

Big Bag (FIBC) Dischargers



STB Engineering have designed a technically advanced range of big bag discharge and filling systems.

Each system provides a means of safe handling 1 tonne big bags with dust free discharge and filling.



Big Bag Dischargers: Using Fork Truck to Load Bags

STB's range of big bag dischargers incorporate many design features which are the result of over 20 years experience in designing, manufacturing and supplying bag handling systems.

STB big bag dischargers are also designed to be used in conjunction with STB conveying transfer systems, for use in the Food, Plastics, Pharmaceuticals and Chemicals industries amongst others.



Pictures above showing the access door.

Specification

Standard big bag frame allows for 1 tonne big bags up to 1.8m overall height and 1m to 1.3m under the bag hopper outlet.

Support Frame in mild steel painted box section, or optional stainless steel, 3.5m o/a height.

Bag discharger hopper manufactured in 304 stainless steel with flexible neoprene rubber top to seal the underside of the bag.

Bag discharge hopper mounted on 4 rubber isolation mounts.

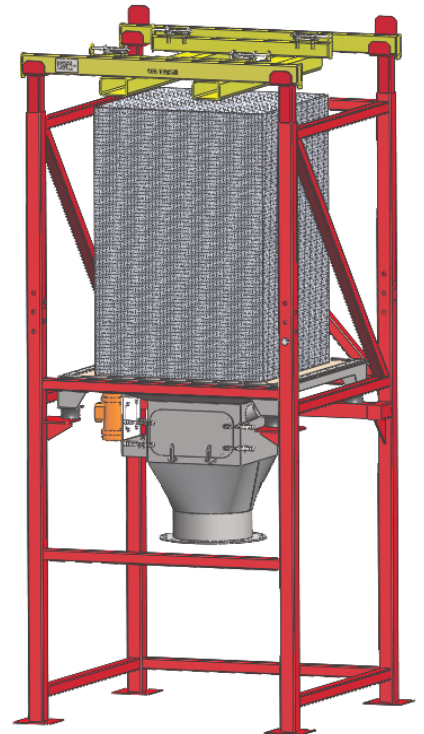
Hopper fitted with optional vibratory motor to aid discharge. We recommend that this is operated by a no flow probe fitted to a feed hopper below the bag discharger hopper outlet.

The side of the hopper is fitted with a stainless steel spigot allowing dust extraction or a sock to be fitted.

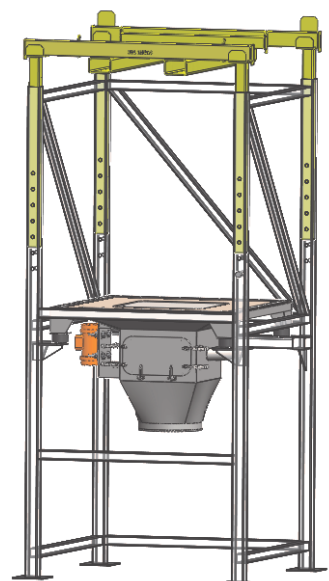
Fork truck bag lifting frame with bag hooks, stamped and tested to lift 1 tonne and above.

No ledges, crevices or product trap points.

Access door allows the operator to safely untie the bag spout. The door is closed and retained using toggle type clamps and seals against a heavy duty door seal.



Fork Truck Mounted System. The yellow frame is detachable. The bag is mounted with this using a fork truck.



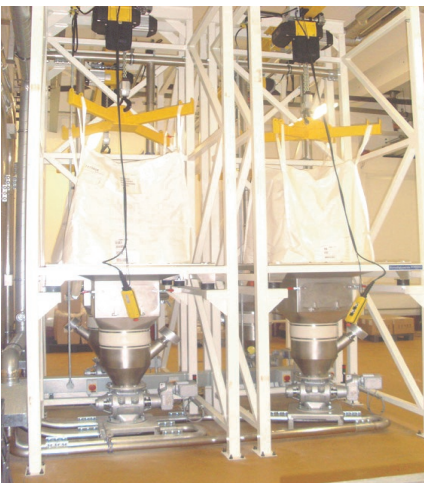
Big Bag Dischargers: Using Electric Lifting Hoist to Load Bags

STB provide a complete solution including the design, manufacture and installation of all mechanical/ electrical equipment.

Systems can include;

- ◆ Loss of weight, batch or continuous weighing
- ◆ Accurate dosing and feeding
- ◆ Part bag emptying and removal
- ◆ Hazardous area equipment.

STB offer recipe control systems to enable complete automation of ingredient feeding system.



Pictures above and to the right: Big bag dischargers transferring various ingredients into an STB pneumatic conveying transfer system.

Specification

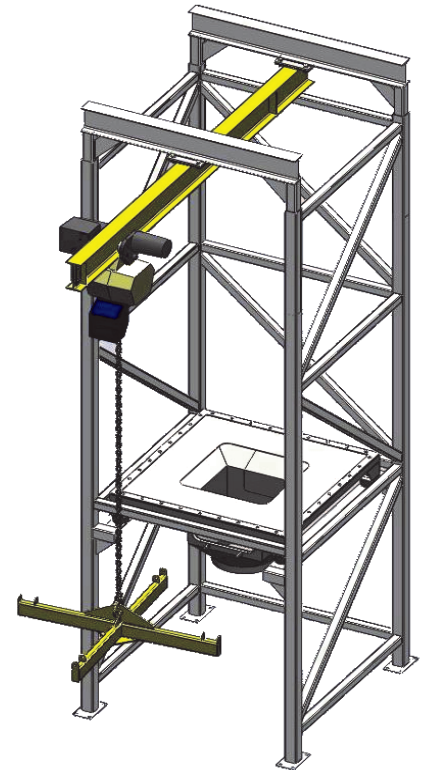
Standard Big Bag frame allows for 1 tonne big bags up to 1.5m overall height and 1m to 1.3m under the bag hopper outlet.

Support Frame in mild steel painted box section, or optional stainless steel (at an additional cost). Painted support structure - shot blast, primer and gloss top coat. 4.m o/a height.

The frame has been stiffened and extended to incorporate a 1 tonne cantilevered lifting beam which is fitted with an electric hoist.

Bag discharger hopper manufactured in 304 stainless steel with flexible neoprene rubber top to seal the underside of the bag.

An access door allows the operator to safely untie the bag spout. The door is closed and sealed using toggle clamps with a heavy duty door seal.



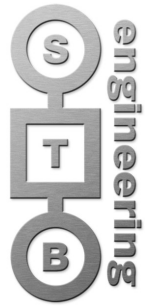
Electric Lifting Hoist System. The bag is lifted using an integral electric lifting hoist.

Bag discharge hopper mounted on 4 rubber isolation mounts. The hopper is fitted with a vibratory motor to aid discharge.

The side of the hopper is fitted with a stainless steel spigot to allow dust extraction or a sock to be fitted.

Extended, strengthened frame, incorporating a 1 tonne, cantilevered lift beam with bag hooks, carrying an electric hoist.

STB Engineering: Bulk Materials Handling & Pneumatic Conveying Specialists

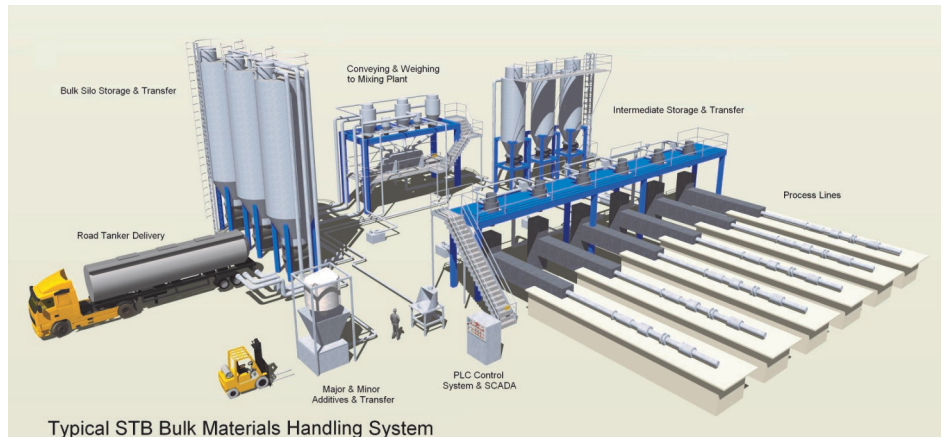


STB Engineering Ltd was founded in 1969, and had soon established itself as one of the UK's leading Bulk Materials Handling and Pneumatic Conveying specialists.

STB's success is the result of combining innovative and cost effective design concepts with the highest quality of engineering technology, all brought together by having the advantage of decades of in house engineering design and manufacturing experience.

We specialise in:

- ◆ Pneumatic conveying systems (dilute and dense phase)
- ◆ Weighing and feeding
- ◆ Storage and discharge
- ◆ Big bag and sack handling
- ◆ Control systems
- ◆ In house: project design and management, manufacture, installation and commissioning.



STB offer a total, end to end, in house solution for bulk materials handling, giving one point of contact and a system tailored to suit each specific application.

Using the latest Solidworks & AutoCAD design packages we manufacture our silos, vessels and conveyor systems in our purpose built factory in Stroud, Gloucestershire.

We are an ISO 9001 Quality Assured Company.



The people at STB are passionate about what they do and take great pride in their work. Our engineers have many years experience in solids handling and a thorough understanding of our customers' process needs and objectives.

Our dedication and commitment to our customers is at the forefront of everything we do which is why our customers keep coming back to us.

“Engineers who do what they say they will do”

