

# Cimbria Conveying Equipment



# Cimbria Conveying Equipment links key machines to form well-functioning industrial plants – That is what we call Grain Care

## World-Wide Experience

With its roots in Denmark, Cimbria works world-wide in the development, production and marketing of machinery and plants. Conveying systems that connect processing machinery is one of our specialities.

## Wide Range of High Quality Products

On the basis of our extensive know-how, achieved through more than 50 years of supplying conveying systems we have developed a comprehensive range of conveyors for horizontal and vertical material handling. A broad programme of additional accessories supplements our wide range of products.

## Know-How and Care

Comprehensive knowledge and experience with all processes in a plant ensure the optimal design of a conveying system with the highest possible degree of simplicity and to ensure careful treatment of the products to be handled.

## Optimal Profit and Loss Account and Fast Return on Investment

Reduction of the conveying routes protects the crop against complexity and unnecessarily long conveyors. This minimises the risk of waste and reduces the consumption of energy. An exact and correct dimensioning of your conveying system protects you against failure or under capacity on the key processing machines and you are guaranteed a faster return on your investment.

## Reference Plants

We have supplied conveying systems for granules, grain, coffee beans, garden seeds, milk powder, sugar, lime, cement, and many other materials all over the world. The thousands of reference plants we have delivered world-wide is the best way of showing our quality and expertise.



Nga Nam, Soc Trang Province, Vietnam. Integrated Paddy receiving, precleaning, drying and storage plant. Capacity 15 tph including 8 tph complete rice mill.

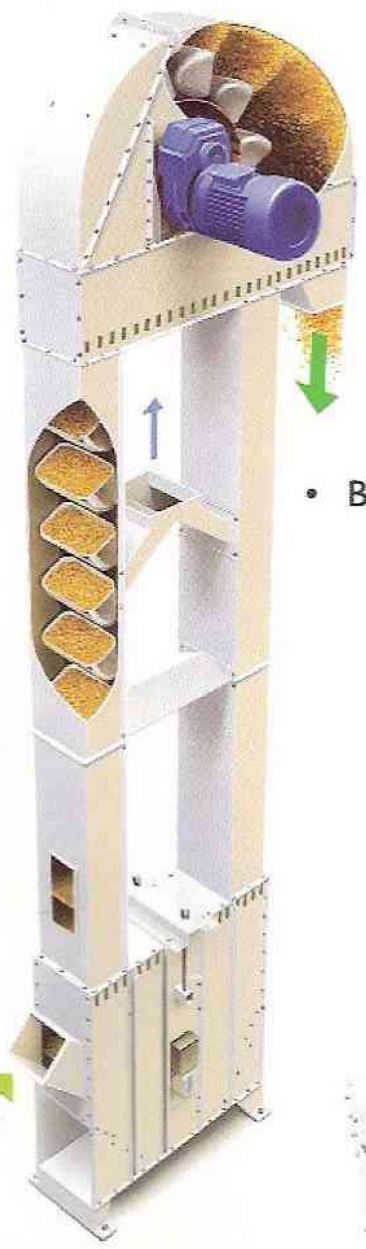


Mitsubishi Heavy Industries, Qingdao, China. Port terminal for import / export of wheat, maize and others. Capacity 660 tph.

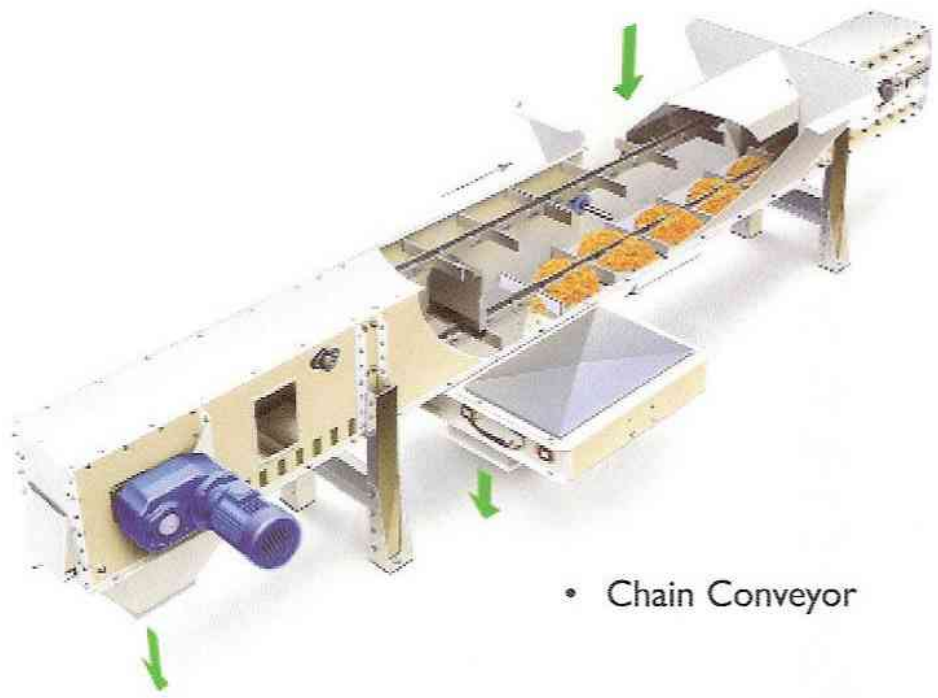
**Graphic Illustration**



• Belt Conveyor



• Bucket Elevator



• Chain Conveyor

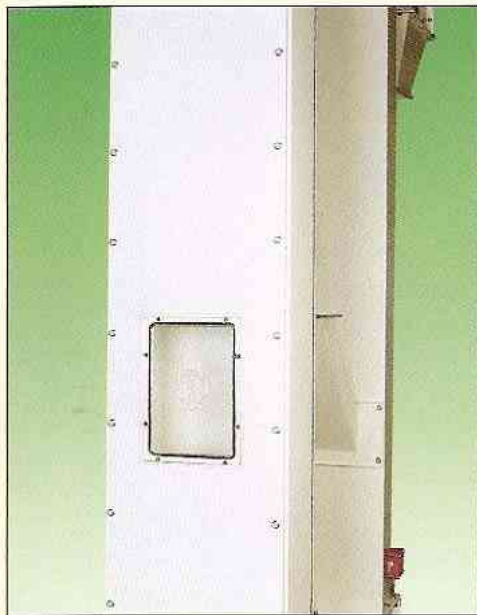
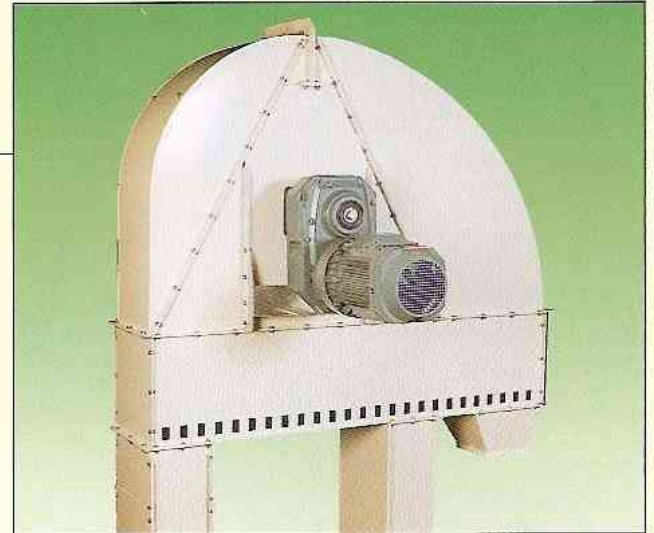


Cimbria bucket elevators are ideal for the vertical conveying of products such as grain, pellets and powder. It distinguishes itself by its high degree of durability, safety of working and by its low power consumption when compared to the capacity.

The heavy industrial designed bucket elevators are available in 10 sizes having capacities from 40 to 1,300 m<sup>3</sup>/hour and are self-carrying up to 50 metres depending on the actual size. Cimbria bucket elevators are very durable and made of wear resistant materials and can be installed both inside and outside a building.

## The Elevator Head

- is designed with replaceable wear plates for minimal wear.
- is delivered with an efficient hollow shaft mounted gear with standard motor and incorporated back stop device to prevent anti-reverse in case of unintended stops.



## The Elevator Legs

- are easily assembled by means of special assembly clamps and distance pieces, resulting in a sturdy construction.
- are delivered with a detachable door in full length for service and inspection and easy installation of the belt and buckets.
- are easy to install.
- are available in standard lengths – the exact height is easily achieved by means of the height adjustment section.

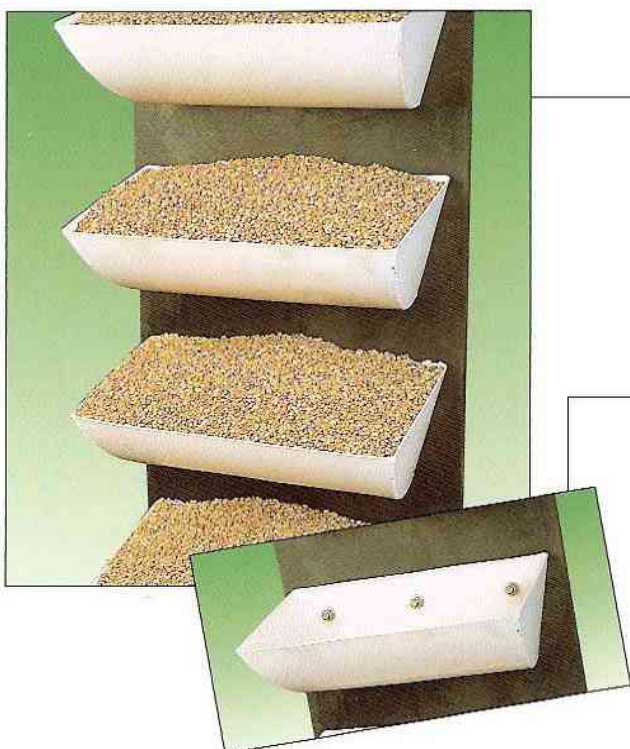
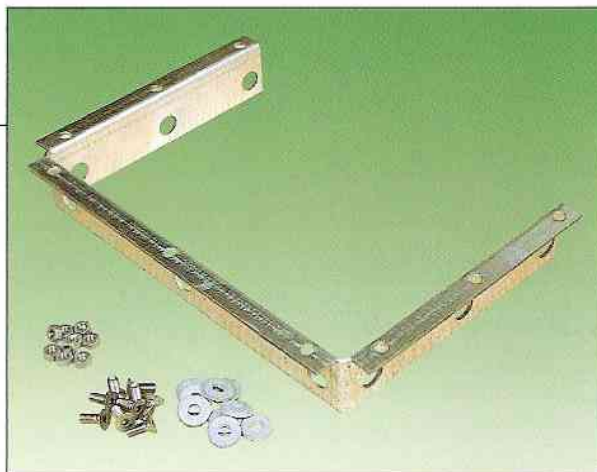
## The Elevator Boot

- is complete with inlet hopper that fits the unique Cimbria Q-spouting system.
- is delivered with Cimbria electronic speed guard that switches off the current if the belt starts to slip.
- has built in cleaning door.
- is designed with belt tensioning devices easily accessible on the top of the elevator boot.



## Height Adjustment Section

- is used if there is a need to adjust the height of the elevator.
- ensures an unimpeded belt passage through a special way of instalment.



## Elevator Buckets

- are available in steel, stainless steel and plastic.
- are placed with a distance that allows for efficient filling of the buckets which ensures optimal handling of the material at a high capacity.

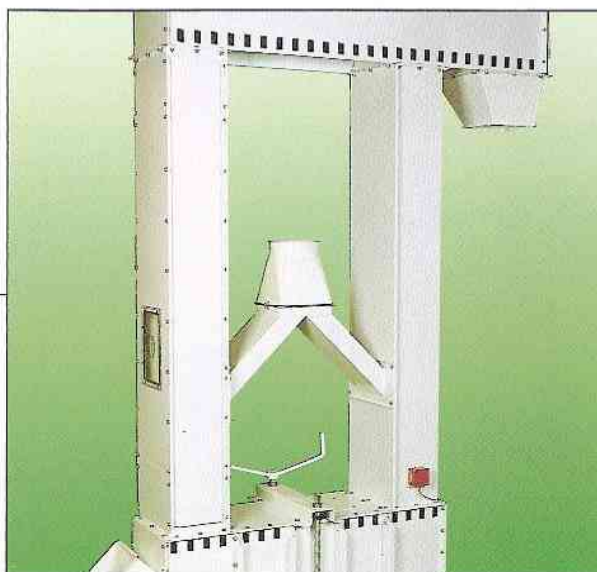
## Elevator Belt

- is available in many types and qualities, anti-static and oil- and fat resistant.
- is dimensioned with a tensile strength of 10 times nominal working load.

## Additional Accessories

Cimbria offers a complete range of additional accessories for increased safety for special working conditions.

- Explosion relief for pressure compensation.
- Misalignment switch for control of straight running belt.
- Dust suction adaptor for dust aspiration.

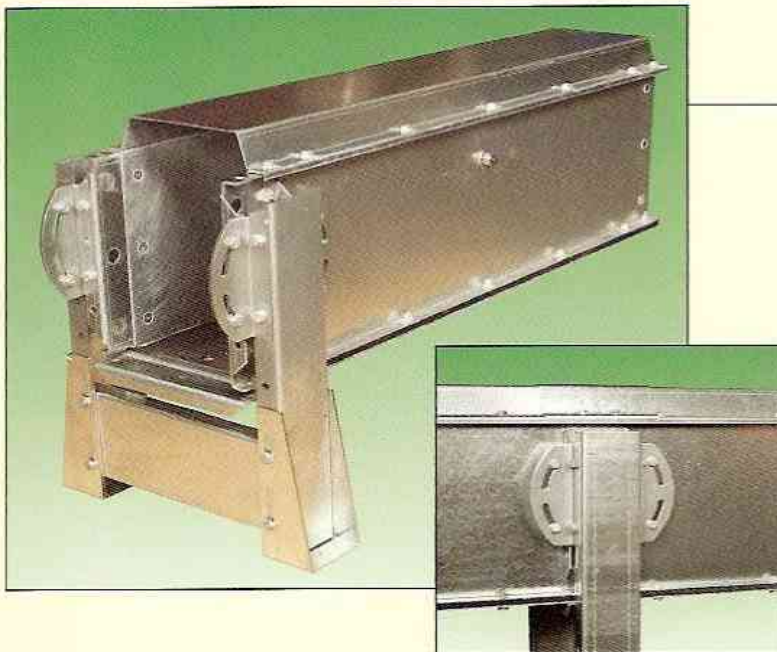
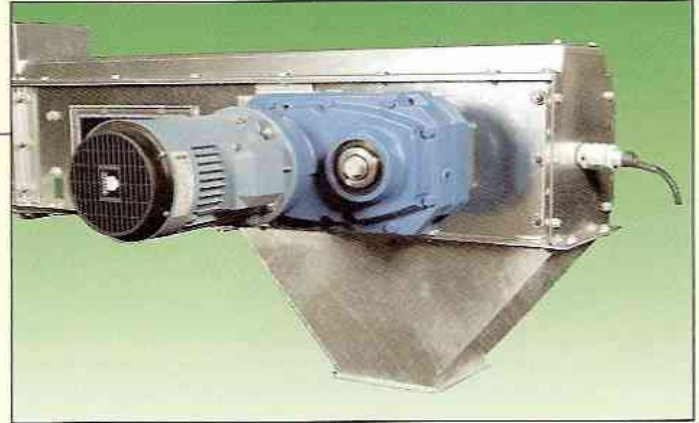


Cimbria chain conveyors are ideal for horizontal and slightly inclined conveying of products such as grain, pellets, powder, and shavings where an enclosed dust tight conveying is required.

The heavy industrial designed chain conveyors are available in 8 sizes having capacities from 60 to 1,300 m<sup>3</sup>/h. The chain conveyors are manufactured in a modular system and can be delivered in the exact required length.

## The Drive Terminal

- is delivered with an efficient hollow shaft mounted gear with standard motor and safety switch as overflow control.
- has outlet that fits the unique Cimbria Q-spouting system.



## The Intermediate Sections

- are fast and efficiently assembled by means of assembly devices that ensure a tight and straight running chain conveyor.
- have height adjustable legs for easy and flexible installation of the chain conveyor in exactly the required height.
- are complete with wear plates that ensure a long lifetime of the chain conveyor and a low noise level for optimal working conditions.
- are designed with return rollers with bearings for minimum friction and noise.

## The Tension Terminal

- is used to keep the conveying chain tensioned.
- is designed with tensioning device that allows for adjustment of the chain while working.
- can be delivered with speed guard for control of the chain speed.



## Outlet Slides

- are available in manual, pneumatic and motor operated versions.
- are complete with wear plates on the slide plates.
- are designed with a brush that keeps the chain above the slide clean and ensures optimal chain cleaning.
- are complete with outlet spouts that fit the unique Cimbria Q-spouting system.



## Additional Accessories:

### Double Side Inlets

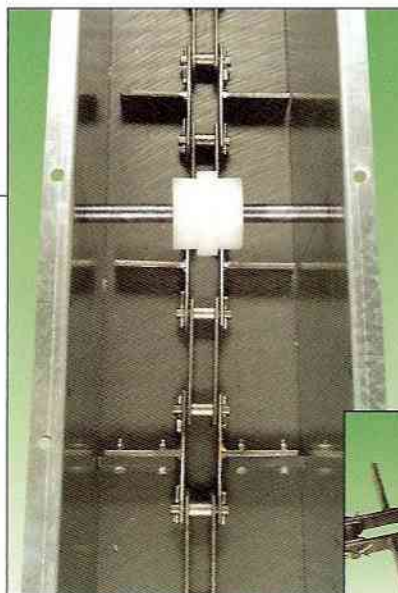
- are available in standard lengths built in a modular design.
- are ideal for inlet hoppers, bulk weighers and other places where a bin is to be emptied.

### Double Bottom and Heightened Cover

- are available for conveying in both directions at the same time. This is achieved by means of an intermediate bottom plate, heightened cover and a capacity shutter.

## The Conveying Chain

- is manufactured in special steel with flights welded on and assembly pins and hardened steel bushings. This provides a hardwearing chain that is easy to install.
- has a sufficient number of nylon flights in the full width of the conveyor to ensure emptying.
- is available with return buckets for conveying of overflow.

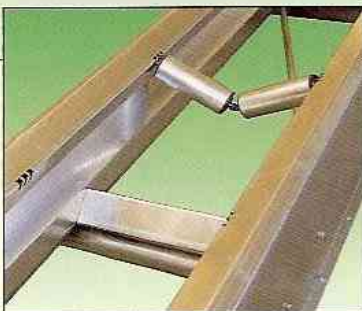


Cimbria belt conveyors are ideal for gentle horizontal conveying of granular products such as grain, pellets, powder or the like. The energy consumption and the wear is minimal. A Cimbria belt conveyor is totally self-emptying.

The belt conveyors are available for capacities from 40 to 1,300 m<sup>3</sup>/h. The belt conveyors are manufactured in a modular system and can be delivered in the exact required length.

## The Drive Terminal

- is delivered with an efficient hollow shaft mounted gear with standard motor.
- has outlet that fits the unique Cimbria Q-spouting system.
- is designed with a crowned drive pulley to ensure a straight running belt.

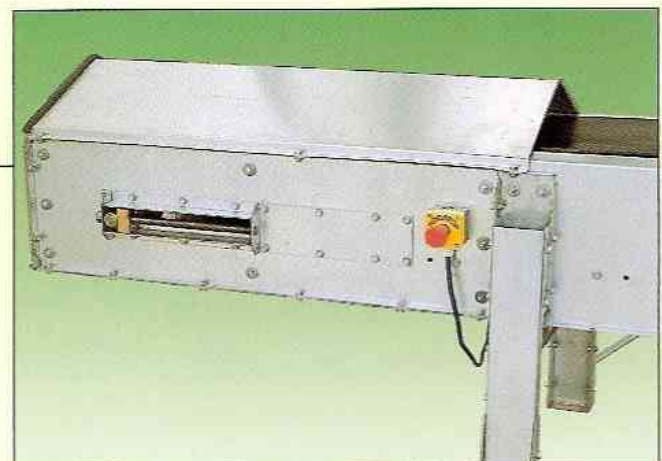


## The Intermediate Sections

- are designed in a way that ensures that the belt conveyors are self-carrying up to 10 metres.
- have height adjustable legs for easy and sturdy installation.
- have a unique design which allows stepless adjustment of the roller sets without use of tools.
- are easily and sturdy assembled by means of assembly devices that ensure a tight and straight running belt conveyor.

## The Tension Terminal

- is designed for easy and fast tensioning and alignment of the rubber belt, using normal tools.
- is designed with a crowned tension pulley to ensure a straight running belt.
- can be delivered with safety equipment such as speed guard and misalignment switch.



## Inlet Hoppers

- provide an efficiency filling of the belt without any spilling.
- allow installation of several inlet hoppers on one belt conveyor.



## Discharge Car

- distinguishes itself by a remarkable low build-in height.
- has incorporated wheels.
- is available in motorised and manual versions.
- is designed with optimal safety in mind.
- has an incorporated slide plate in the outlet.

## Additional Accessories

### Enclosure

- is designed in a modular system that ensures easy and fast assembly.
- allows conveying in areas with high environmental restrictions.
- allows for outdoor installation.

### Further:

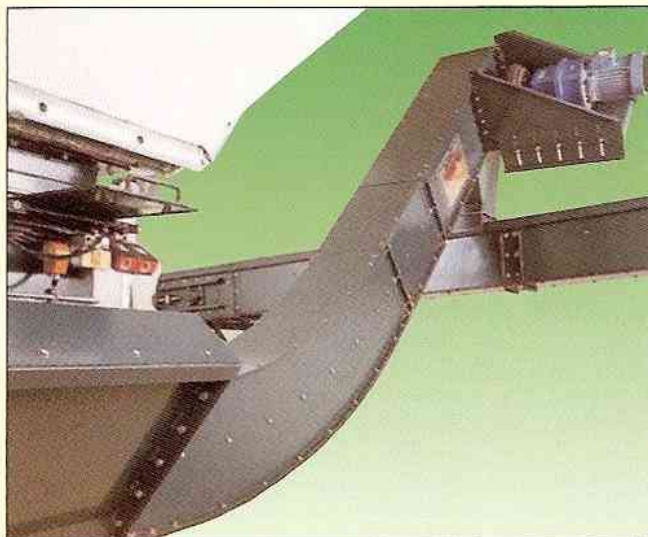
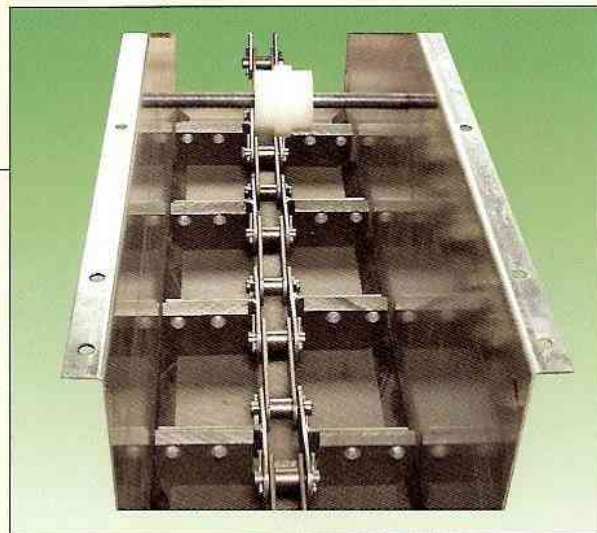
- Safety wire with micro switch.
- Brush in the outlet for cleaning of the return belt.
- Rubber belt available in oil- and fat resistant execution.





## Trapezoid Conveyor

- is designed with the principle of the chain conveyor in mind.
- has a specially designed trapezoid formed bottom and flights that ensure a totally emptying .
- increases the number of utilisation as the conveyor is running totally empty.
- can run up to 15° without decreasing the capacity.

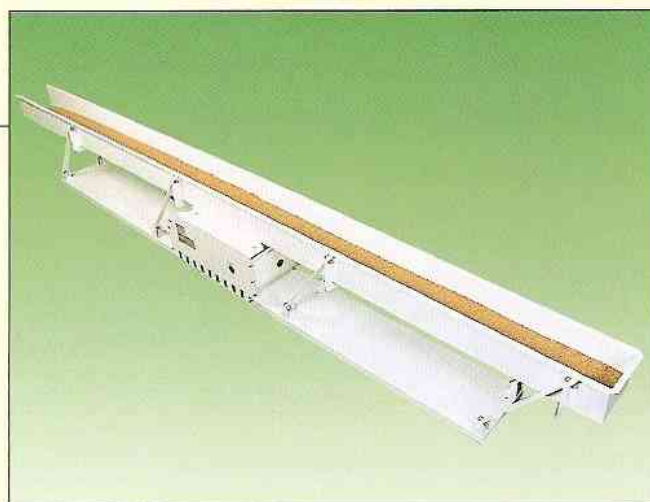


## Cimbria Angle Conveyor

- is designed with the principle of the chain conveyor in mind.
- is particularly suited for bulk intakes or to avoid the use of an elevator for inclined conveying from one machine to another up to 45°.
- can be mounted with a downward curving bend so that the direction is altered from ascending to the horizontal.

## Cimbria Jog Conveyor

- is a reliable and inexpensive means of transportation.
- ensures totally emptying.
- conveys solely by means of the conveyor's vibrating movements.
- is especially suitable for the shorter, horizontal conveying of extremely varied products such as grain, straw, tobacco and many others.
- can be delivered for capacities up to 50 m<sup>3</sup>/h.



## Cimbria Unique Conveying Spouts

- are square spouts for the gravity flow of grain and other free flowing products.
- have the advantages that they are square which means that they have less friction so require lower angles than round spouts and consequently require a lower built-in height.
- are made with end flanges for Cimbria connection clamps. For higher capacities the unique spouts are complete with welded end flanges for bolted assembly.
- have capacities up to 2000 m<sup>3</sup>/h.



**Cimbrias complete Q-spouts programme and accessories comprises the following:**

- Square spouts
- Vertical and twisted bends
- Adapters
- Two-way valves
- Connecting boxes
- Shutters
- Assembly flanges and clamps
- Air-lock valves



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