



# Sinfimasa

SINFINES Y MAQUINARIA, S.A.

**SPECIALISTS IN CONVEYORS AND BUCKET  
ELEVATORS FOR BULK SOLIDS.**



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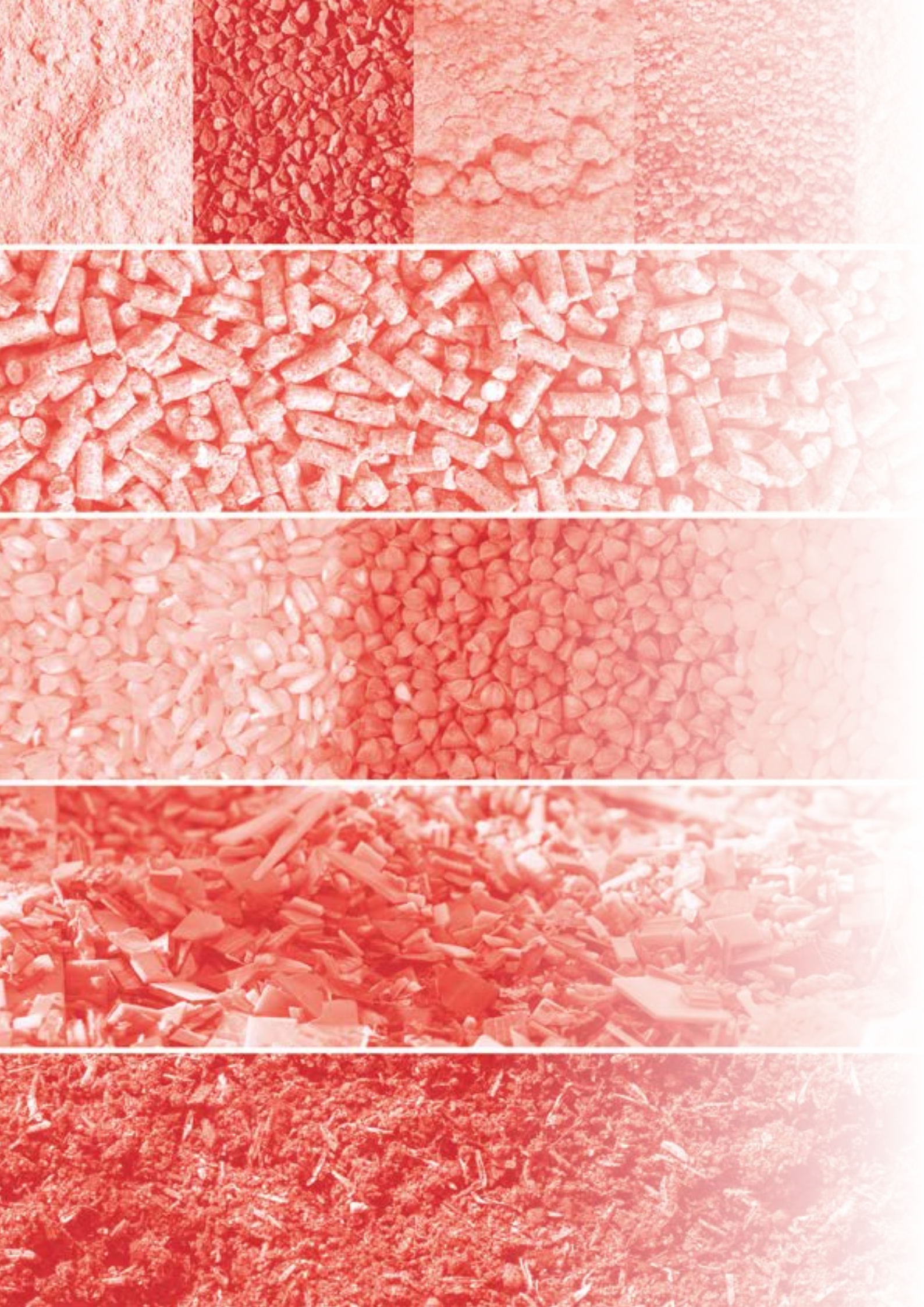
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## CONTACT US











# SPECIALISTS IN **DESIGN AND MANUFACTURING** OF CONVEYORS FOR BULK SOLID MATERIALS

## **Robust and reliable custom bucket elevators, chain conveyors and screw conveyors**

Since 1986, at **SINFINES Y MAQUINARIA S.A.** we have been designing and manufacturing bulk solid material conveyors that stand out for their robustness and reliability. We offer customized **screw conveyor solutions**, “**REDLERS**” **chain conveyors and bucket elevators**, adapted to the specific needs of each client.

## **Who we work for**

We work with engineering firms, industrial plant developers and large manufacturers from various sectors, including:

- ✓ **Aggregates and Minerals**
- ✓ **Pharma-Chemist**
- ✓ **Biomass**
- ✓ **Recycling & Environment**
- ✓ **Food**
- ✓ **Animal Waste**





## OUR TEAM AND PROFESSIONAL SKILLS

- ✓ Highly qualified team of professionals.
- ✓ Two generations of engineers who are experts in:
  - Machinery for transport and elevation
  - Machine adaptation to ATEX certification
- ✓ **ASME** certified welders.
- ✓ **Engineering** department with advanced software.
- ✓ Experience in **conveyors** for more than 100 products.
- ✓ Exhaustive **quality controls** with rolling, functional and consumption tests.
- ✓ **ATEX** certification for dust and gas zones 1, 2, 21 and 22.

## OUR FACTORY

- ✓ 5,000 m<sup>2</sup> facilities specialising in the manufacture of bucket elevators, chain and screw conveyors.
- ✓ Machining, welding, priming and painting processes, adapted to each type of machine.
- ✓ Cutting-edge industrial equipment with folding machines, shears, bending cylinders, punching machines, column drills, lathes and milling machines.



### **ATEX Certifications (2014/34/EU) for zones 1, 2, 21 and 22**

We are manufacturers of **ATEX** machinery and we continually adapt to the specific needs of our clients, offering a wide variety of **screw conveyors, channel conveyors, elevators and "REDLERS" chain conveyors** customized according to plans and/or requests for explosive atmospheres.

### **CE Certifications (2016/42/CE)**

We are manufacturers of machinery with **CE** marking according to the machinery directive **2006/42/CE**







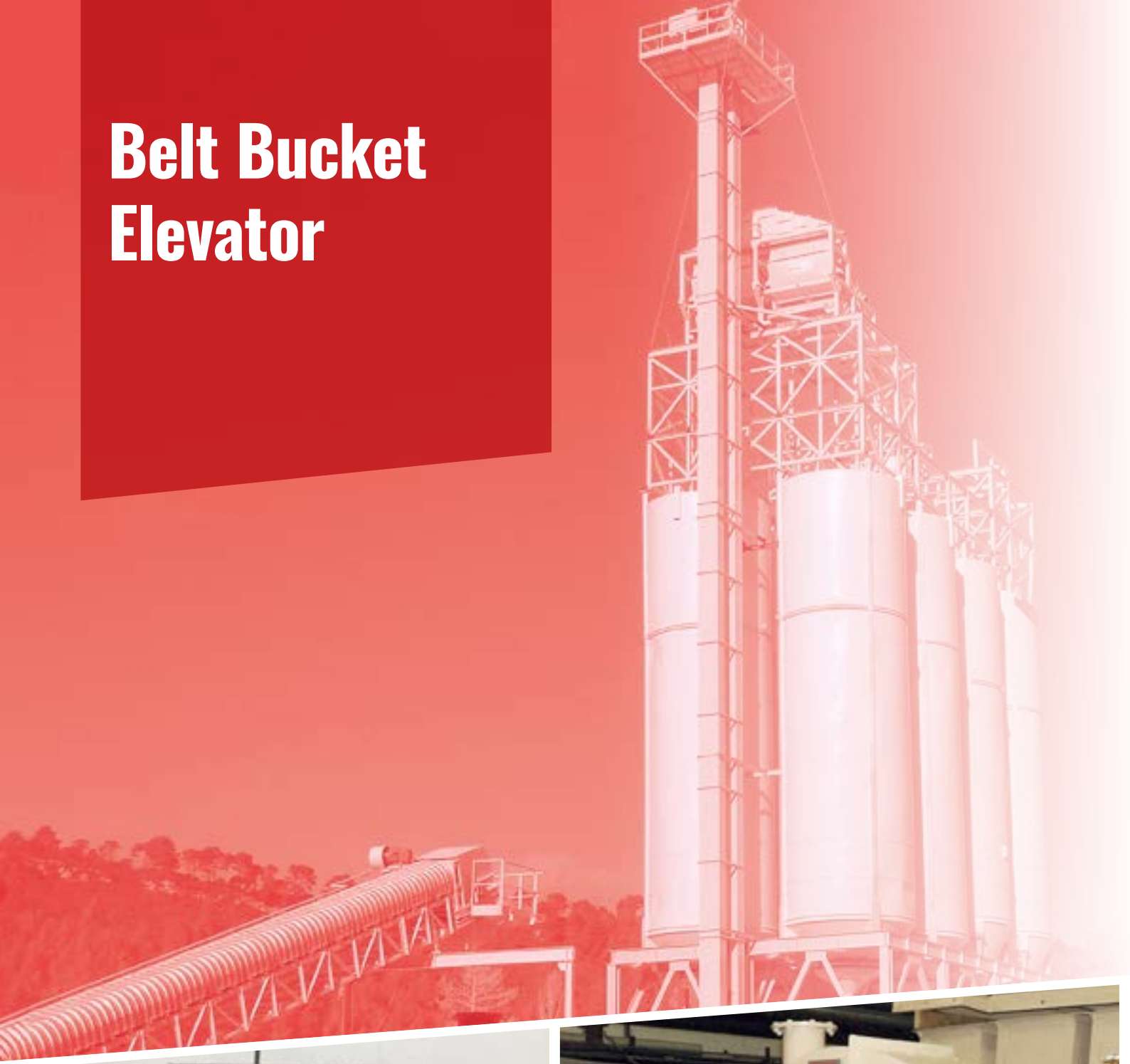


**01**

## **BELT AND CHAIN BUCKET ELEVATOR**

**Sinfimasa**

# Belt Bucket Elevator



*Elevator head and boot set*



*Elevator head with floating transmisión*



# Belt Bucket Elevator

The industrial model belt bucket elevators are designed for the efficient transport of materials such as cement, mortar, plaster, aggregates, fertilizers, and more.

This equipment features an advanced design that optimizes the projection and discharge of the product, ensuring complete bucket emptying and eliminating material return.

The belt, like all other components, is of the highest quality, and its working tension is carefully calculated to prevent maintenance issues and loss of tension.



Bucket elevator

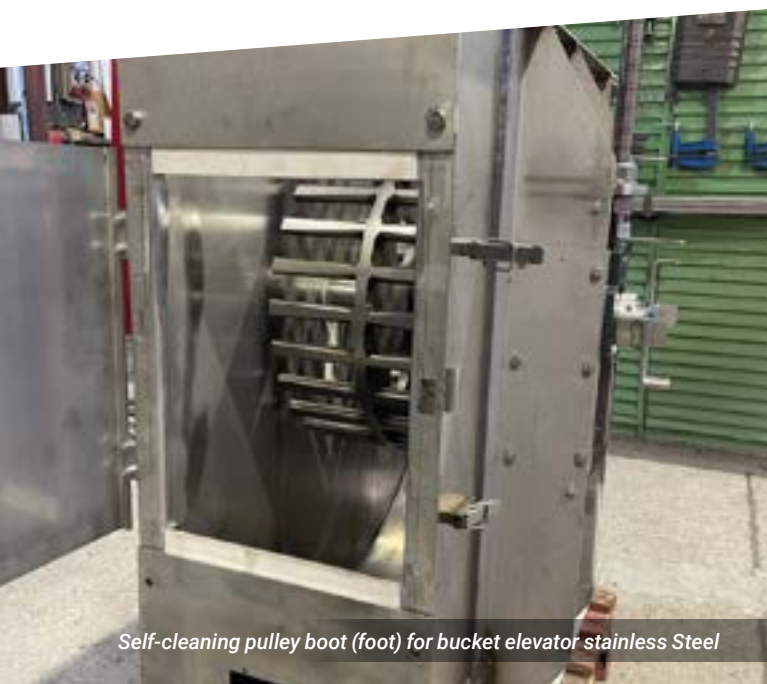


Bucket elevator

# BELT BUCKET ELEVATOR FEATURES



- Completely sealed elevator head and boot
- Drive system located at the head
- Tensioning system at the boot
- Central structure in parts or whole
- Inspection body with viewing window
- Shaft sealing with gland packing
- Anti-reverse system integrated into the motor
- Head bearings: SKF, Foot bearings: INA
- Belt with rubber, textile, or metallic cover, abrasion-resistant or heat-resistant
- Stamped buckets, 3 or 4 mm thick, also available in stainless steel, nylon, etc.
- Smooth vulcanized pulley at the head
- Self-cleaning pulley at the boot
- Maintenance platform at the head
- Standardized ladder with safety guard (aluminum)
- Belt deviation, rotation, and anti-jam detectors
- Robust construction in carbon steel, stainless steel, or wear-resistant materials



Self-cleaning pulley boot (foot) for bucket elevator stainless Steel



Metal buckets



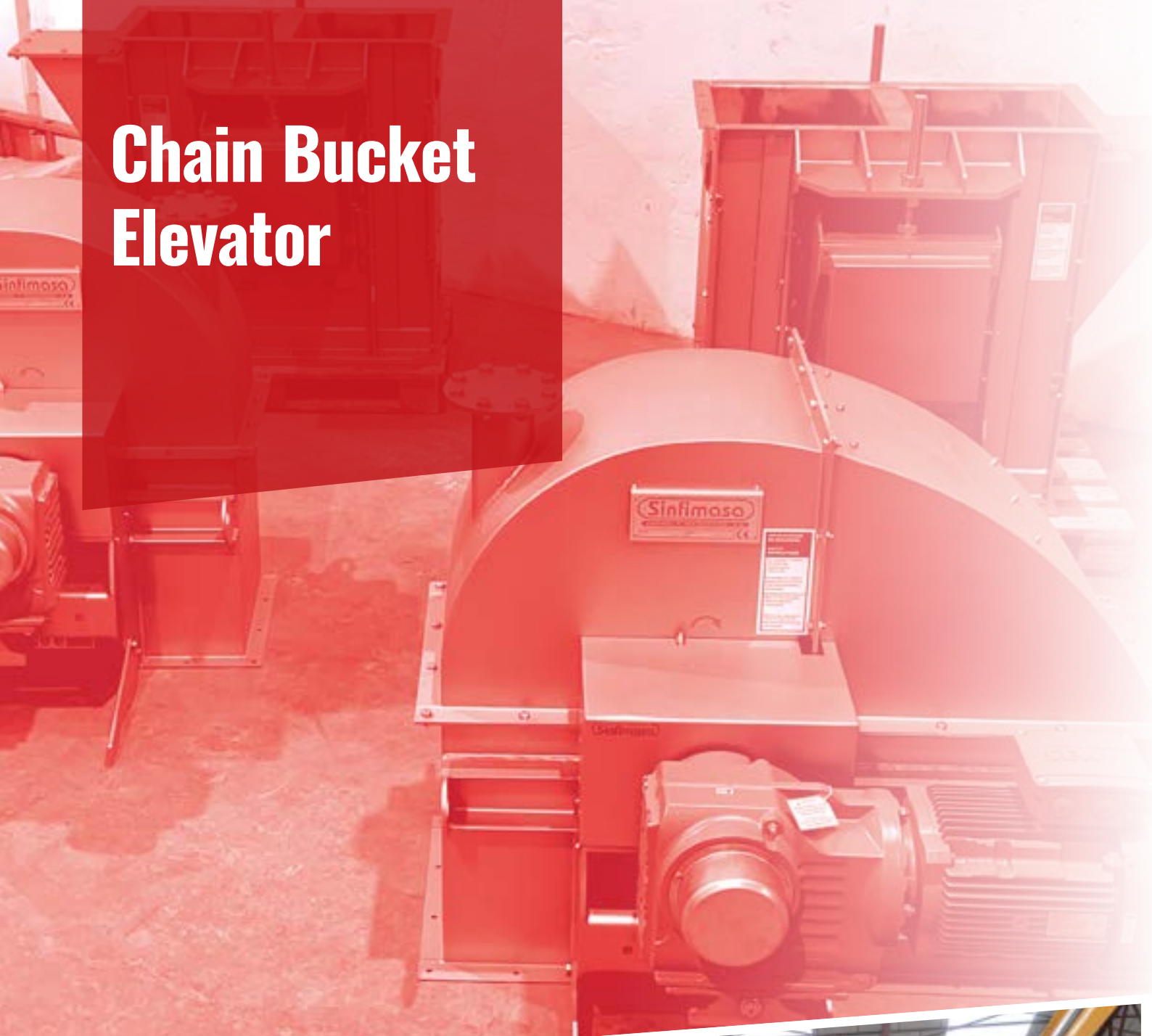


*Elevator head*



*Elevator with ladder*

# Chain Bucket Elevator



Chain elevator boot



Elevator head with direct drive



# Industrial chain bucket elevators

Designed to elevate high-temperature products or materials with large granularity, these elevators feature an advanced design that optimizes the projection and discharge of the product, ensuring complete bucket emptying and eliminating material return.

We manufacture chain bucket elevators with fully sealed heads and boots, using top-tier universal brand components. This ensures reliable machines with low maintenance costs.

They are equipped with inspection access points for easy maintenance, and the buckets are designed to meet the specific handling requirements of the material, guaranteeing optimal loading and unloading.

At **SINFIMASA**, we offer a wide range of bucket elevators tailored to your desired performance and material. Contact us with your project, and we will provide the ideal solution.



Head wheels with DIN chain



Manufacturing of elevator boot

# CHAIN BUCKET ELEVATOR FEATURES



- Fully sealed elevator head and boot
- Head-driven system
- Foot tensioning system with counterweight
- Central structure in parts or whole
- Inspection body with viewing window
- Shaft sealing with gland packing
- Anti-reverse system integrated into the motor
- SKF bearings at the head and boot
- Double chain according to DIN standard
- Buckets manufactured according to DIN standard
- Head wheels with removable sectors
- Boot wheels with removable sectors
- Maintenance platform at the head
- Standardized ladder with safety guard
- Rotation and anti-jam detectors
- Robust construction in carbon steel or wear-resistant materials



Installation of a chain elevator



Installation of a chain elevator





Installation of a chain elevator



Chain elevator boot



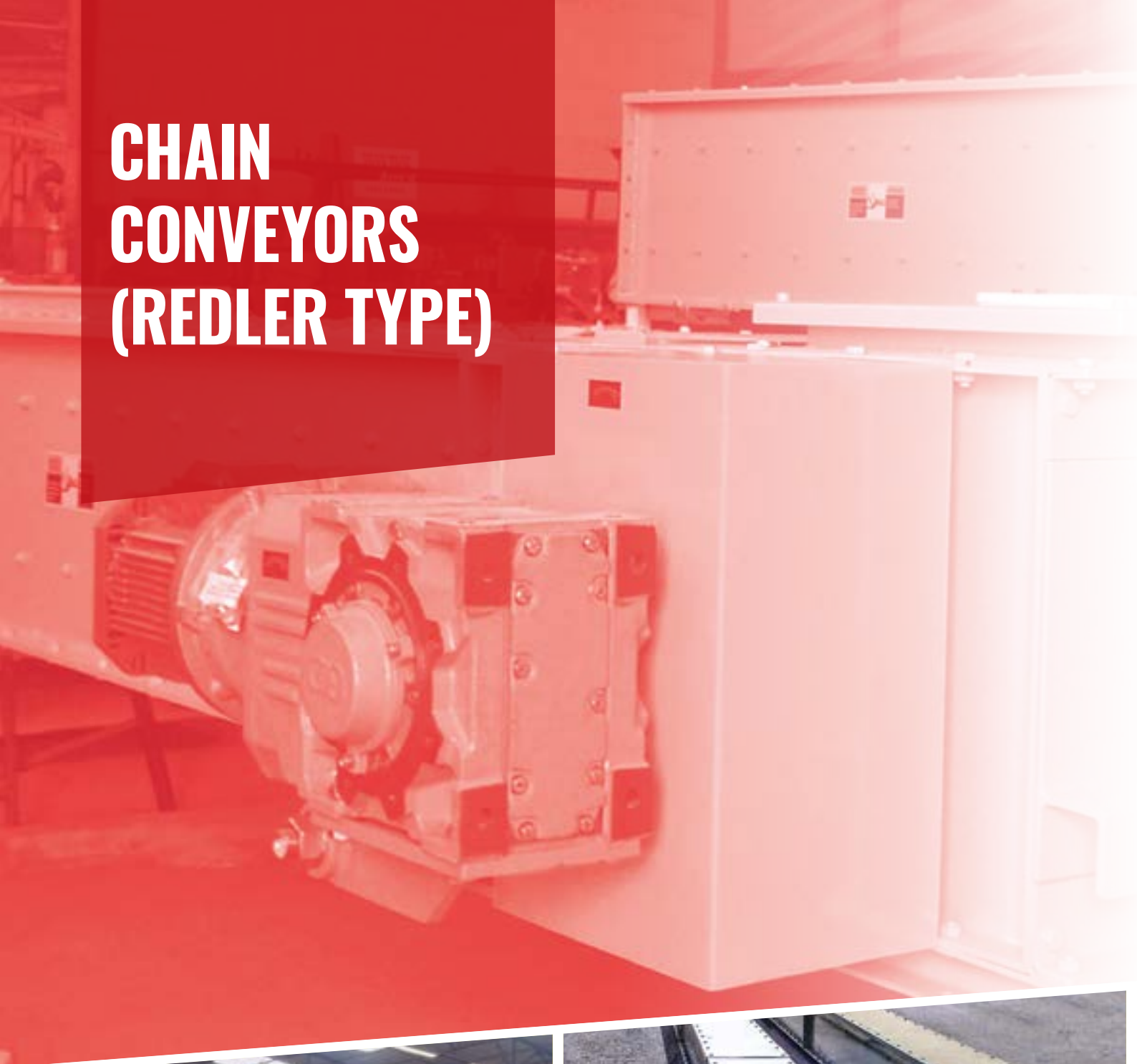


# **02 CHAIN CONVEYORS** **(REDLER TYPE)**

**Sinfimasa**



# CHAIN CONVEYORS (REDLER TYPE)



Chain conveyor



60-meter-long chain conveyor

# Industrial Chain Conveyors

For the transport of aggregates, cement, mortar, coal, and more.

At **SINFIMASA**, we design and manufacture chain conveyors for bulk solids transport over long distances, ensuring reliability, safety, and high performance. These conveyors, also known as **Redler type**, are named after the manufacturer who designed the first machine of this kind.

Our conveyors are used across various industries, offering advantages such as robustness, reliability, low maintenance costs, and enhanced safety. The hermetically sealed design eliminates the risk of entrapment and prevents environmental contamination.

They are available in single or double-body versions, made from carbon steel, stainless steel, or galvanized materials, and equipped with plate or forged chains specifically designed for the transport of abrasive materials, suitable for different particle sizes.



ATEX chain conveyor



Inclined Redler

# CHAIN CONVEYORS

## FEATURES AND PERFORMANCE

Custom performance: tailored designs in any size and shape



Chain conveyors are designed with a rectangular section body, perfect for meeting the demands of each process.

- Body available in single or double version
- Forged, flat bar, or mining chain
- Chain equipped with cleaning scrapers
- Head drive for greater efficiency
- Tensioning mechanism at the base for precise adjustment
- Require lower drive power
- Minimal maintenance due to their robust construction
- Models designed for direct extraction from hoppers
- Manufactured in carbon steel, stainless steel, or wear-resistant materials, depending on the application



Central section of Redler in stainless steel



Chain conveyor





Conveyor with mining chain



Z-type Redler







# **03** **SCREWS CONVEYORS**

**TUBULAR, TROUGH  
AND SHAFTLESS SCREWS**

**Sinfimasa**

# Tubular Screw Conveyor



ATEX tubular screw conveyor



Tubular screw conveyor



# Industrial tubular screw conveyor for transporting cement, abrasives, sand, and gypsum

The screw conveyors, or Archimedes' screws, designed by **SINFIMASA** for each project are known for their robustness and reliability. These features ensure optimal performance in any condition and bulk material handling requirement. Additionally, their low maintenance cost is due to the high quality of the materials used and the components from internationally renowned brands.

We manufacture the bodies, screws or blades, and shafts using the best steel grades available in the market, including Hardox, carbon steel, and stainless steel.



Manufacturing of a tubular screw.



Tubular screw with cooled injector

# TUBULAR SCREW CONVEYOR FEATURES

Tailored to your needs: extraction or transport function, available to order in any shape and size



- Robust construction in carbon steel, stainless steel, or wear-resistant materials
- Lengths from 1 to 12 meters
- Head or foot drive
- Diameters from 3 1/2" to 26" (ø660mm)
- Performance tailored to specific needs
- Extraction or transport function, depending on the process
- Available to order in any shape and size

## Vertical tubular screws:

- Various sealing types
- High-quality SKF / INA bearings
- Continuously welded screw
- Screw combined in continuous or flanged versions
- Screw in carbon steel, stainless steel, or wear-resistant materials







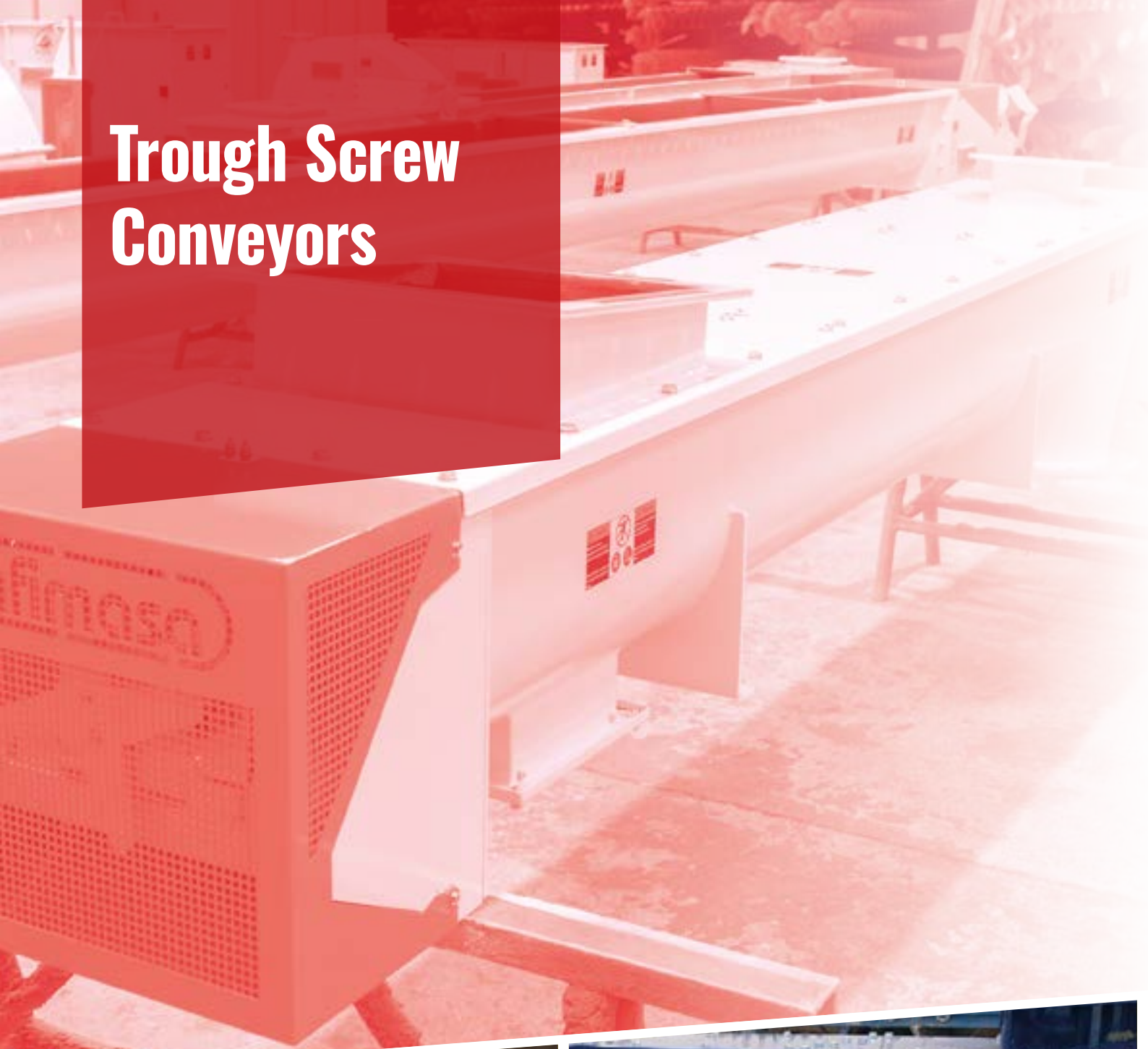
Set of tubular screws



Tubular screw conveyor



# Trough Screw Conveyors



ATEX trough screw conveyor



Trough screw conveyor



# High-Strength Trough Screw Conveyor

The high-strength trough screw conveyor is designed for the transport of materials such as aggregates, cement, mortar, coal, and highly abrasive powders. In our technical office, we size each conveyor and adapt it to the specific needs of integrator engineering firms and clients, taking into account the project's characteristics and the material to be transported.

We provide a screw conveyor solution for every need. The bodies can be made from any type of steel and finish, complying with the specific requirements of each client.



Trough screw conveyor



Trough screw conveyor

# TROUGH SCREW CONVEYOR FEATURES

Performance tailored to your needs.  
Custom-made in any shape and size.



- Robust construction in carbon steel, stainless steel, or wear-resistant materials
- Steel trough in "U" shape
- Continuously rolled screw or with flanges
- Bolted cover with seals
- External bearings by INA/SKF
- Gearmotor drive
- Quiet operation
- Minimal maintenance
- Custom-made models available on request
- Models ranging from TS-150/170 to TS-800/850



Trough screw conveyor





Trough screw conveyor



Trough screw conveyor

# Shaftless Screw Conveyor



Double extractor



# Shaftless screw for the transport, lifting, compacting, and desanding of sludge and similar materials

At **SINFIMASA**, we design and manufacture shaftless screws for handling sludge with variable density and moisture, especially those prone to sticking. The bodies can be made in trough or tube form, using any type of steel and finish, fully meeting each client's specific requirements.

Depending on the material being handled, we equip the screws with specific components such as polyethylene liners, sliding plates, carbon steel, wear-resistant steel, or stainless steel.



Screw conveyor for sludge



Screw conveyor for sludge

# SHAFTLESS SCREW FEATURES

Performance tailored to needs. Extraction or transport function. Customizable in any shape and size.



## FUNCTIONS:

- Sludge or similar material transport
- Vertical sludge lifting
- Waste transport and compacting
- Wastewater desanding

## CONSTRUCTION:

- Body in stainless steel AISI-304/316
- Screw in special steel ST-52.3
- Screw in stainless steel AISI-304/316
- HD-1000 polyethylene liner
- Wear-resistant plates



Shaftless screw for sludge treatment plant



Screw for sludge





Screw for sludge







## Contact us

If you need mechanical transport in your production process, consult us about your project or request a call to discuss it.

Scan the QR to access  
our contact form



- ✓ Inquiry about a screw conveyor
- ✓ Inquiry about a bucket elevator
- ✓ Inquiry about a conveyor
- ✓ Request to be contacted



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