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Sieve Range



PALAMATIC PROCESS HAS DEVELOPED A VIBRATORY AND CENTRIFUGAL SIEVES RANGE FOR CONTROLLING AND PROTECTING YOUR PRODUCTION LINE

Vibratory sieve



The GYRATOR vibratory sieve controls and protects your production line

Page 4

Centrifugal sieve RS 200 - RS 300 - RS 400



 The main goal of the ROTARY centrifugal sieve is to eliminate foreign bodies, reduce clogging and perform granulometric separation

Page 20

Comparison of 2 technologies

	Vibratory	Centrifugal
INDUSTRY SECTORS		
Food & Feed	Х	Х
Chemical	Х	Х
Fine Chemical	Х	Х
Mineral and building industries	Х	
Water treatment and flue gas	Х	х
CAPACITY	Average up to 6.5 t./h.	High up to 70 t./h.
AVAILABLE OPTIONS	yes (cf page 14)	no

^{*} These capacities are achieved with a screen of 2 mm.

GOALS AND ADVANTAGES OF THE PALAMATIC PROCESS RANGE

Machines protection
Removal of foreign bodies
Grain size separation of materials received in bulk or in sacks
Clogging elimination
Mild steel, 304L and 316L stainless steel manufacturing
Capacities from 1kg to 70 t./h.

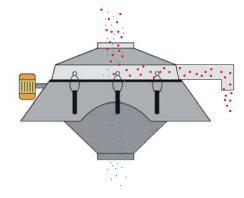
OPERATING MODE

VIBRATORY SIEVE

The sieving operation is performed by one or two vibrating motors set up on the side of the machine.

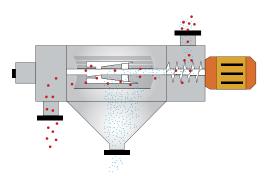
The feeding is ensured by the superior central flange connected by the flexible fitting. In most cases, the product supply must be controlled to ensure correct sieving without clogging of the mesh. The agglomerates are broken and the foreign bodies are eliminated

The mesh screen is available in stainless steel or nylon and in wide range of sizes to suit the exact needs of the customer and each material specificity.



CENTRIFUGAL SIEVE

The internal screw of the centrifugal ensures the metering and the sending of the material into the cylindrical grid. Outside of this grid, a rotating shaft with blades spreads the product against its walls. Thanks to centrifugal force, the sieved material passes through the mesh and the existing foreign bodies are trapped by the mesh and conveyed towards the discharge spout. With the impact of the powder, the sieve grid vibrates to accelerate and reduce the risk of clogqing.



Vibratory sieve

Range of Vibratory Sieves

The powder screening provides a high level of protection of your machines by eliminating foreign bodies; it agglomerates and guarantees the quality of your production. The PALA-MATIC PROCESS vibratory sieves eliminate wastes with precision and are perfect for a secured screening from the materials reception stage till the end of the manufacturing process. They can be implemented easily on a new or existing production line. Our screeners can be cleaned, assembled and dismantled with minimal effort by using the mounted quick-release



Hygienic design Clean In Place (CIP) Robust and high quality manufacturing **Economic solution and durability** Mild steel, 304L and 316L stainless steel













No retention area, easy cleaning for a minimal maintenance



Easy change of the mesh screen



Tool-free quick release clamping for fast and easy disassembly



Possibility to implant it on pneumatic conveying pipe

GSC 450

Models	GSC 450	GSC 600	GSC 900
Ø of the mesh in mm.	560	730	1,012
Height in mm.	371	537	676
Weight in kg	150	200	250
Electric power	2 x 0.16 kW	2 x 0.37 kW	2 x 0.6 kW

GSC 600



Hygiene of the final products is the main problematic for the industrial processes.

The treatment of the foreign bodies, at the beginning and at the end of the production process, has become a standard in all industries with high added value.

The vibratory sieve (GYRATOR) controls your production line by providing a clean material, without clods and foreign bodies and protects your process from potential mechanical damages.

These screeners are suitable for all sectors such as food, pharmaceutical, chemical and synthetic industries; and guarantee a very high-quality final product. It can feed directly a pneumatic conveying line or use gravity.



These rates are achieved with flour type 55



Options



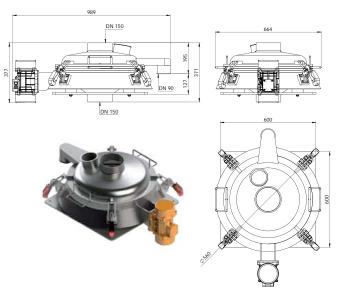


Vibratory sieve

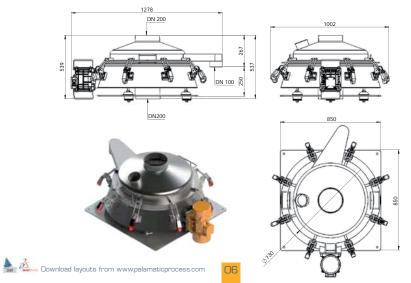
Layouts



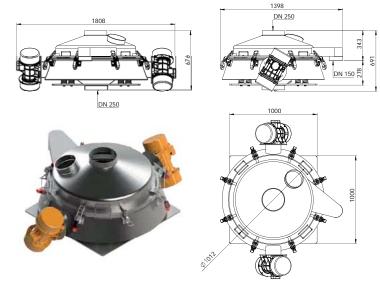
O VIBRATORY SIEVE - GSC 450



VIBRATORY SIEVE - GSC 600



VIBRATORY SIEVE - GSC 900



• ALTERNATIVE: VIBRATORY SIEVE WITH DOUBLE DECK



Vibratory Sieve

Ultrasonic System Declogging Rings and Balls

TO PREVENT CLOGGING AND BLOCKING OF THE MESH

Ultrasonic sieve unclogging system has revolutionized the way difficult powders are screened on sieve meshes by increasing the quality of the material and avoid breaks time. PALAMATIC PROCESS offers unclogging solutions to overcome the problems caused by those difficult materials.

D ULTRASONIC SYSTEM

Its principle consists in the setting of microvibrations of the screen mesh wire. The use of the ultrasonic option eliminates material clogging and facilitates the passage of the material through the mesh screen.

The ultrasonic unclogging system allows greater sifting throughput when using low passing grid. It handles low density fine particles ($40 - 60 \mu m$) thanks to the setting up of a variable generator or rings for a dispersion of sound waves.









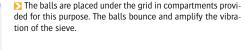
The ultrasonic device is specially designed for finer meshes < 200 μ m. Depending on the sifter dimensions (450, 600 or 900) two ultrasonic generators may be needed.

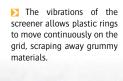
DEBLINDING BALLS AND SLIDERS











Quick Disassembly



The vibratory sieve design does not have any retention areas and improves the efficient treatment of the material with no loss of material.

The clamping system allows a simple and quick assembly, disassembly and cleaning of the entire machine.

• DISASSEMBLY STEPS OF THE SIMPLE DECK SCREENER STAGE



Entire vibratory sieve with flexible connection spout



Vibratory sieve without mesh screen

▶ Hygienic design and quick-release clamps allow rapid removal of screens and tool-free disassembly of frames. PALAMATIC PROCESS screeners are suitable for numerous applications and industries where cleaning and cross contaminations are very important.



Vibratory sieve without cover plate



Vibratory sieve without internal cone



____________________________online in Pneumatic Conveying Lines_



Case Studies

The robust and tight construction of the sieve enables this configuration and prevents the loss of

With its design totally enclosed and its very low pressure loss (0,213 psi), the PALA-MATIC PROCESS GSC sieve is ideal for being set up in pneumatic conveying lines. The product arrival is performed facing the mesh screen sieve. This configuration improves the sieving thanks to the generated impact. The waste flanges are still possible with the setting up of controlled valves.

The sieve can be used on dense phase pressure or vacuum conveying system.

[+] Advantages

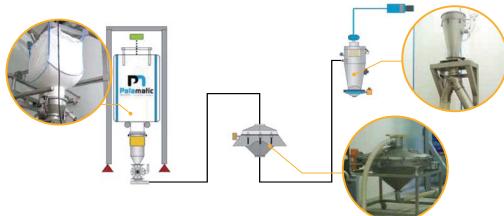
- Implantation at floor level
- Reduced size
- Optimized throughputs
- No product loss

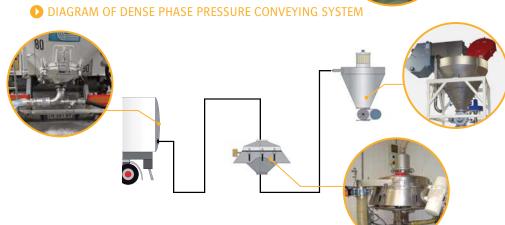
INGREDIENTS MANUFACTURER FOR PETFOOD INDUSTRY

The pneumatic conveying pipeline is directly installed upstream the filling machine of endproducts and integrates a GSC 450 sieve to guarantee a product free of contaminants. The PALAMATIC PROCESS big bag discharge station insures the feeding of the starting point



DIAGRAM OF DENSE PHASE VACUUM CONVEYING SYSTEM





MANUFACTURE OF SPICES AND VANILLA SUGAR

After having passed through the PALAMATIC PROCESS mixer, the materials are transferred to the vibratory sieve and the big bag loading station via a dense phase pressure conveying

This configuration eliminates contaminants and cloggings from the production process which are formed during the liquid introduction phase.



TRUCK DISCHARGING TO FEED THE SILO

Once the tanker full of bulk materials is received, the operator connects the flexible spout on the vibratory sieve. This configuration controls the quality of the batch and fills the silo with a material free of foreign bodies.



DAIRY INDUSTRY

At the outlet of the atomizing tower, the vibratory sieve ensures the spray quality. This configuration enables sieving of materials with high rates of fat (26%).



Examples of Implementations



DISCHARGE OF FEED MIX

Customer: Specialist of aroma for petfood Products: Appetence flour for animals

Goals: Design and implement a workshop to improve mixing and increase productivity while insuring an optimal containment.

PALAMATIC PROCESS equipment:

Big bag discharge stations, pneumatic conveying (10t./hr.), two mixers of 2,000 l., big bag loading stations with sieving and magnetic control.



AROMAS DECONDITIONING

Customer: Manufacturer of vanilla extracts, cocoas and coffee desi-

gned for a food industry

Product: Cocoa

Goals: To ensure reactor feeding.

PALAMATIC PROCESS equipment:

Automatic bag opening station MINISLIT®, conveying screw, vibratory sieve in ATEX 2/22 zone.



SIEVE INTEGRATED IN BAG DUMP UNIT

Customer: Company from the food industry manufacturing chocolates, confectionary products, condiments, seasonings

Products: Cacao powder

Goals: The company asked for a system to manually open and dicharge sacks containing powder materials or granulates in a dustfree environment.

PALAMATIC PROCESS equipment:

Bag dump station integrating a sieving system, sack compactor, dust collector and pneumatic transfer cyclone.



BIG BAG UNLOADING UNIT TO FEED SILOS

Customer: Chemical industry

Products: Micronized catalytic converters

Goals: To ensure contamination-free end-product at the output of the automatic big bag discharge

station.

Specifications: Capacity 80 t./h. **PALAMATIC PROCESS equipment:**

A confined big bag discharge station ensures feeding of the vibratory

sieve through a conveying screw.



CONFINED CONDITIONING LINE

Customer: Company specialized in beets, cane and cereals sugar processing

Product: Gluten

Goals: To package raw materials without any grain size damage with a flow rate reaching 25 t./hr. and to detect and remove foreign objects. The entire installation complies with ATEX 20/22 regulations.

PALAMATIC PROCESS equipment:

Conveyor and pallets unstacker, pneumatic conveying with explosive vent on cyclofilter, vibratory sieve and inline magnetic detector, weight-scaling with rotary airlock and FlowMatic®04 big bag load station.



PRE-DRUG MIXING PROCESS

Customer: Manufacturer of veterinary pharmaceutical preparations

Products: Pre-drug mixture

Goals: To improve the process productivity.

PALAMATIC PROCESS equipement:

Manual bag dump station, vibratory sieve,

VFlow®05 pneumatic vacuum conveying system,

big bag loading and unloading stations.



OPTIONS_Vibratory Sieve_



FLEXIBLE CONNECTION SPOUT

For a tight connection to the screener.

The flexible BFM fitting tightly connects the sieve, statically and dynamically, to the upstream piece of equipment. The sleeve can be mounted in-line, on an offset position or on oscillating parts.



INSPECTION HATCH

This opening enables inspection and cleaning of the screener.

The sieve is an integral part of the feeding hopper and is equipped with an inspection hatch for easy control and cleaning in a secured way.



► ULTRASONIC ANTI-CLOGGING DEVICE

To avoid clogging of particles in the sieve meshes.

The ultrasonic system is an option allowing sifting of powders at high rates with no screen blocking.



MULTI-DECK

For unclogging balls use.

The sieve is composed of two decks with a superior and inferior mesh screen. The two screens are sufficiently apart to allow balls to bounce between them. The size of the inferior mesh screen is about 10 mm to sustain



I IFTING CRANK HANDLE

To facilitate the handling of the sieve.

The lifting crank optimizes the ergonomic and the handling of the sieve by a single operator.



SIEVE MESH SCREEN

To stop foreign bodies and eliminate cloggings.

The mesh screen of the sieve is available in steel, 304L and 316L stainless steel. The size of the meshes are adapted to the product and to the desired grain size.

The mounting of the mesh screen is easy due to the double sealed flanges. The rapid fixation is assured by



DECLOGGING BALLS AND RINGS

Mechanical anti-clogging system to free the screen from materials.

Anti-clogging devices are positioned on the grid of the sieve to promote the unclogging of the material to ease its passage through the grid.



MANUFACTURING MATERIALS

Manufacturing materials are adapted to specificities of your process and your materials: mild steel, stainless steel 304L and 316L.



CLEAN IN PLACE

Possibility to set up cleaning nozzles.

The mesh screen of the sieve can be dismantled for an easy cleaning process.



OUTLET FOR OVERSIZED PARTICLES

To collect foreign bodies or oversized particles

_Sacktip® Hygienic: Manual Bag Dump Station___Integrated Sieve_

Possibility of customization

Rate: 4 to 6 sacks/min.

Objectives: Protection against foreign



Available







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



Customized and interchangeable screen mesh



Gas cylinder to optimize the ergonomics and to support the door



(1) Mirror polish finish -(2) 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



OPERATION



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

EASY HANDLING









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

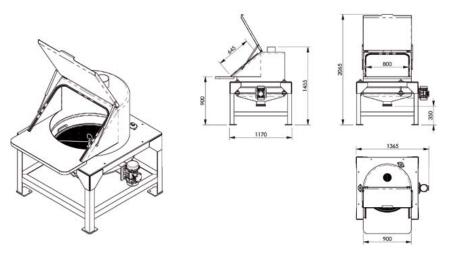
Options



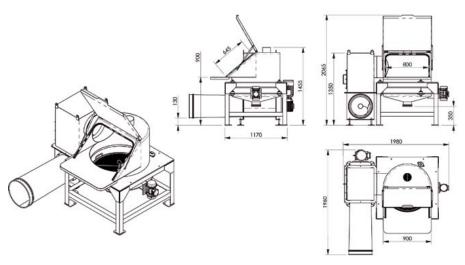


Standard Models SH 800

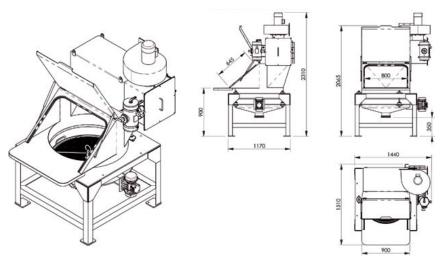
MANUAL BAG DUMP STATION - SH 800



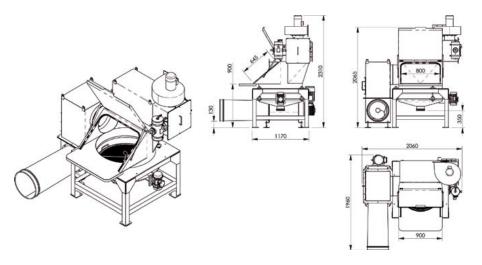
OPTION: COMPACTOR - SHCOMP 800



OPTION: DUST COLLECTOR - SHDEP 800



OPTIONS: COMPACTOR AND DUST COLLECTOR - SHCOMPDEP 800



Centrifugal Sieve

powders and granulates. A paddle assembly rotates at high speed inside a stationary cylindrical screen and the material passes through the static screen by centrifugal action. The waste material is ejected toward the outlet located at the end of the screen basket. Our centrifugal sieves quarantee high sanitation standards and the respect of the quality of the handled materials.



RS 200

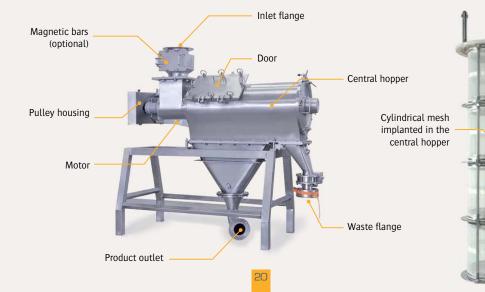


RS 300



RS 400

RS 300 300 400 200 1.034 1 034 Weight in k 170 270 350 2.2 3.7 5.5





Completely tight Operates quietly, no vibration

The mesh screen can be changed in less than two minutes

Continuous operation

Low energy consumption

Online application on a process, possibility of implementation on the pneumatic conveying line



inlet channel



Screen disassembly



Compact design



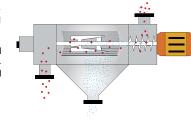
Access door

Advantages



The main objectives of the centrifugal sieve ROTARY® is to eliminate foreign objects, reduce cloggings and operate a granulometric separation of products received in sacks or in bulk.

The ROTARY® centrifugal sieve guarantees clean end products, without clogs and free of contaminants. It protects your production line from potential mechanical damages. This sieve is the perfect solution to obtain a high-quality final product and suitable for feed and food, pharmaceutical, chemical or even synthetic industries.





Inside view



Waste outlet setting

	Capacity in t./h.*								
Size in mm.	RS 200	RS 300	RS 400						
0.2	1.6	2.67	3.57						
0.4	4.4	7.35	9.81						
0.6	8	13.36	17.84						
0.8	11	18.37	24.53						
1	15	25.05	33.45						
1.4	20	33.4	44.60						
2	24	40.08	53.52						
3	27	45.09	60.21						
4	29	48.43	64.67						

Options





Mild steel, 304 L/316L stainless steel manufac turina

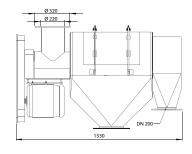
Centrifugal Sieve

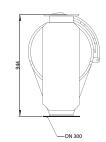
Layouts

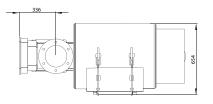


3 Standard Models: RS 200 - RS 300 - RS 400

● CENTRIFUGAL SIEVE - RS 200

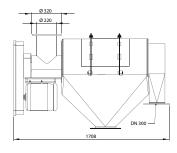


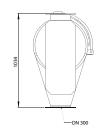


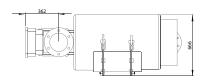


Models	RS 200
Ø of the mesh in mm.	200
Height in mm.	944
Weight in kg	170
Electric power in kW	2.2

CENTRIFUGAL SIEVE - RS 300



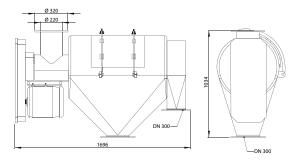


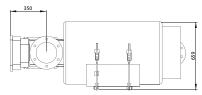


Models	RS 300
Ø of the mesh in mm.	300
Height in mm.	1,034
Weight in kg	270
Electric power in kW	3.7

Download layouts from www.palamaticprocess.com

● CENTRIFUGAL SIEVE - RS 400





Models	RS 400
Ø of the mesh in mm.	400
Height in mm.	1,034
Weight in kg	350
Electric power in kW	5.5

• GUIDE RAIL FOR THE RS 400 SIEVE

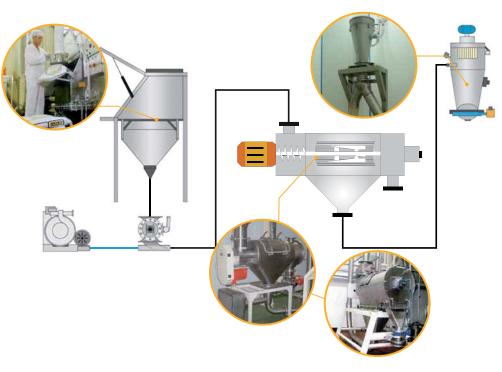
The design of the machine has been developed for a quick and assisted disassembling for an easy access to the sieve screen. The integrated guide allows a daily inspection.



Centrifugal Sieve___online in Pneumatic Conveying Lines_



● INLINE PNEUMATIC CONVEYING DESIGN



The centrifugal sieve design is totally enclosed and resistant to the pressure of the pneumatic conveying. The setting up of the screener on a conveying line involves very low pressure loss.

The horizontal centrifugal sifter construction can be mounted at floor level and insures an easy access to the equipment.

• ACCESS TO THE MESH SCREEN AND CLEANING

The mesh is very easy to remove for cleaning or changing. The easy and quick access is crucial for operators in order to limit the time dedicated to cleaning and maintenance phases. PALAMATIC PROCESS sieve is highly ergonomic.







▶ INTERIOR VIEWS OF THE CENTRIFUGAL SIEVE







• EXAMPLES OF IMPLEMENTATIONS



Company: Energy sector

Product: Sawdust

Application: Sawdust sieving before introduction into the grinder to get a product free of

Implementation: In the outlet of the big bag discharge station, the screener feeds the

grinder loading screw.



Company: Spices

Products: Paprika, curry, pimento

Application: Sieving operation for security before conditioning.

Implementation: At the container outlet.



Company: Milling

Product: Flour

Application: To guarantee a product free of larvas. The end product is re-conditionned in

Implementation: Under the mill.



Company: Food sector

Products: Sugar, mesh screening 2 mm.

Application: RS 200 centrifugal sieve to feed the PALAMATIC PROCESS grinder (skid for

icing sugar production).

Implementation: At the sack emptying unit outlet.

LMagnetic Separator



TO ATTRACT AND ELIMINATE ALL THE FERROUS PARTICLES FROM YOUR MIXTURE TO PROTECT YOUR PRODUCTION LINE

The hygienic regulations require very high-quality rules. The magnetic separator system is ideal to attract instantly ferrous particles, weakly magnetized or of very fine size. It securely holds them on its bars, keeping unwanted material out of the final product.

its bars, keeping unwanted material out of the final product.

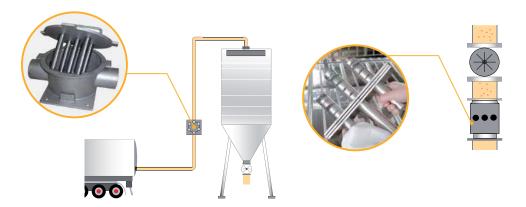
The magnet positioned at the installation inlet and outlet has became a standard for numerous companies to protect the equipment and the production lines.



With Magnetic Bars

The magnetic bars helps to wipe out the problem of ferrous contamination improving product quality in numerous industries working with flour, powders, plastic granulates, sawdust etc... These bars are positioned amidst the product flow and firmly holds the ferrous particles on its bars.

Power from 6,000 to 10,000 Gauss.



[+] Advantages

- Detection and captation at the entry point to:
 - qualify the suppliers and the raw materials at the reception of the material
 - avoid foreign bodies during the manufacturing process and prevent from any damages of the machines
- Detection at the output of the process line to:
 - get a finish product of high quality



POSSIBLE DESIGNS

Static (1 or 2 grids)

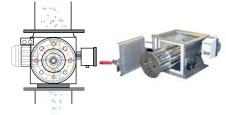
The magnetic single grid magnetic detector is designed to stop ferrous particles present in the material flow. It works by keeping the undesired material out of the final product. The quick-cleaning magnets are configured for an easy maintenance. The section can be square or circular.

The stainless steel magnetic separator, made with two magnetic grids placed underneath each other, provides the same advantages as the single magnetic grid but it is more effective due to its special layout; it improves the material quality and limits a number of cleaning interventions.



Rotative grid

The rotative magnetic bars enable the detection of all types of metals to provide a clean product as well as protect your production line. The rods are arranged in a circle which rotates gently agitating the material and maintaining its flow.

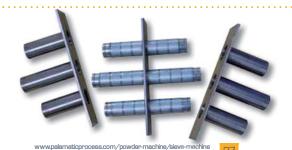


Inline magnetic bars

They guarantee (in dry phase) the purity of materials with optimum decontamination of particles from 20 μm and eliminates ferrous objects.

The magnetic bars are installed on the pneumatic conveying pipes.





🌉 Download videos & layouts from our website

CLEANING

The magnetic bars are mounted with scabbards for possible implementation on drawer for easy cleaning.

LMagnetic Separator

Metal Detector

Case studies

FERROUS SEPARATOR FOR GRAVITY APPLICATION

This gravity detector is manufactured to suit any gravity application. This system is ideal to manage the free-flowing material regardless its location on the production line. When powdery or bulk materials pass through the metal detector, the small ferrous contaminants are immedialty separated from the flowing material. The equipment can be equipped with an automatic waste flange system. It is the optimal solution to control cocoa, coffee, sugar, aromas, fruit and dry vegetables, flour, rice, chemical and plastic granulates.



[+] Advantages

- Excellent detection of ferrous particles, resistance to maximum interference and high reliability.
- Permanent and automatic self-calibration with self-balancing and temperature compensation.
- Fully automatic operation is guaranteed after setting the level of sensitivity and the duration of ejection to the desired values.

PROCESS FOR FOOD PRODUCTS «SPRAYING»

Magnetic detection with bars as close as possible to the big bag loading station. The product conditionned is free of contaminants. The magnet injection is made by removal of a quarter turn.



PROCESS OF MILK POWDER WITH FAT MATERIALS

Considering a difficult product flowing, the rotary magnetic bar technology enables keeping a high throughput as well as guarantees a high quality of the material.

The rotary solution guarantees the throughput of difficult materials.



CONVEYING UNDER SILO

Directly set under the silo, the magnetic double grids feeds the pneumatic conveying pipeline. To facilitate the daily control of the production, a magnetic drawer is installed under the rotaty valve transfer giving access to the magnets. The mechanical design of the drawer ensures high resistance to pressure.



PNEUMATIC CONVEYING FEEDING

The magnetic bars, installed on the pneumatic conveying line, control the materials coming from various loading points. This configuration optimizes the investment cost and compact design.



Big bag loading system of chocolate balls equipped with gravity metal detector with suspended ejector

Sampler





Case Studies



The sampler removes a representative sample from the whole cross section of the material and keeps it confined without any contact with the air. The confined collection of the material guarantees the operators' security.

D 3 TECHNOLOGIES

Screw sampler



The end of the screw is situated in the product flows

Piston sampler



Valve system with a manual piston

▶ Pipe spoon sampler



Pneumatic screw or piston

DOUTLET OF THE SPRAY TOWER

tower to control the batch production.



SAMPLER ON CONDITIONING STATION

The automatic and sequenced steering ensures regular sampling.

The sampler is set up on the big bag loading station. It ensures an automatic collection of representative samples to each loading station. Thus, the traceability is guaranteed.

The pneumatic screw sampler is directly set up on the receiving cyclone filter of the spray



D 3 TYPES OF ACTUATORS

▶ Manual actuator screw



A wheel allows sampling

Manual actuator piston



Automatic sampler with pneumatic cylinder

SAMPLER ON MIXER

Due to the complex mixing process, the sampler on the mixer helps to define the mixing time and the relative incorporation.

The final sampler is a guarantee of the quality of the mix before discharging.



DISASSEMBLY FOR CLEANING PROCESS





Sample collection in a plastic bottle



MULTI-POINTS SAMPLER

The quality requirements call for regular sampling in different steps of the process. The pipe spoon sampler is a very efficient solution and it saves money.



LTest Center





1 3 STEPS TO VALIDATE YOUR PROCESS

Step1 - Before Test

- Select the likely optimal machine confi Process validation for product testing guration based on your technical requirements (powders, flow rate, dosing) •
- Draft test proposal by our sales-engineers representatives

Step 2 - During Test

- Perform testing and sample collection
- Discussion on results after the test with machines (phase diagram, degradation tests fines content)

Step 3 - After Test

- Analysis of machine test data and samples
- Write a summary report
- Collaborate on the optimal solution for vour requirements

Come with your materials Participate in selecting the test

Maximize your productivity

Submit a quotation

- An individual consultation with and on-going support by our R&D engineers
- Confirmation of the appropriate machines to conduct a test with your product
- Tests at various operating conditions to define the most efficient process according to your industrial requirements
- Evaluation of the profitability of equipment configuration
- Possibility to test additional options using PALAMATIC PROCESS' range of products
- Maximize the return on your investment
- Maximize the optimum selection of the proper machine
- Capitalize on the wide experience of our experts

300 configurations

- + than 300 process configurations
- 2,400 sq. feet of surface dedicated to the test
- 35 industrial machines
- 35 feet of ceiling
- Test with all types of products
- · 2 support engineers
- · ATEX configurations

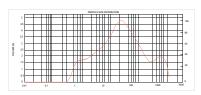
Laboratory for Powders Ex CANADE



PALAMATIC PROCESS powder laboratory has been built for the needs of all industrials looking for production machines that would meet their expectations.



Example of grading curve



Size (µm)	Vol. Under %	Size (µm)	Vol. Under %	Size (µm)	Vol. Under %	Size (µm)	Vol. Under %	Size (µm)	Vol. Under %	Size (µm)	Vol. Under
0.250 0.271 0.293 0.317 0.343 0.372 0.403 0.436 0.472 0.553 0.599 0.648 0.702 0.702 0.702 0.890	90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0	0.954 1.043 1.130 1.223 1.324 1.433 1.552 1.680 1.819 1.969 2.131 2.308 2.498 2.4705 2.928 3.170 3.432	000 001 015 043 0.77 1.18 1.66 2.19 2.77 3.38 4.01 4.66 5.33 6.00 6.67 7.35 8.04	3.715 4.022 4.354 4.714 5.103 5.525 5.981 6.476 7.010 7.590 8.217 8.895 9.630 10.426 11.287 12.219 13.229	8.73 9.43 10.14 10.87 11.61 12.36 13.11 13.88 14.66 15.44 16.22 17.00 17.79 18.57 19.36 20.14 20.93	14.322 15.505 16.785 18.172 19.673 21.298 23.058 24.963 27.025 29.257 31.674 34.291 37.124 40.190 43.510 50.996	21.72 22.52 23.32 24.14 24.98 25.84 26.72 27.65 28.61 29.62 30.68 31.79 32.97 34.21 35.53 36.91 38.37	55.209 59.769 64.707 70.052 75.839 82.104 88.887 96.230 104.179 112.785 122.189 143.109 154.931 167.730 181.586 196.586	39.90 41.50 41.50 44.94 46.77 48.67 50.63 52.66 54.74 55.87 59.03 61.23 63.43 67.83 67.83 69.98 72.08	212.826 230.407 249.441 270.047 292.355 316.506 342.652 370.959 401.603 434.779 470.696 509.579 551.675 597.248 646.586 700.000	74.11 76.06 77.90 79.63 81.24 82.27 84.06 85.27 86.35 87.32 88.18 88.96 90.33 90.96 91.59







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 EMTYING SOLUTIONSTo empty, compact, handle, discharge

SOLUTIONS FOR PNEUMATIC CONVEYING Vacuum, pressure

SOLUTIONS FOR MECHANICAL CONVEYINGTo transfer with screw, belt conveyor, bucket elevator, aeromechanical or vibratory conveyor, truck loading spout

CRUMBLING AND GRINDING EQUIPMENTTo granulate, crumble, grind, pound, micronise, disagglomerate

SIFTING EQUIPMENTTo sift, segregate, sieve, protect

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

DOSING EQUIPMENTTo control, regulate, empty, extract

To homogenise, incorporate, fluidify, stir, mix

To vibrate, fluidise, unclog, drain, facilitate extraction, control the descent, prevent stacks and vaults, connect

IDUSTRIAL DUST COLLECTING EQUIPMENT

To filter, clean, confine, secure





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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

