

ADVANCED POWDER HANDLING SOLUTIONS  
for food industry and bakeries

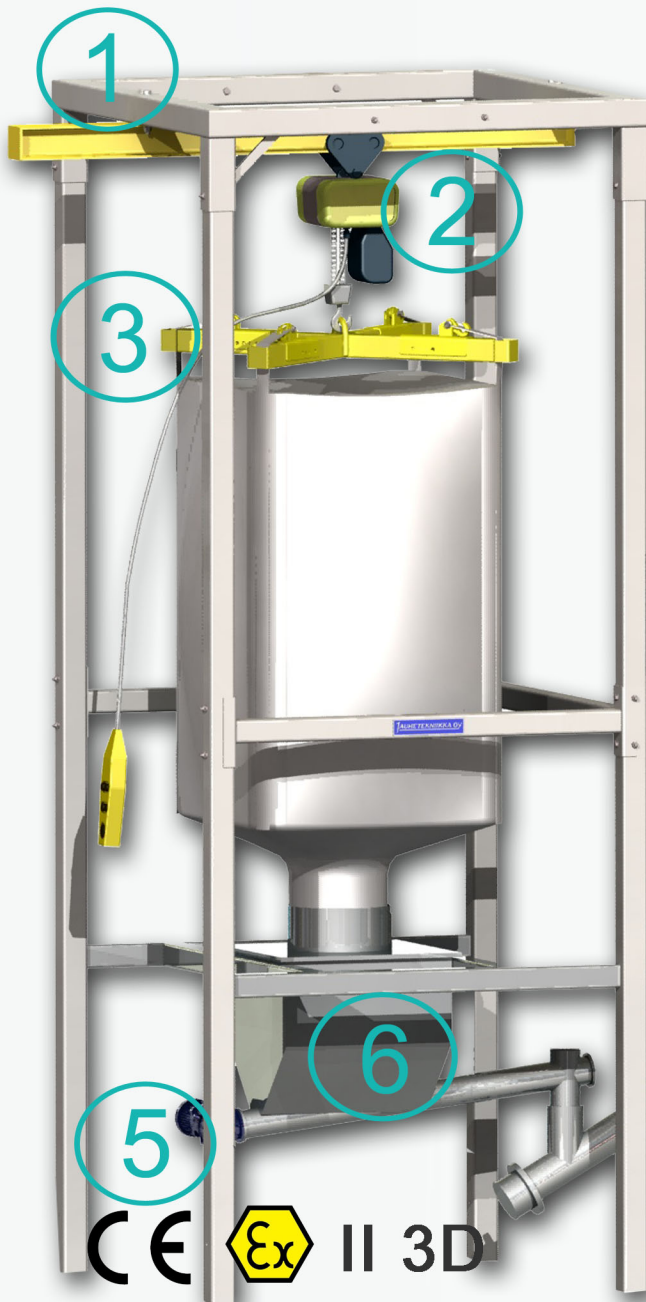
# BigBag discharge station SC1000

For discharge of bottom valve bigbags



**POWDER**  
**TECHNIC**

## Features and benefits



### 1. Support frame SF1000

- ▶ Heavy-duty, 90 x 90 mm structural steel bar frame guarantees that the product is safe to use
- ▶ With the Adjustable mounting kit the frame is easy to install even on un-level surfaces

### 2. GIS electrical hoist with manual trolley

- ▶ Housing: Cast aluminium housing with maximum solidity (no plastic material)
- ▶ Motor: 2-speed motor designed for tough working conditions
- ▶ Transmission :Permanent lubrication for wear resistant operation
- ▶ Brake : Maximum safety (construction: brake after slipping clutch)
- ▶ Control switch :With built-in support wire as a standard
- ▶ Swiss made: 2 years guarantee



### 3. Lifting Frame LF1000

- ▶ Safety hooks with latches ( mandatory in lifting devices according to EU safety regulations)
- ▶ Suitable for all kind of standard bigbags with 4 lifting loops

### 4. Screw Conveyor with out-side bearings and progressive pitch

- ▶ hygienic, no risk of bearing grease leakage into product
- ▶ longer life time for the bearings
- ▶ progressive pitch of screw conveyor ensures optimal dosing accuracy

### 6. BigBag Discharge hopper

- ▶ Construction material: Stainless steel with polished welding seams -> hygienic, fulfils food industry's quality demands
- ▶ Safety support ring supports the bigbag's weight ensuring safe operation when the bottom valve is being opened
- ▶ Dosing screw with variable pitch -> prevents dosing screw from jamming at start-up

### 5. Fulfils EU safety and ATEX regulations

- ▶ The product fulfils all EU safety and ATEX requirements. The product has a CE marking to declare that it meets harmonised European standards.



## MAIN BENEFITS

### Improves productivity and work ergonomics

- ▶ The only work-phase is changing the FIBC and pressing the start button.
- ▶ Your personnel can do more productive work while the machine takes care of the dosing

### Improves end-product quality

- ▶ with weighing equipment you will get a precise weighed batch or continuous weighed dosing ( loss-in-weight dosing)

### Improved ergonomics and working conditions:

- ▶ Minimizes the need of stressful and unergonomic handling of material.
- ▶ Effective dust-extraction removes dust when the FIBC is being changed

## Overview

Model SC1000 is designed for safe and reliable discharge of bottom valve bigbags ( FIBC's) up to 1000 kgs. Standard features include a heavy-duty support frame, electrical hoist with a lifting frame for the bigbag and a bigbag discharge hopper with a screw conveyor at the bottom.

## Suitability

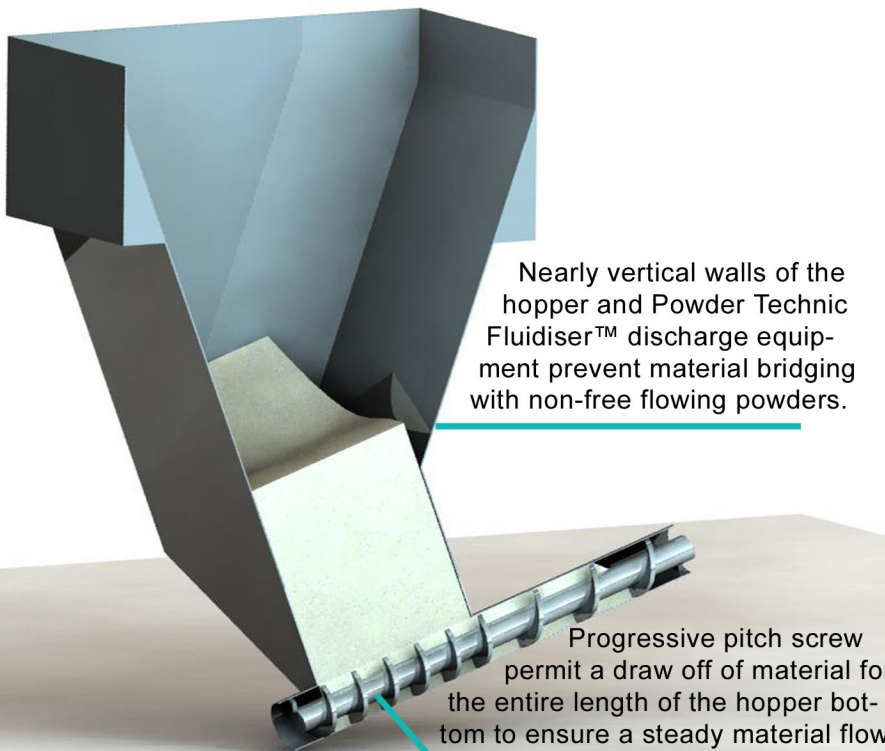
The Powder Feeder F100 is suitable for all dry powders and granulates, free flowing and non-free flowing.

## Dimensions tailored according to your specifications

The height of the support frame, the length of the screw conveyor and its capacity will be designed according to your specifications to ensure you get a perfectly suitable product.

## Increase automation level with weighing equipment

With added weighing equipment the SC1000 can dose either precise batches ( X kg) or dose continuously with loss-in-weight principle ( X kg/min).



Nearly vertical walls of the hopper and Powder Technic Fluidiser™ discharge equipment prevent material bridging with non-free flowing powders.

Progressive pitch screw permit a draw off of material for the entire length of the hopper bottom to ensure a steady material flow.



Weighing equipment contains an alpha-numeric operation panel with LCD display that makes the FIBC discharge station extremely easy to use.

## Technical specifications

**Manufacturer:** Powder Technic Ltd.

**Suitability:** All dry powders and granules ( protein powders, flour, ground coffee, salt, flakes.etc).

**Lifting capacity:** 1000 kg

**Support frame SF1000**

Construction material: 90x90 mm structural steel bar with epoxy paint coating

Height: standard model: 4000 mm, other sizes according to customer's specifications

Width: 1600 x 1600 mm

Hoist support bar: HE120A, length: 2400 mm

**GIS GCH electrical hoist**

lifting capacity: 1000 kg

manual trolley ( electrical on request)

**Lifting Frame LF1000**

lifting capacity: 1000 kg

construction material: structural steel, epoxy paint coating

suitable for all standard size bigbags ( FIBC)

**BigBag Discharge hopper**

construction material: Stainless steel with polished welding seams

Volume: 150 l

Dosing capacity: standard model: up to 3 t / h

other capacities on request

**Fluidisation equipment:**

Polyester coated stainless steel sheet inside the hopper

Air regulator/filter unit ½" pre-assembled and pre-set

Timer unit 24VC and magnetic valve 24VDC

**Dosing accuracy in batch dosing:**

+/- 10..20 g depending on the product

**Dosing accuracy in loss-in-weight dosing:**

+/- 0,5 % in 30 min cycles at nominal dosing rate

**Control system for volumetric dosing (standard)**

Level switch controlled automatic drive

Manual drive: Start/Stop

Potentiometer control for dosing rate adjustment

**Interface:**

400 V, 25A

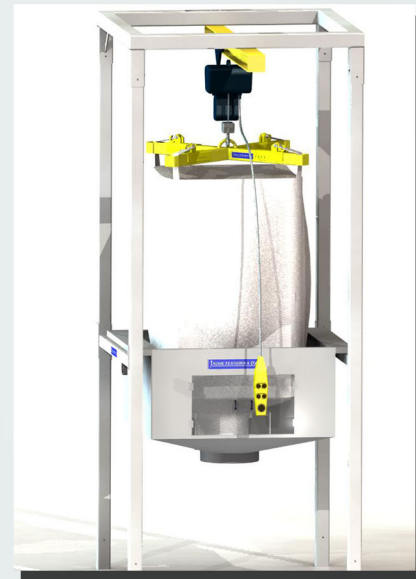
compressed air 6-7 bar

## Accessories



**ELECTRICAL TROLLEY**

- manufacturer : GIS
- 2 speed drive, brake



**DUST EXTRACTION CABINET**

- construction material :Stainless steel
- for a dust proof emptying of big bag
- opening of the big bag valve knot through hinged doors
- safety support ring to support the weight of the big bag when the valve knot is being opened
- dust extraction canal around the cabinet's inner wall ensure efficient dust extraction
- a dust extraction outlet for the connection of the external dust extraction unit