SWEEPER SYSTEM

Remove manual intervention with smart unloading for gaylords & octabins.

PRODUCT GUIDE

SWEEPER SHOWN WITH OPTIONAL GAYLORD COVER
Maguire Sweeper Conveying Systems - Key Features

Maguire Sweeper conveying systems reduce labor intervention and make automatic unloading as efficient as possible. This translates to fast payback.

**Automatic Material Removal**
- Rotating action moves resin to a slotted pick up tube
- Vacuumed out of container
- No manual work required

**Energy Savings**
- Vacuum system only operates when pulling material
- No manual start-ups or stops required
- Jog button for manual rotation

**Simple Container Placement**
- Easy to insert & remove for fast changeovers

**Reduced Installation And Operation Costs**
- Connect to conveying system
- Connects Sweeper to single phase power supply

**Reduced Waste**
- Effective material removal reduces resin wastage

**User-friendly Operation**
- No heavy-duty hydraulics
- No pinch points
- Low torque and rotation speed for safer operation
- No guards required
How Does The Maguire Sweeper Work?

Reduces human intervention by automatically removing material from material container. System constantly flattens material pile, pushing material to the edge of the resin container and conveying directly.

Sweeper Structure & Design

Sturdy Steel Stand
- Straddles the material container allowing easy front access
- Set of vertical rails carry a trolley up and down above material container

Material Container

Aluminum Material Conveying Tube
- Attached to trolley and coupled to a second, rotating tube below
- Standard 1.5” (38 mm), 2” (50 mm), 2.5” (63.5 mm)

Vertical Rotating Tube
- Driven by a slowly moving gear motor (about 2 RPM)
- 3 ft (1 m), flexible vacuum hose with a short-slotted pick up tube to vacuum up pallets

Sweeper Operation

Sweeper Vacuum Probe
- Rotates on top of material pile in material container until material has been evacuated

Hinged Cross Member Arm / Brush
- Pellets in the center are evenly swept to the outside
- As vertical tube rotates, flexible portion is dragged across the top of the pellets, reaching into each corner

Cross Member Arm Plate
- Keeps pellets even and flat

Flexible Vacuum Hose
- Repeatedly vacuums pellets from the sides and corners
- Pellets are vacuumed up through the material conveying tube and carried to line
- No interruptions
- Less than 10 lb / 5 kg of pellets remain
Maguire offers a range of Sweeper build options and accessories. These range from single options and accessories to complete kit assemblies.

**Full Stainless Steel Sweeper Assembly (Standard)**
- In lieu of standard aluminum parts that are in contact with material
- Available sizes: 1.5” / 2” / 2.5”
- Available for standard and tall Sweeper sizes
- For abrasive materials or special applications (Example: Food or medical applications)

**Stainless Steel Sweep (Bolt-on)**
- Available sizes: 1.5” / 2” / 2.5”
- For abrasive materials or special applications (Example: Food or medical applications)

**Stainless Steel Brush Assembly**
- In lieu of standard aluminum
- For abrasive materials or special applications (Example: Food or medical applications)

**Wider Material Bin Stand Top**
- Increases width of Sweeper stand assembly
- Allows for more room to slide material bin under Sweeper assembly

**Wiper Blades**
- In lieu of brushes
- Made of FDA approved Nylon, direct replacement of two brush assembly
- For use in food and medical grade applications where brushes cannot be used

**Motor Disconnect Switch**
- Automatically turns off gear motor as trolley is raised
- To prevent motor from turning if assembly is lifted

**Sweeper #1**
- Sweeper #2
- Loader

**Dual Sweeper Controls**
- Interconnected controls for Dual Sweepers installations
- Available sizes: 1.5” / 2” / 2.5”
- Available for standard and tall Sweeper size
- Automatic switchover from material container A to container B - allows for longer durations without manual intervention
Ceramic Coated Stainless Steel Sweep
- In lieu of standard aluminum
For highly abrasive materials conveying and special applications requiring a hardened surface finish (Example: Glass filled materials)

Clear Lexan Material Bin Cover
- Material container rigid fold-up cover
Clear rigid covers to allow easy view but stop foreign bodies entering material container

Stand Leg Extensions
- 4 steel legs included
- Raises the Sweeper frame 4” above ground floor
Additional height spacers to provide additional height for different sized material containers

Sweeper Gaylord Blades
- Options available are fabricated in Nylon, stainless steel or thick Lexan blade
Used to allow the Sweeper to slide along the top of the material and not bury itself (Example: Food or medical grade materials)

Low Level Alarm
- Installed on Sweeper unit
- Audible and visual alarms via control box
To signal low level of material when material container is almost empty

Cloth Material Bin Cover
- Stretched over material container
Fabric container covers with clear viewing panels placed on material container - allows easy view but stop foreign bodies entering material container

Wheel Stand Kit
- Set of wheels attached to Sweeper stand
Mobilizes the Sweeper stand to allow for local repositioning around material containers and increase accessibility

Maguire reserves the right to cancel the product or modify the product, product specifications and data without notice to improve reliability, function, design or otherwise.

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>VERTICAL CLEARANCE</th>
<th>DIAMETER OF THE TUBE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>US</td>
<td>METRIC</td>
</tr>
<tr>
<td>SW-4815</td>
<td>48”</td>
<td>1.2 m</td>
</tr>
<tr>
<td>SW-4820</td>
<td>48”</td>
<td>1.2 m</td>
</tr>
<tr>
<td>SW-4825</td>
<td>48”</td>
<td>1.2 m</td>
</tr>
<tr>
<td>SW-8415</td>
<td>84”</td>
<td>2.1 m</td>
</tr>
<tr>
<td>SW-8420</td>
<td>84”</td>
<td>2.1 m</td>
</tr>
<tr>
<td>SW-8425</td>
<td>84”</td>
<td>2.1 m</td>
</tr>
</tbody>
</table>

Combine with **GHL Loader Series** for complete material container unloading package.

**Technical Specification**
Where To Find Us

With our extensive network of agents and distributors across the globe, we aim to support our customers locally as much as possible.

Contact Our Teams

Maguire USA
Aston, PA, USA
T: +1 610 459 4300
F: +1 610 459 2700
E: info@maguire.com

Maguire Canada
Ontario, Canada
T: +1 905 879 1100
F: +1 905 879 1101
E: info@maguirecanada.com

Maguire IMEA
Dubai, UAE
T: +971 4 881 6700
E: info@maguire-imea.com

Maguire Europe
Staffordshire, UK
T: +44 1827 338 280
F: +44 1827 338 285
E: info@maguire-europe.com

Maguire China
Shanghai
T: +86 21 5882 3410
F: +86 21 5882 3420
E: amber@maguirechina.com

Maguire Taiwan
Taichung City 435
T: +886 4 2658 1535
E: mptw.mgmt@maguire.tw

Connect With Us:
@MaguireProducts
Maguire-Products
MaguireProducts

Innovations For Raw Material Handling For Over 40 Years - Blending, Drying, Feeding & Conveying.
WE FOCUS ON SOLVING PROBLEMS EFFICIENTLY FOR OUR CUSTOMERS, AND END UP CREATING NEW PRODUCT CATEGORIES FOR THE INDUSTRY.

STEVE MAGUIRE, FOUNDER AND PRESIDENT MAGUIRE PRODUCTS INC.