

Container Filling

Station



Manual Version

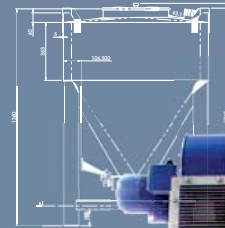
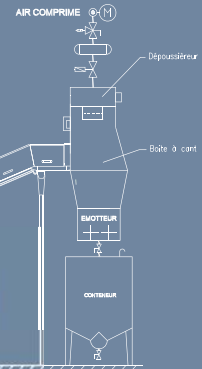
Objectives: manual and completely tight connection

EASY CONDITIONING OF BULK AND POWDERED MATERIALS

The IBC Containers® filling station offers the main expected functions regarding the transfer by gravity of your materials. This station has been designed to meet the "connection and filling" demand. It was designed to ensure a completely tight filling of Intermediate Bulk Containers. The system provides a fully contained transfer of your material in the container to avoid any loss of product.

TECHNICAL SPECIFICATIONS

The filling system is adapted to materials that are not fragile, at low flow rate and to enable an easy centering of the filling head on the container.



Manual sack dump system



Filling head manually operated

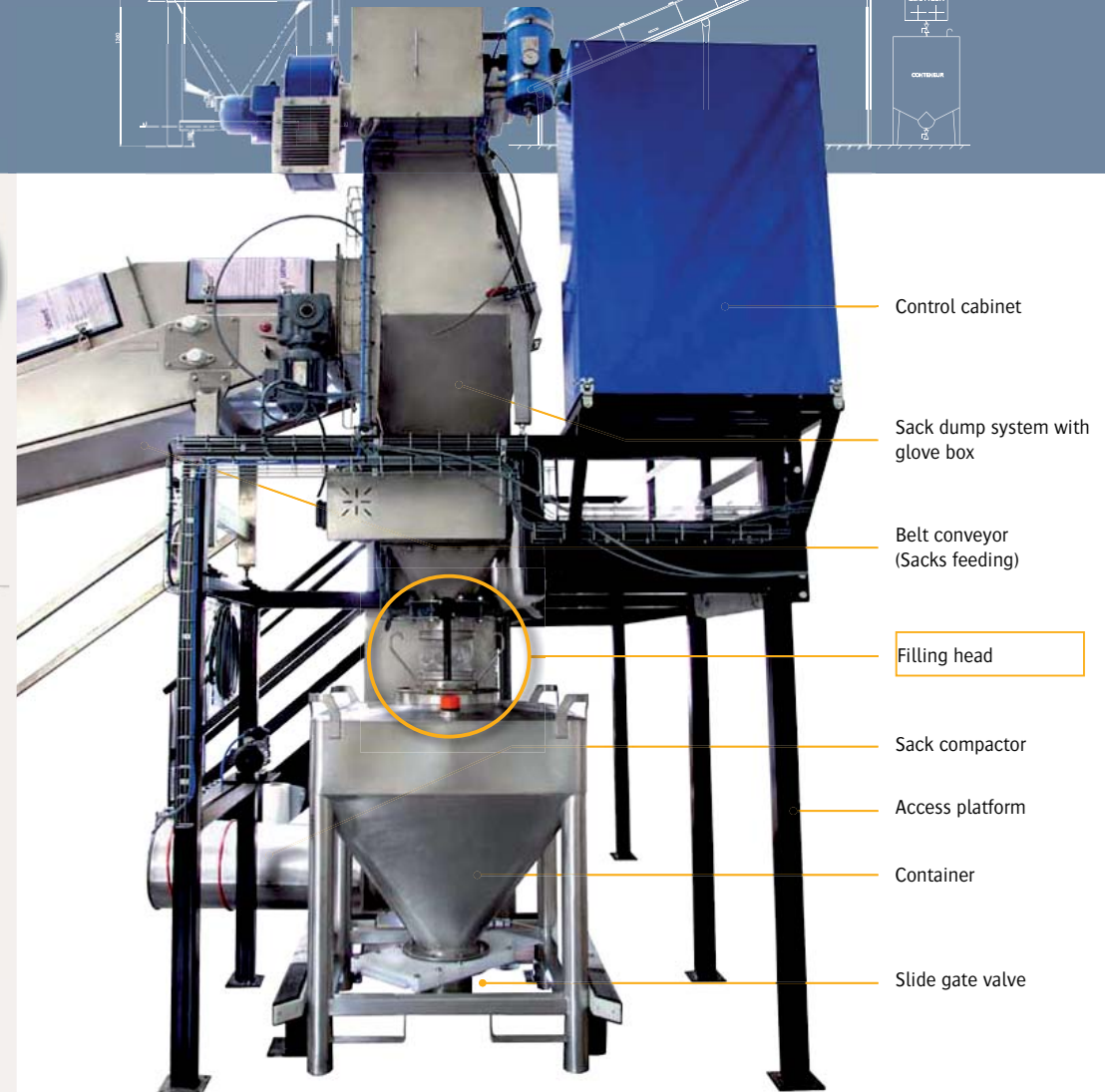
Flexible fitting adapted to weighing procedure



Weight control scale

➤ Sack dump system dedicated to an accurate filling of containers

This container filling station is specially designed to perform the conditioning of premix. The ergonomic sack dump system ensures a tight connection without interference by the container weighing. The container is placed on a scale in order to ensure control of the introduced weight. The pre-weighed materials are mixed then.



Control cabinet

Sack dump system with glove box

Belt conveyor (Sacks feeding)

Filling head

Sack compactor

Access platform

Container

Slide gate valve

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Automatic Version

TO GUARANTEE A SECURED AND HYGIENIC FILLING OPERATION

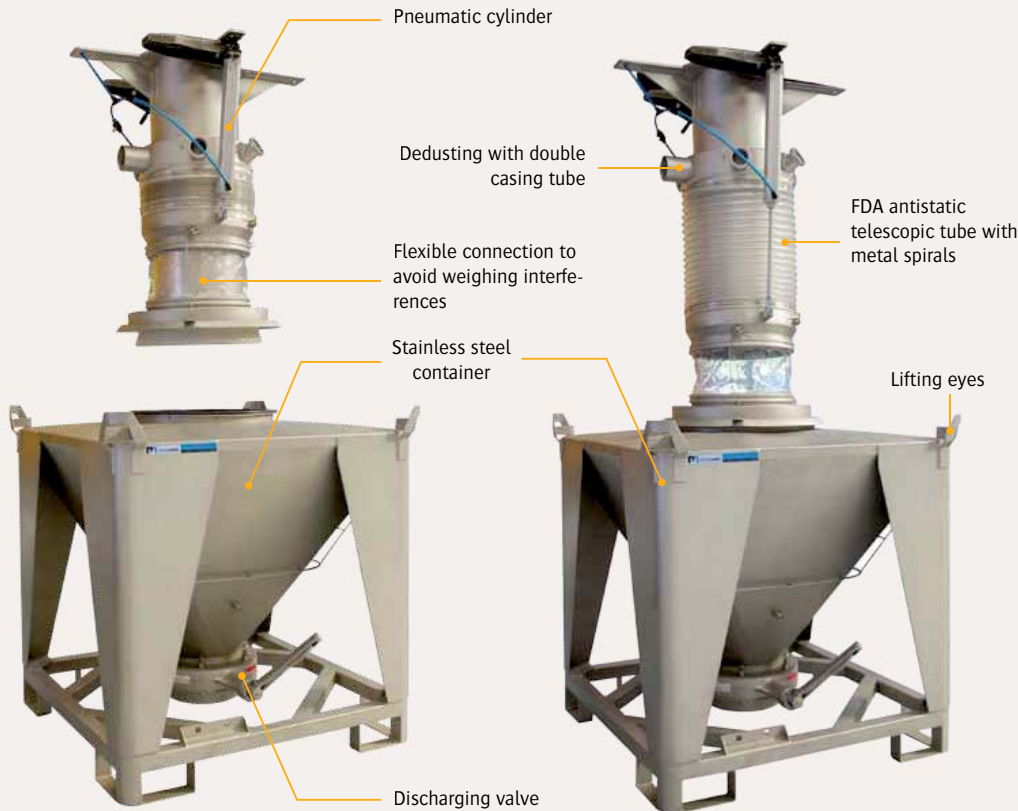
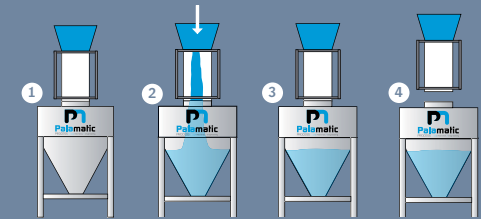
This container filling equipment allows automatic and contained transfer of bulk materials without systematic intervention of an operator to remove or set up the docking tray. The automatic filling of PALAMATIC PROCESS containers significantly reduces the operator's level of exposure to potentially dangerous materials. This automated system was designed to provide a high standard of hygiene, safety, ease of cleaning and maintenance.

SPECIFICATIONS

The container filling system is positioned under your hopper. It consists of a telescopic tube and a docking tray. The docking of the tray is provided by two pneumatic cylinders that ensure a tight connection. The control of the connection system is carried out by the operator. Depending on the treated material, the filling head can be fitted with an inflatable seal which closes the top lid to avoid any dust emanation during the filling process. Degassing is ensured by the double casing tube.

OPERATING MODE

1. The filling head is ready to cover the container
2. The filling station is connected with the container by means of telescopic connecting sleeve (food grade manufacturing)
3. The transfer of the material into the container is carried out by gravity
4. The transfer is stopped from the control cabinet
5. The filling head comes off the container



Sealing with inflatable seal to avoid any dust emanation and product loss



Dust cap seal to ensure containment and to allow high flow rates

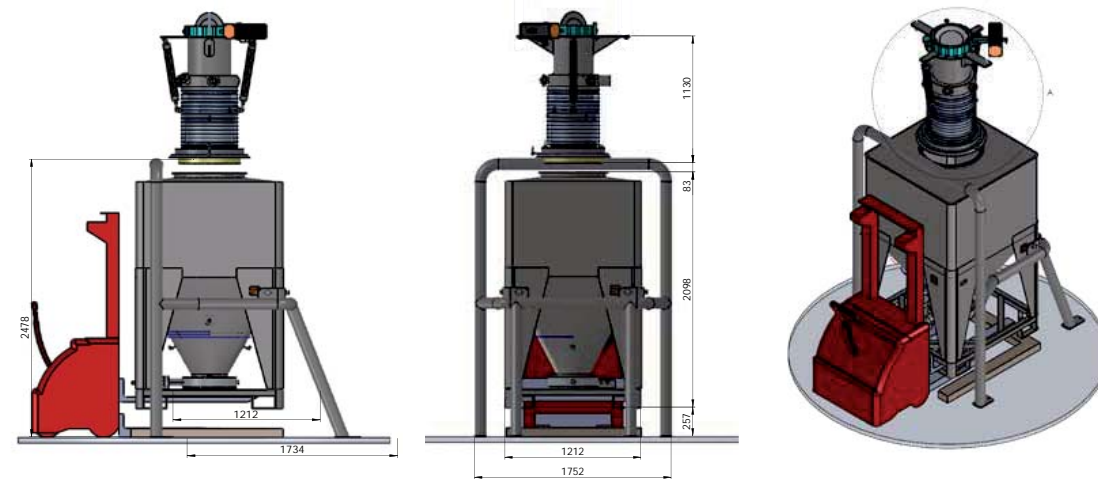


Double casing



Fake lid with inflatable seal for total containment

Advantages



Case Studies

▶ AUTOMATIC DOSING AND FILLING

Customer: Manufacturer of facade coating

Materials: Pigments

Installation details:

The container, set on a motorized track, is positioned under the different dosing devices according to the batch recipe. The containment is performed by a dedusting ring also avoiding weighing interference.



▶ DOSING BELOW TWO BIG BAG UNLOADING SYSTEMS

Customer: Alloy manufacturer

Products: Metallic powder

Installation details:

The 1.200-litres IBCs, manufactured from 304L stainless steel, are fitted with a butterfly valve. Two FIBC unloading systems are equipped with a lump breaker and a dosing screw to guarantee the filling of the IBC. The weighed roller conveyor ensures the handling and the dosing accuracy.



▶ EASY DOSING AND CLEANING

Customer: Food spices packing

Materials: Spices, curry, paprika

Installation details:

This process enables the collection of spices mixings and their sieving before the conditioning phase. All the materials are processed by a rapid change of the screen.



▶ PREMIX PREPARATION

Customer: Induction on canvas

Material: Premix

Installation details:

The VARISLIT® automatic sack discharging system, that is a part of the PALAMATIC PROCESS range, ensures the discharging of the premix. The container is automatically positioned by a motorized conveyor under the discharging system. The deconditioned powder falls by gravity into the container. A dedusting unit ensures a healthy working environment.

