Sacktip®: Manual Bag Dump Station

Standard

Ex AVAILABLE CUSTOM MADE

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.

Equipment TEST CENTER Available

MANUFACTURING

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

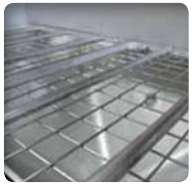
OPERATING SEQUENCE

1. Open the door and set up of 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)

Advantages

The gas cylinders allow the heavy-duty door to be lifted with ease and firmly maintained in an open position

Ergonomic removable table to put down sacks: immediate rest area; stand back for feet clearance; limited space requirement; ergonomic height between 810 mm and 1,075 mm for heavy load; dust-proof closure of the door during the phases of unclogging or CIP



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

Product outlet chute adapted to each particular case: the slope of the hopper allows clearance for knees and feet

STANDARD MODELS

Models	Length of the sacks (mm.)	Flow required for dedusting nozzle (m³/hr.)	Volume* of the hopper (L) *(volume of water)	Unloading diameter (DN)	Height from ground from drain flange (mm.)
S800	650	800	180	250	285
S1000	850	1,000	225	250	285
S1200	1,050	1,200	265	250	285
S1400	1,250	1,400	300	250	285

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

OPERATING SEQUENCE

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

Options

Vacuum sacks lifter

Nozzles/washing rotary heads (CIP)

See all our options on pages 18-19

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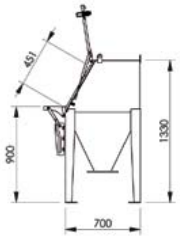
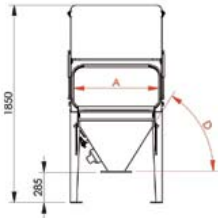
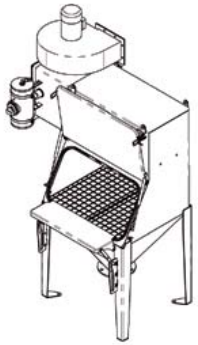
MANUAL BAG DUMP STATION

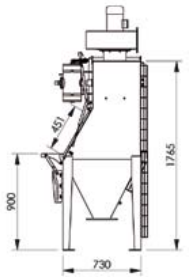


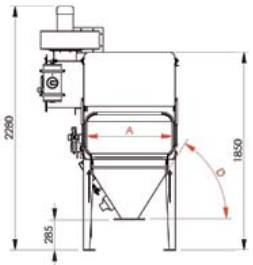


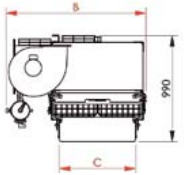
Models	A	B	C	D
S 800	800	905	710	58°
S 1000	1,000	1,105	910	51°
S 1200	1,200	1,305	1,110	45°
S 1400	1,400	1,505	1,310	41°

OPTION: DUST COLLECTOR



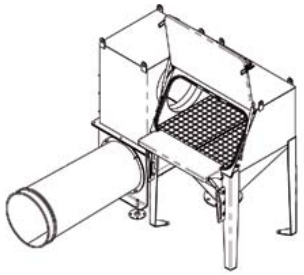


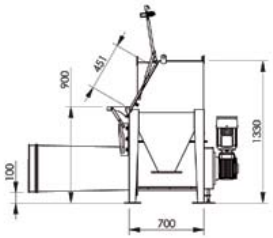


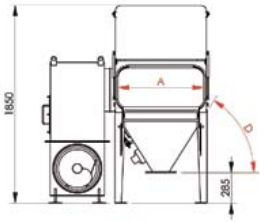


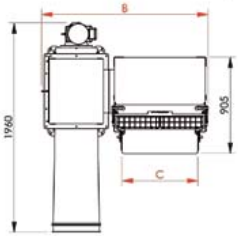
Models	A	B	C	D
SDEP 800	800	1,310	710	58°
SDEP 1000	1,000	1,510	910	51°
SDEP 1200	1,200	1,710	1,110	45°
SDEP 1400	1,400	1,910	1,310	41°

OPTION: COMPACTOR



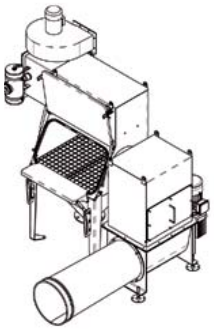


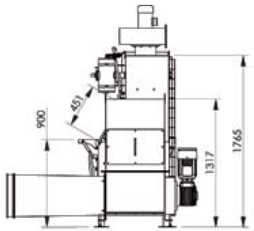


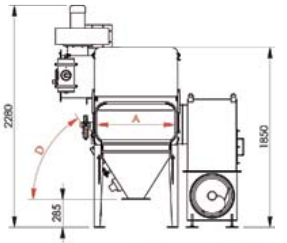


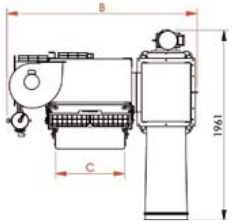
Models	A	B	C	D
SCOMP 800	800	1,560	710	58°
SCOMP 1000	1,000	1,760	910	51°
SCOMP 1200	1,200	1,960	1,110	45°
SCOMP 1400	1,400	2,160	1,310	41°

OPTIONS: COMPACTOR AND DUST COLLECTOR









Models	A	B	C	D
SCOMPDEP 800	800	1,960	710	58°
SCOMPDEP 1000	1,000	2,160	910	51°
SCOMPDEP 1200	1,200	2,360	1,110	45°
SCOMPDEP 1400	1,400	2,560	1,310	41°

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 (13,000 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: < 1kg
Implementation: shock absorber + anti-failover device
Input signal 4-20 mA
Possible profibus 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.