Bimech

BAG DUMPING STATION

General description

The system has the purpose of loading powders into process machines, bins or drums.
The unloading machine is designed to be mobile / stationary and can be used by gravity or connected with a pneumatic conveyor that brings the powders to the loading point.
The big advantage of the system in question is however the possibility of having a completely closed and easily washable process.

The BDS is divided into two main areas:

» bag unloading / handling area;
» dust collection area and discharge connection.

The two areas are separated by a grid that prevents the packaging from falling into the area below and acts as a work surface for the operator who must open them from the outside to facilitate the fall of the product.
The lower area will have a truncated pyramid shape with an opening angle of about 60 ° to facilitate the sliding of the product. The volume of the collection area is approximately 200 liters.
On the bottom of the trochopyramidal hopper of the Bag Dumping Station, in its basic configuration, there will be a connection with a DN 50 flexible hose (not included in the supply).

The bag emptying system can be positioned on a gantry or on a upper level to be able to unload by gravity in line even in final bins positioned on the scale. In addition, the bag emptying station can be connected to a dosing system to have a precise final weight partition.

Customized solutions can be designed and supplied as the dispensing is very different for every need and type of production.

The main construction features are:

- wide bending radius without dead spots or difficult to clean parts
- ferrule for the connection of a dedusting system supplied with stainless steel filter and counter-current cleaning system (supplied on request)
- welds on the body performed with butt joints for a better quality and finish
- the welds are pickled and brushed.
- frame with circular / square cross section
- hopper with 60 ° inclination compatibly with the overall dimensions
- front opening with stainless steel door is a standard feature.
- grid to place the bags to be opened.
- flanged connection on the bottom of the unloading station for the installation of a hopper for dust suction and air inlet for product fluidization
- gaskets in food-grade silicone or other material compatible with the substances treated.
- the frame, with a simple, but functional design, is welded to the body with 4 legs on wheels, two with pivoting brakes and two fixed.

Materials:

- the body of the unloading station and the hood made of AISI 316 stainless steel.
- the surface finishes are mirror polished inside and shot blasted outside.
- the frame of the BDS is made with tubular bars with a circular and / or square section completely made of micro-blasted AISI 304 stainless steel.

Available optionals:

- manual roller conveyor to introduce the bags inside the bag emptying station.
- side entry with dust-tight door.
- outlet for empty bags unloading.
- bag lifting system.
- drum lifting system.
- manual butterfly valve DN 150.
- automatic butterfly valve DN 150 with pneumatic actuator on the exhaust system.
- pneumatic transfer hopper for connection to a pneumatic conveyor for subsequent loading of a process machine.
- integrated vibrating screen - there is the possibility of integrating a vibrating screen in line to sift the product and discard any lumps or foreign bodies present in the product. Various sizes of sieves are available according to specific needs.
- integrated lump breaker - it is available to be installed at the unloading of the bag emptying station in case of products that tend to agglomerate and create hard lumps.

CONTACTS

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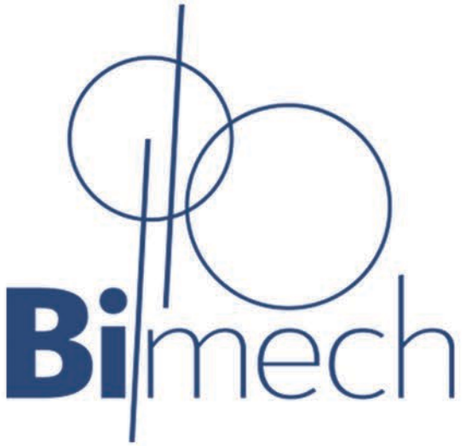

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