

04

Rate: 20 to 40 big bags/hr.
Weight capacity: 2 tons/big bag
Objectives: high flow rate & ergonomics of the filling station

AUTOMATIC GROSS WEIGHING BIG BAG FILLING UNIT

The FlowMatic® 04 model is a complete solution for big bags automatic packaging with gross weighing (dosing / packaging / conveying). This model is designed for continuous operation at very high flow rate. The big bag FlowMatic® 04 is fitted with all the options necessary for big bag filling with minimal human intervention.

TECHNICAL SPECIFICATIONS

Flow rate: 20 to 40 big bag/hr.
Manufacturing materials: mild steel, SS 304L, SS 316L
Finishes: RAL 9006, micro-blasted, electropolishing
Installed power: 8.7 kW
Average power consumption: 1.1 kW
Compressed air consumption: 6.8 Nm³/hr.
Service pressure: 6 bars
Input 4 - 20 mA: 1
Input TOR: 14
Output TOR: 13
Weighing precision: ± 500 grams
Dust collecting rate: 300 m³/hr.
Maximum dimensions of big bags:
Length x width x height: 1,200 x 1,200 x 2,400 mm

OPERATING SEQUENCE

AVERAGE TIME FOR A COMPLETE CYCLE: 1 MIN 30 S.

1. The empty pallets are automatically placed on a conveyor
2. The big bag is placed on the filling station
3. The big bag inlet is connected to the rotating filling head by an inflatable gasket ensuring the sealing
4. The height of the filling spout is adjusted by pneumatic cylinder according to the size of the big bag
5. A fan inflates and shapes the big bag
6. Another fan is used to exhaust the air through a reverse jet filter
7. Big bag filling process at high flow rate
8. The big bag is laying on the pallet: bottom shaping (big bag stability during handling process)
9. The vibrating table provides material densification (operated by sequence during the filling process)
10. Weighing control: low filling flow rate to adjust final dosing
11. When the big bag filling sequence is completed, the sealing gasket is deflated and the big bag is automatically released
12. Automatic big bag removal towards storage area (big bag stacker conveyor)



➤ **Conveyor and dynamic buffer storage:** high flow rate and flexible implantation



➤ **Dosing and weighing:** automation and ergonomics of filling station

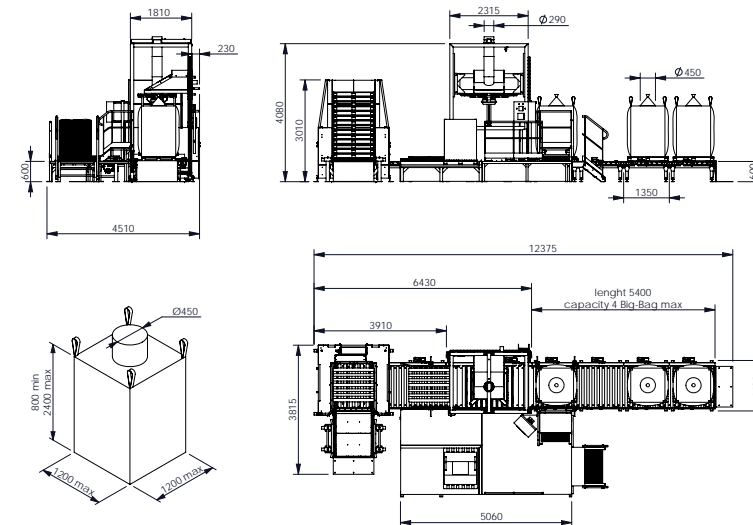


➤ **Automatic big bag release:** process time optimization



➤ **Pallet unstacker** for 15 of multi-format pallets

Advantages



Options



Welder for inner liner



Big bag covering

See all our options on page 28