



## IEDCO Company Profile



**IEDCO** (Industrial Equipment & Design Company) was founded to serve the specialized needs of the Pharmaceutical, Foods and Fine Chemical Processing Industries.

We are dedicated to the engineering, design, manufacture and installation of powder and tablet handling systems and technologies. IEDCO's core business is getting powders and tablets from Point "A" to Point "B" in as reliable, safe, contained and ergonomically acceptable of a way possible. We are an innovative engineering company that can provide our clients with custom single-source, engineered solutions to specific powder handling application challenges.

## Powder & Tablet Handling Specialization

IEDCO specializes in powder and tablet handling with an emphasis on containment, hygienics and ergonomics. Our staff of experienced engineers and industry professionals know a great deal about getting products to and from mixers, blenders, dryers, tablet presses and a wide range of other process equipment. We also focus on the containment and cleaning issues associated with various manufacturing processes and the importance of safety and ergonomic considerations for operation personnel.



## Innovation & Custom Design

We design and manufacture equipment and systems that have been developed in the context of meeting our clients' specific application challenges and demands for reliability, simplicity and performance.

Every application is unique and it is that element that we enjoy the most - applying our expertise and innovation to meet and exceed these challenges.

With over 25 years of powder handling experience, we've seen a thing or two. Where others fall back when faced with difficult or "out of the ordinary" situations, IEDCO steps up and delivers innovative solutions.



## Engineered, Single Source Solutions

You expect a piece of equipment to have a terrific performance guarantee, great value and to be of the highest quality, but if that piece of equipment isn't properly integrated with your existing equipment or process, it will ultimately fail.

At IEDCO we believe very strongly in getting intimately involved in all of the details associated with both equipment and process integration. This value added service ensures that the system installation will be a success.

When you select IEDCO as your project partner you benefit from our years of experience and expertise. As one of our valued customers, you can be assured that your project will be addressed in accordance with the highest standards and professional commitment as we provide:



- Functional and Design Specifications
- 2D/3D Design Capabilities
- System Installation, Commissioning and Start-Up
- System/Equipment Design, Procurement and Manufacture
- Control System Design, Supply and Integration
- Field Service and Preventative Maintenance





## Vacuum Conveying Systems

For most powder transfer projects, nothing is more efficient and effective as Vacuum Conveying. With nearly 25 years of vacuum conveying experience, IEDCO has positioned itself as one of the premier experts in providing successful pneumatic conveying systems.

Powders or pellets, granules or tablets, friable pharma or dense metal powders, hazardous or non-hazardous environments, we can custom design a system to solve your specific powder handling challenge.

IEDCO Vacuum Conveying Systems are cost-effective, low-maintenance (no moving parts), and highly efficient.



## Bag Handling Systems



Introducing bagged product into your process can often be a messy and an ergonomic nightmare.

Let IEDCO solve these issues with a custom designed bag dump station that can incorporate several options, including: dust collection, powder flow aids, semi-automatic bag cutter, bag lifting equipment, and more.

We can also eliminate the dust caused by crumpling up empty bags for disposal by integrating a pneumatic bag compactor.

IEDCO Bag Dump Stations can also be used for the emptying of other small containers like pails, buckets, or small drums.



## Batching Systems

If there's a recipe in your process, then you need an accurate batching system to weigh out a specific quantity of one or more ingredients. This procedure is often referred to as dosing, dispensing, metering, or batching.



IEDCO has a great deal of experience and expertise in supplying accurate dosing systems and can design, manufacture, and integrate a batching system with accuracies to +/- 0.00 pounds.

Each batching system utilizes an integral feeder that is chosen based on your specific feed rate requirements and product attributes. This can include a custom vibratory feeder or pneumatically operated sanitary rotary valve.

Batching systems obviously involve the use of a scale system to provide the weighing. The scale can be used on a "gain-in-weight" or "loss-in-weight" basis. Each has its pros and cons and our experience permits us to help you evaluate your specific needs and help you choose the right system for your specific operation.



## Bulk Bag Unloading Systems



Due to their cost effectiveness, many companies are opting to receive their raw materials in bulk bags, super sacs, or FIBCs, which introduces the challenge of how to empty them and get that product into your process.

IEDCO designs and manufactures a complete family of Bulk Bag Unloaders to meet your application specific needs, no matter the size of the bags being used.

Systems can be supplied with integral hoists, load cells, bag agitation, various discharging valves and incorporate a wide range of feeding capabilities.



## Bulk Bag Filling Systems



If you are a bulk powder producer, chances are your final products are sold in bulk bags. IEDCO's Bulk Bag Filler Systems run the gamut from a simple bag loading frame and fill-head to an automated fill system that allows for accurate gain-in-weight batching.

Our Bulk Bag Filler Systems are designed for contained filling and batching of dry powder materials from a process to a bulk bag. The bulk bag filler support frame can be designed to a specific height or it can be adjustable to serve a variety of bulk bag sizes.



## Drum Handling Systems



If one or more of your basic ingredients comes to you in drums, or you have a need to fill drums, you are faced with having to address the following issues concerning a drum lift or drum fill system:

- The ergonomics of the drum system to minimize back injury and maximize efficiency
- Drum emptying or drum filling with full containment
- Getting the material to or from the drum reliably

To help you with these issues, we custom design a variety of drum handling equipment which include: Drum Lifts, Drum Dump Systems, and Drum Fill Systems.

We are particularly proud of our Post Lift Drum Handling System, which can lift, invert, rotate, and dock a drum into a specific unloading position reliably and accurately.





## IBCs & IBC Blending



The most efficient way of handling powders within a plant is in Intermediate Bulk Containers (IBCs). IEDCO offers a complete line of IBCs that can have their contents transferred via a pneumatic conveyor. Our IBC Containers are custom designed to fit your project specific requirements.

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



The IEDCO Bin Blender is designed to receive, lock, lift and blend an IBC. The Bin Blender is completely electrically powered. The completely electric design makes the machine more reliable, trouble-free and smoother operating than either hydraulic or pneumatically powered units. After blending, the IBC can be lifted and positioned above a process for discharging via the use of one of our post lifts.

## Material & Equipment Lifts



When handling a large container, it is often necessary to elevate and position it above a process. Accomplishing this with forklifts or overhead cranes is inconvenient, unsafe, and unsanitary.

IEDCO has developed a line of Column Lifts which permit the handling of IBCs and other containers in an easy, safe and, precise fashion.

The IEDCO Pneuma-Lift was designed to handle smaller payloads using a compressed air cylinder lifting mechanism. Just like our standard Column Lifts, the Pneuma-Lift can lift, invert, swivel, and dock a variety of containers. Unlike our larger Post Lifts, the IEDCO Pneuma-Lift has the option of being portable, which can add a whole new dimension to small container handling by allowing the lift to get quite close to mix tanks, reactor vessels, or other process equipment.



## Containment Systems



IEDCO can provide a variety of containment solutions to the Pharmaceutical and Chemical Industries.

We have solved the most complex clean process equipment design requirements and performance specifications.

We are dedicated to the design, engineering, and manufacture of a full spectrum of both standard and custom built airborne contamination control, containment, and extraction systems to assure the highest level of protection and safety for both personnel and product.



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

