

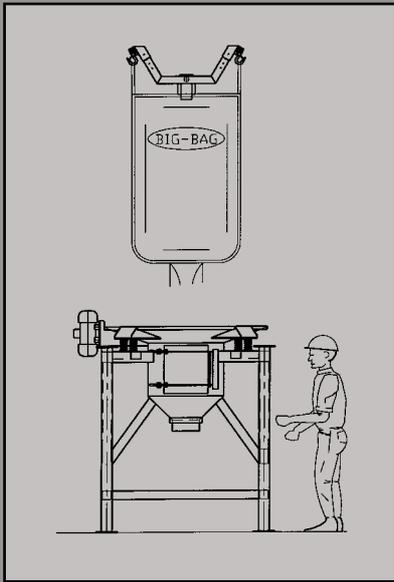
# BIG BAG DISCHARGE STATION TYPE BS 1-2-3



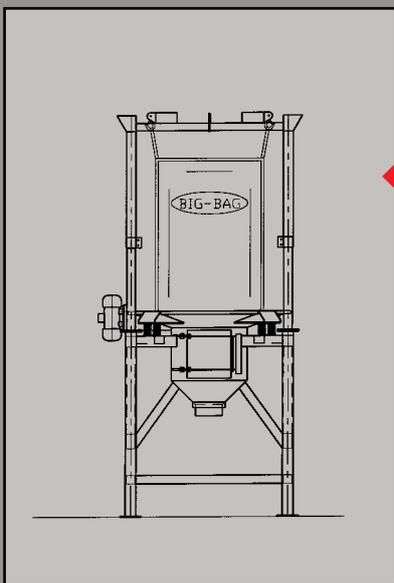
***DINNISSEN***



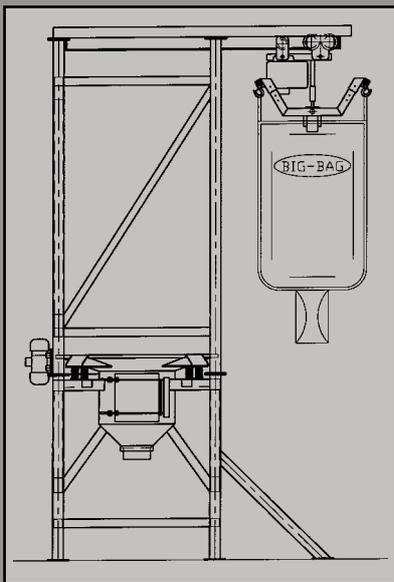
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BS-1



BS-2



BS-3



BS-3 BIG-BAG DISCHARGE STATION FOR DAIRY BABYFOOD PRODUCTS

### WORKING PRINCIPLE

The basic station consists of:

- a vibrating bottom.
- a discharge funnel.
- a heavy steel frame.

The Big-Bag is attached to a hoist device for better handling. Following the hoist device with the Big-Bag is picked up by a hoist or a forklift and is manoeuvred over the vibrating bottom. The vibrating bottom is suspended in the heavy steel frame by means of spiral springs. A sideways mounted imbalance unit generates the vibrating action, to improve the product flow. The discharge funnel is integrated with the vibrating bottom and it is provided with a large access hatch to untie the outlet spout of the Big-Bag.

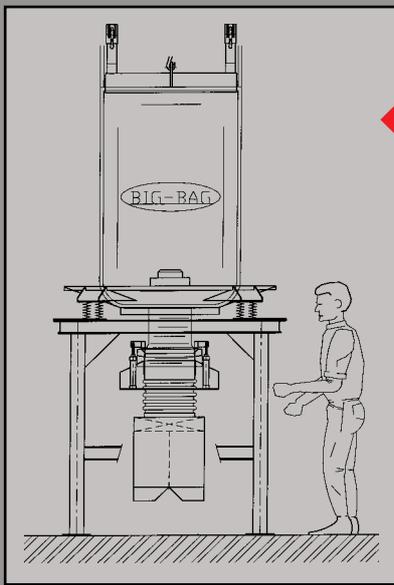
Because the Big-Bag covers the funnel completely there is a closed system while discharging, which creates a dust-proof unit. The funnel is also provided with a flange-connection for a de-dusting unit. The de-dusting also creates an air compensation while discharging.

The heavy steel frame is a solid construction of completely closed and welded box profiles. In the funnel, beneath the access hatch, a screening-grid is mounted to intercept possible lumps and large pollutions. The grid is detachable.

# DINNISSEN

P O W D E R   T E C H N O L O G Y





BS-1 WITH DOCKING SYSTEM

## TECHNICAL DATA

Material of construction:

stainless steel, normal mild steel or combination of both.

Drive, vibrating bottom:

1 pcs. E-motor, P = 0,5 kW.

Capacity:

approx. 15-20 Big-Bags/h. (depending on product properties).

Dimensions of Big-Bags (standard unit):

Max. height: 1000-1900 mm.

Max. width: 1000 mm.

Max. length: 1000 mm.

Max. weight: 1250 kg.

Diameter outlet spout: 300 mm.

Length outlet spout: 500 mm.



BS-1 WITH DOCKING SYSTEM

Three basic types of the Big-Bag discharge station are available (special designs by mutual arrangement):

- BS-1

Vibrating bottom in support frame.

- BS-2

Vibrating bottom with extended frame to position the hoist device.

- BS-3

Vibrating bottom in extended own frame (upper part) and integrated hoist.



BS-2 WITH CONVEYING SYSTEM



BS-3 BIG-BAG DISCHARGE STATIONS WITH DOCKING SYSTEM AND HOIST

## SELECTION OF AVAILABLE OPTIONS:

- CLAMPING SYSTEM, to achieve a dust-proof connection of the outlet spout (very suitable for hygienic applications and to form a vacuum in the emptied Big-Bag).
- DE-DUSTING UNIT, multiple types and sizes available, attuned to the product.
- PRODUCT DISCHARGE SYSTEM, metering screw conveyors, slide or rotary valves.
- CLOSED HOUSING/CHAMBER for toxic or very dusty powders.
- POWDER DIVERTER VALVE, to avoid contamination of the product by dust/dirt at the outside of the Big-Bag.
- VACUUM SUCTION/DISCHARGE OF RESTS, by connecting to a pipe with integrated control valves, there will be a vacuum on the Big-Bag. In this way an efficient discharge of rests (no air/dust contents) will result.
- ROLL UP SYSTEM, for empty Big-Bags and/or Inliner to be placed separately or directly on top of the discharge position.
- MODIFIED VIBRATING BOTTOM, to activate very bad-flowing products additionally.
- FEEDING ROLLER CONVEYOR (automatically), for Big-Bags on pallets (incl. pallet stacker).
- MOBILE UNIT.
- WEIGHING SYSTEM, to monitor the product flow.
- EXPLOSION-PROOF DESIGN, according ATEX-directives.
- CONTROL SIFTING, with our centrifugal sifter machine.
- CUTTING SYSTEM, to discharge single-trip Big-Bags.



BS-2 MODULE WITH WEIGHING SYSTEM

### Product intake/discharge:

- Silo-storage/bulk weighing
- Bag-emptying machines
- Big-Bag emptying stations
- Package-emptying machines
- Loading/Dust exhaust systems
- Depalletisers and bag-separation

### Powder conveying systems:

- Chain conveyors
- Flight conveyors
- Bucket elevators
- Screw conveyors
- Belt conveyors
- Pneumatic conveying systems
- Discharge bottoms

### Dosing-/Weighing systems:

- Dosing screw conveyors
- Grid valves, modulating
- Feeding rolls
- Big-Bag filling stations
- Micro-components dosing carousel
- Batch-weighing systems
- Continuous dosing (volumetric/gravimetric)

### Control-sifting:

- Centrifugal sifters
- Vibrations screens
- Impurity separation
- Product/empty bag separation

### Milling/Crushing/Breaking/Cutting:

- Hammermills
- Lump breakers
- Paper/plastic cutting machines (Shredders)
- Crumblers

### Mixing:

- Vertical mixers
- Horizontal mixers
- Paddle mixers
- Paste mixers
- Continuous flow-mixers
- Vacuum core coaters