

**Rate:** 10 to 20 bulk bags/hr.  
**Weight capacity:** 2 tons/bulk bag  
**Objectives:** dosing & flexibility depending on powder characteristics

## CONTAINMENT, DENSIFICATION AND GROSS WEIGHING

The whole structure is adjustable to allow for flexibility and accommodation of various bulk bag sizes. The double-jacketed filling head allows for air-to-material volume balancing and connection to a duct collection unit for a cleaner and safer work atmosphere. The pneumatic tension cylinder, pre-forming fan and vibrating table provides an optimal shape and stability of the filled bulk bags. The vibrating table enables particle densification for materials with a lighter bulk density. By optimizing the shape of the bulk bag and density of the packed materials, it is safer to handle and minimizes the risk of tipping over.

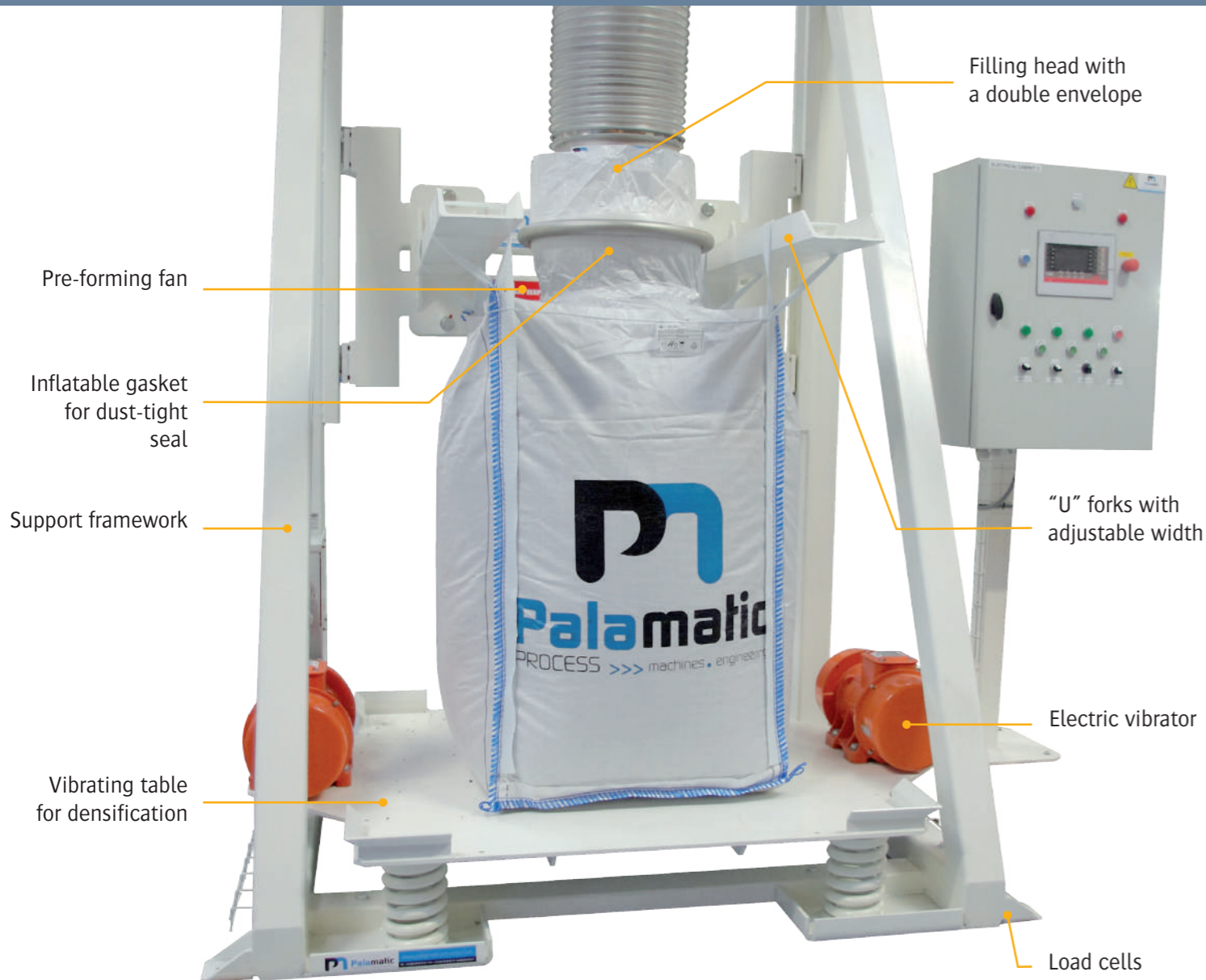
## TECHNICAL SPECIFICATIONS

**Flow rate:** 10 to 20 bulk bags/hr.  
**Manufacturing materials:** mild steel, SS 304L, SS 316L  
**Finishes:** RAL 9006, micro-blasted, electropolishing  
**Installed power:** 1.7 kW  
**Average power consumption:** 0.2 kW  
**Compressed air consumption:** 0.9 Nm<sup>3</sup>/hr.  
**Service pressure:** 6 bars  
**Input 4 - 20 mA:** 1  
**Input TOR:** 6  
**Output TOR:** 6  
**Weighing precision:** +/- 1 lb.  
**Dust collecting rate:** 176 CFM  
**Max. dimensions of bulk bags:**  
**Length x width x height:** 61" L x 61" W x 94.5" H  
**"U" version forks:** allows bulk bag removal with straps (optional)

## OPERATING SEQUENCE

AVERAGE TIME FOR A COMPLETE CYCLE: 3 MIN.

1. The bulk bag is placed on the filling station
2. The bulk bag feed inlet is placed around the inflatable gasket to provide a dust-tight seal and secure the connection to the filling head
3. The pneumatic cylinder adjusts the height of the filling head to accommodate the size of the bulk bag
4. A fan inflates and shapes the big bag
5. The fan switches to exhaust mode and is connected to a dust filtration system
6. Bulk bag filling process at high flow rate
7. The bulk bag is lowered onto the pallet to provide optimal shaping to the bottom of the bag (provides stability for handling).
8. The vibrating table provides material densification (controlled by automated sequence during the filling cycle).
9. Weight control: switch to low flow rate for accurate material dosing
10. Filling cycle is complete. The inflatable gasket deflates and the bulk bags is ready to be removed.



**Dosing and weighing** allows commercial trading of your materials



**Fan and tension cylinder** provides bulk bag preforming and shaping

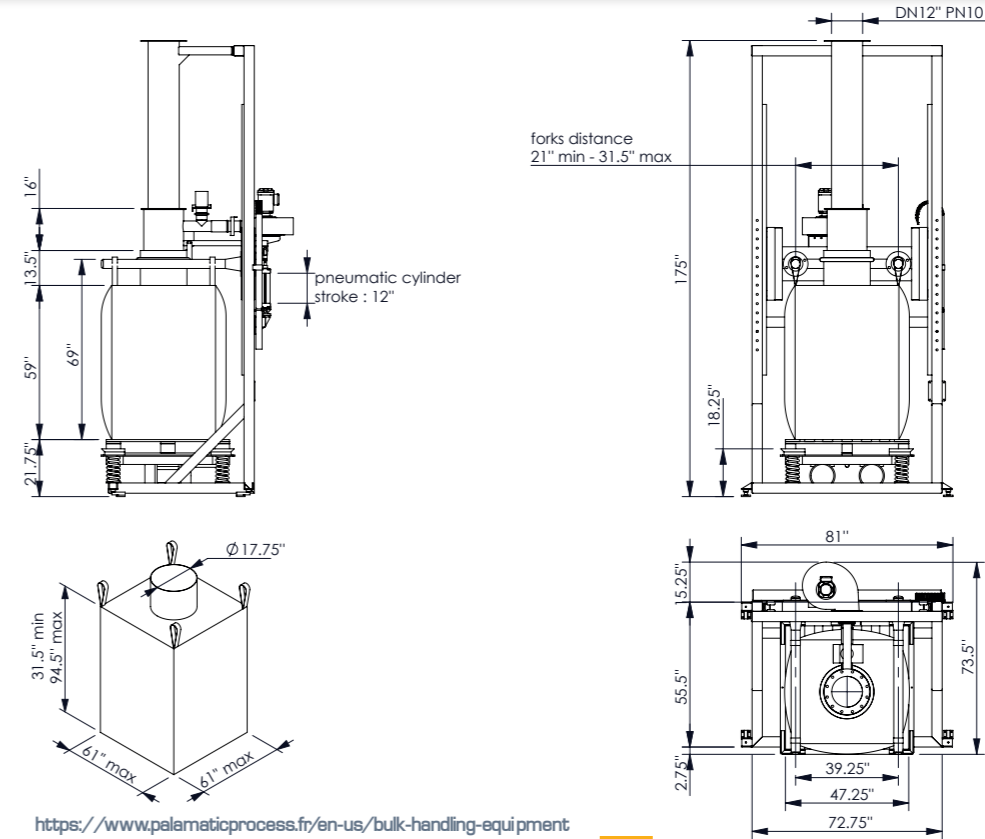


**Vibrating table** provides densification for material volume reduction and stability of the bulk bag



**"U" shaped forks** to remove bulk bag with straps

## Advantages



<https://www.palamaticprocess.fr/en-us/bulk-handling-equipment/big-bag-filling/flowmatic-03>

Download videos & layouts from our website

## Options



Mobile station



Rotating head

See all our options on page 28