Sacktip®: Manual Bag Dump Station

1. **MANUFACTURING**
   - Structure and parts in contact with the product: mild steel, 304L stainless steel, 316L stainless steel.
   - Sealing: EPDM, NBR, natural rubber, silicone.
   - Finishes: customized RAL, peening, electropolishing.

2. **OPERATING SEQUENCE**
   1. Open the door and set up the removable table.
   2. Position the bag on the shelf and on the sieve.
   3. Open the bag.
   4. Empty the bag.
   5. Disposal of empty sack into the discharge chute or bag compactor (containment of the waste in a polyethylene sheath).

3. **STANDARD MODELS**

<table>
<thead>
<tr>
<th>Models</th>
<th>Length of the sacks (mm)</th>
<th>Flow required for dedusting nozzle (m³/hr)</th>
<th>Volume of the hopper (L)</th>
<th>Unloading diameter (DN)</th>
<th>Height from ground from drain flange (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S800</td>
<td>850</td>
<td>800</td>
<td>180</td>
<td>250</td>
<td>285</td>
</tr>
<tr>
<td>S1000</td>
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<td>225</td>
<td>250</td>
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<tr>
<td>S1200</td>
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<td>265</td>
<td>250</td>
<td>285</td>
</tr>
<tr>
<td>S1400</td>
<td>1450</td>
<td>1400</td>
<td>300</td>
<td>250</td>
<td>285</td>
</tr>
</tbody>
</table>

The volume of the hopper is defined according to the process requirements.

4. **OPERATING SEQUENCE**

5. **ADVANTAGES**
   - The gas cylinders allow the heavy-duty door to be lifted with ease and firmly maintained in an open position.
   - Internal sieve to support the bags with sliding bars facilitates sack positioning and protects the process from foreign bodies with a mesh in the lower part of the unit.
   - Ergonomic removable table to put down sacks: immediate rest area; stand back for feet clearance; limited space requirement; ergonomic height between heavy load; dust-proof closure of the door during the phases of unblocking or CIP.
   - Product outlet chute adapted to each particular case: the slope of the hopper allows clearance for knees and feet.
   - Fabrics and parts in contact with the product: mild stainless steel, plexiglass, anisotropic lexan, tempered laminated glass.
   - Sealing: EPDM, NBR, natural rubber, silicone.
   - Finishes: customized RAL, peening, electropolishing.

6. **OPTIONS**

- Vacuum sacks lifter
- Nozzles/washing rotary heads (CIP)
- Dustproof duty door
- Dust collector
- Dust collector fan
- Unblocking device
- Control cabinet
- Ergonomic removable shelf to put down the sacks
- Outlet for empty sacks
- Hopper
Sacktip®: Manual Bag Dump Station

4 Standard Models:
S 800 - S 1000 - S 1200 - S 1400

- MANUAL BAG DUMP STATION
- OPTION: DUST COLLECTOR
- OPTION: COMPACTOR
- OPTIONS: COMPACTOR AND DUST COLLECTOR

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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</thead>
<tbody>
<tr>
<td>S 800</td>
<td>800</td>
<td>905</td>
<td>710</td>
<td>58&quot;</td>
</tr>
<tr>
<td>S 1000</td>
<td>1,000</td>
<td>1,105</td>
<td>910</td>
<td>51&quot;</td>
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<tr>
<td>S 1200</td>
<td>1,200</td>
<td>1,305</td>
<td>1,110</td>
<td>45&quot;</td>
</tr>
<tr>
<td>S 1400</td>
<td>1,400</td>
<td>1,505</td>
<td>1,310</td>
<td>41&quot;</td>
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</table>

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<td>1,310</td>
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/standard
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Sacktip®

Standard Sacktip®: Manual Bag Dump Station

Sacktip® 4 Standard Models:
S 800 - S 1000 - S 1200 - S 1400

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Easy lifting and handling of the bag.
The manipulator provides the operator with maximal working ergonomics. The problem of load handling is fully resolved with the introduction of this equipment. The manipulator is suitable for all types of bags (materials and weight).

It optimizes containment and enables the handling of toxic materials.
The gloves are set on the door and mounted on PVC glove ports. Spring clips provide containment and closing. A neon facilitates opening operations through the plexiglass. The glove box is designed to allow opening and dumping of the bag and sack contents in a confined environment. The operator is protected from any contact with potential hazardous bulk materials. Also, it prevents the bulk material from contamination or interaction with the outside environment.

It guarantees the hygienic process by eliminating foreign substances.
The strong magnetic power capacity (13,000 Gauss) can capture the sub-millimeter particles.

To provide buffer storage upstream of the unloading system.
The conveyor belt allows operator to make a buffer storage of sacks to optimize the discharge cadences. The layout length and configuration are custom-manufactured to suit your needs and your constraints on site.

To monitor the quantity of the loaded powder, the unloading hopper can be mounted on load cells.
Number of cells: 4
Weighing accuracy: ±1 kg
Implementation: shock absorber + anti-fallover device
Input signal: A 38 mV
Possible protocols of communication: RS 232 + Ethernet

Rotative cleaning nozzles/heads - Clean In Place (CIP).
To ensure the material change without cross-contamination, the washing nozzles are located inside the unloading unit.
Pressure of washing nozzles: 3 bars
Technology: fixed or rotating 360°
Centralized wirings and connection to the network with a clamp system.

They facilitate the flow and discharge of stored materials.
These vibrators transmit multi-directional vibrations to the walls, while the vibrating bin aerators combine a fluidization effect against the inner walls of the hopper. These devices allow proper flowing of your bulk materials. They help break vaults or chimneys and greatly reduce retention.

This system ensures maximum ergonomics and safety by preventing the operator from cutting and turning the bag.
A blade actuated by a pneumatic cylinder penetrates the bag through the grid. The operation is secured with a safety switch fitted on the door or with hand control.

Our lump breakers are the ideal solution to crush materials that tend to form lumps.
Your materials stored in bags may tend to make lumps during storage. It is then sometimes imperative to standardize the powder particle size in order to allow its use in the downstream process, such as pneumatic conveying or introduction into a reactor or a mixer.

Protect the operator against potential exposure to dust during unloading.
The PALAMATIC PROCESS sack compactor enables reducing of the waste volume and maintains healthy, dust-free environment. It can be mounted on one of the hopper sides. The compacted sacks are contained within a polyethylene sheath (up to 60 sacks/m - depending on the size and type of sacks).
It may be positioned on the left, on the right or at rear of the unloading unit, with three possible positions for each of these orientations.

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/manual-sack-opening-systems
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