

Bulk Bag Discharge Systems

Bulk Bag Discharge Systems have over the last 20 years or so largely replaced the traditional 25kg to 50kg bags and sacks in most volume applications. Their inherent lower costs and improved hygiene together with health and safety benefits now make them the option of preference across most industry sectors. Guttridge Bulk Bag Dischargers are built around the unique **Multiflo** and **Easyflo** rigid screw conveyor discharge systems, providing the ultimate in rugged, durable design with an almost zero cost spares requirement. We offer a number of configurations and options for efficient Bulk Bag discharge with an integral conveying or elevating system – ideal for feeding filling machines, mixers, dosers, reactors and for use in many other process scenarios.

Our rigid screw systems feature a well-proven system of 'slip-fit' screw flight connectors and casing flange clamps making disassembly for cleaning remarkably quick and easy. In addition steep elevating angles are possible minimising floor space requirements.

Many other options are available to cover bag discharge aids, liner handling, spout closing, weighing and dust control together with post-discharge facilities such as check sieving, metal detection and product elevation.



- *Rigid screw conveying and elevating systems*
- *Quick release design allows fast dismantle for cleaning*
- *Stainless or mild steel construction finished to suit any requirement*
- *Options for easy discharge of difficult products*
- *Dust control systems for COSHH compliance*
- *Integrated hoist systems for easy handling*
- *Ideal for handling powders, flakes, pellets or granules*
- with minimal degradation

Need to minimise the cost of spares?

Need to clean down easily?

Need a low cost solution?

... then our bulk bag discharge system is ideal



Optional Extras

Overhead hoist and gantry.

Various different systems are available to allow bags to be delivered by pallet and then independently loaded into the bulk bag frame using an integral hoist system.



Docking systems.

Various docking systems are available ranging from manual to pneumatic with varying degrees of sophistication. We also offer the Ezidock Containment System™ which comprises proprietary plastic seals for a fully dust tight connection.

Bag massage systems.

Simple pushers or hinged plate lifting systems are available according to the type of bag and product to be handled. Operation can be a programmed sequence or entirely manual.



Dust Extraction.

Depending on the type of bag, the simple rubber seal system may not be sufficient, in these cases an additional extraction manifold is available to extract dust laden air from underneath the bag, eliminating dust emissions.

Bag/Liner Tensioning.

Spring loaded column supports to the suspension frame are available to gradually lift the bag during the latter stages of discharge, resulting in improved emptying with minimal operator intervention.

Castor mounted Frame.

A mobile frame allows easy repositioning to suit production requirements, also lorry loading applications are best suited to this type of arrangement.

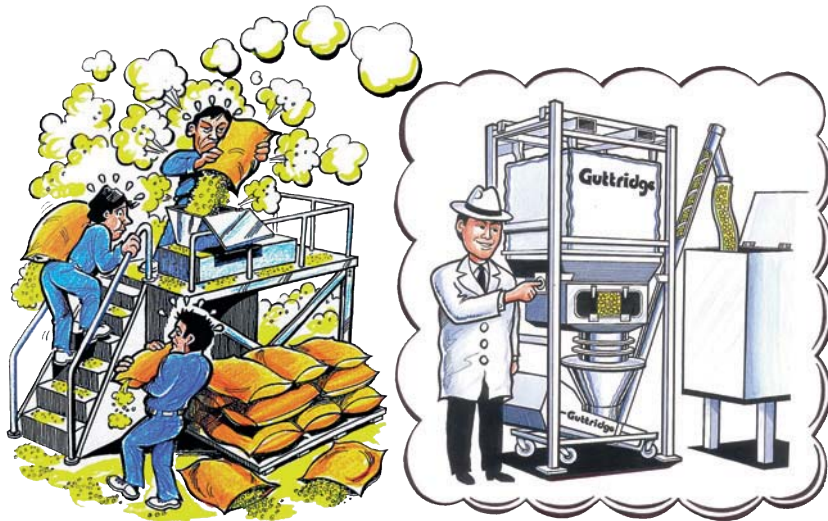
Adjustable Frame Height.

The Bulk Bag frame can be supplied with adjustable columns to allow easy adjustment to suit varying bag sizes.



Other Options:-

- Manual sack tip door
- Vibratory discharge pan
- Single trip bag knife cutter
- Load cell weighing systems
- Operator gauntlets for dust containment



We also manufacture:-

Screw conveyors, elevators and dischargers, bucket elevators, chain conveyors, slide valves, hopper loaders, hoppers and other miscellaneous special fabrications to suit a range of industries from Foods, Pharmaceuticals, Chemicals and Minerals to Feeds and Cereals.

We have over 40 years experience of manufacturing materials handling machinery and all machines are designed and fully manufactured in our state-of-the-art factory to ensure total control over quality and delivery.

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Bulk Bag Discharger Type MF

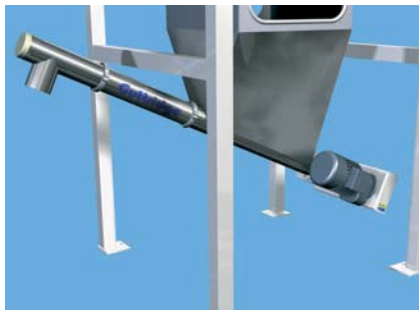
The basic system incorporates our **Multiflo** rigid screw conveyor system. This modular tubular conveyor system is unique in its rugged construction and easy dismantle features, allowing a genuinely easy to clean capability – something no other system offers as effectively. A rigid screw system generally operates with no contact between the screw flight and casing allowing granules and other delicate products to be handled with minimum degradation. Shown below are samples of the variety of different configurations and layouts that are available to suit a wide range of products and site conditions or constraints.

General Options

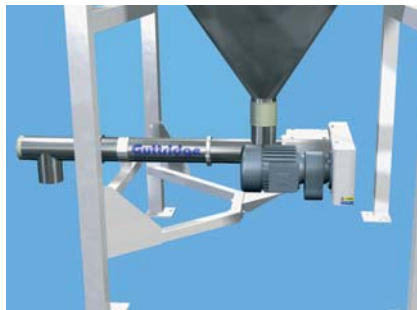
- Integral Hoist system
- Liner / Bag tensioning
- Dust extraction facilities
- Bag spout clamp
- Manual sack tip door
- Vibratory discharge pan
- Single trip bag knife cutter
- Load cell weighing systems
- Castor mounted frame for mobility
- Operator gauntlets for dust containment



MF-HighAngle. A steep angle discharge conveyor works well with many products and often provides useful savings in space. Inclined at typically 60deg, but available to suit precise site conditions.



MF-LowAngle. A shallow angle discharge conveyor with a full length rectangular inlet results in better charging of the screw conveyor and improved handling of products with poor flow characteristics. An optional hopper agitator can be used with particularly difficult products.



MF-Horizontal. Where there is no requirement for elevating product, a horizontal discharge conveyor offers a low cost solution, providing volumetric metering of product into other machinery or conveying /elevating systems. Lengths up to 10 metres can be achieved with intermediate support bearings and inlets of round, rectangular or oval configuration designed to suit product handling characteristics.



MF-Vertical. The combination of the MF-Horizontal system with our unique transition section allows product to be fed into a vertical or inclined screw to minimise floor layout space requirements.

Bulk Bag Discharger Type E/SF



Our established **Easyflo** mobile screw elevator forms the basis for this robust Bulk Bag Discharge System, creating an unbeatable combination of features. The integrated Easyflo can be easily removed for a thorough cleandown between batches – a job that need take only a few minutes, it can even be totally removed for standalone operation as a manual discharge station for handling 25kg bags, boxes or drums.

The elevating screw is a rigid screw inclined at 70°, resulting in a robust, space-efficient solution with long life and minimal spares requirements. The Easyflo system provides a unique capability to handle a huge range of materials – from fine free-flowing powders to materials with very poor flow characteristics.

General Options

- Sieveflo** integrated check sieve
- Integral Hoist system
- Liner / Bag tensioning
- Dust extraction facilities
- Bag spout clamp
- Manual sack tip door
- Vibratory discharge pan
- Single trip bag knife cutter
- Load cell weighing systems
- Castor mounted frame for mobility
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The popular Sieveflo variant provides integral check sieving facilities – the ideal policeman for foreign objects. An easy system for sieve screen changes and removal of foreign objects is incorporated.



General Features – all systems



Vibrating Discharge Pan
- specified in many applications



A robust seal around the base of the bag minimises dust emission



Lockable access door

Bag Handling. Effective bag handling is a critical area in the design and specifying of Bulk Bag systems and Guttridge engineers work closely with customers to optimise the bag handling system. The standard bag suspension frame allows easy loading / unloading with a forklift and easy securing of the bag handles. Other optional systems are available.