

MAGUIRE

Product Data Sheet

The Sweeper™ System Dual Series

The Sweeper™ automatically unloads material from bulk boxes or octabins without human intervention. The Dual Sweeper automatically switches from the empty container to the full adjacent container, without interrupting flow of material.

Design

The Sweeper 'sweeps' the top level of polymer to a slotted pickup tube that vacuums the pellets up through a flexible suction hose to the destination. The whole lower section descends and rotates in a way that forces the pickup tube to vacuum up the material without interruption, including the material that is swept into the corners of the container by the sweeping process. Ultimately, less than 4 Kgs (10 lbs) of material remains in the container.

Operation

A sturdy structural steel stand straddles the bulk box / octabin allowing easy front access.

A set of vertical "rails" carry a "trolley" up and down above the container.

The trolley carries a fixed, standard 38mm, 50mm or 63mm (1.5", 2" or 2.5") aluminum material conveying tube, and is coupled to a second tube below, that rotates.

The lower rotating tube is driven by a gear motor, on demand, at about 1 RPM.

A 1m (3 foot), flexible vacuum hose has a short slotted pick up tube at the end to effectively vacuum up the pellets and transport them to the destination.

Pellets in the center are "swept" to the outside by a cross member, that serves as the "sweeper".

As the vertical tube rotates, the flexible portion is dragged across the top of the pellets, in a swept back trailing manner, reaching into each corner and repeatedly vacuuming pellets from the sides and corners.

A counter balanced spring-loaded cable prevents the weight of the trolley from becoming buried in the resin.

When the first bulk box/octabin runs out, the system automatically switches the material feed to the second full bulk box/octabin.



Dual Sweeper

Key Features

- The Dual Sweeper automatically switches from the empty container to the full container.
- The advantage of a Dual Sweeper means the flow of material is not disrupted during change over.
- Vacuum sensor switch dictates rotation only during material conveying. Manual operation is possible via the 'Jog' feature.
- Material is constantly moved to the vacuum point automatically without human intervention.
- Effective material removal ensures no waste.
- Eco Footprint slightly larger than the bulk container.
- Low torque and rotation speed provide inherent safety – guards are not required.
- Pallet truck / forklift access positions the container .
- Operates on 230 V supply, consuming less than 2 amps.
- Lights indicate when the unit is "ON" and when it is rotating, vacuum detected.
- Any vacuum conveying system can be used. Single phase, three phase or central.

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Technical Data

Model Number	Vertical Clearance	Tube Diameter
SW-4815	1220mm (48")	38mm (1.5")
SW-4820	1220mm (48")	50mm (2")
SW-4825	1220mm (48")	63mm (2.5")
SW-8415	2133mm (84")	38mm (1.5")
SW-8420	2133mm (84")	50mm (2")
SW-8425	2133mm (84")	63mm (2.5")



Vacuum pick up

Information video

Please also watch the Sweeper System informational video on the Maguire website at :-
<http://www.maguire.com/page.php/sweepervideo.htm>

Dimensions

