

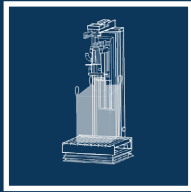
Big Bag handling

Big Bag filling and weighing



Advanced weighing and dosing systems for static, dynamic, and continuous weighing.

jesma[®]
weighing solutions



Big Bag handling

JesFill manual

Simple construction, manual big bag weighing station. Standard construction including platform with adjustable arms, platform scale.

Control type IT3 can be offered upon request.

Excluding frequency converter, excl. filling system.

Specifications

Dimensions	(HxWxD) 2600x1500x1250
Capacity	300 kg and 0,1 kg division 600 kg and 0,2 kg division 1500 kg and 0,5 kg division.
Indicator	IT3 /(Excl.)



JesFill 1000/1500

The JesFill big bag weighing unit for filling of big bags is fully electronic weighing system consisting of a valve, a bag clamp, a frame for lifting and lowering of the bag, a driven roller path (weighing section), a blower, a flap-box and a rack.

The arms on the bag clamp are activated / closed via the capacitive sensors on each side of the filling tube. Which activates when the operator places the bag on the bag clamp.

The product inlet is operated by a pneumatic valve, which is regulating and stopping the intake of the material flow.

The JesFill 1000/1500 is delivered Incl. Weighing Indicator Type IT6000E with bag software.

Operating principle

- The operator places a bag on the clamp and the upper side of the operator's hands actuates the two capacitive sensors on the bag clamp, closing around the Big-Bag inlet and fixating it onto the filling chute.
- The blower motor starts and inflates the Big-Bag in 8-10 seconds.
- Feeding valve opens for coarse dosing.
- Blower motor stops and air extraction is initiated.
- When the load in the bag reaches the fine dosing limit air extraction stops.
- When the final load value is reached, fine dosing stops, and the bag clamp can be opened.
- The bag is now ready for removal with forklift.
- When pallet / bag is removed, a new bag can be mounted by the operator for filling.

Specifications

Max. Capacity	1000/1500 kg with 500 g division
Min. Capacity	50 kg
No. of bags	Depends on operator
Trade approval	Possible - OIML R61
Material	Product wetted parts in AISI304, remaining construction: Mild Steel.





JesBag-1000

JesBag 1000

Complete unit for weighing and filling of big bags. The unit consists of a pallet magazine, automated roller, conveyor, filling station with built in weighing function, and a roller conveyor with room for 3-4 filled big bags and is delivered including a complete control cabinet.

Optionally the JesBag 1000 can be delivered including weighing in pre-bin, where the filling sequence is started when the requested amount is ready in the weighing bin.

The Big bag filling system can be delivered as a complete system incl. pallet magazine and subsequent roller conveyor for storing up to 16 filled big bags. The system has an hourly capacity from 20 to 50 big bags per hour depending on the size of the big bags.

The pallet magazine and the conveyor system can be equipped to handle different pallet sizes if required.

When the system is ready for mounting a new big bag, the filling unit is lowered and the mounting brackets for the back straps are moved to the front, and the mounting can be done in an easy and safe manor for the operator.

The nozzle can thereafter be mounted by simultaneous activation of the two switches on each side of the bag clamp. After the filling of the big bag is completed the bag nozzle and the straps are released automatically.

Specifications

Accuracy	+/- 1.0 % at normal operation (The accuracy will depend on the dosing system, ie. Start stop of the feeding fast/slow)
Max. Big bag size	950x950x2280 max. 1250 kg
No. of Bags	Depends on operator
Trade approval	Possible

Control System

The JesBag 1000 is delivered including a full PLC control system with weighing and filling software.

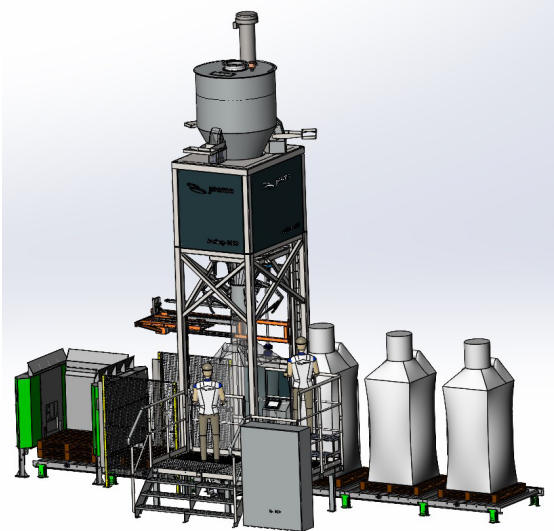
Overall PLC control system based on Siemens S7-1200 series incl. HMI 9" touch panel.

During normal operation, the operator starts the sequence by pressing "start" and when the process is done the operator can close the bag and start the filling sequence for a new big bag.



Operating principle

- The pallet comes from the pallet magazine and stops at the filling station.
- The operator places the strings on the pneumatic hooks and the big bag is fixed with a bag clamp on the filling chute - when the bag is placed correctly, the filling sequence is started by pressing 'start' in the operation panel.
- The big bag is lifted from the pallet and the big bag is inflated by air before filling the bag with material.
- When the bag is nearly full, it is lowered down on the pallet again and the vibrator is started, to remove air holes in the material. Then the bag is lifted again, and the filling continues until the required weight is obtained.
- When the weighing sequence is finished the sack clamp and the straps on the bag are released and the big bag is standing on the pallet.
- The roller conveyor can be activated and transports the big bag further in the process and the operator is ready for a new filling of big bags.



Filling principle - Pre-Bin filling

- The filling sequence is started when the requested amount of material is ready in the weighing bin.
- This opens the butterfly valve and releases the material into the big bag.
- When the weighing bin is empty, the butterfly valve on the weighing bin is closed and the weighing bin can be filled again by the clients dosing system to the requested amount.



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