company

...a world of experience in powder handling

Column Lifts & Blenders



Lifting Vessels

When dealing with IBCs, drums, or any other kind of material container, it is often necessary to elevate and position the equipment above a process in order to discharge its contents.

Small containers can make this an ergonomic nightmare. Larger vessels can require a forklift or overhead crane, which can be inconvenient, unsafe, and unsanitary.

To deal with these kinds of installations, IEDCO has developed a line of Column Lifts (sometimes called Post Lifts) which permit the handling of virtually any vessel safely and precisely.

Depending on the load, our Column Lifts can either be electrically or pneumatically powered.

IEDCO Column Lifts

IEDCO Column Lifts are designed to be stationarily mounted on a level floor and supported from a bearing support at the top as a standard, but floor supported only models can be supplied, as well.

Our standard **Column Lift** for loads over 250 lbs is completely electrically powered and designed to accurately lift, swivel, and dock its payload.

The completely electric design makes the machine more reliable, trouble-free, and smoother operating than either hydraulic or pneumatically powered units. There is no leakage, no motion creep, and far less maintenance.



Lift Types

All IEDCO Column Lifts are designed and built to suit your project's specific needs. We have supplied lifts to handle vessels of all sizes, as well as processing equipment (sifters, screeners, mixers, etc.).

Some types of lifts we can supply include, but are not limited to:

- IBC Lifts
- Drum Lifts (and Inverters)
- Material Lifts
- Small Container/Equip Lifts
- Vacuum Conveyor Lifts
- Bulk Bag/Bag Lifts
- IBC Column Blenders

No matter what your vessel or receiving point may be, IEDCO can design the perfect and precise lift system to keep your process running smoothly and safely.

IBC Column Lifts

If you use Intermediate Bulk Containers (IBCs) throughout your plant, chances are that you are going to need to discharge them into some sort of receiving vessel. This usually involves lifting the IBC above the vessel and docking it to the vessel inlet.

IEDCO designs and manufactures a wide range of custom IBC Column Lifts that can suit virtually any IBC handling challenge.

IEDCO IBC Column Lifts are designed to lift, slew, lower, and accurately dock IBCs to your reactor, mixer, or any other receiving vessel.

We offer a variety of IBC holding effectors, including ones that grab the IBC bottle using our unique IBC leg collet design, interfacing with the IBC handle and legs, or using simple forks that lift the IBC from underneath.

Each system specifically designed to your needs.



Drum Lifts & Inverters

If you make something from powders, it usually means that one or more of your basic ingredients comes to you in drums, which means that you are faced with the following issues:

- The ergonomics of the lifting and handling of the drums to minimize operator injury and maximize efficiency
- The emptying of drums accurately with full containment

To help you solve these issues, we custom design and build a variety of Drum Lifts and Inverters.

We are particularly proud of our Column Lift Drum Inverter Systems, which can lift, invert, slew, and dock a drum into a specific unloading position reliably, repeatedly, and accurately.

These systems are designed to handle virtually any style drum and/or multiple drum sizes. Operation can be fully automated or include some manual processes for cost efficiency.



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Material Lifts



IEDCO has a line of Material Lifts utilizing our column lift design. These hygienic lifts allow for the smooth lifting of loads between floors or mezzanines. Typical loads include: IBCs, Carts, Pallets, etc.

Our Column Lifting design uses an electrically driven ball screw for the ultimate in mechanical safety. Support is typically from the floor and ceiling structures, but platform or other support is also available.

Designed primarily for sanitary and hygienic environments where freight elevators or forklifts are unwanted, IEDCO Material Lifts are constructed out of stainless steel with a high quality finish.

Maintaining operator safety is an IEDCO priority, so all our Material Lifts are supplied with safety options such as interlocked gates and optical barriers.

Small Container/Equipment Lifts

Standard containers like drums or totes are not the only items that need lifting/positioning. Your process may include the discharging of bottles, small containers, or bags. Or you may have mixers or blenders that are too cumbersome and heavy for your operators to handle safely.



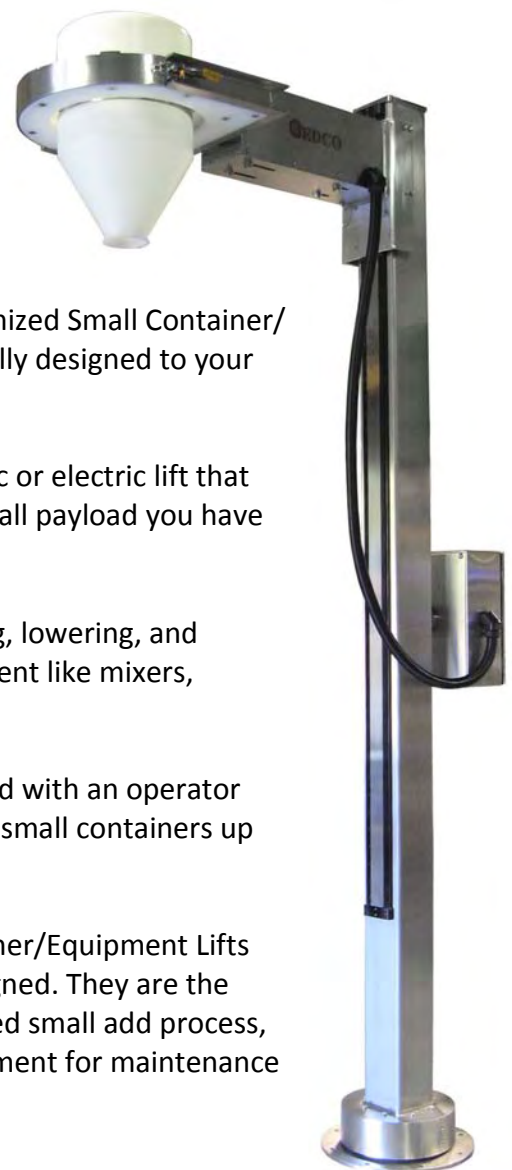
IEDCO offers a line of fully customized Small Container/Equipment Lifts that are specifically designed to your individual needs.

We can supply either a pneumatic or electric lift that can lift and position whatever small payload you have smoothly, accurately, and safely.

These lifts are ideal for the raising, lowering, and positioning of processing equipment like mixers, blenders, and sifters.

Eliminate the ergonomics involved with an operator lifting and carrying equipment or small containers up and down steps or mezzanines.

Like all our lifts, our Small Container/Equipment Lifts are hygienically and custom designed. They are the perfect solution for your contained small add process, as well as raising/lowering equipment for maintenance or cleaning.



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Bulk Bag Lifts

If you are in need of the ultimate sanitary and hygienic bulk bag unloading system, look no further than the IEDCO Column Lift Bulk Bag Unloader.

Designed specifically for the pharmaceutical and food industries, this bulk bag unloading system not only lifts and swivels to position the bulk bags for discharging, but completely eliminates the need for often unhygienic hoists or forklifts.

Simply bring full bulk bags to the unloader using a pallet jack or cart. An operator attaches the bag straps to the lifting effector and the lift does the rest.

Due to the slewing capabilities of our Column Lift Bulk Bag Unloader, it is possible to have two different bulk bag unloading systems feeding one receiving vessel.



Sanitary Powder Transfer Bag Lifts

The use of sanitary powder transfer bags is becoming more and more common in every industry that requires contained and hygienic addition of smaller amounts of product to their processes.

IEDCO has developed a Sanitary Powder Transfer Bag Lift to solve this challenge and remove virtually all the ergonomic and safety issues involved with contemporary small bag discharging.

Currently in use throughout the world, the IEDCO Sanitary Powder Transfer Bag Lift is designed to work with powder transfer bags like those supplied by ILC Dover, ATMI, and others.

These systems not only include our column lift designed Sanitary Powder Transfer Bag Lift, but all the Powder Transfer Bag Hangers and Powder Transfer Bag Carts required for smooth operation.

If you are considering using or are currently using Powder Transfer Bags in your process, contact IEDCO today to see how our extensive experience in handling these bags can help streamline your current or future operations.



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IEDCO IBC Column Blender

One of the inherent advantages of an IBC (Intermediate Bulk Container) is that it permits the blending of multiple ingredients without the need to transfer the material to and from another machine.

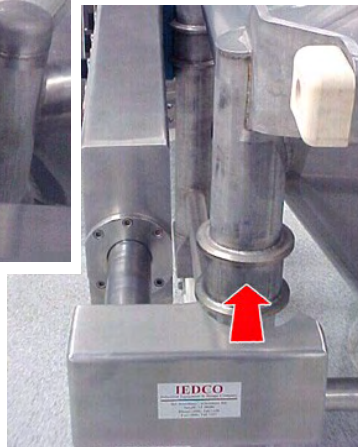
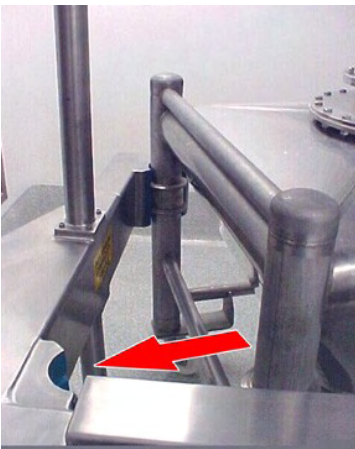
This eliminates segregation and cross contamination issues, as well as a mechanical blending instrument that would require extensive maintenance and cleaning.

Our line of IBC Column Blenders permits the easy loading of the IBC without a forklift. IBCs are simply rolled into the awaiting clamping arm mechanism. After blending, the IBC can either be lifted and positioned above a process for discharging or removed and taken elsewhere for further processing.



IEDCO IBC Column Blender Advantages

- The ability to obtain a homogeneous blend of multiple ingredients in an IBC is a tremendous asset for both simplicity and hygiene.
- The transfer of product to and from another machine is eliminated and containment and ergonomic situations are tremendously improved.
- Our clamping arm is simple, hygienic and safe. The one adjustable arm is opened for loading. The IBCs are fit with “male” collets on each leg. The collets of one leg are positioned in “female” inserts of the stationary arm and the IBC is simply pivoted into place. The adjustable arm is locked. The IBC is safely secured at three corners and ready for blending.



Getting Powder & Tablets From Point "A" To Point "B" Is Our Only Business

