**ADVANTAGES**

- **Glove box** for handling material in a closed and contained area: glass and gloves
- **Support** for secured opening tool with support cable
- **Mirror-polished finishes** to improve material flow and hygiene, particularly suitable for the pharmaceutical industry
- **Side discharge chute** for the bag to maintain a clean working area and to eject the “dirty” emptied sack in a contained area

**OBJECTIVES**

- Emptying of toxic or hazardous materials
- Perfect ergonomics
- Healthy work environment
- Advanced dust containment
- Operators protection from harmful dust

**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>SE 800</td>
<td>650</td>
<td>400</td>
<td>180</td>
<td>250</td>
<td>285</td>
</tr>
<tr>
<td>SE 1000</td>
<td>850</td>
<td>500</td>
<td>265</td>
<td>250</td>
<td>285</td>
</tr>
<tr>
<td>SE 1200</td>
<td>1,050</td>
<td>600</td>
<td>300</td>
<td>250</td>
<td>285</td>
</tr>
<tr>
<td>SE 1400</td>
<td>1,250</td>
<td>700</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**ALTERNATIVES**

The introduction of sacks can be conducted by a system of sealed lock chamber (alternatives: belt conveyor, roller conveyor ...)

**DUST CONTAINMENT**

- **MANUFACTURING**
  - **Structure and parts in contact with the material:** mild steel, 304L stainless steel, 316L stainless steel
  - **Access door:** plexiglass, antistatic lexan, tempered laminated glass
  - **Sealing:** EPDM, NBR, natural rubber, silicone
  - **Finishes:** customized RAL, peening, electropolishing

**OPTIONS**

- See all our options on pages 18-19

**WEBLINK**


Download videos & layouts from our website
**Sacktip® Enclosed: Manual Bag Dump Station**

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

### CONFINED MANUAL BAG DUMP STATION

![Diagram of Manual Bag Dump Station](image1)

<table>
<thead>
<tr>
<th>Models</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE 800</td>
<td>1.140</td>
<td>850</td>
<td>2.060</td>
<td>58°</td>
</tr>
<tr>
<td>SE 1000</td>
<td>1.340</td>
<td>1.050</td>
<td>2.460</td>
<td>51°</td>
</tr>
<tr>
<td>SE 1200</td>
<td>1.540</td>
<td>1.250</td>
<td>2.860</td>
<td>45°</td>
</tr>
<tr>
<td>SE 1400</td>
<td>1.740</td>
<td>1.450</td>
<td>3.260</td>
<td>41°</td>
</tr>
</tbody>
</table>

### OPTION: DUST COLLECTOR

![Diagram of Duster Collector](image2)

<table>
<thead>
<tr>
<th>Models</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE COMP 800</td>
<td>1.140</td>
<td>850</td>
<td>2.060</td>
<td>58°</td>
</tr>
<tr>
<td>SE COMP 1000</td>
<td>1.340</td>
<td>1.050</td>
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<td>51°</td>
</tr>
<tr>
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<td>1.740</td>
<td>1.450</td>
<td>3.260</td>
<td>41°</td>
</tr>
</tbody>
</table>

### OPTION: COMPACTOR

![Diagram of Compactor](image3)

<table>
<thead>
<tr>
<th>Models</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE COMP 800</td>
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<td>850</td>
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<td>SE COMP 1400</td>
<td>1.740</td>
<td>1.450</td>
<td>3.260</td>
<td>41°</td>
</tr>
</tbody>
</table>

### OPTIONS: COMPACTOR AND DUST COLLECTOR

![Diagram of Compactor and Duster Collector](image4)

<table>
<thead>
<tr>
<th>Models</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE COMPaxter 800</td>
<td>1.140</td>
<td>850</td>
<td>2.060</td>
<td>58°</td>
</tr>
<tr>
<td>SE COMPaxter 1000</td>
<td>1.340</td>
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<td>2.460</td>
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<tr>
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<td>1.540</td>
<td>1.250</td>
<td>2.860</td>
<td>45°</td>
</tr>
<tr>
<td>SE COMPaxter 1400</td>
<td>1.740</td>
<td>1.450</td>
<td>3.260</td>
<td>41°</td>
</tr>
</tbody>
</table>
**VACUUM SACK LIFTER**

*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).

**GLOVE BOX**

*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.

**MAGNETIC BARS**

*It guarantees the hygienic process by eliminating foreign substances.*

The magnetic bars, installed on the dumping system, preserve the quality of materials brought into your process. The strong magnetic power capacity (≥3,000 Gauss) can capture the sub-millimeter particles.

**BELT CONVEYOR**

*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.

**WEIGHING - DOSING**

*To monitor the quantity of the loaded powder, the unloading hopper can be mounted on load cells.*

- Number of cells: 4
- Weighing accuracy: ±3kg
- Implementation: shock absorber + anti-fatigue device
- Input signal A 4-20 mA
- Possible protocols communication: RS 232 + Ethernet

**CIP**

*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.

**VIBRATORS / VIBRATING BIN AERATORS**

*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.

**AUTOMATIC CUTTING SYSTEM FOR SACKS**

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

**LUMP BREAKER**

*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.

**SACK COMPACTOR**

*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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Our engineering office is listening to you for any specific options.

_manual-sack-opening-systems_