

# SILOS SPAIN

**GRAIN HANDLING  
EQUIPMENT**

General catalogue



# Introduction

# Competitive Advantages

## Safety and Quality Requirements

Our handling equipment meets all safety and quality requirements:

- It is made of S350GD galvanized steel with a Z-600 coating providing unbeatable weather protection.
- It is modular and bolted construction.
- Its performance is guaranteed.
- Components from leading brands.
- Its reliability is assured by its mechanical simplicity and the quality of the components.
- It is silent and safe.
- We will meet any required safety regulations: European Directive - machinery. Rules for the selling&trade, commissioning of machines. European Directive - protective systems - potentially explosive atmospheres. Machine safety standard, general principles for the design and assessment of risk and for risk reduction. Equipment and systems for continuous maintenance, safety requirements and electromagnetic compatibility. Machine safety. Permanent means of access to machines and industrial facilities. Low voltage directive.

## Product range

- **Harvest season range:** Designed for medium use during one harvest a year. Suitable for small agricultural installations where handling equipment will work during the harvest period.
- **Industrial range** Designed for continuous processes or intensive use. For small and large facilities operating continuously up to 12 hours a day and up to 300 days a year.
- **Heavy duty range:** Designed for large facilities working up to 24 hours a day and more than 300 days a year.

We have a wide range of accessories related with it

|                   | 40 T/h | 50 T/h | 60 T/h | 75 T/h | 100 T/h | 120 T/h | 150 T/h | 175 T/h | 200 T/h | 250 T/h | 300 T/h | 350 T/h | 400 T/h | 500 T/h | 600 T/h | 700 T/h | 800 T/h |
|-------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| HEAVY-DUTY LINE   |        |        |        |        |         |         |         |         |         |         | .       | .       | .       | .       | .       | .       | .       |
| INDUSTRIAL LINE   | .      | .      | .      | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       |
| AGRICULTURAL LINE | .      | .      | .      | .      | .       |         |         |         |         |         |         |         |         |         |         |         |         |

\* These throughput are indicative. Please, ask for according to type of machine.

## Harvest season range

Designed to meet the needs during the **harvest days only**. **Basic service factor** suitable during the season. **Basic wear resistance protection** that may use PE-1000 high density polymer in some cases. It shares with the industrial range the quality of the steel, S350GD galvanized with Z-600 coating.

## Industrial range

The industrial range has been designed to withstand the most demanding conditions in grain handling.

Its S350GD galvanized steel construction with Z-600 coating makes it highly robust and allows it to work with a wide range of cereals, seeds, legumes and pellets. Protection using High Density Polyethyleng HDPE.

Our industrial range includes:

- **Bucket elevators**
- **Chain conveyors**  
Configurations:
  - Double bottom chain conveyor
  - Intake pit chain conveyor
  - Z-shaped chain conveyor
- **Slide gates for TCI**  
Configurations:
  - Slide gate
  - Longitudinal side gate
  - Motorized flap gate
- **Traditional belt conveyors**  
Configurations:
  - Belt conveyor with *tripper*
  - Reversible belt conveyor
  - Curved belt conveyor
- **Screw conveyors**
- **Agricultural screw conveyors**
- **Industrial screw conveyors**
- **Sweepers**

## Heavy-duty range

The heavy-duty range has been designed for daily and continuous use over the year in facilities where reliability and durability are essential.

With innovative solutions, highly durable materials and solutions to guarantee robustness and reliability. We design our projects to be worldwide recognized references.

Made of welded and hot-dip galvanized steel, the heavy-duty machinery is suitable for working with a wide range of grains. Depending on its use, it can have metallic wear resistance coating or Ultra High Molecular Weight Polyethyleng UHMWPE protection.

Our heavy-duty range includes:

- **Bucket elevators**
- **Chain conveyors**  
Configurations:
  - Double bottom chain conveyor
  - Intake pit chain conveyor
- **Discharge gates**
- **Enclosed belt conveyors**  
Configurations:
  - Enclosed belt conveyor with stationary *tripper*



# Industrial range



## ECI – Industrial Bucket Elevator

### General characteristics

- Direct transmission
- Shrink disk
- Inspection windows in the motor section
- Regulation hatch
- Torque arm
- Top cover on the motor section
- Covering at the foot of the elevator
- Inspection windows in the foot section
- Intermediate sections of 2 and 3 meters
- Inspection section
- Tensioning section covers
- Easy to use pulley tensioner
- Greaseproof belt
- High density polyethylene HDPE wear resistant material

### Standard equipment

- 45° / 60° / 90° inlet
- 45° / 90° outlet hopper
- Belt misalignment detectors
- Rotation sensor
- HDPE polyethylene buckets
- Anti-return brake

### Optional equipment

- Temperature sensor
- Metal buckets
- Stairs and maintenance platforms
- Dust aspiration
- Anti-explosion panels
- Ultra high molecular weight polyethylene UHMW wear resistant material
- ATEX 21 or ATEX 22 certification

| Model   | Throughput (T/h) | Speed (m/s) | Bucket / m | Rows | Belt width (mm) | Pitch circle diameter (mm) |
|---------|------------------|-------------|------------|------|-----------------|----------------------------|
| ECI 20  | 20               | 2,95        | 5,26       | 1    | 150             | 420                        |
| ECI 30  | 30               | 2,95        | 8,3        | 1    | 150             | 420                        |
| ECI 40  | 40               | 2,4         | 6          | 1    | 180             | 430                        |
| ECI 50  | 50               | 2,4         | 7,5        | 1    | 180             | 430                        |
| ECI 60  | 60               | 2,4         | 8,5        | 1    | 180             | 430                        |
| ECI 75  | 75               | 2,4         | 5,5        | 1    | 260             | 530                        |
| ECI 100 | 100              | 2,4         | 7          | 1    | 260             | 530                        |
| ECI 120 | 120              | 2,9         | 5,5        | 1    | 310             | 630                        |
| ECI 150 | 150              | 2,9         | 4          | 1    | 350             | 630                        |
| ECI 175 | 175              | 2,9         | 4,5        | 1    | 350             | 630                        |
| ECI 200 | 200              | 2,9         | 5,5        | 1    | 350             | 630                        |
| ECI 250 | 250              | 3           | 4          | 1    | 500             | 730                        |
| ECI 300 | 300              | 3           | 4,75       | 1    | 500             | 730                        |
| ECI 350 | 350              | 3           | 5,55       | 1    | 500             | 730                        |
| ECI 400 | 400              | 3,1         | 5,88       | 2    | 650             | 900                        |
| ECI 500 | 500              | 3,23        | 5,7        | 2    | 800             | 1100                       |
| ECI 600 | 600              | 3           | 5          | 3    | 1.300           | 1100                       |

\*The specified values have been established using a material with a density of 0,75 T/m<sup>3</sup> as a reference



## TCI – Industrial Chain Conveyor

### General characteristics

- Chain shock absorber system
- Grain anti accumulation system
- Tail section covers
- Inspection windows in the motor section
- Direct transmission
- Shrink disk
- Torque arm
- Side strips
- Chain guide system
- Chain with folding paddles (Redler type)

### Standard equipment

- Overflow system
- Input hopper with chain protection and cleaning window in the guide
- Rotation sensor

- 8mm High density polyethylene HDPE wear resistance material on the floor
- Output hopper with various slopes according to the connection requirements
- Rubber scraper
- Height adjustable legs up to 1.5m

### Optional equipment

- Return buckets
- Dust aspiration
- Ultra high molecular weight polyethylene 5mm UHMW wear resistance material on the sides
- Temperature sensor
- Various support heights according to requirements
- Adjustable legs for heights above 1.5m
- ATEX 21 or ATEX 22 certification

| Model   | Throughput (T/h) | Throughput (m <sup>3</sup> /h) | Length max. (m) | Speed (m/s) | Pitch circle diameter (mm) | Pitch (mm) |
|---------|------------------|--------------------------------|-----------------|-------------|----------------------------|------------|
| TCI 20  | 20               | 27                             | 55              | 0,32        | 200                        | 100        |
| TCI 30  | 30               | 40                             | 55              | 0,5         | 200                        | 100        |
| TCI 40  | 40               | 53                             | 55              | 0,4         | 250                        | 125        |
| TCI 50  | 50               | 67                             | 55              | 0,5         | 250                        | 125        |
| TCI 60  | 60               | 80                             | 55              | 0,6         | 250                        | 125        |
| TCI 75  | 75               | 100                            | 65              | 0,4         | 327                        | 125        |
| TCI 100 | 100              | 134                            | 65              | 0,5         | 327                        | 125        |
| TCI 120 | 120              | 160                            | 65              | 0,6         | 327                        | 125        |
| TCI 150 | 150              | 200                            | 60              | 0,4         | 439                        | 150        |
| TCI 175 | 175              | 233                            | 60              | 0,5         | 439                        | 150        |
| TCI 200 | 200              | 266                            | 60              | 0,6         | 439                        | 150        |
| TCI 250 | 250              | 333                            | 65              | 0,5         | 485                        | 150        |
| TCI 300 | 300              | 400                            | 65              | 0,6         | 550                        | 200        |
| TCI 400 | 400              | 533                            | 65              | 0,75        | 550                        | 200        |
| TCI 500 | 500              | 667                            | 65              | 0,6         | 550                        | 200        |
| TCI 600 | 600              | 800                            | 65              | 0,75        | 550                        | 200        |

\*The specified values have been established using a material with a density of 0.75 T/m<sup>3</sup> as a reference

\* Maximum slope 10°



Motorized gearbox



Chain tensioner



Pit intake chain conveyor



Z-shaped chain conveyor



Industrial chain conveyor



Industrial chain conveyor - Z-shaped

## Configurations

### Industrial chain conveyor – for pit intake

The main use of this accessory is during the reception of the material. Thanks to its hood accessory it can also be used as a confluence point for the entry of several products. It allows the conveyor flow to be regulated automatically and avoids blockage and overloads.

### Industrial chain conveyor – Double bottom

This accessory allows the grain to be moved in both directions and increases the choices of position for several inputs and multiple outputs, and does so without the need to use a reversible chain conveyor or to use a special chain. A special motor section and tail section are not needed.

### Industrial chain conveyor - Z-shaped

It enables a Z-shaped configuration with a horizontal section and another sloping one that allows it to pass over obstacles or changes in height.

It is a simple design that combines the characteristics of the GCI TCI chain conveyor with a new design of transport sections, which can be installed in a chain conveyor for the reception of material or to avoid long slopes in long chain conveyors.

#### General characteristics:

- Upward section.
- Downward section.
- Inner skid.
- Anti wear material.

#### Different uses:

**Example 1.** Starting from the loading of the conveyor in a horizontal position, changes in levels can be overcome and then continue inclined.

**Example 2.** Connection of the intake pit conveyor to the elevator lowering the depth of the pit. This option avoids the need to carry out civil engineering work and allows the elevator to be placed on the same level as the chain conveyor.

**Example 3.** You can go over obstacles and height changes and then return the conveyor to the horizontal.

**Example 4.** Starting from the loading of the conveyor in an inclined orientation, obstacles can be passed over and the transport continued along a horizontal section.



| Model   | Throughput (T/h) | Throughput (m³/h) | Length max. (m) | Speed (m/s) | Pitch circle diameter (mm) | Pitch (mm) |
|---------|------------------|-------------------|-----------------|-------------|----------------------------|------------|
| TCZ 40  | 40               | 53                | 55              | 0,4         | 250                        | 125        |
| TCZ 50  | 50               | 67                | 55              | 0,5         | 250                        | 125        |
| TCZ 60  | 60               | 80                | 55              | 0,6         | 250                        | 125        |
| TCZ 75  | 75               | 100               | 65              | 0,4         | 326,64                     | 125        |
| TCZ 100 | 100              | 134               | 65              | 0,5         | 326,64                     | 125        |
| TCZ 120 | 120              | 160               | 65              | 0,6         | 326,64                     | 125        |
| TCZ 150 | 150              | 200               | 60              | 0,4         | 438,57                     | 150        |
| TCZ 175 | 175              | 233               | 60              | 0,5         | 438,57                     | 150        |
| TCZ 200 | 200              | 266               | 60              | 0,6         | 438,57                     | 150        |

\*The specified values have been established using a material with a density of 0.75 T/m³ as a reference

\*Available in 5° and 10° slopes

## Slide gates for TCI

### General characteristics

- Easy assembly to the conveyor
- Bolted design
- Protection of the elements
- Opening and closing control through sensor
- Security opening system
- Chain opening guide
- Cleaning brushes



## Configurations

### Slide Gate

**Manual.** It is driven by a steering wheel or pulley depending on the needs of the installation.



**Motorized.** It is driven by a gear motor  
Optional Atex 22  
The powers are detailed in the following table

| Model         | Power (Kw) |
|---------------|------------|
| TCI < 30 T/h  | 0,09       |
| TCI < 60 T/h  | 0,09       |
| TCI < 120 T/h | 0,18       |
| TCI < 150 T/h | 0,25 -0,37 |
| TCI < 400 T/h | 0,37       |
| TCI < 600 T/h | 0,37       |



**Pneumatics.** It is actuated through a piston.  
Standard equipment:

- 40mm diameter cylinder with subsection nuts
- Double solenoid valves from 5/2 to 24V DC with connector
- Magnetic detector
- Flow regulator for a slow opening speed
- Silencer

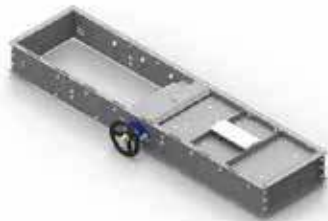
Optional equipment:

- ATEX 22

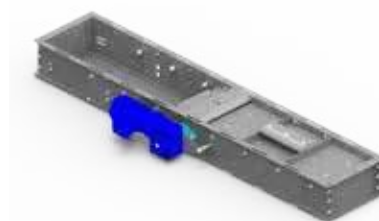


## Longitudinal Slide Gate

There are two types of configurations: **Manual and Motorized.**  
It is ideal for single catwalks. The compact design allows to save space in the catwalk.



**Manual**



**Motorized**

## Motorized Flap Gate

The motorized slide gate design saves space on the catwalk due to its compact shape. It is driven by a gear motor that opens and closes the slide gate, allowing the grain circulate.



# TBI – Industrial belt conveyors

## General characteristics

- Low energy use compared to other conveyor types
- Large transport cross-section
- Suitable for fragile products
- Low noise when in use
- With a protective cover
- Max. slope for smooth belt 15°, depending on material
- Ribbed belt from 15° inclination
- Heavy-duty large diameter rollers for longer working life
- Rollers suited to the climatic conditions for greater durability
- Tightener section with outer bearings



## Standard equipment

- One loading station per belt
- Belt cleaning scraper
- Detachable cover along the whole length
- Outlet hopper
- Vulcanized driving drum
- Squirrel cage tensioning drum
- Height adjustable legs up to 1.5m
- Flaps at the entrance
- Inspection hatch in the head
- Guide rollers with welded metallic lid
- Return rollers
- Cleaning rollers

## Optional equipment

- Rotation sensor
- Belt slippage sensor
- Bearing temperature sensor for head and tightener section
- Sail-type roller to centre the belt
- Skirts along the whole belt
- Safety sliding cover
- Dust aspiration
- Closed underneath
- Adjustable legs for heights above 1.5m
- Antiflame belt

| Model    | Throughput (T/h) | Throughput (m <sup>3</sup> /h) | Speed (m/s) | Roller position | Belt width (mm) |
|----------|------------------|--------------------------------|-------------|-----------------|-----------------|
| TBI 40   | 40               | 53,33                          | 1,2         | V               | 500             |
| TBI 60   | 60               | 80,00                          | 1,5         | V               | 500             |
| TBI 80   | 80               | 106,67                         | 2           | V               | 500             |
| TBI 100  | 100              | 133,33                         | 1,5         | V               | 650             |
| TBI 120  | 120              | 160,00                         | 1,7         | V               | 650             |
| TBI 150  | 150              | 200,00                         | 2           | V               | 650             |
| TBI 180  | 180              | 240,00                         | 2,5         | V               | 650             |
| TBI 200  | 200              | 266,67                         | 1,45        | U               | 800             |
| TBI 250  | 250              | 333,33                         | 1,9         | U               | 800             |
| TBI 300  | 300              | 400,00                         | 2,3         | U               | 800             |
| TBI 400  | 400              | 533,33                         | 1,8         | U               | 1000            |
| TBI 500  | 500              | 666,67                         | 1,5         | U               | 1200            |
| TBI 600  | 600              | 800,00                         | 1,9         | U               | 1200            |
| TBI 800  | 800              | 1066,67                        | 2,5         | U               | 1200            |
| TBI 1000 | 1000             | 1333,33                        | 2,3         | U               | 1400            |

\*The specified values have been established using a material with a density of 0,75 T/m<sup>3</sup> as a reference

## Configurations

### Belt conveyor with tripper

When required, the belt conveyor can have a tripper.

The tripper enables intermediate discharges and has wheels mounted on bearings that use the conveyor frame itself as a track. A steel cable system and pulleys driven by an independent motorised gearbox with a fixed brake, moves the trolley along the length of the conveyor until it is where the product is required to be discharged. Stop devices can be installed to allow the product to be discharged according to a programme.

### Reversible belt conveyor

This allows bidirectional movement and the reception of material at any point along the belt. For discharging the product, it has 2 outlets, at each end of the conveyor. It has two motor units and an intermediate tensioner for belt tensioning. It also has sail-type rollers to avoid the deflection of the belt and to keep it centred.

### Curved belt conveyor

This enables a Z-shaped configuration with a horizontal section and another sloping one that allows it to pass over obstacles or changes in height. It is a simple design that combines the characteristics of the belt conveyor with the design of new transport sections, so as to avoid long slopes in long belt conveyors.

## TRC - Screw conveyors

### General characteristics

- Mechanically simple
- Direct drive type
- Fairing
- Lightweight screw
- Maximum slope 30°
- Easy to maintain

### Standard equipment

- Anti-sway supports: one every 3m
- Bronze-plumb bushing
- Maximum screw length sections 3m
- Motorized gearbox with parallel axles
- Discharge outlet in the head
- Loading point in the tail
- Removable cover for inspection

### Optional equipment

- Gradual screw pitch
- Semi-heavy- or heavy-duty screw as required
- Stainless steel construction
- Capacitive sensors
- Head bearing temperature sensor
- Rotation sensor
- Intermediate discharge at any point of the conveyor using slide gates
- Various loading points
- Reversible screw

## Agricultural Tubular Conveyors

| Model     | Throughput (T/h) | Throughput (m <sup>3</sup> /h) | Length max. (m) | Speed (r.p.m.) | Screw diameter (mm) |
|-----------|------------------|--------------------------------|-----------------|----------------|---------------------|
| TRC 150 A | 18               | 24                             | 22              | 350            | 150                 |
| TRC 200 A | 38               | 50                             | 22              | 300            | 200                 |
| TRC 250 A | 59               | 78                             | 22              | 240            | 250                 |
| TRC 300 A | 85               | 113                            | 22              | 200            | 300                 |
| TRC 350 A | 115              | 153                            | 22              | 170            | 350                 |
| TRC 400 A | 152              | 202                            | 22              | 150            | 400                 |

## Industrial Tubular Conveyors

| Model     | Throughput (T/h) | Throughput (m <sup>3</sup> /h) | Length max. (m) | Speed (r.p.m.) | Screw diameter (mm) |
|-----------|------------------|--------------------------------|-----------------|----------------|---------------------|
| TRC 150 I | 6                | 8                              | 22              | 120            | 150                 |
| TRC 200 I | 15               | 20                             | 22              | 120            | 200                 |
| TRC 250 I | 29               | 38                             | 22              | 120            | 250                 |
| TRC 300 I | 51               | 68                             | 22              | 120            | 300                 |
| TRC 350 I | 81               | 108                            | 22              | 120            | 350                 |
| TRC 400 I | 122              | 162                            | 22              | 120            | 400                 |

\*The specified values have been established using a material with a density of 0.75 T/m<sup>3</sup> as a reference

\*The slope can significantly reduce the stated flow depending on the characteristics of the product.

\* Approximate outputs depending on the gearbox model



## SF - Agricultural Tubular Conveyors

### General characteristics

- Mechanically simple
- Belt and pulley transmission
- Completely sealed construction
- Hot-dip galvanised finish
- Lightweight screw

### Standard equipment / optional

- Discharge outlet in the head / Standard
- Loading point in the tail / Standard
- Gradual screw pitch / optional
- Various loading points / optional
- Load regulation using manual slide gates / optional

| Model  | Throughput (T/h) | Throughput (m <sup>3</sup> /h) | Length max. (m) | Speed (r.p.m.) | Screw diameter (mm) |
|--------|------------------|--------------------------------|-----------------|----------------|---------------------|
| SF 110 | 18               | 6,67                           | 12              | 600            | 110                 |
| SF 140 | 25               | 24                             | 12              | 600            | 140                 |
| SF 180 | 35               | 50,67                          | 12              | 600            | 180                 |
| SF 200 | 45               | 78,67                          | 10              | 600            | 200                 |

\*The specified values have been established using a material with a density of 0,75 T/m<sup>3</sup> as a reference.

\*The slope can significantly reduce the stated flow depending on the characteristics of the product.

## TRT - Industrial Tubular Conveyors

### General characteristics

- Mechanically simple
- Transmission direct-drive type
- Completely sealed construction
- Hot-dip galvanised finish
- Lightweight screw

- Direct-drive systems have parallel axles
- Discharge outlet at head
- Loading inlet at tail

### Optional equipment

- Gradual screw pitch
- Semi-heavy- or heavy-duty screw as required
- Bearing temperature sensors
- Rotation sensor
- Load regulation using manual slide gates
- Several loading points

### Standard equipment

- Anti-sway supports maximum every 3m
- Lead bronze bushings
- Maximum screw length sections 3m

| Model   | Throughput (T/h) | Throughput (m <sup>3</sup> /h) | Length max. (m) | Speed (r.p.m.) | Screw diameter (mm) |
|---------|------------------|--------------------------------|-----------------|----------------|---------------------|
| TRT 110 | 2                | 3                              | 18              | 120            | 110                 |
| TRT 150 | 6                | 8                              | 18              | 120            | 150                 |
| TRT 200 | 15               | 20                             | 18              | 120            | 200                 |
| TRT 250 | 29               | 38                             | 18              | 120            | 250                 |
| TRT 300 | 51               | 68                             | 18              | 120            | 200                 |
| TRT 350 | 81               | 108                            | 18              | 120            | 350                 |

\*The specified values have been established using a material with a density of 0,75 T/m<sup>3</sup> as a reference.

\*The slope can significantly reduce the stated flow depending on the characteristics of the product.



Head - Tubular Conveyor



Tubular conveyor with hopper

## TSB - Sweeper

### General Characteristics

- Angle drive unit
- Robust design
- Protective cover for the screw
- Robust joint supports that ensure proper alignment

### Standard equipment

- Protective motor housing
- Adjustable flow gate in the sweeping section

- Intermediate supports for screw and fairing
- Height adjustable support system for the tail
- Dual tail traction for heavy loads

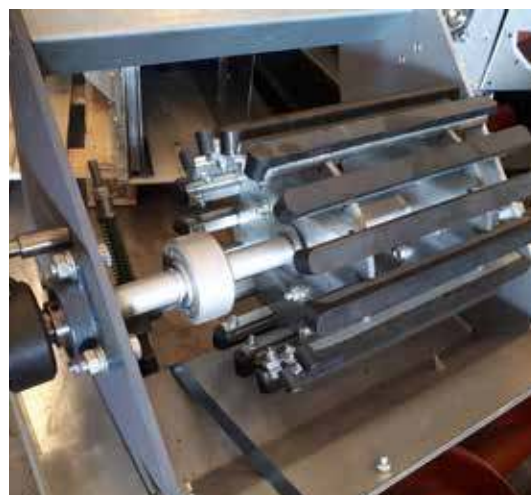
### Optional equipment

- Cleaning rubber band
- Side clearing screw
- Position sensor
- Level sensor
- Screw reinforcement

| Model  | Throughput (T/h) | Screw diameter (mm) | Silo diameter max. (m) | Power (kw) |
|--------|------------------|---------------------|------------------------|------------|
| TSB 01 | 50               | 180                 | 18,33                  | 4 - 7,5    |
| TSB 02 | 70               | 200                 | 32,08                  | 4 - 18,5   |
| TSB 03 | 180              | 280                 | 32,08                  | 18,5 - 30  |

\*The specified values have been established using a material with a density of 0,75 T/m<sup>3</sup> as a reference.

\*Use limited to wheat and maize. For other grains, please ask.



# Heavy-duty range

---



## ECH – Heavy-duty Bucket Elevators

### General characteristics

- Direct transmission
- Shrink disk
- Inspection windows in foot and head
- Adjustable anti-return flap in the head
- Tensioning system with protective cover in the base
- Manganese steel wear resistance material (HARDOX) in the base and head
- Torque arm built into the head
- Discharge curve protected with wear resistance material
- Inspection section with easily removable view panel
- Bearings protected from the weather
- Tensioning pulley – squirrel type
- Elevator base cover
- Support tower required

### Standard equipment

- 45° or 90° inlet
- 45° or 90° outlet hopper
- Belt misalignment detectors
- Rotation sensor
- HDPE polyethylene buckets
- Mechanical stop-return brake
- Tension rule

### Optional equipment

- Temperature sensor
- Metal buckets
- Blockage sensor in inlet hopper
- Blockage sensor in outlet hopper
- Tower and stairs
- Anti-explosion panels
- Automatic bearing lubrication
- ATEX 21 or ATEX 22 certification



| Modelo  | Throughput (T/h) | Speed (m/s) | Bucket / m | Rows | Belt width (mm) | Pitch circle diameter (mm) |
|---------|------------------|-------------|------------|------|-----------------|----------------------------|
| ECH 300 | 300              | 3           | 3,5        | 2    | 750             | 800                        |
| ECH 350 | 350              | 3           | 4          | 2    | 750             | 800                        |
| ECH 400 | 400              | 3           | 4,5        | 2    | 750             | 800                        |
| ECH 500 | 500              | 3           | 5,5        | 2    | 750             | 800                        |
| ECH 600 | 600              | 3           | 4,5        | 2    | 1086            | 1000                       |
| ECH 800 | 800              | 3           | 5,7        | 2    | 1086            | 1000                       |



## TCH - Heavy-duty Chain Conveyors

### General characteristics

- Highly robust sections with reinforcement and welded flanges
- Rear cleaning hatch
- Tensioner bearings protected from the weather
- Inspection windows in head and tail section
- Elastic coupling
- Shrink disk
- Inspection access window in head and tail
- Curved chain guide for silent operation
- Forged core chain and welded paddles
- Heat treated pinion and pulley

### Standard equipment

- Overflow system in outlet hopper
- Rotation sensor
- Wear resistant plates on the floors and walls
- Plastic scraper
- Heat treated pinion and pulley
- Inlet and outlet hoppers with different slopes
- Height adjustable legs up to 1.5 m
- Bedframe up to 1.5 m

### Optional equipment

- Bedframe for heights higher than 1.5 m
- Temperature sensor on bearings
- Adjustable legs for heights higher than 1.5 m
- ATEX 21 or ATEX 22 certification

| Model   | Throughput (T/h) | Throughput (m³/h) | Speed (m/s) | Pitch circle diameter (mm) | Chain type | Pitch (mm) |
|---------|------------------|-------------------|-------------|----------------------------|------------|------------|
| TCH 300 | 300              | 400               | 0,6         | 459,52                     | Forged     | 142        |
| TCH 350 | 350              | 466,67            | 0,7         | 459,52                     | Forged     | 142        |
| TCH 400 | 400              | 533,33            | 0,8         | 459,52                     | Forged     | 142        |
| TCH 500 | 500              | 666,67            | 0,9         | 459,52                     | Forged     | 142        |

## Configurations

### Chain conveyor with intake pit module

Reception hopper located in the storage reception area. It allows automatic flow regulation on the conveyor avoiding blockages jams and overload.

### Double bottom chain conveyor

This configuration allows bidirectional transport of the product without the need to have a reversible chain conveyor or to use a special chain.



## CDH – Heavy-duty Discharge Gates

### General characteristics

- Quick fixing to the conveyor
- Bolted modular design
- HARDOX chain guide supplement
- Optional open/close detector sensors for manual slider gate
- Protection of moving parts
- Cleaning brushes

| Model | Motor power (kw) | Motor torque (N/m) | Opening dimensions (mm) |
|-------|------------------|--------------------|-------------------------|
| 5045  | 0,55             | 116                | 500x1000                |



Manual discharge gate



Motorized discharge gate



Pneumatic discharge gate

# TBC - Enclosed Belt Conveyors

## General characteristics

- Enclosed type design to avoid the release of dust
- Automatic roller centering
- Large transport capacity
- Self-regulating scraper in the head
- Overflow detector
- Self protected head
- Quick opening system using a hatch
- Inspection windows on both sides
- Torque arm built into the head
- Inlets and outlets protected with metallic wear resistant material
- Bearing adjustment system in the tail
- Sides with reinforced ribs
- Inspection window in the tail
- Inspection view-ports in head and tail and panels removable for easy cleaning

## Standard equipment

- Belt misalignment detector
- Rotation sensor in tail
- Over flow sensor in head
- Wear resistant floor
- Drive pulley scraper
- Cleaning system in tail with product recovery
- Inlet and outlet hoppers
- Height adjustable legs up to 1.5m

## Optional equipment

- Temperature sensor on bearings
- Automatic bearing lubrication
- Stationary tripper for intermediate discharges
- Adjustable legs for heights higher than 1.5m
- ATEX 21 or ATEX 22 certification



| Model   | Throughput (T/h) | Throughput (m <sup>3</sup> /h) | Speed (m/s) | Roller positions | Belt width (mm) |
|---------|------------------|--------------------------------|-------------|------------------|-----------------|
| TBC 500 | 500              | 666,66                         | 2           | U                | 1000            |
| TBC 600 | 600              | 800                            | 2,3         | U                | 1000            |
| TBC 700 | 700              | 933,33                         | 2,7         | U                | 1000            |
| TBC 800 | 800              | 1066,66                        | 3           | U                | 1000            |

## Configurations

### Enclosed belt conveyor with stationary tripper

- It allows clean and safe intermediate discharge from the enclosed belt.
- Negligible energy consumption compared with traditional movable tripper systems.
- Movable mechanical elements built into the box.
- Very simple mechanisms compared to traditional mobile trippers.
- No chance of derailing.
- It does not need a tunnel-type walkway to work.
- Virtually maintenance-free compared to traditional systems.





### Our Office

C/Gobelas, 15  
28023 Madrid  
Spain



### Our Manufacturing Plant

C/Astronauta Pedro Duque  
29320 Campillos, Málaga  
Spain



### Get in Touch

[silos@silospain.com](mailto:silos@silospain.com)  
(034) 606 80 17 22  
(034) 924 75 00 08