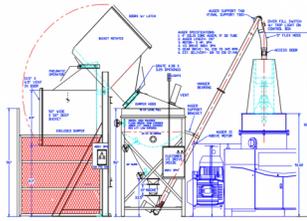


Integrated/Automated Systems

A leader in the bulk material handling industry, Ensign is a natural choice for providing integrated process specific solutions. Ensign has the engineering and manufacturing capability to provide turn-key systems that have been fully assembled, fitted, and tested prior to reaching your plant, saving you valuable time and money with installation and start-up costs.



Dumpers

Ensign is an industry leader in controlled dumping technology. Our full line of dumpers are designed to move your materials from bulk containers to your processing systems efficiently and effectively. Heavy duty steel constructed, our robust equipment is offered in several sizes, capacities, and options to meet your process requirements.

Lift Capacities: 2500lbs, 4000lbs, 6,000lbs

Discharge Heights: 48"-186"

Containers Discharged: Drums, Totes, Carts, Gaylords, Bins, Boxes

Materials Discharged: Powders, Flakes, Pellets, Bales, Fibers, Bottles, Pre-forms, Paper, Batteries, Parts



Filling Systems

Ensign's container filling systems are designed with many features to help you package bulk materials efficiently and effectively. Whether your process requires a stand-alone basic unit or a fully automated system, Ensign's engineers will work closely with you to design a bulk filling system to meet your process requirements.

Containers Filled: Bulk Bags, Drums, Gaylords, Totes, Carts

Materials Filled: Powders, Flakes, Pellets, Chips, Rubber

Optional Features: In-feed/out-feed Conveyors, Auto Hook Release, Pallet Dispenser, Fill Neck Seal, Weigh and Densification Systems



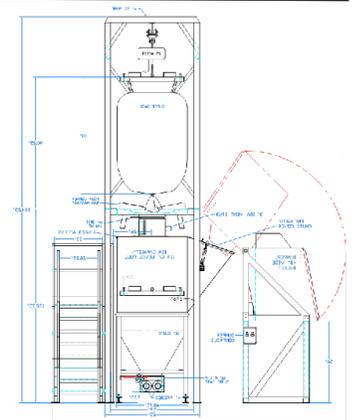
Bulk Bag Unloaders and Systems

Ensign's bulk bag unloading systems are designed with features to help you move bulk materials efficiently and effectively. Designed for a diverse range of powders, pellets, and granules these unloading systems can discharge into Porta-Stors, Gaylords, Surge Bins, vacuum systems, screw conveyors, and other downstream process equipment.

Models: 2,000lbs Manual, 4,000lbs Hoist

Materials Filled: Powders, Flakes, Pellets, Chips, Rubber

Optional Features: Weigh Systems, Seals & venting for Powders, receiving hoppers, Stainless Steel Construction, Four-corner bag massagers



Conveyors (Screw & Belt)

Ensign's conveyors are an economical method to move or load a variety of materials and components quickly and efficiently. From powders to components, Ensign's conveying solutions can handle a wide spectrum of materials for a diverse range of industries. Using variable speed drives and other automation, we can also integrate these units into your overall process to provide more precise control of feed rates and process requirements.

Types: Tubular, Trough, Coreless, Solid Core, Slider Bed (Belt)

Materials Conveyed: Powders, Flakes, Pellets, Bales, Fibers, Bottles, Preforms, Paper, Batteries, Parts

Optional Features: Variable Speed Drives, Clamp cleanouts, Overfill Switches, Zero Speed switches



Tilters

Ensign's Tilters are designed to increase the efficient unloading of various storage vessels. Designed to start tilting when containers are approximately half empty, the automatic tilting allows for the smooth and continuous flow of material with little or no assistance from operators.

Models: Standard, Premier, HD Premier, Low Pro, Parts Unloader

Containers Unloaded: Drums, Totes, Carts, Gayords, Bins, Boxes, Octobins

Optional Features: Vibrators, Safety Ratchet Assembly, Full Tilt indicator, Caster Frame, Foot control valve



Storage Solutions

Ensign's Storage bins are an economical in-plant storage solution for almost any material handling system. These stationary and portable units can receive material from Silos, Rail Cars, or gravity fill methods from conveyors or dumpers. All of our units can be fully integrated into any new or existing pneumatic or mechanical conveying system.

Storage Capacities: 10cuft-600cuft

Hopper Angle: 42°, 45°, 60°

Materials Stored: Powders, Flakes, Pellets, Fibers, Chips, Rubber

Optional Features: Level monitoring, pneumatic and manual SG, loader patterns, View windows, vents and more



Mixers

Ensign's batch mixers are designed to quickly, efficiently and economically create a homogenous mixture of free flowing bulk solid materials. A large range of capacities are offered in addition to several loading/discharge capabilities. There are many options available to help meet your specific process requirements.

Mix Capacities: 3cuft—1310cuft

Types: Vertical Auger, Vertical Ribbon

Materials Stored: Powders, Flakes, Pellets, Chips



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