

HOSOKAWA/STOTT HYGIENIC FILLING & WEIGHING SYSTEM



Process Technologies for Tomorrow

HOSOKAWA MICRON CORPORATION

HOSOKAWA/STOTT Hygienic Filling & Weighing System

- ① DUST FREE FILLING, PRECISE WEIGHING & EASY OPERATION
- ② MORE THAN 2000 INSTALLATION WORLDWIDE

General

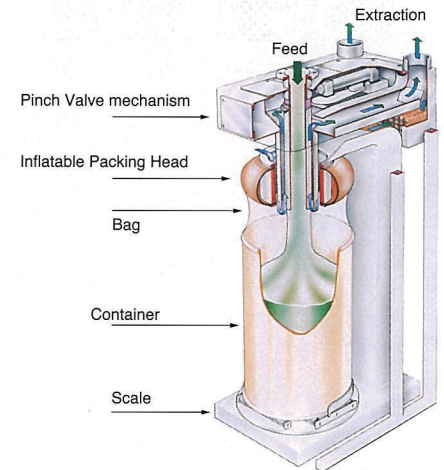
Hosokawa/Stott filling and weighing machine is manufactured and distributed by Hosokawa Micron Corporation under license of Hosokawa Stott Ltd. This machine equipped with Patented inflatable Packing Head can perform filling/weighing with no exhaust of dust, superior accuracy and good operationability. Especially suitable for chemicals, pharmaceuticals, food toxic material or the need to control "Absolutely free from dust emission"

Design Features

Quality, accuracy and superior design are the features of Hosokawa/Stott range of hygienic filling and weighing systems.

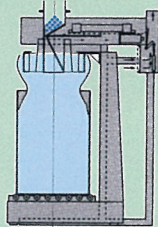
Basic construction shown on the right picture. The packing head inflates itself and effectively seal the bag. The unique construction of the packing head enables the ideal operation for material feeding, weighing and packing without dust-emission.

Hosokawa/Stott Filling & Weighing system

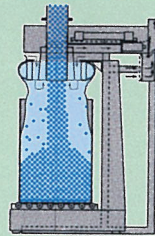


Operation

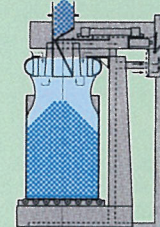
a. The empty container is placed in position, and the bag is held around the packing head.



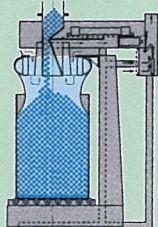
b. The packing head is inflated and seals the bag on the inside. The "Start Fill" is pressed and the machine auto-tares. When the scale reads zero, pinch valves open fully and bulk fill starts.



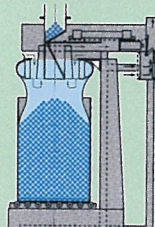
c. The pinch valve close when the weight reaches the set point (normally 90% of required weight). Main feed continues for pre-set time to provide sufficient product for dribble mode.



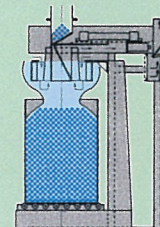
d. After main feed has stopped, pinch valve opens partially and vibrator starts to assist product dribble feed control.



e. On reaching second set point (target weight), pinch valve closes and the filling and weighing is completed.



f. The "Deflation" button is pressed. A damper valve concentrates the extraction on the packing head and is creating a depression in the bag. The bag collapses and can be sealed easily by operator.



1. Standard System Type : STS (For Bags, Fibre drums)



Capacity of weighing machine : up to 150 kgs
Capacity of filling volume : 1 to 80 kgs
Minimum graduation : 10 gram
Material of construction : Stainless steel 304

Surface finish for powder contact part :
200 buffed polish

Compressed air required : 200 liter/min at
5.5kgf/cm²G

Air volume (suction) for dedusting :
- 20 m³/min on removal of bag
- Below 1 m³/min on filling

Power supply : Single phase 100V 50/60Hz

The standard STS system includes the function of

- inflatable seal packing head (PH)
- Air extraction for dedusting
- Pinch valve for accurate feeding
- Control Panel

The accurate feeding can be controlled and achieved by Pinch valve in Packing head system. A common screw feeder, rotary valve can be used as metering devices for this system.

2. Big Bag System Type : BBS (For flexible container bags)

Capacity of weighing machine : 2000 kgs
 Capacity of filling volume : 100 to 1500 kgs
 Minimum graduation : 200 gram
 Material of construction :
 Stainless steel 304
 Surface finish for powder contact part :
 #200 buffed polish
 Compressed air required : 20 liter/min at
 5.5kgf/cm²G
 Air volume (suction) for dedusting :
 - 10 m³/min
 Power supply : Single phase 100V 50/60Hz

The standard BBS system includes the function of

- inflatable seal packing head (PH)
- Air extraction for dedusting
- Control panel

The accuracy of feed rate is controlled and decided by a metering feeder installed before BBS filling system. Pinching valve is available for accurate control of feeding.



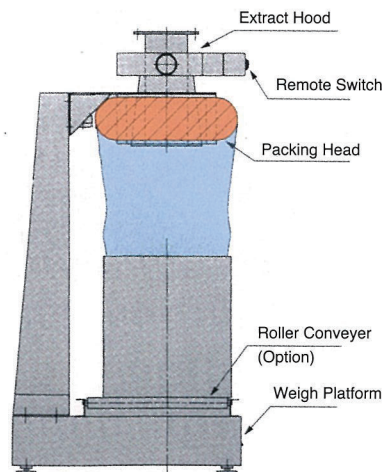
3. Packing Head System Type : PHS (For Bags, Fibre drums)

Capacity of weighing machine : 150 kgs
 Capacity of filling volume : 1 to 80 kgs
 Minimum graduation : 10 gram
 Material of construction :
 Stainless steel 304
 Surface finish for powder contact part :
 #200 buffed polish
 Compressed air required : 20 liter/min at
 5.5kgf/cm²G
 Air volume (suction) for dedusting :
 - 5m³G/min
 Power supply : Single phase 100V 50/60Hz

The standard PHS system includes the function of

- inflatable seal packing head (PH)
- Air extraction for dedusting
- Control panel

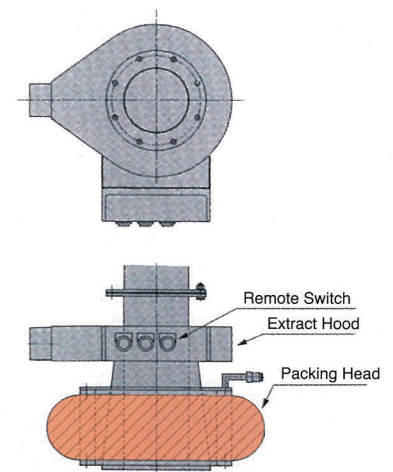
The accuracy of feed rate is controlled and decided by a metering feeding device installed before PHS filling system.



4. Packing Head Unit Type : PHU

Material of construction :
 Stainless steel 304
 Surface finish for powder contact part :
 #200 buffed polish
 Compressed air required : 20 liter/min at
 5.5kgf/cm²G
 Air volume (suction) for dedusting :
 - 5m³G/min on removal of bag
 Power supply : Single phase 100V 50/60Hz

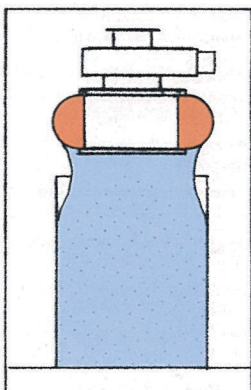
This Packing Head Unit (PHU) is consisting only of inflatable seal packing head (PH) with air extraction port assembly, and does not have weighing function.



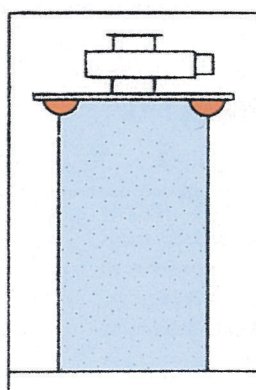
OPTION for Hosokawa/Stott Filling & Weighing System

Packing Head Type

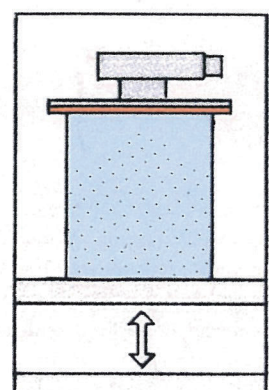
PH Type
(Sideways inflatable sealing)



DS Type
(Downward inflatable sealing)



DSS Type
(Downward solid sealing)





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