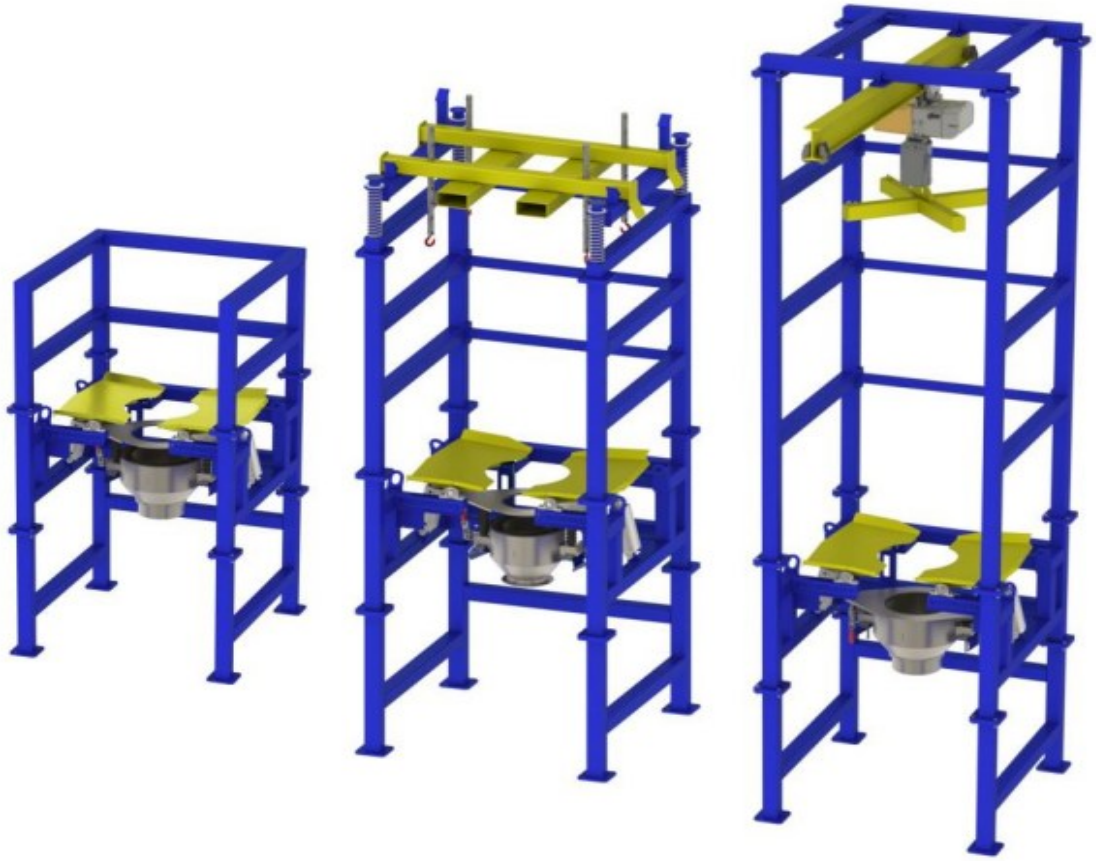
OPIS

BIG-BAG unloading stations are used to empty large bags in a controlled manner. The device ensures a safe, efficient, and dust-free process with minimal employee involvement.

The entire structure is made of powder-coated **carbon steel** or, optionally, 1.4301 (AISI304) or 1.4404 (AISI316L) **stainless steel.** Components that come into contact with the material are made of stainless steel.

The design allows connection to pneumatic transport, screw, vibratory or belt conveyors installed under the docking station. The tight connection between the bag and the station makes the emptying process dust-free, and the **massaging plates** facilitate free flow in the case of difficult-to-flow materials. In addition, the station can be connected to a dust extraction system.

Each unloading station is **designed individually**, on request and according to customer requirements, for different sizes and types of bags - regardless of whether it is a complete dosing unit with a station, the station itself or only part of it.



MODEL BSB-SCH

The station is adapted to work with an electric hoist and a crane available on the premises.

MODEL BSB-WCH

BIG-BAG transport is carried out using a forklift truck. In addition to the massaging plates, the unloading of the bag is additionally supported by springs.

MODEL BSB-ICH

The bag filled with the product is transported to the docking station using an **electric chain hoist** mounted on a crane, which is an integral part of the station.

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SPECIFICATION

- Structure height:
  od 4000 do 6000 mm
- Structure width x length:
  1500 x 1500 mm
- Maximum bag width:
  1000 mm
- Maximum bag height:
  2000 mm
- Structure weight:
  approx. **1000 kg** (depending on structure height)
- Maximum load capacity:
  2000 kg
- Loading of bags with a throat diameter of:
  350 - 500 mm

ADVANTAGES

- Suitable for a wide range of products
- Safe, efficient, and dust-free bag emptying process, even for materials that are difficult to flow
- Reduction of losses associated with spillage
- Minimal personnel involvement required for operation
- Ease of use
- Adaptability to customer needs and bag dimensions thanks to modular design

OPTIONS

- Weighing system
- Knife gates
- Possibility of connecting a dispenser under the docking station for further material feeding
- Manufactured in accordance with food industry standards, using materials compliant with FDA requirements
- ATEX version available
- Option to use a vibrating hopper instead of a docking station with massaging plates (for free-flowing and non-dusting materials)

INDUSTRY

- Chemical
- Fertilizes
- Food
- Feed
- Other similar industries

TYPE OF MATERIAL

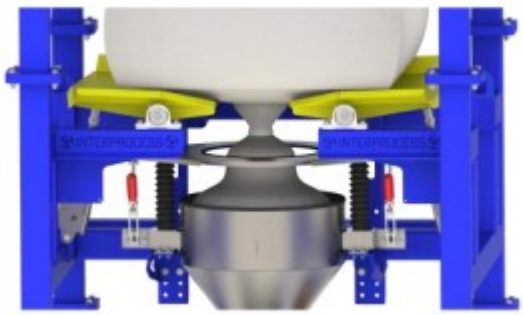
- Coarse powders
- Fine powders
- Grains
- Granules
- Various types of free-flowing bulk materials

EXECUTION

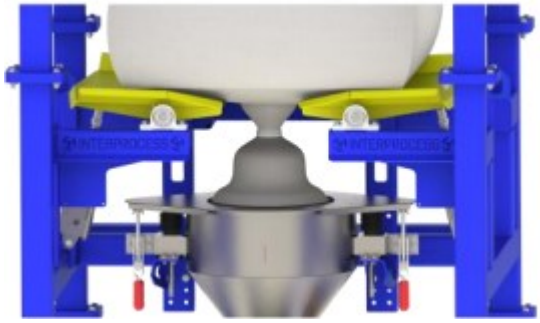
- Components in contact with the material are made of stainless steel
- Frame made entirely of powder-coated **carbon steel**
- Optional stainless steel version 1.4301 (AISI304) or 1.4404 (AISI316L)

QUICK AND EASY BAG DOCKING PROCEDURE

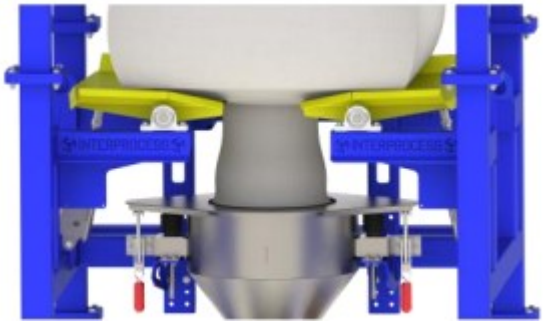
1. Lift the docking station cover.



2. Place the BIG-BAG on the docking station using a chain hoist or forklift. Pass the bag spout through the cover and place it on the inner tube of the docking station.



3. Close the lid.



4. Untie the neck of the bag.

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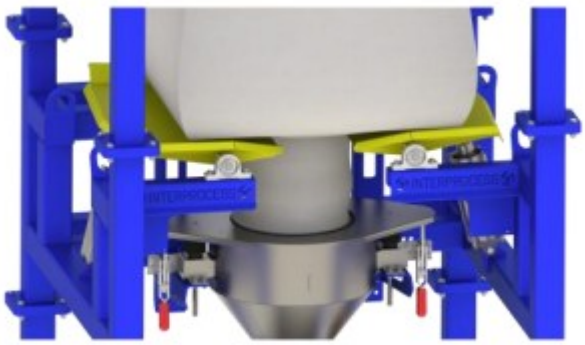
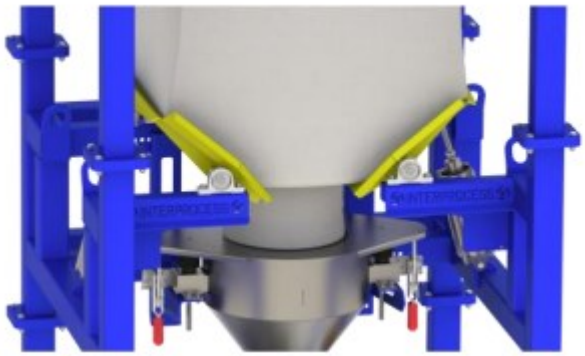
MASSAGE PLATES

Our devices ensure the unloading of various types of bulk materials—even those that are **difficult to flow**. All this is thanks to **massaging plates** that constantly shake the bag during the emptying process

Commonly used vibrators can often compact the material, which only makes unloading more difficult. **Massage plates controlled by pneumatic actuators gently shake the bag**, allowing it to empty almost completely.





ADDITIONAL ASSISTANCE WITH UNLOADING BAGS

In the case of the **BSB-WCH** model, the station is equipped with **springs** that lift the bag as the weight in the BIG-BAG decreases. **This further assists the unloading process.**

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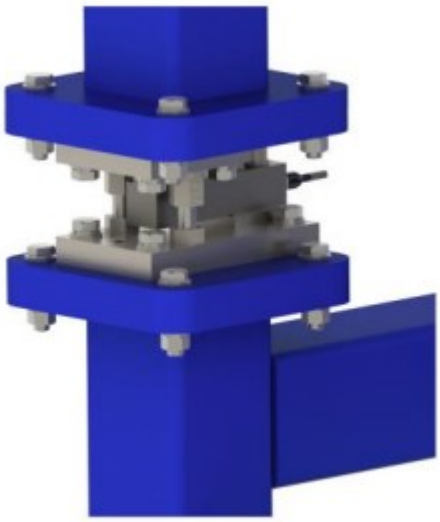
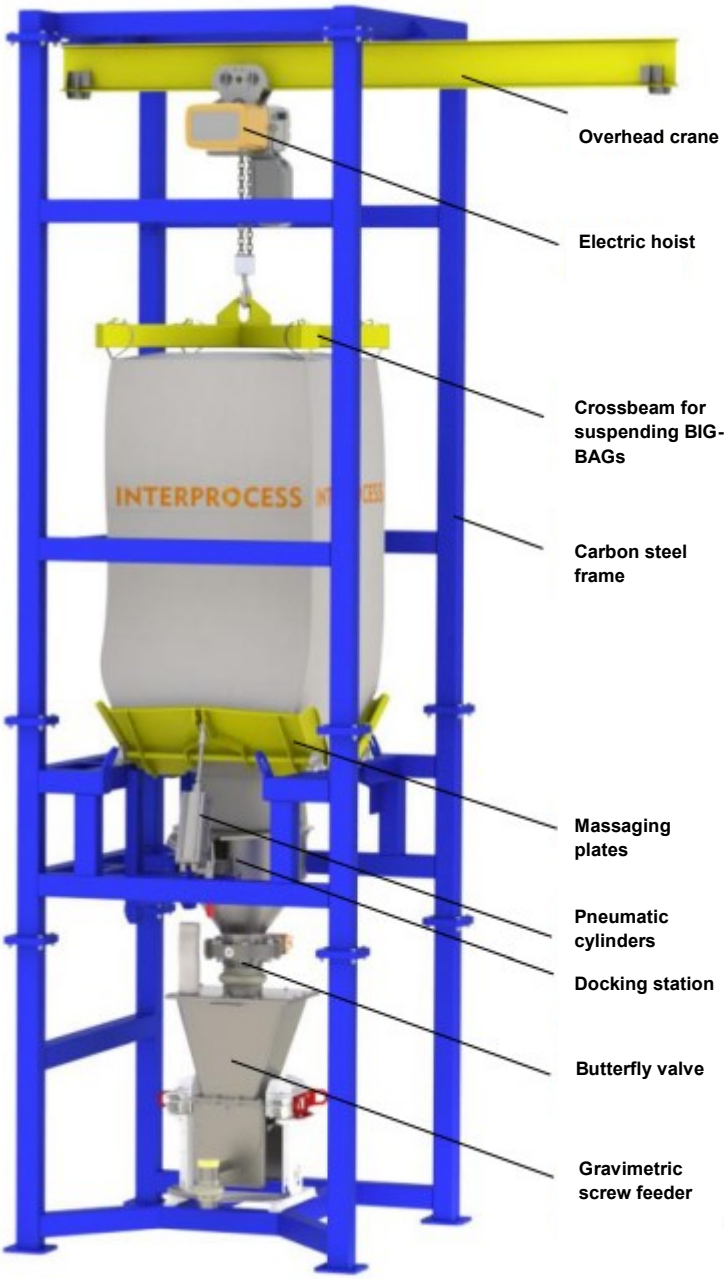


WEIGHING SYSTEM

The BIG-BAG unloading station can be additionally equipped with a weighing system consisting of four strain gauge sensors and a control unit. This allows us to check the weight of a full bag and control the unloading process. A control system can also be supplied with the station.

VARIOUS CONFIGURATIONS

Our space allows connection to various types of devices for further feeding of material after emptying the BIG-BAG. This can be, for example, pneumatic transport, a screw conveyor, or a dispenser. If we add control and weighing systems to this, we can obtain a complete solution for dust-free, automated, and controlled unloading of BIG-BAG bags and further transport or dosing of bulk material.



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