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  - Sacktip® Enclosed: DUST CONTAINMENT model
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    - CUSTOM MADE manual bag dump station

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  - Vacuum sack lifter
  - Suction booth
  - Pouyès ring

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  - Rotaslit®
  - Varislit®
  - Autotip

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  - DrumFlow® 02: discharge by extraction of the sack
  - DrumFlow® 03: tilting
  - DrumFlow® 04: tilting and caping
### Basic configurations and applicable options

<table>
<thead>
<tr>
<th>Sack opening rate (the highest rate may vary according to the operator and the type of sack)</th>
<th>Sacktip®</th>
<th>Sacktip® Enclosed</th>
<th>Sacktip® Hygienic</th>
<th>Custom made manual unit</th>
<th>Ergotip®</th>
<th>SAS®</th>
<th>Minislit®</th>
<th>Rotaslit®</th>
<th>Varslit®</th>
<th>Autotip®</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 - 6 sacks/min.</td>
<td>2 - 6 sacks/min.</td>
<td>2 - 6 sacks/min.</td>
<td>2 - 4 sacks/min.</td>
<td>2 - 4 sacks/min.</td>
<td>2 - 4 sacks/min.</td>
<td>6 sacks/min.</td>
<td>6 sacks/min.</td>
<td>6 sacks/min.</td>
<td>6 - 12 sacks/min.</td>
<td>15 sacks/min.</td>
</tr>
</tbody>
</table>

#### Mobile station on wheels
- Dust-proof door
- Security screen
- Sliding bars
- Foldaway tray
- Gravity roller table
- Motorized infeed belt conveyor
- Integrated sack compactor
- Integrated dust collector
- Integrated lump breaker
- Clean In Place (C.I.P.)
- Dosing and weighing
- Hygienic application

#### Utilities

<table>
<thead>
<tr>
<th>Input TOR</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>According to design</th>
<th>3</th>
<th>5</th>
<th>11</th>
<th>10</th>
<th>9</th>
<th>37</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output TOR</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>According to design</td>
<td>3</td>
<td>5</td>
<td>11</td>
<td>3</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Installed power (KW)</td>
<td>0.1</td>
<td>0.1</td>
<td>0.8</td>
<td>According to design</td>
<td>6.3</td>
<td>8.5</td>
<td>12.4</td>
<td>4.4</td>
<td>5.3</td>
<td>18.2</td>
</tr>
<tr>
<td>Service pressure (bar)</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Average power consumption (KWH)</td>
<td>0.1</td>
<td>0.1</td>
<td>0.3</td>
<td>According to design</td>
<td>2.1</td>
<td>1.0</td>
<td>4.0</td>
<td>3.5</td>
<td>3.3</td>
<td>9.9</td>
</tr>
<tr>
<td>Compressed air consumption (Nm³/h)</td>
<td>4.3</td>
<td>4.3</td>
<td>According to design</td>
<td>6.6</td>
<td>6.3</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td>Dust collecting rate (m³/h)</td>
<td>-</td>
<td>-</td>
<td>Depending on the model chosen</td>
<td>-</td>
<td>800</td>
<td>800</td>
<td>1,500</td>
<td>2,000</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
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.

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).

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 (litre)</th>
<th>Unloading diameter (DN)</th>
<th>Height from ground to drain flange (mm.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S800</td>
<td>650</td>
<td>800</td>
<td>180</td>
<td>250</td>
<td>285</td>
</tr>
<tr>
<td>S1000</td>
<td>850</td>
<td>1,000</td>
<td>225</td>
<td>250</td>
<td>285</td>
</tr>
<tr>
<td>S1200</td>
<td>1,050</td>
<td>1,200</td>
<td>265</td>
<td>250</td>
<td>285</td>
</tr>
<tr>
<td>S1400</td>
<td>1,250</td>
<td>1,400</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.

OPERATING SEQUENCE

Sackdump®: Manual Bag Dump Station

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

Rate: 2 - 6 sacks/min.
Objective: Ergonomics

MANUAL AND ERGONOMICAL UNLOADING

The PALAMATIC PROCESS dumping units are designed to reduce material waste and to ensure an effective dust collection during the manual process of opening and discharging of the bag. All sack stations are provided with dedusting tappings or integrated filters and containment systems for empty packaging.

Unclogging device
Filtering cartridge
Dust collector (option)
Dust collector fan
Control cabinet
Integrated sack compactor (option)
Outlet for empty sacks
Ergonomic removable shelf to put down the sacks
Dustproof duty door
Hopper

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 unclocking or CIP.

Dust collector fan
Dust collector (option)
Dustproof duty door
Control cabinet
Integrated sack compactor (option)
Outlet for empty sacks
Ergonomic removable shelf to put down the sacks
Options

Vacuum sacks lifter
Nozzles/washing rotary heads (CIP)

See all our options on pages 18-19

www.palamaticprocess.com/powder-machines/sack-solutions
/manual-sack-opening-systems/standard

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Sacktip®: Manual Bag Dump Station

Available Custom Made

www.palamaticprocess.com/powder-machines/sack-solutions

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

● MANUAL BAG DUMP STATION

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

● OPTION: DUST COLLECTOR

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>S800</td>
<td>800</td>
<td>1,310</td>
<td>710</td>
<td>58°</td>
</tr>
<tr>
<td>S1000</td>
<td>1,000</td>
<td>1,510</td>
<td>910</td>
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</tr>
<tr>
<td>S1200</td>
<td>1,200</td>
<td>1,710</td>
<td>1,110</td>
<td>45°</td>
</tr>
<tr>
<td>S1400</td>
<td>1,400</td>
<td>1,910</td>
<td>1,310</td>
<td>41°</td>
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</tbody>
</table>

● OPTION: COMPACTOR

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCOMP 800</td>
<td>800</td>
<td>1,560</td>
<td>710</td>
<td>58°</td>
</tr>
<tr>
<td>SCOMP 1000</td>
<td>1,000</td>
<td>1,760</td>
<td>910</td>
<td>51°</td>
</tr>
<tr>
<td>SCOMP 1200</td>
<td>1,200</td>
<td>1,960</td>
<td>1,110</td>
<td>45°</td>
</tr>
<tr>
<td>SCOMP 1400</td>
<td>1,400</td>
<td>2,160</td>
<td>1,310</td>
<td>41°</td>
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</table>

● 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>SCOMPDP 800</td>
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<td>1,960</td>
<td>710</td>
<td>58°</td>
</tr>
<tr>
<td>SCOMPDP 1000</td>
<td>1,000</td>
<td>2,160</td>
<td>910</td>
<td>51°</td>
</tr>
<tr>
<td>SCOMPDP 1200</td>
<td>1,200</td>
<td>2,360</td>
<td>1,110</td>
<td>45°</td>
</tr>
<tr>
<td>SCOMPDP 1400</td>
<td>1,400</td>
<td>2,560</td>
<td>1,310</td>
<td>41°</td>
</tr>
</tbody>
</table>

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Download videos & layouts from our website
**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>
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<tr>
<td>SE 1200</td>
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<td>600</td>
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<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*
## CONFINED MANUAL BAG DUMP STATION

<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>1.14</td>
<td>850</td>
<td>2.060</td>
<td>58°</td>
</tr>
<tr>
<td>SE 1000</td>
<td>1.34</td>
<td>1,050</td>
<td>2.460</td>
<td>51°</td>
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<td>SE 1200</td>
<td>1.54</td>
<td>1,250</td>
<td>2.860</td>
<td>45°</td>
</tr>
<tr>
<td>SE 1400</td>
<td>1.74</td>
<td>1,450</td>
<td>3.260</td>
<td>41°</td>
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</table>

## OPTION: DUST COLLECTOR

<table>
<thead>
<tr>
<th>Models</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tbody>
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<td>2.060</td>
<td>58°</td>
</tr>
<tr>
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<td>1,050</td>
<td>2.460</td>
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<tr>
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<td>2.860</td>
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<td>SECOMP 1400</td>
<td>1.74</td>
<td>1,450</td>
<td>3.260</td>
<td>41°</td>
</tr>
</tbody>
</table>

## OPTION: COMPACTOR

<table>
<thead>
<tr>
<th>Models</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tbody>
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</tr>
<tr>
<td>SECOMP 1400</td>
<td>1.74</td>
<td>1,450</td>
<td>3.870</td>
<td>41°</td>
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</table>

## OPTIONS: COMPACTOR AND DUST COLLECTOR

<table>
<thead>
<tr>
<th>Models</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tbody>
<tr>
<td>SECOMPDP 800</td>
<td>1.14</td>
<td>850</td>
<td>2.670</td>
<td>58°</td>
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<tr>
<td>SECOMPDP 1200</td>
<td>1.34</td>
<td>1,050</td>
<td>3.070</td>
<td>51°</td>
</tr>
<tr>
<td>SECOMPDP 1400</td>
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<td>1,250</td>
<td>3.470</td>
<td>45°</td>
</tr>
<tr>
<td>SECOMPDP 1400</td>
<td>1.74</td>
<td>1,450</td>
<td>3.870</td>
<td>41°</td>
</tr>
</tbody>
</table>
Sacktip® Hygienic: Manual Bag Dump Station

Standard Model SH 800
Possibility of customization

Rate: 2 to 4 sacks/min.
Objective: protection

OBJECTIVES
- Protection of your process
- Prevent contamination
- Quality of your production

Advantages
- Customized and interchangeable screen mesh
- Gas cylinder to optimize the ergonomics and support the door
- Mirror polish finish - (1) Rounded corners
- Vibratory motor to improve the amplitude and intensity of the screen. These settings are adjustable depending on the flowability of the material and the mesh
- 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
- Finishes: customized RAL, peening, electropolishing

DE:G6I>DC
:6HN=6C9A>C<

Standard Model SH 800
Possibility of customization

Rate: 2 to 4 sacks/min.
Objective: protection

Equipment TEST CENTER
Available

Sacktip® Hygienic

Integrated Sieve

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
- Finishes: customized RAL, peening, electropolishing

Solution for hygienical process

Easy handling

Easy access to the sifter including the screen mesh. Its design allows operators to clean and replace the screen mesh in seconds.

Gloves
Vacuum sacks lifter

See all our options on pages 18-19

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manual-sack-opening-systems
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Options

Available
CUSTOM
MADE

Rate:
Objective:

Protection of your process
Prevent contamination
Quality of your production

Integrates sieve: protection against foreign bodies for a production without any impurities.

Integrates sieve: protection against foreign bodies for a production without any impurities.

Easy access to the sifter including the screen mesh. Its design allows operators to clean and replace the screen mesh in seconds.

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Available
CUSTOM
MADE

Rate:
Objective:

Protection of your process
Prevent contamination
Quality of your production

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Integrates sieve: protection against foreign bodies for a production without any impurities.
Sacktip® Hygienic: Manual Bag Dump Station

Standard Model: SH 800

- **MANUAL BAG DUMP STATION - SH 800**

- **OPTION: DUST COLLECTOR - SHDEP 800**

- **OPTION: COMPACTOR - SHCOMP 800**

- **OPTIONS: COMPACTOR AND DUST COLLECTOR - SHCOMPDEP 800**

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The PALAMATIC PROCESS engineering office offers customized solutions for your sack opening process according to your layout and flow constraints. We define together the adequate solution after visiting your site and following your needs and technical conditions.

- **POSSIBLE FEATURES**
  - Specific and reduced dimensions
  - Applications for toxic materials
  - Nuclear industry
  - Advanced containment
  - Manufacturing specific to the bulk material and work environment: steel, stainless steel, Hastelloy, Uranus B6, Viton, Perbunan, Nitrile...
  - Surface treatment adapted to your powders: electropolishing, mirror polished, vulcanization, teflon
  - Process features integration: dosing, screening, milling, granulation, anti-bridging device, mechanical conveying
  - Ideal design for all types of bags
  - ATEX...

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Manual sack-opening systems: customized
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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  
Weighting accuracy = ± 3kg  
Implementation: shock absorber + anti-fallover device  
Input signal A 4-20 mA  
Possible profibus 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 cylinders 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.

www.palamaticprocess.com/powder-machines/sack-solutions/  
/manual-sack-opening-systems  
Download videos & layouts from our website
Sack Compactor

All Types of Sacks

Compression ratio: 60 sacks/min.*
*Depending on the type of bag

Ergonomic access for the operator: the height is appropriate and it is possible to integrate a platform

Contain dust and minimize dust volume.

The compacting screw “pushes” the empty bags inside the dust-proof sheath. With an efficient and compact design, the compactor is suitable for all types of bags (paper, polyethylene, plastic, woven plastic, hessian bags...)

Characteristics:
- Mild steel, 304L stainless steel, 316L stainless steel
- Motor 2.2 kW (direct coupling)
- Applied bearing

A polyethylene sheath positioned at the end of the compacting tube allows to collect the empty bags at the output of the compactor. The tensioning ring of the sheath permits a completely dust-proof compression of the bag fragments. A dedusting nozzle optimizes the cleanliness of the work station. The compaction takes place in a completely confined area.

Examples of possible positionings

Examples of integrated sack compactor

Compacting screw

Handling wheels for mobility of the equipment (optional)

Ergonomic access for the operator: the height is appropriate and it is possible to integrate a platform

100 % hermetic containment sheath, clean working environment and possibility to recover residual fines by specific tray

In 2 versions

Option

150 meters compaction sheath (up to 500 meters on request)

Advantages

AVAILABLE
CUSTOM MADE

www.palamaticprocess.com/powder-machines/sack-solutions/sack-compactor

Download videos & layouts from our website
Vacuum Sack Lifter

All Types of Sacks

OBJECTIVES

Effortless vacuum lifting of all types of sacks from 10 to 80 kg and increased productivity. It is a simple and reliable means for one operator to handle sacks from 10 to 80 kg.

Advantages:
- Effortless lifting
- Maximum performance and productivity
- Optimal working conditions
- Improvement in ergonomics
- Increased operator safety
- Very little maintenance required

Advantages:

- Rubber bale protection cover
- Oversized filter for dusty bags

Options

See all our options on pages 18-19

www.palamaticprocess.com/powder-machinery-solutions/bag-manipulator
Download videos & layouts from our website

Examples of Installations

1. Load to cover large areas. Supported by fixed columns or existing metallic construction.
2. Rotating post mounted jib crane.
3. Inverted rotating post mounted jib crane.
4. Wall mounted post and/or articulated.
5. Hessian bags: vacuum spike gripper to lift sacks of grains.
6. Rotating post mounted jib crane.
7. Suction tube.
8. Large suction foot.
10. Lifting head.
11. 360° rotation lifting tube.
13. Vacuum sack lifter, fitted with a control handle equipped with a stay-put lever valve allowing a self-stabilisation of the load at any height, without any adjustment. Ergonomic handle design, preventing wrist elongation.
The operators working directly with powders, especially during packaging or unloading phases, have to work in a dusty environment. The suction booth is used to create a vacuum flow in the working area. The side screens enable to close the working area and to minimize the draughts effect. Our standard range of suction booths can be customized to meet your requirements.
Pouyès Ring

Rate: 150 to 400 m³/hr.
Installation: reactor, tank, drum.
Objectives: facilitate unloading of small packings without any dust emission

ADVANTAGES
- No obstruction of the working area, direct access for loading
- Protection against dust emission
- Rapid connection to all types of equipment, removable and cleanable system

TECHNICAL SPECIFICATIONS
- Dropping area for the bag: 200 to 400 mm. depth, 400 to 600 mm. width
- Manufacturing: painted / galvanized steel, 304L stainless steel, 316L stainless steel
- Finishes: 9006 RAL, bead blasted, electropolished
- Coverage of the vacuum area: 270° to 180°
- Inclination of the ring: 0° to 20°
- Connection to suction device: DN50 to DN80
- Connection to equipment: PN 10 flange, clamp
- Air rate reached in open areas: 0.6 to 1 m³/s.
- Air velocity reached in dedusting piping: 25 m./s.
- ATEX grounding clamp
- Weight: 10 to 50 kg

Examples of Installations

Vacuum area

Shelf to put down the sacks

Download videos & layouts from our website: www.palamaticprocess.com/powder-machine/sack-solutions
Automatic Bag Dump Station

Ergotip®
Patented system

MULTI-SACKS DECONDITIONING

The sack opening system Ergotip® is used in all industrial sectors. The cutting system with an articulated blade provides a clear cutting of all types of sacks. The bi-manual control system ensures safety and efficiency as well as the rate of opening.

OPERATING SEQUENCE

The operator puts the sack down on the grate and actuates the control of cutting.

The blade performs a cut on the bottom of the bag.

Shaking of the sack without effort and without heavy lifting of the sack. The operator does not have to return the bag.

Flowing of the material into the hopper.

OPERATING PRINCIPLE

The working position of the operator is effective and safe. The bags are no longer handled multiple times and the operator will no longer return the bags.

The cutting from the bottom of the bag prevents the operator from turning the bag. In addition to better ergonomics, the discharge rate is improved.

TECHNICAL SPECIFICATIONS

The entire mechanism is positioned outside to avoid contact with the product (bulk powders, powders...).

- Suitable for many types of bags: paper, polywoven, lined...
- Minimize the handling by the operator
- Increased productivity
- Airborne dust is drawn into the dust collector, preventing plant contamination
- Integrated sack compactor
- Easy to clean

Rate: 6 sacks/min.
Capacity: 15 to 50 kg/sack
Manufacturing: mild steel, 304L stainless steel, 316L stainless steel

Download videos & layouts from our website

AVAILABLE
CUSTOM
MADE

Patented system
Automatic Bag Dump Station

SEMI-AUTOMATIC SYSTEM, OVERALL DIMENSIONS REDUCED

To establish a connection between manual and automatic bag dump stations, PALAMATIC PROCESS offers a semi-automatic machine. This equipment is ideal for food, pharmaceutical and chemical applications. This machine is intended for semi-automatic opening of any type of sack (except aerosils), limiting the operator’s movement to set up the bag. The degree of dust containment of the machine that operates with the closed door, the installation of a sack compactor and the connection to the dedusting piping minimize fine particles emission in the atmosphere. The machine is supplied with a complete control cabinet to ensure the rate you require.

Rate: 2 to 4 sacks/min.
Capacity: 15 to 50 kg/sack
Manufacturing: mild steel, 304L stainless steel, 116C stainless steel

1. Articulated cutting blade
2. Program mobile cutting cycle
3. Shaking of the sack with articulated plates
4. Ejection of the emptied sack to the compactor

OPERATING PRINCIPLE

TECHNICAL SPECIFICATIONS
1. The blade pivots from the back to the groove provided in the screen and cuts the bottom of the sack
2. The blade retracts and the material flows into the hopper
3. The bars do the shaking to make the material come out of the bag
4. The bag ejector bar sends the empty sack into the compactor

ADVANTAGES
- Pneumatically controlled cutting system that leaves hands free
- Ideal solution for hazardous areas


Download videos & layouts from our website

See all our options on pages 18-19
The SAS® bag dump system allows, due to its mode of operation, deconditioning of explosive material with a very low or low EMI. The moving parts included in the SAS provide slow speeds, thus avoiding the risks of sparks caused by impacts.

Electrical continuity of all the parts ensure safe operation. The dust collector offers maximum dust containment in an ATEX zone. Also, the bag opening is carried out when the door is closed: no external ATEX risk.
**Automatic Bag Dump Station**

**Minislit®**

**Equipment TEST CENTER Available**

**Automatic Opening and Elimination of Empty Sacks**

Designed to open bulk sacks with pulverulent products, the automatic dump bag station MINISLIT® is available with a ribbon cutting system. Adapted to multiple applications, from aggregates to pharmaceutical products, the parts of the automatic sack opening system MINISLIT® can be cleaned manually or mechanically with the option “Cleaning In Place” providing a complete washing and drying system (30 minutes cycle with washing and drying).

**Operating Principle**

1. The belt conveyor transports the bag directly to the ribbon-saw cutting system
2. Vacuum sack lifter and belt conveyor
3. Screw compactor for evacuation of empty bags into a plastic sheath and reduction of dust emissions
4. External gearing

**Technical Specifications**

The cutting system produces a three-sided cut on the sacks without tearing the material. The patented disc inversion system ensures a full discharge of the material.

It is particularly suitable for food, chemical and paint industry.

Like all other PALAMATIC PROCESS automatic bag dump systems, its design facilitates cleaning and maintenance with minimal retention areas.

The mechanical driving and guiding parts are external which greatly limits the wear and offers the possibility to discharge materials having a high degree of abrasion.

**Advantages**

- Suitable for many types of bags: paper, polywoven, lined...
- Minimize operator’s handling
- Maximum productivity
- Reduced dust contamination
- Integrated dust collecting device (option) and sack compactor
- The ribbon-saw cutting system is available with various options: carbon steel (high speed), stainless steel or diamond coated for applications with abrasive materials.

**Minislit® Throughput Capacities**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>Sacks per minute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal feed pellets</td>
<td>6-8</td>
</tr>
<tr>
<td>Sugar</td>
<td>6-8</td>
</tr>
<tr>
<td>Dicalite</td>
<td>6-8</td>
</tr>
<tr>
<td>Coffee beans</td>
<td>6</td>
</tr>
<tr>
<td>Lentils</td>
<td>4-8</td>
</tr>
<tr>
<td>Aluminium oxide</td>
<td>3-4</td>
</tr>
<tr>
<td>Soya flour</td>
<td>3-4</td>
</tr>
<tr>
<td>Vacuum sacks</td>
<td>3-4</td>
</tr>
<tr>
<td>Caustic flake</td>
<td>3-4</td>
</tr>
<tr>
<td>Ammonium sulphate</td>
<td>3-4</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>3-4</td>
</tr>
<tr>
<td>TiO2</td>
<td>3-4</td>
</tr>
<tr>
<td>Ammonium sulfamate</td>
<td>3-4</td>
</tr>
<tr>
<td>Mica powder</td>
<td>3-4</td>
</tr>
<tr>
<td>Teal</td>
<td>3-4</td>
</tr>
<tr>
<td>Carbon black</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Rate:** 6 sacks/min.

**Capacity:** 15 to 50 kg/sacks

**Manufacturing:** mild steel, 304L stainless steel, 316L stainless steel


Download videos & layouts from our website
Automatic Bag Dump Station

Minislit®

Patented system

GENERAL LAYOUT

Vibrating spout for dosing and homogeneous separation of your bulk materials.

Dust collector system to vacuum fine particles.

Inclined conveyor to feed the unloading station.

Vacuum lifter for sacks for effortless handling and improvement of the productivity.

Integrated lump breaker enables the machine to handle powders with lumps. The blades ensure the passage of the lumps through a calibrated screen.

The MINISLIT® automatic bag dump system is a part of our test center for easy testing of any type of bags.

These industrial-scale tests are a guarantee of result and success of your project.

EXAMPLES OF INSTALLATIONS

Application in paint industry

Application in food industry

Facility for seeds

Application in petrochemical industry

EXAMPLES OF IMPLEMENTATION

Vacuum lifter for sacks / Vibrating flue

Dust collector

Vibrating spout

Vacuum lifter

EXAMPLE OPTIONS

Vibrating spout for dosing and homogeneous separation of your bulk materials.

Dust collector system to vacuum fine particles.

Inclined conveyor to feed the unloading station.

Vacuum lifter for sacks for effortless handling and improvement of the productivity.

Integrated lump breaker enables the machine to handle powders with lumps. The blades ensure the passage of the lumps through a calibrated screen.

Patented system

Application in paint industry

Application in food industry

Facility for seeds

Application in petrochemical industry

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Automatic Bag Dump Station

Rotaslit®
Patented system

AUTOMATIC DECONDITIONING AND ELIMINATION OF EMPTY SACKS

The ROTASLIT® opening unit is widely used in food, pharmaceutical, chemical and agrochemical industries. The bags are cut by a multi-blade shaft and transferred by the compacting screw compactor into the drum. The dust extraction option offers the best solution for rapid automatic opening of sacks with no dust. It was commissioned on platforms to facilitate the incorporation of raw materials in the process. This automatic machine uses only one 3 kW motor.

Advantages

- Suitable for many types of bags: paper, polywoven, lined...
- Minimize the handling by the operator
- Robustness, reliability and productivity
- Can be used in areas with restricted head room
- Integrated sack compactor
- Better productivity
- Reduced dust contamination
- Easy to clean

TECHNICAL SPECIFICATIONS

The sack is conveyed by a screw to the compactor and at the same time stirred in a rotating drum. This configuration allows an optimal discharge of the bag. The greatest strength of this machine is to accept bags oriented in the length or width and the ability to process large varieties of packagings such as boxes or sacks covered with paper or plastic and plastic or paper bags. Like all the other PALAMATIC PROCESS automatic bag dump stations, its conception facilitates cleaning and maintenance with minimal retention points, flanges and gaskets. This sack opening unit can process 10 tons of material per hour (depending on the fluidity of the bulk material) and is available in steel or stainless steel.

PRODUCTS

- Products
- Coffee beans
- Sugar
- Dicalite
- Sugar
- Tea
- Carbon black
- Soya flour
- Cement
- Aluminium oxide
- Ammonium sulphate

Sacks per minute

- 6
- 6
- 6
- 6
- 6
- 6
- 6
- 6
- 6
- 6
- 6
- 6
- 6
- 6
- 6

Rate: 6 sacks/min.
Capacity: 15 to 50 kg/sack
Manufacturing: mild steel, 304L stainless steel, 316L stainless steel

Download videos & layouts from our website

AVAILABLE
CUSTOM
MADE

Most.jpg
Automatic Bag Dump Station

Rotaslit®

Patented system

GENERAL LAYOUT

ATEX AND EXPLOSIVE ATMOSPHERE

Due to its design, the ROTASLIT® is particularly suitable for ATEX applications. ATEX configuration includes additional security organs such as temperature sensors, engine torque calculation, rotation controller. Our R&D department defines with you the system requirements depending on the products that you deal with.

AUTOMATION

The automation is an integral part of the expertise of PALAMATIC PROCESS. The ROTASLIT® machine is fully driven by our automaton so the success of the raw material loading is guaranteed.

Options:

- Dust collector ensuring healthy work environment
- Vacum sack lifter for an effortless loading of the machine. The rate is guaranteed with maximum ergonomics
- Support raiser for the machine to enable the operator to have access to the various doors of the machine
- Vibrating chute allows to channel the material flow for introduction into the process downstream
- Belt conveyer, horizontal or inclinated. It integrates detection coils to adjust the flow rate of the machine
- Steel - Stainless steel manufacturing for all parts in direct contact with the handled materials
- Pre-crushing of the bags when passing bags with lumps. The passage of the bag in front of the detect sensor starts the crushing action

EXAMPLES OF IMPLEMENTATION

- ATEX version
- Feeding of the machine with a vacuum sack lifter
- Rotating blades


Download videos & layouts from on website
**Automatic sack opening system**

- Varislit®

- **HIGH RATE DECONDITIONING, MULTI SACKS**

  The VARISLIT® automatic bag dump station is widely used in food, pharmaceutical, chemical and agro-chemical industries. Its patented inversion system ensures a full discharge of the material and the feeding of the emptied sacks into the waste sack compactor. The optional dust extraction system provides the best solution for an efficient opening without dust contamination.

- **Technological Robustness**

  The rotating double blade system, which is in standard version on this machine, and its elongated shape can process large bags with an extremely high rate of discharge. The entire mechanics is positioned outside to avoid any contact with the material (bulk, powders ...).

- **Safety and Hygiene**

  Inside view of the VARISLIT® with the cutting system and the compacting screw.

- **Handling**

  Handling is made easier for the operator and allows him to monitor the speed of the machine.

- **External pneumatics**

  Sacks are cut on 3 sides for a total opening and an integral emptying.

- **Automatic cutting of the sacks**

  for a rapid opening and increased productivity.

- **Screw compactor**

  To compact and discharge bags into a plastic sheath to secure the outlet of the compactor.

- **Advantages**

  - Suitable for many types of bags: paper, polywoven, lined...
  - Minimized operator's handling
  - Increased productivity
  - Reduced dust contamination
  - Integrated sack compactor
  - Easy to clean

<table>
<thead>
<tr>
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<th>Sacks per minute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coffee beans</td>
<td>6-8</td>
</tr>
<tr>
<td>PET / LEPM capsules</td>
<td>10-12</td>
</tr>
<tr>
<td>Animal feed pellets</td>
<td>5-6</td>
</tr>
<tr>
<td>Sugar, Tea</td>
<td>6-8</td>
</tr>
<tr>
<td>Carbon black</td>
<td>6-8</td>
</tr>
<tr>
<td>Soya flour</td>
<td>6-8</td>
</tr>
<tr>
<td>Cement</td>
<td>8</td>
</tr>
<tr>
<td>Starch</td>
<td>6</td>
</tr>
<tr>
<td>Aluminium oxide</td>
<td>6-7</td>
</tr>
<tr>
<td>Edible base</td>
<td>6-7</td>
</tr>
<tr>
<td>Animal feed pellets</td>
<td>6-7</td>
</tr>
<tr>
<td>Ultra white</td>
<td>6</td>
</tr>
<tr>
<td>Filter aid</td>
<td>6-8</td>
</tr>
</tbody>
</table>

**VARISLIT® 6000 THROUGHPUT CAPACITIES**

- www.palamaticprocess.com/powder-machine/sack-solutions
- /automatic-sack-opening-systems/varislit
- Download videos & layouts from our website

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**Automatic Bag Dump Station**

- Rate: 6 to 12 sacks/min.
- Capacity: 15 to 50 kg/sack
- Manufacturing: mild steel, 304L stainless steel, 316L stainless steel

**Monitoring touch screen PalTouch® technology**
**Automatic Bag Dump Station**

**Varislit®**

**Patented system**

### GENERAL LAYOUT

#### EXAMPLE OF IMPLEMENTATION

- **Hopper to add additives**: pre-weighed and half sacks
- **Extended body allows to process sacks with a maximum length up to 1.200 mm**
- **Vibrating chute allows to channel the material flow for introduction into the process upstream**
- **Pre-crushing of the bags during bags with lumps passage. The passage of the bag in front of the detect sensor starts the crushing action**
- **Stainless steel static chute for the transfer of the powders into the process**
- **Sack infeed conveyor allows the conveying of the sacks towards the drive belts**
- **Steel - Stainless steel manufacturing for all parts in direct contact with the handled materials**

### OPTIONS

- **Hopper to add additives**: pre-weighed and half sacks
- **Pre-crushing of the bags during bags with lumps passage. The passage of the bag in front of the detect sensor starts the crushing action**
- **Extended body allows to process sacks with a maximum length up to 1.200 mm**
- **Vibrating chute allows to channel the material flow for introduction into the process upstream**
- **Stainless steel static chute for the transfer of the powders into the process**
- **Sack infeed conveyor allows the conveying of the sacks towards the drive belts**
- **Holding roller to handle sacks of less than 35 kg**
- **Steel - Stainless steel manufacturing for all parts in direct contact with the handled materials**

### PRIOR INSTALLATIONS

- **Milk powder process**
- **ATEX zone 21 implementation**
- **Reactor feeding through a sifter**
- **Deconditioning of cement with pneumatic conveying**

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Download videos & layouts from our website: www.palamaticprocess.com/download-pages
The automatic bag dump station AUTOTIP 1200 can open paper, polyethylene, synthetic and hessian sacks containing materials such as plastic granules, coffee beans, tea and rice.

This machine, the biggest of the range, is designed to open bags at the rate of 15 to 20 bags per minute (up to 60 tons per hour).

**Advantages**

- Suitable for many types of bags: paper, polywoven, lined...
- Can be used in areas with restricted room
- Integrated sack compactor
- Increased productivity
- Reduced dust emissions
- Easy to clean

**Operating Method**

The bags are opened automatically using a pair of cutting blades. The material then passes through a sifter located directly below the cutting section. This system ensures that each bag is cut at least once. The material and the open bags are then transported by gravity in a rotary drum using the screw. The rotary drum ensures that the material is effectively separated from its packaging. This drum will convey empty packaging throughout its length and then supply a full-screw compactor for collection of empty sacks in a polyethylene sheath.

The material then flows through the screen situated directly under the rotating drum in a discharge chute (this action is carried out by gravity). To complete the operation, the operator simply presses on a stop button on the control panel.
Drum Dump Station

Our handling tools allow easy handling, lifting, turning and emptying of drums and barrels. Thanks to our many options available, the operator can completely or partially empty the contents of drums, into hoppers, reactors or mixers manholes. PALAMATIC PROCESS design office offers multiple solutions to manually or automatically empty drums (tipping or turning system) according to your site constraints...

DrumFlow® 01
Suction pipe
- Emptying directly on the pallet, without drum manipulation
- Confined dump station
- Drum connection on drum enclosure
- Removal of the inner sack layer for emptying

DrumFlow® 02
Discharge by sack extraction
- Emptying by tilting directly on a collecting hopper
- Options: suction booth, handling conveyor, facilitated product flowing
- Completely confined emptying by means of containment and sealed connection

DrumFlow® 03
Tilting
- Emptying by tilting directly on a collecting hopper
- Options: suction booth, handling conveyor, facilitated product flowing

DrumFlow® 04
Tilting and containment
- Completely confined emptying by means of containment and sealed connection

Drum discharging for mixer feeding

|=| Advantage
The DrumFlow® 01 solution prevents the operator from handling the drums that can be left on the pallet

|=| Advantage
Integration of a weighing device, weight gain or loss-in-weight

Discharge of end products stored in drums to feed a packing system

DrumFlow® 02
DISCHARGING AND DOSING BOOTH FOR RAW MATERIAL PACKAGED IN DRUMS
The discharge operation of the drums is carried out by the operator. Once the drum is positioned at the level of the enclosure, the operator extracts the sack to ensure its de-conditioning and/or the dosing of the desired amount.

DrumFlow® 03
Operating mode for an optimized containment

Ronds de gant
Connexion déposseur
Néon d'éclairage
- Arret de déposseur
- Espace de positionnement du fut
Zone de prépensée
- Trémie collectrice produit
- Alimentation transfert pneumatique

Drum positioning in deconditioning cabin

Drum containment by external sack

Container opening via glove ports and product discharge into the hopper (sieve)

Drum evacuation in the sack and sack sealed closing (no contact with operator)

Alternative possible
Lifting and positioning of the drum in the booth is performed by the elevator integrated on the booth

Our engineering office offers you turnkey customized solutions according to your product constraints, applications and drum dimensions.

www.palamaticprocess.fr/machines-industrielles/solutions-futs/vidange
Videos & plans téléchargeables en ligne
Barrel Dump Station

Advantages

- Compatible with drums fitted with internal sack
- Tonic products applications
- Adjustable to all drum-types
- Maximal containment enclosure for a healthy workplace

|+| Security

- Protective screen
  It is positioned near the tilting engine and guarantees the operator’s security
- Lock system
  The cycle start is forbidden when the door is open
- Control system
  The control is conducted by “maintained” push buttons. The cycle is interrupted if the operator releases one of the buttons
- Security area
  Between the conveyor and the tipping device, it avoids all risks of collision and ensures the installation reliability

1. Drum positioning on the inlet conveyor and on tipping cradle
2. Containment cylinder
3. Tipping cradle
4. Gloves for drum opening
5. Tipping cradle
6. Bottom drum vibrator
7. Motorized drum propulsion conveyor
8. Drum valve
9. Connection inflatable seal
10. Motorized switching group
11. Isolation valve of the collecting hopper
12. Collecting hopper
13. Control panel
14. Cabin with sectional door

TECHNICAL SPECIFICATIONS

- Rate: 1 drum/4.5 min.
- Manufacturing: framework in painted steel/stainless steel
- Loading capacity: 250 kg
- Angle: up to 180°
- Drum tipping: electrical engine of 7.5 kW
- Drum containment: pneumatic cylinder with sealing control by overpressure
- Connection: by low-pressure inflatable seal
- Draining butterfly valve: DN150
- Product flow assistance: fluidiser on the discharge cone, vibrator on the cone or drum bottom

OPERATIONAL MODE

AVGARE TIME OF A COMPLETE CYCLE: 2 MIN.

1. The drum positioning on the inlet conveyor.
2. The drums are led by gravity to the emptying area.
3. The first drum is put at the positioning stop; rubber pads ensure drum accommodation without any impact.
4. When the drum is positioned, the operator can start the tipping cycle. The control of the cycle is conducted by means of two push buttons for lifting and two buttons for descending of the drum. The tipping is ensured by a gearmotor. The moving assembly arrives to abutment against the rubber pads.
5. When emptied, drums return to their initial position under the operator’s control.
6. The operator can then manually move the drums to the soiled drums station.

1. Containment enclosure
2. Flow aid vibrator
3. Containment cylinder
4. Gloves for drum opening
5. Tipping cradle
6. Bottom drum vibrator
7. Motorized drum propulsion conveyor
8. Drum valve
9. Connection inflatable seal
10. Motorized switching group
11. Isolation valve of the collecting hopper
12. Collecting hopper
13. Control panel
14. Cabin with sectional door
Our expertise:

- **FILLING SOLUTIONS FOR BIG BAG AND OCTABIN**
  To fill

- **EMPTYING SOLUTIONS FOR BIG BAG AND OCTABIN**
  To empty, compact and massage

- **SACK, DRUM AND CARDBOARD FILLING SOLUTIONS**
  To fill, package, handle

- **SACK AND DRUM EMPTYING SOLUTIONS**
  To empty, compact, handle, discharge

- **SOLUTIONS FOR PNEUMATIC CONVEYING**
  Vacuum, pressure

- **SOLUTIONS FOR MECHANICAL CONVEYING**
  To transfer with screw, belt conveyor, bucket elevator, aeromechanical or vibratory conveyor, truck loading spout

- **CRUMBLING AND GRINDING EQUIPMENT**
  To granulate, crumble, grind, pound, micronise, disagglomerate

- **SIFTING EQUIPMENT**
  To sift, segregate, sieve, protect

- **CONTAINERS AND STORAGE SOLUTIONS**
  To fill, charge, empty, contain

- **DOSING EQUIPMENT**
  To control, regulate, empty, extract

- **MIXING EQUIPMENT**
  To homogenise, incorporate, fluidify, stir, mix

- **FLOW AND CONNECTION**
  To vibrate, fluidise, unclog, drain, facilitate extraction, control the descent, prevent stacks and vaults, connect

- **INDUSTRIAL DUST COLLECTING EQUIPMENT**
  To filter, clean, confine, secure

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The know-how of our teams, the energy of a group