# solutions Sacks & Drums

- EMPTYING

- COMPACTING

- HANDLING

– DISCHARGING



Powder Handling Solutions

# CONTENT

**Equipment EST CENTER** Available Available Available



.\*\*\*.

Means that the equipment can be installed in ATEX zone



Means that design and options can be



more more more

SCREW CONVEYOR 30-220-03

HOPPER TK 30-240

Barter.

MIXER TK 30-200

PALAMATIC PROCESS reserves the right to make changes in the design of the facilities listed in this commercial documentation



30-220-02

30-220-01





Sacktip <sup>®</sup> : STANDARD model
Gacktip <sup>®</sup> Enclosed: DUST CONTAINMENT model
acktip <sup>®</sup> Hygienic: with INTEGRATED SIEVE
CUSTOM MADE manual bag dump station

### OPTIONS FOR MANUAL BAG DUMP STATIONS 18

### - CONTAINMENT AND ERGONOMICS 20

Sack compactor	
Vacuum sack lifter	
Suction booth	
Pouyès ring	

### 🚺 RANGE OF AUTOMATIC BAG DUMP STATIONS 👘

rgotip®	
SAS®	
Ainislit®	
Rotaslit <sup>®</sup>	
/arislit®	
Autotip	

### - DRUM DISCHARGING SYSTEMS DRUMFLOW 50

DrumFlow <sup>®</sup> 01: suction tube	
DrumFlow <sup>®</sup> 02: discharge by extraction of the sack	
DrumFlow <sup>®</sup> 03: tilting	
DrumFlow <sup>®</sup> 04: tilting and caping	

## Unloading Range

## Sacks





Deption CAPTION: CAPT							Options	Not available		
	Sacktip <sup>®</sup>	Sacktip <sup>®</sup> Enclosed	Sackti p <sup>®</sup> Hygienic	Custom made manual unit	Ergoti p <sup>®</sup>	SAS®	Minislit <sup>®</sup>	Rotaslit <sup>®</sup>	Varislit <sup>®</sup>	Autotip®
Sack opening rate (the highest rate may vary according to the operator and the type of sack)	2 - 6 sacks/min.	2 sacks/min.	2 - 4 sacks/min.	2 - 6 sacks/min.	6 sacks/min.	2 - 4 sacks/min.	6 sacks/min.	6 sacks/min.	6 - 12 sacks/min.	15 sacks/min.
Mobile station on wheels										
Dust-proof door		X			х	х				
Security screen	X	Х	X		Х	X	X	X	X	X
Sliding bars		X			X	X				
Foldaway tray	х		X		X	X				
Gravity roller table		Х					X	Х	Х	X
Motorized infeed belt conveyor							X	Х	X	X
Integrated sack compactor						X	X	Х	X	X
Integrated dust collector										
Integrated lump breaker										
Clean In Place (C.I.P.)										
Dosing and weighing										
Hygienic application			X							

### Utilities

Input TOR	0	0	0	According to design	3	5	11	10	9	37
Output TOR	1	1	1	According to design	3	11	3	4	2	13
Installed power (KW)	0,1	0,1	0.6	According to design	0,1	2,5	4,4	5,2	4,5	19,7
Power supply voltage	230V./400V. TRI	230V./400V. TRI	230V./400V. TRI	230V./400V. TRI	230V./400V. TRI	230V./400V. TRI	230V./400V. TRI	230V./400V. TRI	230V./400V. TRI	230V./400V. TRI
Service pressure (bar)	6	6	6	6	6	6	6	6	-	-
Average power consumption (KWh)	0,1	0,1	0,3	According to design	0,1	1,0	4,0	3,5	3,2	9,9
Compressed air consumption (Nm <sup>3</sup> /h.)	4,3	4,3	-	According to design	5,0	6,3	2,0	2,0	-	-
Dust collecting rate (m <sup>3</sup> /h.)	- Dej	pending on the model chose	en -	According to design	-	-	800	800	1,500	2,000



## \_Sacktip®: Manual Bag Dump Station\_

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

All sack stations are provided with dedusting tappings or integrated filters and containment systems for empty packaging.



### - 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 Sealing: EPDM, NBR, natural rubber, silicone Finishes: customized RAL, peening, electropolishing

**2.** Position the bag on the shelf and on the sieve **3.** Open the bag bag compactor (containment of the waste in a polyethylene sheath)





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 and feet the lower part of the unit

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

### STANDARD MODELS

Models	Length of the sacks (mm.)	Flow required for dedusting nozzle (m <sup>3</sup> /hr.)	Volume <sup>*</sup> of the hopper (L) *(volume of water)	Unloading diameter (DN)	Height from ground from drair flange (mm.)
\$800	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 SEOUENCE





Vacuum sacks lifter

Options



Nozzles/washing rotary heads (CIP)

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## \_Sacktip®: Manual Bag Dump Station\_\_\_\_\_Standard\_

### MANUAL BAG DUMP STATION





Models	Α	В	С	D
S 800	800	905	710	58°
S 1000	1,000	1,105	910	51°
5 1200	1,200	1,305	1,110	45°
5 1400	1.400	1.505	1.310	41°

## **OPTION: COMPACTOR**

Α

800

1,000

1,200

1,400

Models

SCOMP 800

SCOMP 1000

5COMP 1400



в

1,560

1,760

1,960

2,160

С

710

910

1,110

1,310

D 58°

51°

45°

41°

06



## OPTION: DUST COLLECTOR



Models	Α	В	С	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°



## **O** OPTIONS: COMPACTOR AND DUST COLLECTOR



Models	Α	В	С	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°







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**Rate:** 2 sacks/min. **Objectives:** ergonomics and containment for toxic materials

Filter unclogging

Security screen

roller convevor

Infeed

Tight door with

glove box

and the second

Hopper

Equipment **EST CENTER** Available

. Perfect ergonomics . Healthy work environment . Advanced dust containment . Operators protection from harmful dust

Dedusting fan

Dust collector

Palamatic

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

![](_page_5_Picture_10.jpeg)

![](_page_5_Picture_12.jpeg)

![](_page_5_Picture_13.jpeg)

working area and to eject

![](_page_5_Picture_15.jpeg)

Side discharge chute for the bag to maintain a clean the "dirty" emptied sack in a contained area

![](_page_5_Picture_19.jpeg)

## **O** STANDARD MODELS

Models	Length of the sacks (mm.)	Flow required for dedusting nozzle (m <sup>3</sup> /hr.)	Volume <sup>*</sup> of the hopper (L) *(volume of water)	Unloading diameter (DN)	Height from ground from drain flange (mm.)
SE 800	650	400	180	250	285
SE 1000	850	500	265	250	285
SE 1200	1,050	600	265	250	285
SE 1400	1,250	700	300	250	285

"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 ...)

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/manual-sack-opening-systems/confined I Download videos & layouts from our website

![](_page_5_Picture_25.jpeg)

![](_page_5_Picture_26.jpeg)

Options

Drum unloading

Slove box for handling

![](_page_5_Picture_31.jpeg)

Support for secured opematerial in a closed and contai- ning tool with support cable ned area: glass and gloves

![](_page_5_Picture_34.jpeg)

Nirror-polished finishes to improve material flow and hygiene. Particularly suitable for the pharmaceutical industry

![](_page_5_Picture_37.jpeg)

## \_Sacktip® Enclosed: Manual Bag Dump Station\_\_\_\_\_Dust Containement.

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

820

### CONFINED MANUAL BAG DUMP STATION

![](_page_6_Figure_3.jpeg)

![](_page_6_Figure_4.jpeg)

![](_page_6_Figure_5.jpeg)

Models	Α	В	С	D
SE 800	1,140	850	2,060	58°
SE 1000	1,340	1,050	2,460	51°
SE 1200	1,540	1,250	2,860	45°
SE 1400	1,740	1,450	3,260	41°

## **OPTION: COMPACTOR**

![](_page_6_Figure_8.jpeg)

Models	Α	В	С	D
SECOMP 800	1,140	850	2,670	58°
SECOMP 1000	1,340	1,050	3,070	51°
SECOMP 1200	1,540	1,250	3,470	45°
SECOMP 1400	1,740	1,450	3,870	41°

![](_page_6_Picture_10.jpeg)

### OPTION: DUST COLLECTOR

![](_page_6_Figure_12.jpeg)

![](_page_6_Figure_13.jpeg)

Models	Α	В	С	D
SEDEP 800	1,140	850	2,060	58°
SEDEP 1000	1,340	1,050	2,460	51°
SEDEP 1200	1,540	1,250	2,860	45°
SEDEP 1400	1,740	1,450	3,260	41°

![](_page_6_Figure_15.jpeg)

## OPTIONS: COMPACTOR AND DUST COLLECTOR

![](_page_6_Figure_17.jpeg)

Models	А	В	С	D
SECOMPDEP 800	1,140	850	2,670	58°
SECOMPDEP 1000	1,340	1,050	3,070	51°
SECOMPDEP 1200	1,540	1,250	3,470	45°
SECOMPDEP 1400	1,740	1,450	3,870	41°

![](_page_6_Figure_19.jpeg)

![](_page_6_Picture_20.jpeg)

![](_page_6_Picture_21.jpeg)

n

## Sacktip® Hygienic : Manual Bag Dump Station\_\_\_\_Integrated Sieve\_

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

![](_page_7_Picture_3.jpeg)

![](_page_7_Picture_4.jpeg)

![](_page_7_Picture_5.jpeg)

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

Sas cylinder to optimize

the door

the ergonomics and to support

![](_page_7_Picture_9.jpeg)

💫 (1) Mirror polish finish -

(2) Rounded corners

![](_page_7_Picture_11.jpeg)

adjustable depending on the

CUSTOM MADE

![](_page_7_Picture_15.jpeg)

>> Vibratory motor to improve the amplitude and intensity of the screen. These settings are flowability of the material and

![](_page_7_Picture_17.jpeg)

### OPERATION

Customized and interchangeable screen mesh

![](_page_7_Picture_19.jpeg)

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

### EASY HANDLING

![](_page_7_Picture_22.jpeg)

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

## Options

![](_page_7_Picture_25.jpeg)

![](_page_7_Picture_27.jpeg)

Vacuum sacks lifter

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![](_page_7_Picture_31.jpeg)

## Sacktip® Hygienic: Manual Bag Dump Station\_\_\_\_Integrated Sieve\_

### MANUAL BAG DUMP STATION - SH 800

![](_page_8_Picture_3.jpeg)

![](_page_8_Figure_4.jpeg)

### OPTION: COMPACTOR - SHCOMP 800

![](_page_8_Picture_6.jpeg)

![](_page_8_Figure_7.jpeg)

### OPTION: DUST COLLECTOR - SHDEP 800

![](_page_8_Figure_9.jpeg)

## OPTIONS: COMPACTOR AND DUST COLLECTOR - SHCOMPDEP 800

1170

![](_page_8_Picture_11.jpeg)

![](_page_8_Picture_12.jpeg)

![](_page_8_Figure_13.jpeg)

![](_page_8_Picture_14.jpeg)

![](_page_8_Picture_15.jpeg)

![](_page_8_Picture_17.jpeg)

# Manual Bag Dump Station Custom Made

![](_page_9_Figure_2.jpeg)

Painted steel, 304L stainless steel, 316L stainless steel manufacturing

> 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.

- 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...

![](_page_9_Picture_16.jpeg)

## OPTIONS\_Manual Bag Dump Station\_

![](_page_10_Picture_1.jpeg)

### VACUUM SACK LIFTER Easy lifting and handling of the bag.

GLOVE BOX

with the outside environment.

MAGNETIC BARS

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.

It guarantees the hygienic process by eliminating foreign substances.

cess. The strong magnetic power capacity (13,000 Gauss) can capture the sub-millimeter particles.

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

The magnetic bars, installed on the dumping system, preserve the quality of materials brought into your pro-

![](_page_10_Picture_4.jpeg)

### 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.

![](_page_10_Picture_8.jpeg)

### 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

These devices allow proper flowing of your bulk materials. They help break vaults or chimneys and greatly

![](_page_10_Picture_12.jpeg)

### fluidization effect against the inner walls of the hopper.

reduce retention.

![](_page_10_Picture_15.jpeg)

### 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.

![](_page_10_Picture_19.jpeg)

### 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

![](_page_10_Picture_24.jpeg)

### 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.

![](_page_10_Picture_28.jpeg)

### 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, dustfree 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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![](_page_10_Picture_34.jpeg)

## Sack Compactor

![](_page_11_Picture_1.jpeg)

# **Compression ratio:** 60 sacks/min.\*

![](_page_11_Picture_4.jpeg)

Example of integrated sack compactor

![](_page_11_Picture_6.jpeg)

Sack type	Size of sacks in mm.	Number of layers	Compacting level
Paper	780 x 450 x 150	4	40-50 sacs/m. of sheath
Paper with liner	950 x 520 x 225	2	40 sacs/m. of sheath
Paper with aluminum liner	950 x 520 x 225	2	40 sacs/m. of sheath
Plastic	650 x 420 x 100	1	60-65 sacs/m. of sheath
Synthetic	850 x 480 x 90	1	55-60 sacs/m. of sheath
Synthetic with liner	850 x 480 x 90	2	50-55 sacs/m. of sheath
	950 x 510 x 170	1	30-35 sacs/m. of sheath
Double layer hessian	950 x 510 x 170	2	20-25 sacs/m. of sheath

![](_page_11_Picture_10.jpeg)

Adjustable tensioning ring

Compacted

empty bags

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, polyethy-

### Characteristics

. Motor 2.2 kW (direct coupling)

pacting tube allows to collect the empty bags at the out-put 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

Compacting screw

![](_page_11_Picture_17.jpeg)

>> 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

![](_page_11_Picture_20.jpeg)

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

![](_page_11_Picture_22.jpeg)

# 2 VERSIONS

![](_page_11_Picture_24.jpeg)

INDEPENDANT COMPACTOR

![](_page_11_Picture_26.jpeg)

![](_page_11_Picture_27.jpeg)

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![](_page_11_Picture_29.jpeg)

![](_page_11_Picture_30.jpeg)

INTEGRATED COMPACTOR

![](_page_11_Figure_32.jpeg)

![](_page_11_Figure_33.jpeg)

![](_page_11_Figure_34.jpeg)

## Vacuum Sack Lifter

![](_page_12_Picture_1.jpeg)

telescopic beam, ide to reach areas with

Wall mounted post and/or articulated.

Improvement in ergonomics
Increased operator safety
Very little maintenance required

from 10 to 80 kg. Advantages :

![](_page_12_Figure_4.jpeg)

Sack dumping unit

![](_page_12_Picture_7.jpeg)

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Hessian bags: vacuum spike

Options

![](_page_12_Picture_13.jpeg)

![](_page_12_Picture_14.jpeg)

**Oversized filter for** dusty bags

Large suction foot

![](_page_12_Picture_20.jpeg)

![](_page_12_Picture_21.jpeg)

![](_page_12_Picture_22.jpeg)

## Suction Booth

Rate: 200 to 2,000 m<sup>3</sup>/hr. **Installation:** ground, table, wall **Objective:** to ensure good distribution of the suction

The operators working directly with powders, especially during packaging or unloading phases, have to work in a dusty environment. The suction booth is close the working area and to minimize the draughts effect. Our standard range

![](_page_13_Picture_4.jpeg)

Working width: 800 to 2,000 mm. Manufacturing: mild steel, 304L stainless steel, 316L stainless steel Finishes: 9006 RAL, bead blasted, electropolished Frontal panels: 1, 2 or 3 panels Air rate reached in open areas: 0.6 to 1 m./s. Air rate reached in dedusting piping: 25 m./s. ATEX grounding clamp Weight: 10 to 50 kg

![](_page_13_Picture_7.jpeg)

![](_page_13_Picture_9.jpeg)

![](_page_13_Picture_10.jpeg)

![](_page_13_Picture_11.jpeg)

scale

![](_page_13_Picture_12.jpeg)

![](_page_13_Picture_13.jpeg)

Suction booth on table

Suction booth for racking Suction booth with integrated

Noom for pre-weighing

## Options

![](_page_13_Picture_19.jpeg)

Sack unloading unit with dedusting panels

![](_page_13_Picture_21.jpeg)

Small packagings skid set up

![](_page_13_Figure_24.jpeg)

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ØΕ

Ø 200

Ø 250

Ø 300

## LPouyès Ring

**Rate:** 150 to 400 m<sup>3</sup>/hr. Installation: reactor, tank, drum.. **Objectives:** facilitate unloading of small packings without any dust emission

- Protection against dust emission
   Rapid connection to all types of equipment, removable and cleanable system

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 m./s. Air velocity reached in dedusting piping: 25 m./s. ATEX grounding clamp Weight: 10 to 50 kg

![](_page_14_Picture_11.jpeg)

![](_page_14_Picture_12.jpeg)

Simplified ring for suction on the periphery of a vertical filling mixer vertical

![](_page_14_Picture_14.jpeg)

Clamping ring for drum

![](_page_14_Picture_16.jpeg)

Dedusting of the working area

dedusting piping

knife gate valve

System connected directly to the reactor for introducing raw material. The system is removable for pressurization of the reactor

## EXAMPLES OF INSTALLATIONS

![](_page_14_Figure_21.jpeg)

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

\*\*\*

The sack opening system  $\mathsf{ERGOTIP}^{\mathfrak{B}}$  is used in all industrial sectors. The cutting system with an articulated blade provides a clear cutting of all types of sacks.

![](_page_15_Picture_8.jpeg)

![](_page_15_Picture_9.jpeg)

## OPERATING PRINCIPLE

![](_page_15_Picture_11.jpeg)

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.

![](_page_15_Picture_13.jpeg)

>> 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.

- Suitable for many types of bags: paper, polywoven, lined...

- Increased productivity
   Airborne dust is drawn into the dust collector, preventing plant contamination
- Easy to clean

![](_page_15_Picture_23.jpeg)

![](_page_15_Picture_24.jpeg)

![](_page_15_Picture_25.jpeg)

![](_page_15_Picture_26.jpeg)

Nolding bar

Integrated sack compactor Not straight the straight term of the straightt term of term Pneumatic cutting cylinder with accumulator for optimal cutting

![](_page_15_Picture_32.jpeg)

### **OPERATING SEQUENCE**

![](_page_15_Picture_34.jpeg)

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

![](_page_15_Picture_36.jpeg)

![](_page_15_Picture_37.jpeg)

![](_page_15_Picture_38.jpeg)

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.

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bottom of the bag.

![](_page_15_Picture_42.jpeg)

/automatic-sack-opening-systems

The blade performs a cut on the

![](_page_16_Picture_1.jpeg)

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

To establish a connection between manual and automatic bag dump stations, PALAMATIC PROCESS offers a 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

in the screen and cuts the bottom of the sack 2. The blade retracts and the material flows into the

3. The bars do the shaking to make the material come

4. The bag ejector bar sends the empty sack into the

### ADVANTAGES

• Pneumatically controlled cutting system that leaves hands free

![](_page_16_Picture_13.jpeg)

![](_page_16_Picture_14.jpeg)

Internal mobile parts of the machine ensuring the shaking and the ejection of the sacks

### OPERATING PRINCIPLE

![](_page_16_Picture_17.jpeg)

1. Articulated cutting blade

![](_page_16_Picture_18.jpeg)

3. Shaking of the sack with

articulated plates

![](_page_16_Picture_19.jpeg)

4. Ejection of the emptied sack to the compactor

![](_page_16_Picture_21.jpeg)

Rotative cleaning nozzles/heads - Clean In Place (CIP)

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2. Programmable cutting cycle

![](_page_16_Picture_25.jpeg)

Screw compactor for the evacuation of the emptied sacks and the reduction of dust emissions

![](_page_16_Picture_27.jpeg)

Ejection of empty bags into the compactor

![](_page_16_Picture_29.jpeg)

Options

Sack lifter

Advantages

![](_page_16_Picture_31.jpeg)

SAS

GENERAL LAYOUT

![](_page_17_Figure_3.jpeg)

![](_page_17_Figure_4.jpeg)

![](_page_17_Figure_5.jpeg)

![](_page_17_Picture_6.jpeg)

![](_page_17_Figure_7.jpeg)

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.

![](_page_17_Picture_10.jpeg)

![](_page_17_Picture_11.jpeg)

![](_page_17_Picture_12.jpeg)

![](_page_17_Picture_13.jpeg)

![](_page_17_Picture_14.jpeg)

![](_page_17_Picture_15.jpeg)

![](_page_17_Picture_16.jpeg)

![](_page_17_Picture_17.jpeg)

![](_page_17_Picture_18.jpeg)

![](_page_17_Picture_19.jpeg)

![](_page_17_Picture_20.jpeg)

SA

![](_page_18_Picture_1.jpeg)

## | Minislit<sup>®</sup>

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

Designed to open bulk sacks with pulverulent products, the automatic dump bag station MINISLIT<sup>®</sup> is available with a ribbon cutting system. Adapted to multiple applications, from aggregates to pharmaceutical products, the parts of the automa-tic 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).

without tearing the material. The patented disc inversion It is particularly suitable for food, chemical and paint in-

Like all other PALAMATIC PROCESS automatic bag dump

The mechanical driving and guiding parts are external which greatly limits the wear and offers the possibility to

## ADVANTAGES

• Suitable for many types of bags : paper, polywoven,

- Minimize operator's handling

- Integrated dust collecting device (option) and sack

steel or diamond coated for applications with abrasive

### Advantages

![](_page_18_Picture_21.jpeg)

External gearing

![](_page_18_Picture_23.jpeg)

## Screw compactor for

### evacuation of empty bags into a plastic sheath and reduction of dust emissions

### OPERATING PRINCIPLE

The belt conveyor trans-

ports the bag directly to the

ribbon-saw cutting system

Vacuum sack lifter and

belt conveyor

![](_page_18_Figure_27.jpeg)

![](_page_18_Picture_28.jpeg)

### MINISLIT<sup>®</sup> THROUGHPUT **CAPACITIES**

PRODUCTS	Sacks per minute
Peanuts	8
Coffee beans	6
PE / LDPE granules	8
Lentils	6-8
Animal feed pellets	5
Dicalite	6-8
Sugar	4-6
Теа	5
PVC powder	4-5
Carbon black	4-6
Soya flour	4-5
Cement	5-6
Starch	4
TiO2	4-5
Aluminium oxide	3-4
Caustic flake	3-4
Ammonium sulphate	3-4
Milk powder	5-6
Filter aid	4-5

![](_page_18_Picture_31.jpeg)

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## **O** GENERAL LAYOUT

![](_page_19_Figure_4.jpeg)

![](_page_19_Figure_5.jpeg)

![](_page_19_Figure_6.jpeg)

![](_page_19_Figure_7.jpeg)

## EXAMPLE OF IMPLEMENTATION

![](_page_19_Figure_9.jpeg)

![](_page_19_Picture_10.jpeg)

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## **O** OPTIONS

![](_page_19_Picture_12.jpeg)

![](_page_19_Picture_13.jpeg)

![](_page_19_Picture_14.jpeg)

![](_page_19_Picture_15.jpeg)

![](_page_19_Picture_16.jpeg)

Vibrating spout for dosing and Dust collector system to homogeneous separation of your vacuum fine particles. bulk materials.

unloading station.

your project.

Inclined conveyor to feed the

center for easy testing of any type of bags.

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

The MINISLIT® automatic bag dump system is a part of our test

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

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

![](_page_19_Picture_22.jpeg)

## EXAMPLES OF INSTALLATIONS

![](_page_19_Picture_24.jpeg)

Application in paint industry

![](_page_19_Picture_25.jpeg)

![](_page_19_Picture_26.jpeg)

![](_page_19_Picture_27.jpeg)

Facility for seeds

![](_page_19_Picture_28.jpeg)

>> Application in petrochemical industry

![](_page_19_Picture_31.jpeg)

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![](_page_20_Picture_1.jpeg)

## Rotaslit®

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

The bags are cut by a multi-blade shaft and transferred by the compacting screw compactor into the

The dust extraction option offers the best solution for rapid automatic opening of sacks with no dust. automatic machine uses only one 3 kW-motor.

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 strenght of this machine isto accep 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

hour (depending on the fluidity of the bulk material) and is available in steel or stainless steel.

### ADVANTAGES

• Suitable for many types of bags: paper, polywoven,

- Minimize the handling by the operator

- Easy to clean

![](_page_20_Picture_22.jpeg)

![](_page_20_Picture_23.jpeg)

![](_page_20_Picture_25.jpeg)

Vacuum lifter to handle effortlessly sacks for an ergonomic working station (option)

![](_page_20_Picture_27.jpeg)

### ROTASLIT<sup>®</sup> THROUGHPUT **CAPACITIES**

PRODUCTS	Sacks per minute
Peanuts	6
Coffee beans	6
PE / LDPE granules	6
Lentils	6
Animal feed pellets	4
Dicalite	6
Sugar	4
Теа	6
PVC powder	3-4
Carbon black	4
Soya flour	6
Cement	4-6
Starch	3
Ti02	3-4
Aluminium oxide	4-6
Caustic flake	4-6
Ammonium sulphate	5
Milk powder	4
Filter aid	6

![](_page_20_Picture_30.jpeg)

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reduce dust emission

>> Screw compactor to discharge the empty bags and to

Opening over the compacting screw

![](_page_21_Picture_1.jpeg)

| Rotaslit<sup>®</sup>

### GENERAL LAYOUT

![](_page_21_Figure_5.jpeg)

![](_page_21_Picture_6.jpeg)

![](_page_21_Picture_7.jpeg)

![](_page_21_Picture_8.jpeg)

### EXAMPLES OF IMPLEMENTATION

![](_page_21_Picture_10.jpeg)

ATEX version

![](_page_21_Picture_12.jpeg)

Feeding of the machine with a vacuum sack lifter

![](_page_21_Picture_14.jpeg)

Rotating blades

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## 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.

Automatons: Siemens, Télémécanique, Allen Bradley, Rockwell

### **O** OPTIONS

![](_page_21_Picture_22.jpeg)

Dust collector ensuring healthy work environment

![](_page_21_Picture_24.jpeg)

Roller conveyor to feed the machine

![](_page_21_Picture_26.jpeg)

Vacuum sack lifter for an

with maximum ergonomics

machine. The rate is guaranteed

effortless loading of the

Belt conveyor, horizontal or

![](_page_21_Picture_28.jpeg)

crushing action

![](_page_21_Picture_29.jpeg)

Steel - Stainless steel manufacturing for all parts in direct contact with the handled materials

![](_page_21_Picture_31.jpeg)

inclined. It integrates detection cells to adjust the flow rate of the machine

![](_page_21_Picture_33.jpeg)

![](_page_21_Picture_34.jpeg)

Pre-crushing of the bags when passing bags with lumps. The passage of the bag in front of the detect sensor starts the

/automatic-sack-opening-systems/rotaslit

![](_page_21_Picture_40.jpeg)

Vibrating chute allows to channel the material flow for introduction into the process downstream

![](_page_21_Picture_43.jpeg)

![](_page_21_Picture_44.jpeg)

![](_page_21_Picture_45.jpeg)

Varislit®

Patented system

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

### TECHNICAL SPECIFICATIONS

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 ...).

### ADVANTAGES

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

### 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.

![](_page_22_Figure_17.jpeg)

![](_page_22_Picture_18.jpeg)

Automatic cutting of the sacks for a rapid opening and increased productivity

Inside view of the VARISLIT® with the

cutting system and the compacting screw

tor and allows him to monitor the speed of

the machine

![](_page_22_Picture_20.jpeg)

📐 External gearing

![](_page_22_Picture_22.jpeg)

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

![](_page_22_Picture_24.jpeg)

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

![](_page_22_Picture_27.jpeg)

Nonitoring touch screen PalTouch® technology

### VARISLIT<sup>®</sup> 6000 THROUGHPUT CAPACITIES

PRODUCTS	Sacks per minute
Peanuts	8-10
Coffee beans	6-8
PE / LDPE granules	10-12
Animal feed pellets	6-8
Dicalite	8-10
Sugar	6-8
Теа	8
PVC powder	5-7
Carbon black	6-8
Soya flour	6-8
Cement	8
Starch	6
Aluminium oxide	6-7
Caustic flake	6-8
Ammonium sulphate	6-7
Milk powder	6-8
Filter aid	6-7

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![](_page_22_Picture_32.jpeg)

## Caustic flake Ammonium sulphate Milk powder

![](_page_23_Figure_3.jpeg)

![](_page_23_Figure_4.jpeg)

![](_page_23_Figure_5.jpeg)

![](_page_23_Figure_6.jpeg)

EXAMPLE OF IMPLEMENTATION

![](_page_23_Figure_8.jpeg)

## 44

![](_page_23_Picture_10.jpeg)

### **O**PTIONS

![](_page_23_Picture_12.jpeg)

Hopper to add additives: preweighed and half sacks

![](_page_23_Picture_14.jpeg)

Stainless steel static chute for the transfer of the powders into the process

![](_page_23_Picture_16.jpeg)

Steel - Stainless steel manufacturing for all parts in direct contact with the handled

Vibrating chute allows to

channel the material flow for

introduction into the process

upstream

materials

the conveying of the sacks towards the drive belts

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

## PRIOR INSTALLATIONS

![](_page_23_Picture_27.jpeg)

Milk powder process

![](_page_23_Picture_28.jpeg)

![](_page_23_Picture_29.jpeg)

![](_page_23_Picture_30.jpeg)

### Neactor feeding through a siflter

Deconditioning of cement with pneumatic conveying

![](_page_23_Picture_34.jpeg)

![](_page_23_Picture_35.jpeg)

![](_page_23_Picture_36.jpeg)

ATEX zone 21 implementation

![](_page_23_Picture_37.jpeg)

Extended body allows to

length up to 1 200 mm

process sacks with a maximum

![](_page_24_Picture_2.jpeg)

The automatic bag dump station AUTOTIP 1200 can open paper, polye-

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).

ting blades. The material then passes through a sifter located directly below the cutting section. This system

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 pactor for collection of empty sacks in a polyethylene

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 opera-tion, the operator simply presses on a stop button on the

### ADVANTAGES

- Easy to clean

## Cutting machine with rotary drum and cutting blade Infeed conveyor for Empty pallet pallets of sacks stacker Pallet tipper and infeed conveyor for sacks

![](_page_24_Picture_18.jpeg)

Rotative drum: separation of powders and sacks

![](_page_24_Picture_20.jpeg)

![](_page_24_Picture_21.jpeg)

Vibrating chute allows to channel the material flow for introduction into the process upstream

![](_page_24_Picture_24.jpeg)

Advantages

## FEEDING PROCESS

![](_page_24_Picture_26.jpeg)

![](_page_24_Picture_27.jpeg)

![](_page_24_Picture_28.jpeg)

![](_page_24_Picture_29.jpeg)

Tilting of the full pallet directly into the machine

Pre-cutting of the sacks

![](_page_24_Picture_33.jpeg)

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![](_page_24_Picture_37.jpeg)

## **O** GENERAL LAYOUT

![](_page_25_Figure_2.jpeg)

![](_page_25_Picture_3.jpeg)

![](_page_25_Figure_4.jpeg)

## EXAMPLE OF IMPLEMENTATION

![](_page_25_Figure_6.jpeg)

### Sacks conveyor for the transport of pallets to the cutting system

### MEDIAS

**O** STRENGTHS

![](_page_25_Picture_9.jpeg)

Palamaticprocess

Empty sack compactor for a

clean working area

operator's intervention

Automatic unstacker for a

![](_page_25_Picture_12.jpeg)

Vibrating chute to ease and loading of the pallet without

control the flow of the material

Þ

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### PRIOR INSTALLATIONS

![](_page_25_Picture_18.jpeg)

Not see the second seco

manufacturer

![](_page_25_Picture_19.jpeg)

Plastic injection plant

![](_page_25_Picture_21.jpeg)

Feeding of the plant by extrusion

![](_page_25_Picture_24.jpeg)

![](_page_25_Picture_25.jpeg)

![](_page_25_Picture_27.jpeg)

# \_Drum Dump Station\_

## \_DrumFlow<sup>®</sup>

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

![](_page_26_Picture_6.jpeg)

![](_page_26_Picture_8.jpeg)

Emptying directly on the pallet, without drum manipulation Suction by VFlow<sup>®</sup> pneumatic conveying range

[+] Advantages No drum manipulation All sizes

Ease of use

## DrumFlow<sup>®</sup> O2

![](_page_26_Picture_13.jpeg)

Confined dump station Drum connection on dump enclosure Removal of the inner sack layer for emptying

### [+] Advantages

Confinement Possibility fo empy sacks Raw material dosing

![](_page_26_Picture_17.jpeg)

DrumFlow<sup>®</sup> O3

Emptying by tilting directly on a collecting hopper Options: suction booth, handling conveyor, facilitated product flowing

[+] Advantages

All sizes

No drum manipulation

### [+] Advantages

Total containment No manipulations CMR toxic products applications

![](_page_26_Picture_21.jpeg)

Drum discharging for

mixer feeding

![](_page_26_Picture_22.jpeg)

operation. This suction pipe is ideal for emptying drums. This system is intended to be coupled with our powder pumps from our VFlow<sup>®</sup> range to discover in our "Pneumatic Conveying" booklet. Vacuum is directly conducted into the drum from the cyclone. The flow rate varies from 100kg/h. to 2t./h. depending on the model of cyclone chosen.

Optionally, the drum or cyclone can be implemented on a weighing system allowing the weighing and the dosing.

[+] Advantage

Integration of a weighing

### [+] Advantage

device, weight gain or loss-in The DrumFlow® 01 solution prevents weight the operator from handling the drums that can be left on the pallet

### DISCHARGING AND DOSING BOOTH FOR RAW MATERIAL PACKAGED IN DRUMS

amount

![](_page_26_Picture_30.jpeg)

www.palamaticprocess.fr/machines-industrielles/solutions-futs/vidange 🔠 Vidéos & plans téléchargeables en ligne

![](_page_26_Picture_32.jpeg)

![](_page_26_Picture_33.jpeg)

 Drum positioning in deconditioning cabin

![](_page_26_Picture_35.jpeg)

Discharge of end products stored

in drums to feed a packing system

Ontainer opening via glove ports and product discharge into the hopper (sieve) 4 Barrel evacuation in the sack and sack sealed closing (no contact with operator)

### Alternative possible

![](_page_26_Picture_38.jpeg)

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

![](_page_26_Picture_40.jpeg)

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

![](_page_26_Picture_43.jpeg)

![](_page_26_Picture_44.jpeg)

Completely confined empand sealed connection

tving by means of containment

DrumFlow<sup>®</sup> 04

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 deconditioning and/or the dosing of the desired

![](_page_26_Picture_50.jpeg)

# Barrel Dump Station

## DrumFlow<sup>®</sup>

### Advantages

![](_page_27_Picture_5.jpeg)

![](_page_27_Picture_6.jpeg)

![](_page_27_Picture_7.jpeg)

Compatible with drums fitted with internal sack

Notic products applications

Maximal containment enclosure for a healthy workplace

### [+] Security

types

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 in open

Control system

The control is conducted by "maintained" push buttons. The cycle is interrupted if the operator looses 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. Hotte de capotage - 2. Tipping cradle with adjustable dimensions - 3. Arbre de basculement directly connected to engine - 4. Damper to maintain drum upper position during tipping (adjustable in height by monitoring system) - 5. Pivoting system with angular sensor - 6. Motorized roller conveyor - 7. Lifted frame for drum maintenance

1. Containment enclosure - 2. Flow aid vibrator - 3. Containment cylinder - 4. Gloves for drum opening - 5. Tipping cradle - 6. Buttom drum vibrator - 7. Motorized drum preparation conveyor - 8. Dump valve - 9. Connection inflatable seal - 10. Motorized switching group - 11. Isolation valve of the collecting hopper - 12. Collecting hopper - 13. Control pannel - 14. Cabin with sectional door

### D TECHNICAL SPECIFICATION

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

## OPERATING MODE

![](_page_27_Picture_25.jpeg)

1. Drum placing on the inlet convevor and on tipping cradle 2. Drum confinement is assured by 3. Drum tilting cradle lifting on the containment cone. The internal cone forks prevent the reversal of the internal sack

4. Connection to the hopper by means of inflatable seal and dump valves opening

### D TECHNICAL SPECIFICATIONS

Rate: 1 barrel/2 min. Manufacturing: framework in painted steel / stainless steel Loading capacity: 180 kg Angle : up to 180° Drum tipping: electrical engine of 5,5 kW

## • OPERATIONG MODE

AVARAGE 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 accomodation 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.

![](_page_27_Picture_40.jpeg)

![](_page_27_Picture_41.jpeg)

## *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
• <b>SACK AND DRUM EMTYING SOLUTIONS</b> To empty, compact, handle, discharge
SOLUTIONS FOR PNEUMATIC CONVEYING Vacuum, pressure
<b>SOLUTIONS FOR MECHANICAL CONVEYING</b> 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

![](_page_28_Picture_4.jpeg)

![](_page_28_Picture_5.jpeg)

contact@palamatic.fr Sales Department: +33 (0)2 22 93 63 08 ZA La Croix Rouge • 35530 Brécé • France Tel: +33 (0)2 99 86 06 22 • Fax: +33 (0)2 99 86 08 10 SAS au capital de 331 822 euros • R.C.S. Rennes B 384 894 093 • APE 4669B • N° T.V.A. : FR 14 384 894 093

![](_page_28_Picture_8.jpeg)