



# Products catalog



**BIN ACTIVATORS**



**BIG BAG UNLOADERS**



**SPARE PARTS**



**ARCHIMEDEAN SCREWS**



**SPECIAL PROJECTS**



## Contact us!



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### Sky view of our facilities:

- Surface 6000m<sup>2</sup>
- Specific workshop dedicated to stainless steel
- Carbon steel workshop
- Laser cuts area
- Spare parts warehouse



Fabriqué en France

All our products are made in France in our factory based in Gondecourt (59).



reseauentreprendre  
nord

ISERCO is Prize-winner of the network "Réseau Nord Entreprendre"

# SUMMARY



**p 4**

## **Discover the ISERCO company, bulk handling specialist since 1981**

The main stages of the company ISERCO, our projects around the world, our expertise, our machinery park...

**p 8**

## **Bin activators**

Why a bin activator? Description, equipment and realized installations

**p 14**

## **Big bag filling stations**

Why a big bag station? Description, big bag emptying stations, big bag filling station, equipment and realized installations

**p 24**

## **Archimedean screws**

Why an Archimede screw? Description, equipment and realized installations

**p 28**

## **Spare parts**

Our spare parts for the maintenance of your installations

**p 31**

## **Special projects**

Our know-how beyond the classic equipment

**p 32**

## **Expose-us your needs**

We are at your disposal to meet your expectations. Explain your needs and we will contact you.

**p 34**

## **Retro minute : our former advertisements**

Go back in time with our amazing advertisements



# ISERCO

## BIN ACTIVATORS AND BIG BAG UNLOADERS SINCE 1981

1981

Mr. Michel HAQUETTE creates the company ISERCO, having for sole activity the manufacturing of bin activators. "I" like Industries and Installations, "SER" like Services, "CO" like Counsel/advise

1987

Increasing the production area to 1600m<sup>2</sup>.

1993

**Innovation** of standard sealing bolted between silo and extractor.

1995

Level of **5000** references sold, increasing the production surface to 3000m<sup>2</sup>

2000

**International Patent** filing CAO2000

2005

Increasing the production surface to 5000m<sup>2</sup>

2014

Second life for ISERCO, the relay is taken over by **Mr. Antoine DEWITTE** and **Mr. Gaëtan DUMETZ**. The objective remains the same: designing and manufacturing high quality equipment suitable for each application.

2015

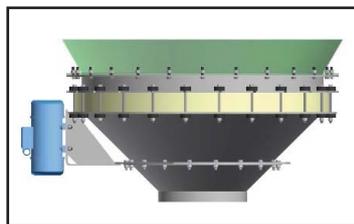
ISERCO makes **70%** of its turnover from export



Michel Haquette / « La Voix Eco » photography



Bolted sealing



Patent CAO 2000



Gaëtan DUMETZ & Antoine DEWITTE / « Réseau Entreprendre Nord » photography

# 35 YEARS

## AND ALREADY MORE THAN 20 000 REFERENCES WORLDWIDE



ISERCO settlements in the world



# OUR EXPERTISE : BULK HANDLING

ISERCO is, by its geographical location, the partner of many companies in various fields. Our know-how and expertise in equipment for bulk handling are to service our customers.

Because we know that each business area requires specific needs.

*Whatever is your activity area*

**Food industry**

**Fish meal**

**Animal feed**

**Water treatment**

**Recycling**

**Mineral**

**Chemicals**

**Environment**

**Plastic industry**

**Para-Pharmaceutical industry**



# A HIGH-TECH MACHINERY PARK AT YOUR SERVICE



## Our machinery park includes:

- Laser cutting machine BYSTRONIC BYSPRINT 4020
- 2 welding robots KUKA (Plasma + Mig)
- Welding units FRONIUS MIG
- Rolling devices HACO
- A custom-made machine for the manufacturing of connection sleeves
- Surface treatment (Pickling, Passivation, Glass-bead blasting, Sand blasting, Painting)

## STANDARDS TO ANSWER ALL YOUR NEEDS

### We answer the standards:

#### - ATEX

The regulations ATEX (EXPLOSIVE ATMOSPHERES) arises from two European directives (94/9/CE or ATEX 137 for equipment intended to be used in zones ATEX, and 1999/92/CE or ATEX 100A for the safety of the workers).



#### - Norms 1935 and 2004 FDA

The regulation (CE) 1935/2004 sets general prescriptions for all the materials in contact with food. In normal conditions of use, the used materials should not give in to constituent food in quantity susceptible to present a danger for the human health or cause an unacceptable modification of food compositions with or without a change of these organoleptic features.





# ISERCO BIN ACTIVATORS

ISERCO offers a wide range of industrial manufacturing bin activators with innovative features. The bin activator allows the extraction of powders in silos. It's composed of a carbon or stainless steel cone, of a connection sleeve held between counter-flanges, of hangers and of 1 or 2 unbalanced motors.

# Why choose an ISERCO bin activator?

The industrial revolution has led companies to store their finished products or raw materials in vertical silos. Cereals have always been extracted without assistance. However, the fine powders, such as cohesive flours or metal oxides, refused to come out of the silo without manual intervention.

In 1963, Richard Wahl Sr., President of the Company VIBRA SCREW, filed patent "Bin Activator". The bin activator, suspended under a silo and assisted by vibration, allows the extraction of difficult flowing powders without human action.

Since its creation, ISERCO specialized in mass production of bin activators, big bag fillers and unloaders, carbon and stainless steel, exported all over the world. The bin activator is the essential extractor for your storage silos.

Our wide product range allows creating your way the most suitable equipment for your application in your area of activity.

## It is "Made in France", guarantee of quality.



Our engineering department realizes the 3D simulations of your installations

- It consumes less energy per extracted ton.
- It is silent
- It ensures a regular extraction
- Stainless steel bin activators are manufactured in a "specific" workshop
- It reduces the vertical storage space
- Its maintenance cost is negligible
- Its operation is part of an automatic process
- Inexpensive because of its standard manufacturing
- It does not require external assistance (air intake)
- It is a modular design allowing customization (in shape and diameter)



# THE BIN ACTIVATOR IS THE ESSENTIAL EXTRACTOR FOR YOUR STORAGE SILOS.

ISERCO offers a wide range of industrial manufacturing bin activators with innovative features. The bin activator allows the extraction of powders in silos. It's composed of a carbon or stainless steel cone, of a connection sleeve held between counter-flanges, of hangers and of 1 or 2 unbalanced motors.

**When it comes to non-cohesive solids, the bin activator provides the following benefits:**

- A vertical space saving,
- An homogeneous extraction, approaching mass-flow

**If your products are cohesive, on top of the benefits listed above, the bin activator will:**

- Avoid the creation of bridging by positioning geometrically over the theoretical construction of the latter
- Avoid the creation of chimneys by balancing the course of particle positioned in the middle or at the periphery of the silo
- Avoid collapsing by having a more symmetrical outflow
- Dissociating the frictional forces which bind the particles together, passing them from the friction state to the sliding state, the bin activator is essential when it comes to power a process (weighing, dosing, pneumatic conveying etc.)

## Some technical details

- Our standard range of bin activators varies from diameter 450-4500 mm. In the same way, output diameters range from 150 to 600 mm. Different diameters on request.

*We also make your bin activator custom-made!*

- **We work carbon steel and stainless steel.** Our carbon steel bin activators are shot blast and then painted. We offer a wide range of different types of paint (choice of RAL n°, food grade paint etc.) Our stainless steel bin activators can be either glass bead blasted inside and outside. A wide range of polishing can be provided. Each bin activator design depends on the product, its environment, its storage type. **Each bin activator is custom designed.**

- A wide range of baffle is available (primary baffle, fluidized baffle etc.)

- **Our know-how enables us to manufacture a variety of special bin activators:** square bin activators, bin activators in panels (adapted when their difficult installation requires) and bin activators with several outlets.



# BIN ACTIVATOR EQUIPMENTS

## 1. FLEXIBLE SLEEVE WITH TIGHTENING COLLARS AT THE OUTLET OF THE BIN ACTIVATOR

Its purpose is to provide the seal between the bin activator, which moves, and the downstream device, which is stationary. As a result, the vibrations of the bin activator will not be passed on to the downstream equipment. Its resistance to pressure must be identical to the resistance of the connection sleeve.

## 2. U-TYPE SLEEVE HELD BETWEEN THE OUTLET FLANGES AND THE BIN ACTIVATOR

Identical purpose to the above, but designed for higher pressure levels.

In order to fit this seal, a flange must be welded to the outlet of the bin activator. Make sure that the flange welded to the downstream device is identical to that of the bin activator.

## 3. MANUAL EMERGENCY SLIDE PLATE

This device isolates the bin activator when a maintenance operation is required below the latter. The seal obtained is therefore relative.

This device includes a 180° peripheral slit on the outlet spigot of the bin activator outlet.

During normal working conditions, this slit is covered with a rubber sleeve or collar. This slit allows the operator to introduce a plate, which fits into the inner spigot of the bin activator. This device has the benefit of never getting blocked. However, given its manual nature, this system can never be used to replace a conventional valve.

## 4. PNEUMATIC ACCELERATOR

This device is connected directly to the external compressed air network (5 to 7 Bar). It mechanically releases the air thereby creating a sweeping effect above the outlet of the bin activator. The pneumatic accelerator is particularly recommended:

- When a butterfly valve is fitted under the bin activator or, more generally, if the outlet of the bin activator does not provide a complete passage.

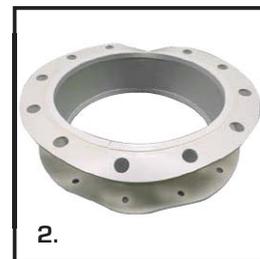
- When the bin activator feeds into a loss-in-weight dispenser. The nominal flow rate of the bin activator is attained much more quickly.

- In the case of cohesive products which tend to clog the outlet cross-section. The pneumatic accelerator always operates vertically from top to bottom. It must be positioned 500 mm above the outlet. Its action will last no more than 1 second to avoid applying pressure to the bin activator and the handling operations.

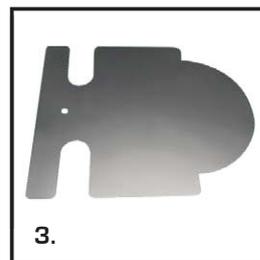
The operating frequency of the pneumatic accelerator will be set by ISERCO.



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2.



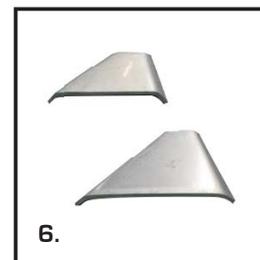
3.



4.



5.



6.

## 5. POKE HOLE

This device is composed of a sloped tube which is directed towards the outlet of the bin activator. This device is used to perform tasks inside the bin activator, when the latter is loaded. The poke hole must never be used for fusing products, e.g. hot plaster. The opening of this pipe is hazardous. All specific precautions must be applied.

## 6. FISHTAIL

The fishtail is composed of a metal plate, which is welded or screwed to the outlet cone of the bin activator. This plate creates a 3 mm gap with the inside of the outlet cone.

This fish tail has the shape of an equilateral triangle, which is always pointing upwards with the base at the bottom. The compressed air blown by this fish tail creates a stream of air which goes in between the cone and the product itself. This stream has a mechanical effect on the product, which acts vertically downwards in the gravitational direction. When the fish tails are operating, the frictional forces between the inside of the cone and the product disappear.

The action of the fishtails does not cover the entire surface of the cone, but it does break up the balance of the horizontal and circular pressure of the powder inside the bin activator. Although this is not part of the intended purpose, the air injected into the fish tail fluidizes the product as a result of its expanding effect. The expanded air of each fish tail leaves the inside of the bin activator with the product, without pressurizing it.

The fish tails must always be activated one at a time or in groups of no more than 3, starting by the lowest fish tails.

NB: The fishtails will all be activated until the outlet cone of the bin activator is completely empty. This means that the fish tails may be activated several times if necessary.

The fish tails will be connected to the factory compressed air circuit. Depending on the situation [hygroscopic product or ATEX], the compressed air will be dried or replaced with nitrogen.

Each fish tail, or group of 3 fish tails, will be used for less than 1 second. At 5 bars, each fish tail will discharge about 15 normal liters of air.



# INSTALLATIONS MADE BY ISERCO



## Bin activator AISI Ø900

Installation of a stainless steel assembly including a pivoting system to facilitate the cleaning of the interior of the bin activator.



Bin activator in the plastic industry



Bin activator in fish feed

## Bin activator ST 37.2 Ø3500

Manufacturing a bin activator Ø3500 in panels. The replacement of a bin activator installed under a skirt silo required the assembly of the panels of the bin activator on site.



Bin activator in recycling field

## Bin activator ST 37.2 Ø2100

Bin activator made of mild steel, equipped with an option dedicated to insulation.

*Interested in our products Bin Activators?*



Use the form by clicking on the link below to submit your request or by filling the form in the last page of this leaflet.

The company ISERCO is always ready to answer all the requirements to satisfy you with professional advice and constant availability.

Contact us!



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contact@iserco.com



# ISERCO BIG BAG STATION

ISERCO offers a wide range of big bag emptying and filling stations to meet the expectations of the industrial world. Our devices ensure the extraction of powders in semi-bulk.

# Why choose an ISERCO big bag station?

The big bag emptying stations are used for the regular and controlled extraction of difficult flowing powders contained in big bags. ISERCO has developed filling and emptying stations to find solutions to business needs. **The ISERCO stations enable conditioning or deconditioning big bags ergonomically**

**We are able to adapt our full range of filling and emptying equipment to meet the specific needs of users of flexible containers. We pay special attention to this equipment to facilitate and secure handling.**



## It is “Made in France”, guarantee of quality.



- It ensures regular and controlled emptying
- It is safe and ergonomic for the user
- It is adaptable to different sizes of big bags (GRVS, FIBS, super sack, jumbo bag, bulk bag, sac)
- It optimizes business productivity
- It comes customized and adapted to your production process and your customer
- It is inexpensive and its maintenance cost is negligible

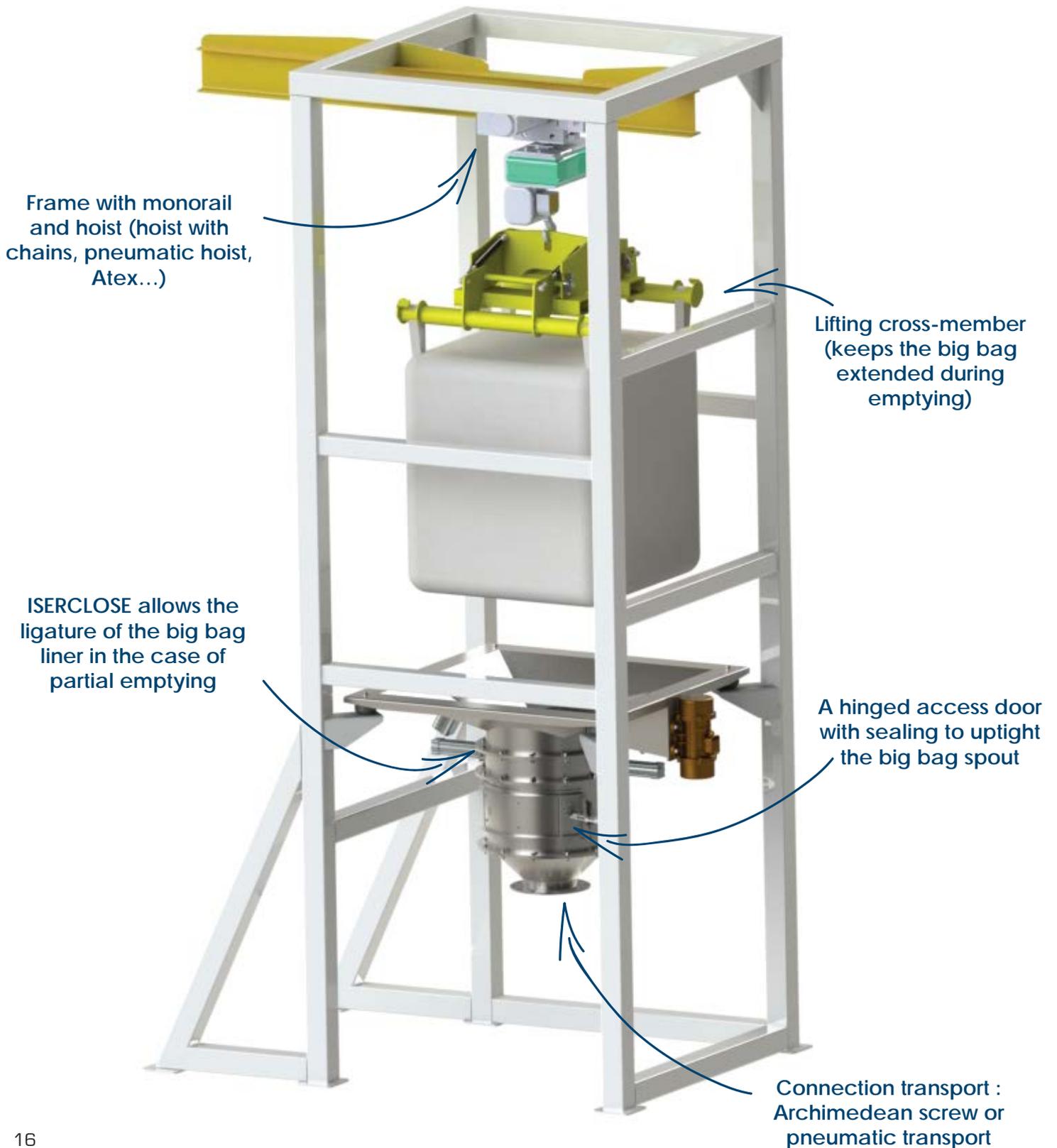
Our engineering department realizes the 3D simulations of your installations: big bag filling or emptying.

# BIG BAGS EMPTYING STATION



## ADVICE AND INSTALLATION

Ask us advice to determine the best options to apply to your emptying station.



# AND ITS EQUIPMENTS

## 1. LIFTING CROSS-MEMBER

This system affords to keep the Big Bag in extension during the emptying, without the handling of the operator.

Stroke: 250mm

Lifting capacity: 1000 - 2000 kg

## 2. CROSS-MEMBER

This system allows handling the Big Bag.

Lifting capacity: 500 - 2000 kg

## 3. CLEAN CONNECT

**Connection of the Big Bag sleeve.**

Dustproof system by clamping the spout, made manually by the operator. Can be equipped with a dust exhaust.

## 4. PYRAMIDAL KNIVES

**Allows to rip open the big bag bottom.**

The pyramidal knives are integrated on the hopper.

This system is good for lost bottom Big Bags.

## 5. HYDRAULIC MASSAGE

**Optimization of the flow of the difficult products.**

The implanted hydraulic cylinder partially low of Big Bag break clods of product. We recommend this system for Big Bag taken in the mass.

Adjustable cylinder in height.

Automated and secure system.

Pressure: 100 bars

Power: 5 tons per cylinder

## 6. ELECTRIC / PNEUMATIC / MANUAL HOIST

**Big bag handling.**

Lifting capacity : 2 tons

ATEX

## 7. PNEUMATIC MASSAGE

**Optimization of the flow for the difficult products.**

We recommend this system for the powdery products.

Pneumatic cylinders are integrated into the vibrating hopper to facilitate the emptying of big bag.

Automated and secure system.

Pressure: 6 bars

Race: 150mm

## 8. WEIGHING / LOSS IN WEIGHT

**Knowledge of the extracted quantity of product.**

System of WEIGHING/LOSS IN WEIGHT with a weighing hoist or with weighing scale setting on the big bag steel frame

Commercial or not commercial precision

Capacity: 3.2 - 4 tons

## 9. VIBRATED HOPPER

**The vibrated hopper facilitates the extraction of difficult flowing products.**

1200 x 1200mm

Placed on 4 silent blocks 400kg each

1 or 2 unbalanced motors

## 10. LUMP-BREAKER

Ideal solution to reduce the size grading of products tending to form lumps. **The lump-breaker is integrated under the connection sleeve, and pre-transport.**

Various sizes are available from Ø300 to Ø1000mm

## 11. ISERCLOSE

**Make a partial emptying**

The Iserclose is positioned under the vibrating hopper and stops the flow during big bag emptying, in order to close the big bag.

2 pneumatic cylinders

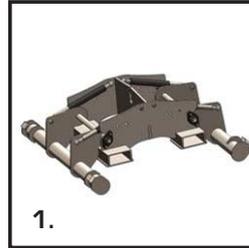
Stroke: 150mm

Operated manually or automatically

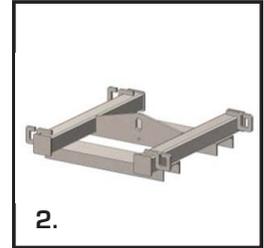
## 12. CONVEYING OF THE PRODUCT

**Archimedes' screw or pneumatic transport**

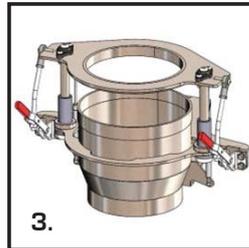
Customized systems accordingly to the product, corn size, throughput capacity etc.



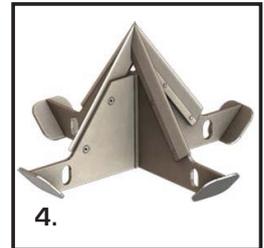
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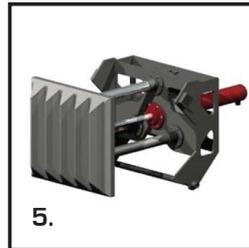
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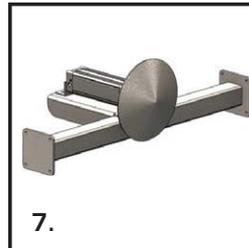
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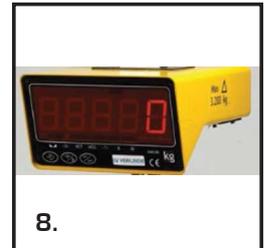
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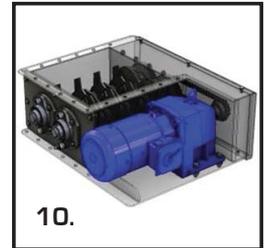
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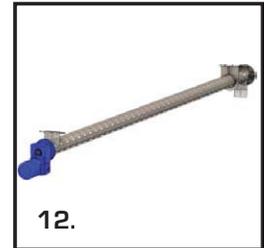
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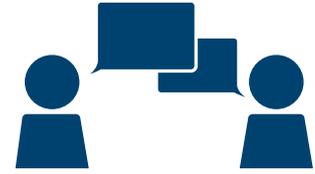
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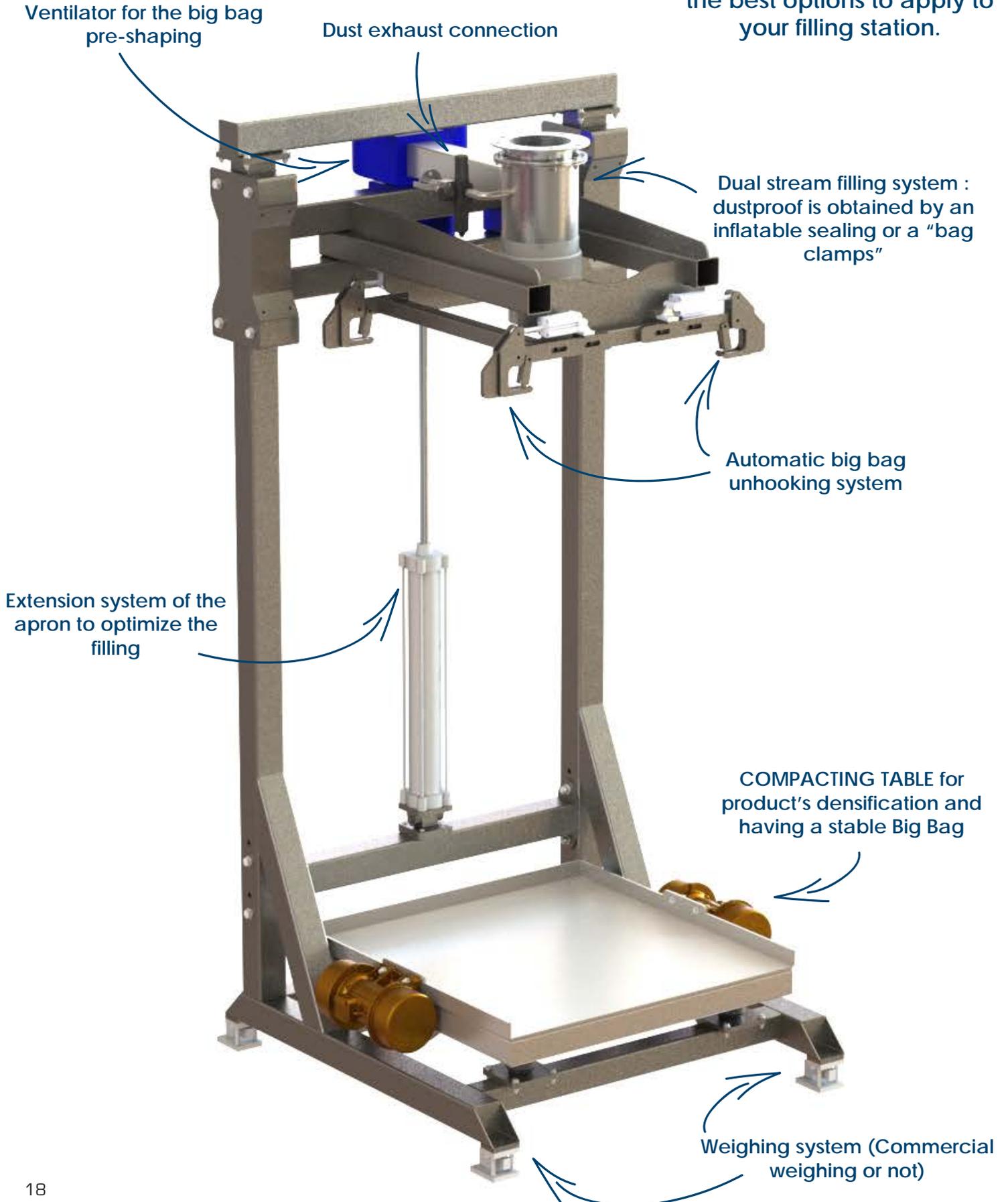
**NON-EXHAUSTIVE LIST:**  
Other customized options

# BIG BAG FILLING STATION



## ADVICE AND INSTALLATION

Ask us advice to determine the best options to apply to your filling station.



# AND ITS EQUIPMENTS

## 1. DUAL STREAM SPOUT

### Big bag degassing.

After pre-shaping the Big Bag, the dual stream spout allows to release the present air during big bag filling.

Exist in telescopic version.

Is equipped with a dust exhaust connection.



1.



2.

## 2. CLEAN CONNECT

### Connection of the Big Bag spout.

Dustproof system by clamping the spout, made manually by the operator. Can be equipped with a dust exhaust connection.

## 3. INFLATABLE SEALING RING

### Connection of big bag spout

Complete dustproof system during big bag filling

## 4. VENTILATOR

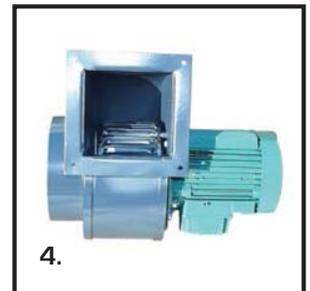
### Assures the shaping of Big Bag.

This system facilitates big bag filling

1 or 2 motors.



3.



4.

## 5. AUTOMATIC BIG BAG UNHOOKING

### Automatic hooks by a system of cylinders.

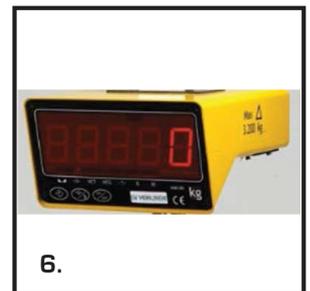
System allowing to unhook automatically the big bag without the operator intervention

Capacity of unit load: 500 kg

Service pressure: 6 bars



5.



6.

## 6. WEIGHING

### Knowledge of the extracted quantity of product.

System of WEIGHING/LOSS IN WEIGHT with a weighing hoist or with weighing scale fixed on the big bag steel frame

Commercial or not commercial precision

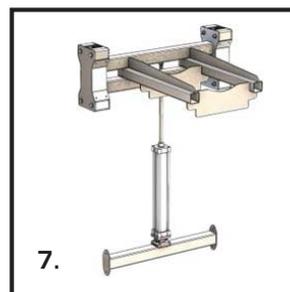
Capacity: 3.2 - 4 tons

## 7. EXTENSION TABLE

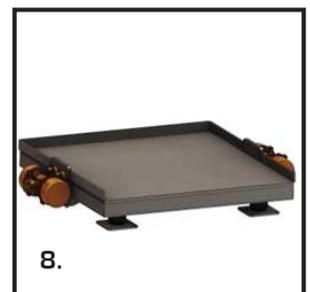
### Assure the stability of Big Bag.

System allowing a better densification of the product during big bag filling.

1 cylinder or gas cylinder



7.



8.

## 8. DENSIFICATION TABLE

### Assure the big bag stability.

System allowing a better densification of the product during big bag filling.

Prevent slopes and optimize the capacity of filling

1 or 2 motors

## 9. U TYPE FORKS

### System which consists in removing the Big Bag by its ears.

It removes the big bag via the forks of the forklift truck.

Forks are adjustable in height and width.



9.



10.

## 10. ROUND FORKS

### System which consist in removing the Big Bag by pallet.

It removes the big bag by pallet via the forklift truck or the pallet truck.

Forks are adjustable in height and width.

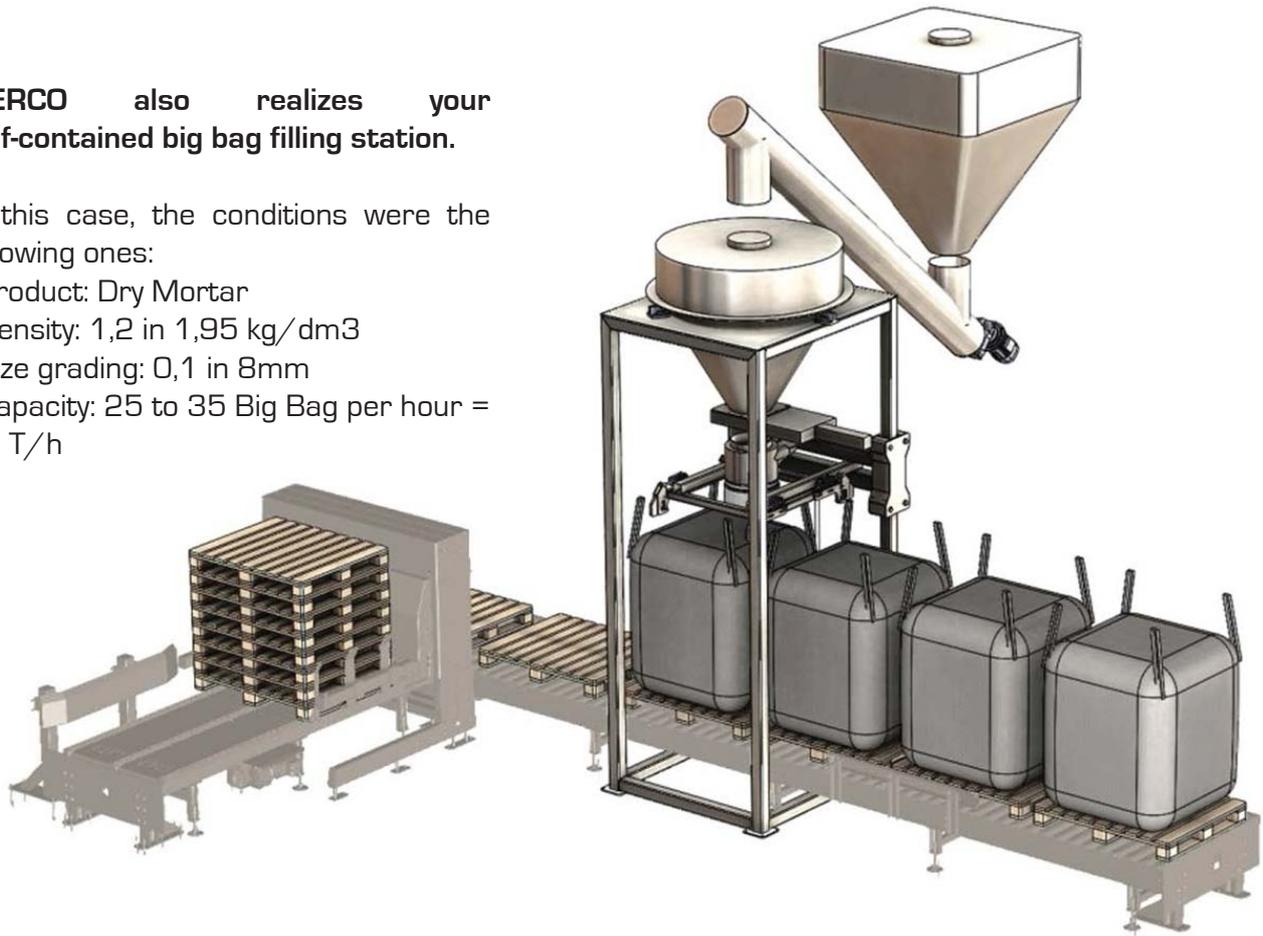
**NON-EXHAUSTIVE LIST:**  
Other customized options

# SELF-CONTAINED BIG BAG FILLING STATION

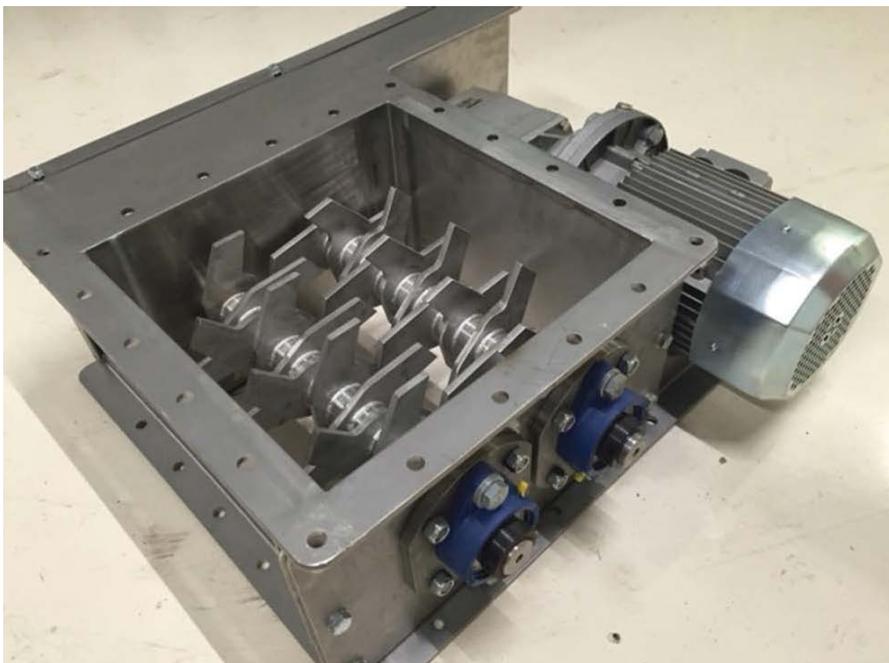
ISERCO also realizes your self-contained big bag filling station.

In this case, the conditions were the following ones:

- Product: Dry Mortar
- Density: 1,2 in 1,95 kg/dm<sup>3</sup>
- Size grading: 0,1 in 8mm
- Capacity: 25 to 35 Big Bag per hour = 30 T/h



# STAINLESS STEEL LUMP-BREAKER



So as to optimize your installations, ISERCO conceives and installs lump-breakers.

It allows the clods crushing of cohesive products. This equipment can be installed at the exit of an emptying big bag station, pre-transport. It is easily removable and completely cleanable.

Available from the diameter 300 to the diameter 1000 mm

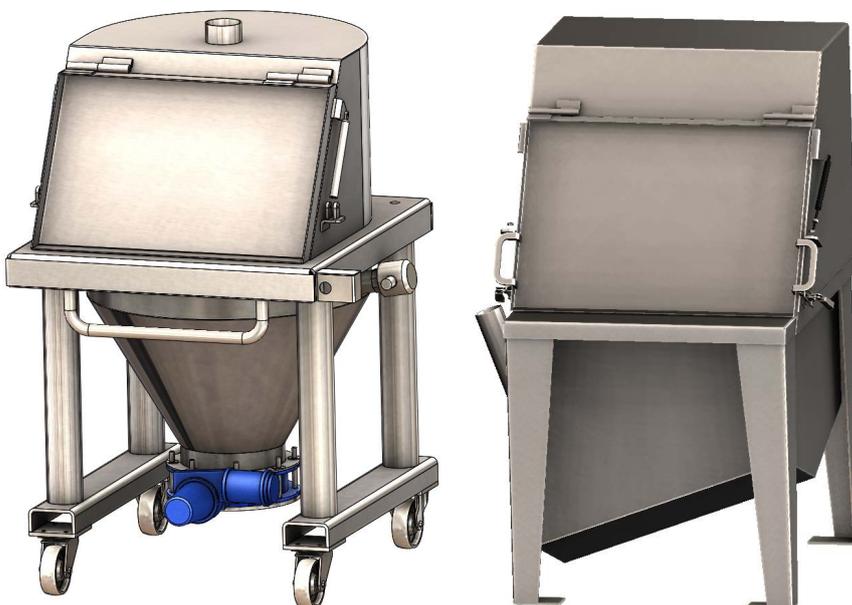
# BIG BAG EMPTYING STATION WITH VIDSAC HOPPER

We offer a wide range of bag emptying. Some of the stations can be appropriate for 2 sizes: Big Bag or sac.



This station allows the big bag and sac emptying independently in a same hopper. This hopper is equipped with a flat-bottom extractor avoiding any phenomenon of bridging, while eliminating the clods of product.

## VIDSAC HOPPER



ISERCO offers a wide range of sac emptying hoppers for bulk products packaged in sacs.

Mobile vidsac + vidsac with dust exhaust connection



# INSTALLATIONS MADE BY ISERCO



## Filling station with extension

Manufacturing of a big bag filling station in mild steel. The parts in contact with the product are made in stainless steel.

System of fixation of the big bag sleeve by clamping :  
Clean connect

This station is equipped with the option compacting table and the option "put in extension".



Big Bag filling station with extension system



Big bag emptying station

## Big bag emptying station

Manufacturing of a big bag emptying station in mild steel. The parts in contacts with the product are made in stainless steel.

This station is equipped with the Iserclose option in order to partially empty Big Bags.

## Clean Connect in stainless steel

Dustproof system allowing a complete closing of the Big Bag spout.



Clean connect in stainless steel

*Interested in our Big bag stations?*



Use the form by clicking on the link below to submit your request or by filling the form in the last page of this leaflet.

The company ISERCO is always ready to answer all the requirements to satisfy you with professional advice and constant availability.

Contact us!



+33 (0)3 20 62 93 60



contact@iserco.com



# ISERCO ARCHIMEDEAN SCREWS

Upstream or downstream of the storage, the transport of powders may be provided by Archimedean screw conveyor. With high experience, ISERCO develops and manufactures the device in direct connection with the storage of bulk.

# Why choose an ISERCO screw conveyor?

The types of powders require many years of experience to carry them through this process.

Composed of a tubular sheath or trough, the Archimedean screw conveyors may be equipped, as required, shaft screw, rotor with full turns, ribbon turns, pallet turns or thread less spiral screw.

Each project is unique, ISERCO offers a global service.

Our Archimedean screw conveyors are specially adapted to transport, extracting and dosing of dry bulk products, non-volatile, and come with many options and variations according to the type of products and the working environment.

## It is “Made in France”, guarantee of quality.

- Reliable equipment
- Simple design
- Minimal wear
- Requires minimal maintenance
- High efficiency



Our engineering department realizes the 3D simulations of your installations



# A CUSTOM-MADE ARCHIMEDEAN SCREW, DESIGNED FOR YOUR PROJECTS

The Archimedean screw allows the transfer of powders or pellets from point A to point B. This transfer can also be vertical with limited inclinations at 45 °.

The screw length will essentially depend on their diameters. ISERCO screws start from **Ø 20 mm with 500 mm up to 800 mm length. They can be up to 10 m long** (without intermediate bearing).

Although its design is very old (Archimedes), the screw is an extremely complex mechanical element working “full powder”. In some configurations, the screws meet the ATEX and Food Contact criterion. When the screws are inclined, it is better that their moto reduction group is placed at the head, so that the shaft turns working in extension.

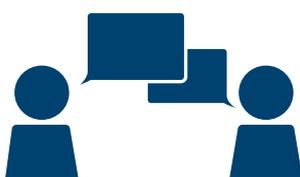
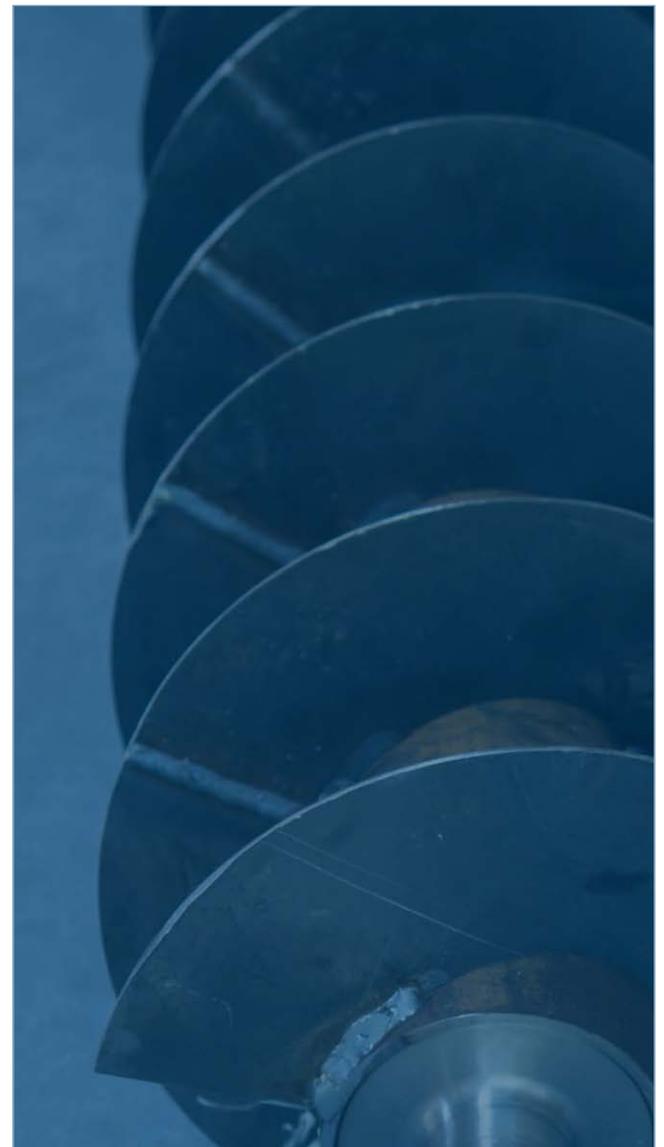
The screws which operate on the principle of relative friction between the trough and the shafts inevitably undergo some form of wear.

The latter being unavoidable, **this leads to screws made of stainless steel**. ISERCO limit the shafts rotation speeds to increase their lifetime.

The ISERCO design of ARCHIMEDEAN screws minimizes any mechanical component in the product. Thus, the intermediate bearings do not exist in our products.

The general principle is simple and effective but it remains a crucial point such as the sealing between the static and rotating parts. Screws can be used in very high temperatures justifying external cooling (water jacket). In some cases (dosing), the screws can be vibrated.

Although it is rare, some products require special executions, as double shaft turns etc.



**ADVICE AND INSTALLATION**  
Ask from us advice for your projects

# INSTALLATIONS MADE BY ISERCO



Installation of an Archimedean screw in the sea transport area.

## Galvanized steel

Collector screw of custom-made execution.

Triple outlets allowing the supply of bag fillers. Diameter 180 mm.

## Stainless steel

Collector screw of pigments, mineral loads and pigments, with the flow of 10t / hour. Diameter 440 mm, between axis 10500 mm without intermediate bearing.



Installation of an Archimedean screw in the plastic industry

*Interested in our Archimedean screws?*



Use the form by clicking on the link below to submit your request or by filling the form in the last page of this leaflet.

**The company ISERCO is always ready to answer all the requirements to satisfy you with professional advice and constant availability.**

**Contact us!**



**+33 (0)3 20 62 93 60**



**contact@iserco.com**



# ISERCO SPARE PARTS

Because of maintaining its equipment makes it possible to keep an optimal use of the equipment in time. That is why ISERCO has developed a wide range of spare parts and is able to maintain any device.

*Contact us to realize  
a technical audit*

# Why choose an ISERCO spare part?

Our experience has enabled us to develop our devices and accessories. Technological development of our spare parts has always been a priority for us.

**We are able to adapt or of readjust the performances of an original device so as to answer your needs and assure the preservation of the safety of its functioning.**

The maintenance of equipment in optimal operating conditions is ensured as soon as possible by our permanent stock.

We heavily recommend the need to use only shock dampers elements stamped ISERCO. Indeed, the stresses brought to them are so great that it is always possible that a deformation of a commercial rubber appears over time.

## Flexibility and reactivity are our keywords for spare parts.

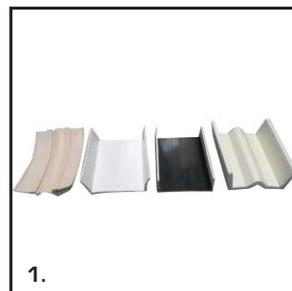


### 1. CONNECTION SLEEVES

We have several types of connection sleeves: N-type, Sigma, U-type and URA, each adopting a different profile. These profiles are designed from various materials according to the bin activator's environment (ATEX, Food, chemical environment, temperatures). Our connection sleeves are adaptable on bin activators other than ISERCO. Considering the wear of the connection sleeves components, we suggest to proceed to their preventive replacement every 5 years. It is possible to adapt these sleeves on bin activators other than ISERCO.

### 2. OUTLET SLEEVES

The most sensitive part of the sealing is the upper part of the bin activator (connection sleeve) due to its diameter. Indeed, the more important is the diameter, the more possible an eventual leakage may appear. The bin activator outlet received the same stresses as that of the inlet. Then, when it is time to replace the inlet sleeve, it is also necessary to replace the outlet sleeve. It's possible to set a U-type sleeve named Iserkit instead of a flat sleeve.



### 3. UNBALANCED MOTORS

Centrifugal force and frequency of the unbalanced motor(s) are chosen considering the device to move. An inappropriate choice of vibrator can cause a malfunction of the device and in the worst case auto-destruction phenomena (cracks). The lifetime of these motors depends on their uses, so that preventive change is not justified.



However, we suggest keeping at disposal on site, at least a spare motor for eventual replacement, defined by ISERCO and for each motor type.



# OUR SPARE PARTS – (continuation)

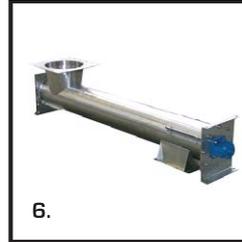
## 4. VIDBAG SILENT BLOCKS

Silent blocks on VIDBAG have been selected based both on their ability to deform under load and filtrate vibrations. Just as those which equipped the bin activator suspension mounts, these ones are specific and whatever their use, they also are subject to temporal wear. The silent blocks work in group of 4. Their good condition increases the operator's level of security but also the efficiency of the machine. We recommend you to replace them every two years.



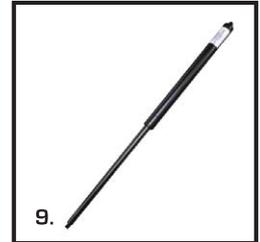
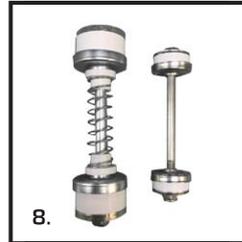
## 5. PRODUCT INDICATION SENSOR

ISERCO devices (bin activator, big bag discharge/filling stations) integrate processes more automated. We therefore find for security matters presence sensors, which indicate to the PLC if all conditions are met to start an operation. Regularly are fitted sensors of product indication that indicate the level of filling of a bag (beginning/end) to avoid jams. Their replacement will depend on their uses. We recommend regular check of these sensors, especially on the status of their connectors. We recommend that the user has available on-site a detector model for each type used in the installation.



## 6. TUBULAR SHEATH / TROUGH

This tubular sheath or trough "imprisons the shaft" so that the product can move inside. The inside part of the sheath is also subject to frictions and then wear. The wear will depend on the conditions of use and do not require preventive replacement. However we recommend that both the shaft and sheath is always kept in stock.



## 7. CLAMPING RINGS

N and H-type connection sleeves need to be hold through collar clamps. These collar clamps are specifics (30 mm high) and, depending on their diameter, need several fixing points. The clamping rings are submitted to vibrations, then wear and tiredness. Their replacement is necessary in the same time as that of the connection sleeve they hold.



## 8. SUSPENSIONS

The suspensions are part of essential elements to the bin activators' good working. Their main purpose is to absorb the filtration of the vibration, and do not to generate vibrations in the silo. The suspensions are made with a rubber, which vulcanizes in the time and hardens. We developed new suspensions allowing a better life time and a better quality of absorption of the filtration of the vibration. The suspension rod, submitted to stress, receives a specific heat treatment, to increase their resistance. We can adapt our suspensions on your bin activators other than Iserco brand. We recommend a preventive change every 5 years.

## 9. GAS CYLINDERS

Gas cylinders are mainly used for the big bag extension system in emptying phase. But also on the lifting cross-members.

## 10. SEALING OF VIDBAG'S DOOR

The hygiene feature of a Big bag discharge device requires a perfect sealing of the device. Each big bag to be emptied will concern the operation of the door at least once (and twice if the big bag spout should be tightened). The concerned seal, made of synthetic rubber also is subject to a temporal aging. It must be replaced at least every two years and more considering its wear.

## 11. SHAFTS

There are on the market many kinds of shaft manufacturing (continuous welds, rolled spiral or constant thickness). The shaft spiral allows the movement of a powder in a closed chamber using friction. There is always wearing on spire tops. The wearing of the shafts spiral depends on their uses. Their replacement will be immediately realized as soon as a loss of flow capacity will be noticed. Shaft spirals are made upon demand according to their specific side. That's why we suggest keeping spare parts available near the workplace.

*Interested in our spare parts?*



Use the form by clicking on the link below to submit your request or by filling the form in the last page of this leaflet.

**The company ISERCO is always ready to answer all the requirements to satisfy you with professional advice and constant availability.**

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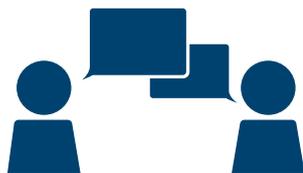
@ [contact@iserco.com](mailto:contact@iserco.com)



# ISERCO SPECIAL PROJECT

Particular projects developed by ISERCO engineering department and research and development center.

ISERCO is responsive to your needs for any innovating project in metal industry. With our engineering department and research and development center, we study, develop and make any type of request. Our projects are turn-key.



## TECHNICAL EXPERTISE

Our engineering department is responsive to develop your ideas.



## Powder extraction

We are specialists in the bulk handling and we can answer very well to every type of extraction thanks to our expertise in powders.



Every type of powder can be extracted

# CONTACT US!

## A QUESTION, A PROJECT, A QUOTATION REQUEST?

### BIN ACTIVATOR

Product specification to make a BIN ACTIVATOR offer

**Client information :**

Company:  
Service:

City:  
Phone number:

Interlocutor:  
Email address:

Material characteristics:  
Material name:

Unit weight :

T/m<sup>3</sup> or kg/dm<sup>3</sup>:

PARTICLE SIZE							
Micron	0,1 - 0,5	0,5 - 1	1 - 5	5 - 10	10 - 50	50 - 100	> 100
%							

Otherwise, give us the graph of the particle size please

FLOWABILITY			
<input type="checkbox"/> Highly flowable	<input type="checkbox"/> Flowable	<input type="checkbox"/> Little flowable	<input type="checkbox"/> Not flowable

ABRASIVENESS			
<input type="checkbox"/> Very abrasive	<input type="checkbox"/> Abrasive	<input type="checkbox"/> Moderately abrasive	<input type="checkbox"/> Little abrasive

MATERIAL CHARACTERISTICS			
<input type="checkbox"/> Explosive	<input type="checkbox"/> Hygroscopic	<input type="checkbox"/> Viscous	<input type="checkbox"/> Contaminant
<input type="checkbox"/> Degradable	<input type="checkbox"/> Harmful, with gases and smokes	<input type="checkbox"/> Flammable	<input type="checkbox"/> Contains oil
<input type="checkbox"/> Already decomposed during the storage	<input type="checkbox"/> Generate static electricity	<input type="checkbox"/> Becomes plastic and soft	<input type="checkbox"/> Very dusty
<input type="checkbox"/> Becomes gaseous or liquid	<input type="checkbox"/> Moderately corrosive	<input type="checkbox"/> Very corrosive	<input type="checkbox"/> High temperature
<input type="checkbox"/> Compacted by pressure	<input type="checkbox"/> Very light and soft	<input type="checkbox"/> Becomes granular, twistable, cluster	

SILO CHARACTERISTICS			
<b>Silo shape :</b>	<input type="checkbox"/> Rectangular	Length :	mm
	<input type="checkbox"/> Circular	Diameter :	mm
Height :	mm	Volume :	m <sup>3</sup>
Cone tilt :	°		
<b>Silo material :</b>	<input type="checkbox"/> Mild steel	<input type="checkbox"/> AISI 304L	<input type="checkbox"/> AISI 316L
	<input type="checkbox"/> Aluminium	<input type="checkbox"/> Polyester	<input type="checkbox"/> Other :
Filling process :			
Internal silo accessories :			

RECOVERY PROCESS			
<input type="checkbox"/> Free outlet	<input type="checkbox"/> Archimedean screw	<input type="checkbox"/> Pneumatic conveyor	<input type="checkbox"/> Hopper
Other :			
Flow required :	m <sup>3</sup> /h		

Zone ATEX?  No  Yes, please specify:  
 FDA Norm?  No  Yes, please specify:

Other information / specificities :

Fill one of the 2 forms and send it back to us :

- by e-mail: [contact@iserco.com](mailto:contact@iserco.com)

- by fax : +33(0)3.20.32.51.88

- by postmail : ISERCO – Rue Denis Papin – Zone Industrielle – BP 15  
59147 GONDECOURT - FRANCE

# BIG BAG STATION

Product specification to make a BIG BAG STATION offer

**Client information :**

Company:  
Service:

City:  
Phone number:

Interlocutor:  
Email address:

Material characteristics:  
Material name:

Unit weight :

T/m<sup>3</sup> or kg/dm<sup>3</sup>:

FILLING

EMPTYING

PARTICLE SIZE							
Micron	0,1 - 0,5	0,5 - 1	1 - 5	5 - 10	10 - 50	50 - 100	> 100
%							

Otherwise, give us the graph of the particle size please

FLOWABILITY			
<input type="checkbox"/> Highly flowable	<input type="checkbox"/> Flowable	<input type="checkbox"/> Little flowable	<input type="checkbox"/> Not flowable

ABRASIVENESS			
<input type="checkbox"/> Very abrasive	<input type="checkbox"/> Abrasive	<input type="checkbox"/> Moderately abrasive	<input type="checkbox"/> Little abrasive

MATERIAL CHARACTERISTICS			
<input type="checkbox"/> Explosive	<input type="checkbox"/> Hygroscopic	<input type="checkbox"/> Viscous	<input type="checkbox"/> Contaminant
<input type="checkbox"/> Degradable	<input type="checkbox"/> Harmful, with gases and smokes	<input type="checkbox"/> Flammable	<input type="checkbox"/> Contains oil
<input type="checkbox"/> Very dusty	<input type="checkbox"/> Generate static electricity	<input type="checkbox"/> Compacted by pressure	
<input type="checkbox"/> Very corrosive	<input type="checkbox"/> Moderately corrosive		

BIG BAG CHARACTERISTICS			
Big bag shape :	<input type="checkbox"/> Circle	<input type="checkbox"/> Square	<input type="checkbox"/> Rectangle
	<input type="checkbox"/> Flat bin	<input type="checkbox"/> Conical bin	
Length :	Width :	Height :	
	<input type="checkbox"/> With inner bag linen	<input type="checkbox"/> Without inner bag linen	
Size of the linen :	Height :	Diameter :	
	<input type="checkbox"/> Single node	<input type="checkbox"/> Double node	
	<input type="checkbox"/> Flat big bag without outlet spot	<input type="checkbox"/> Electrical continuity	

SIZE		
Floor space available :	Length :	Width :
Available height :		

COMMERCIAL WEIGHING	
<input type="checkbox"/> Yes	<input type="checkbox"/> No

POWER SUPPLY VOLTAGE					
<input type="checkbox"/> 24v AC	<input type="checkbox"/> 24v DC	<input type="checkbox"/> 220v AC	<input type="checkbox"/> 220v DC	<input type="checkbox"/> 230 - 400	<input type="checkbox"/> Other:

Required flow:                      m<sup>3</sup>/h                      Required frequency:                      Big Bags per hour

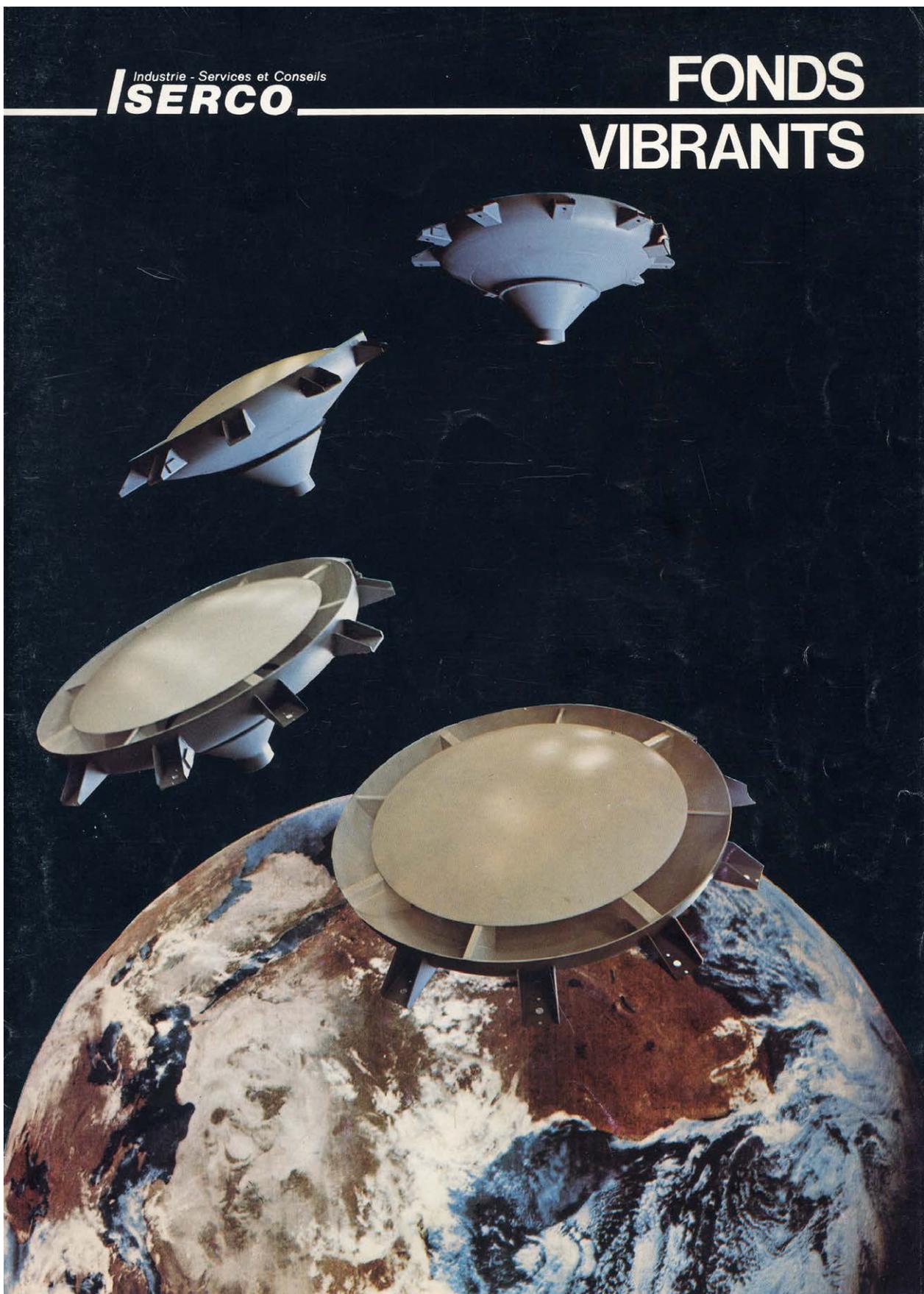
Zone ATEX?                      No                      Yes, please specify:  
FDA Norm?                      No                      Yes, please specify:

Describe your arrival or exit process (silos, hopper, pneumatical transport, screw, tube, etc.)

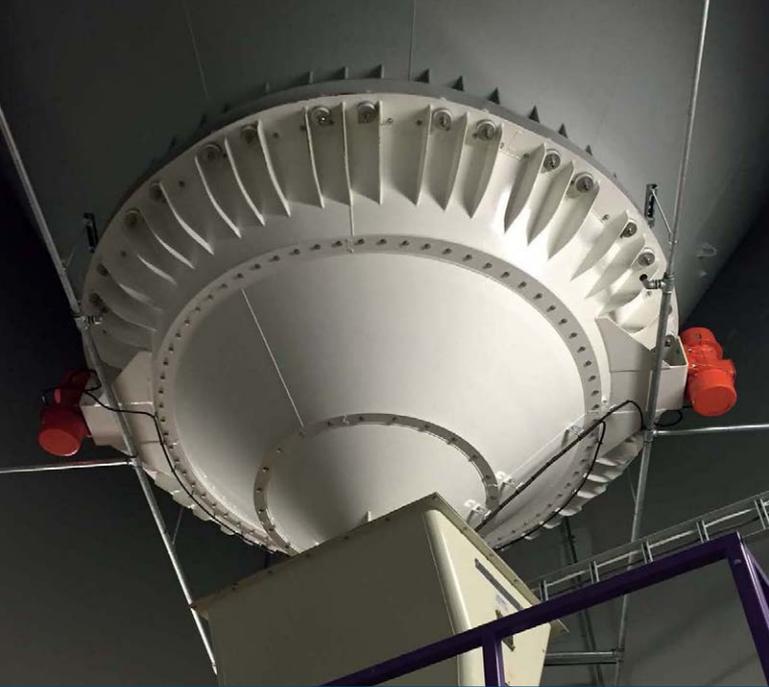
# RETRO MINUTE: BACK 35 YEARS ...



... (RE)DISCOVER OUR SURPRISING ADVERTISEMENTS



ISERCO advertising dating year 1987



**STANDARD AND CUSTOMIZED BIN ACTIVATORS**



**BIG BAG FILLING OR EMPTYING STATIONS**



*It's our job to vibrate!*



**SPARE PARTS / MAINTENANCE / TECHNICAL AUDIT**



**BIN ACTIVATORS**



**BIG BAG UNLOADERS**



**SPARE PARTS**



**ARCHIMEDEAN SCREWS**



**SPECIAL PROJECTS**

ISERCO - Rue Denis Papin - Zone Industrielle - BP 15 - 59147 GONDECOURT - FRANCE  
Tel : +33 (0)3 20 62 93 60 - Fax : +33 (0)3 20 32 51 88 - [www.iserco.com](http://www.iserco.com) - [contact@iserco.com](mailto:contact@iserco.com)