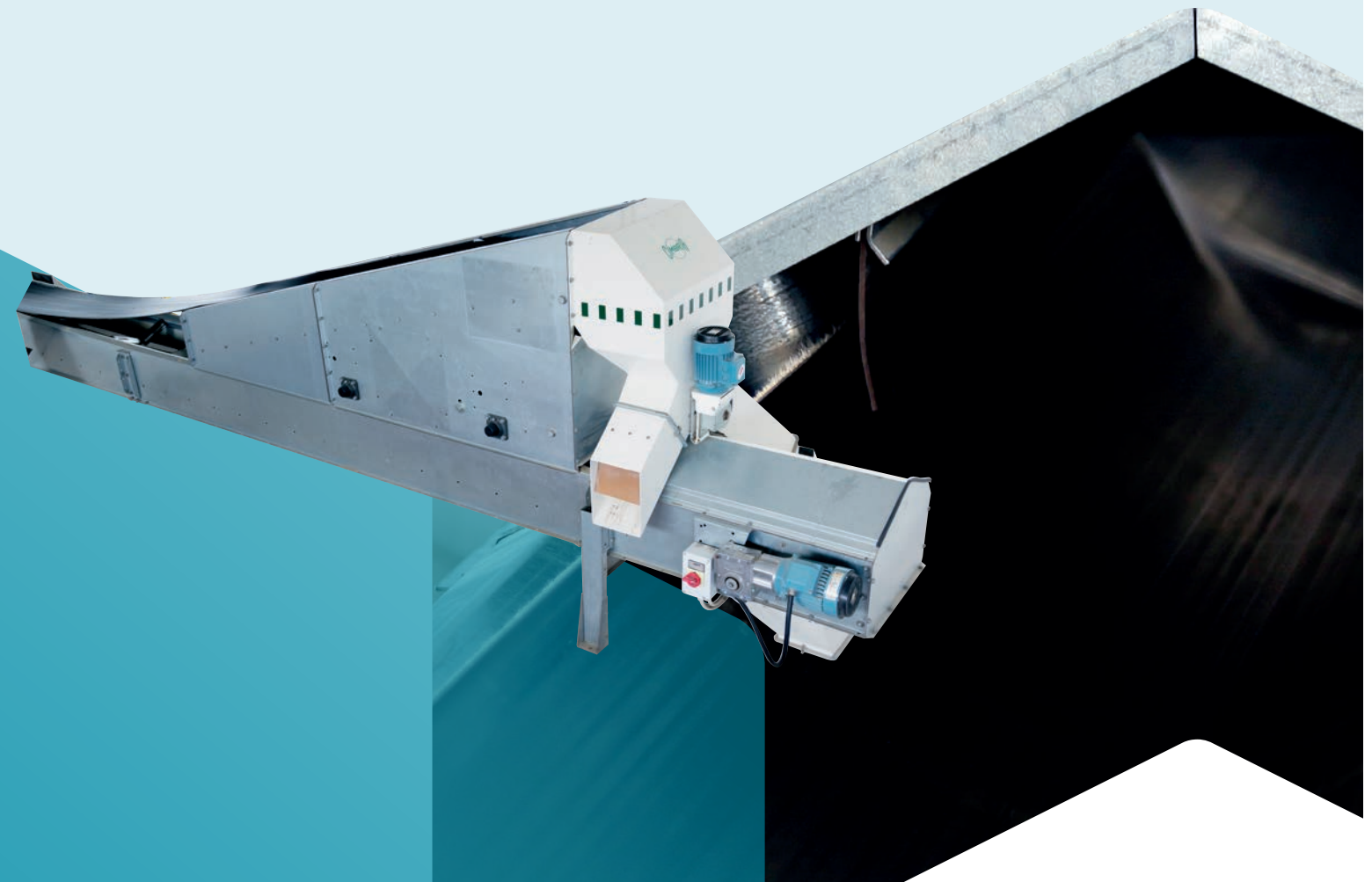


# BELT CONVEYOR

CONVEYING 





# BELT CONVEYING SOLUTIONS FOR HORIZONTAL CONVEYING OF DRY BULK MATERIALS



## FOR GENTLE HORIZONTAL CONVEYING

Cimbria is one of the world's leading producers of conveying equipment for agricultural and industrial products.

Many years of thorough engineering experience has made us a competent and reliable supplier with focus set on conscientiously and precise calculation of capacity combined with knowledge of the products or the materials to be conveyed.

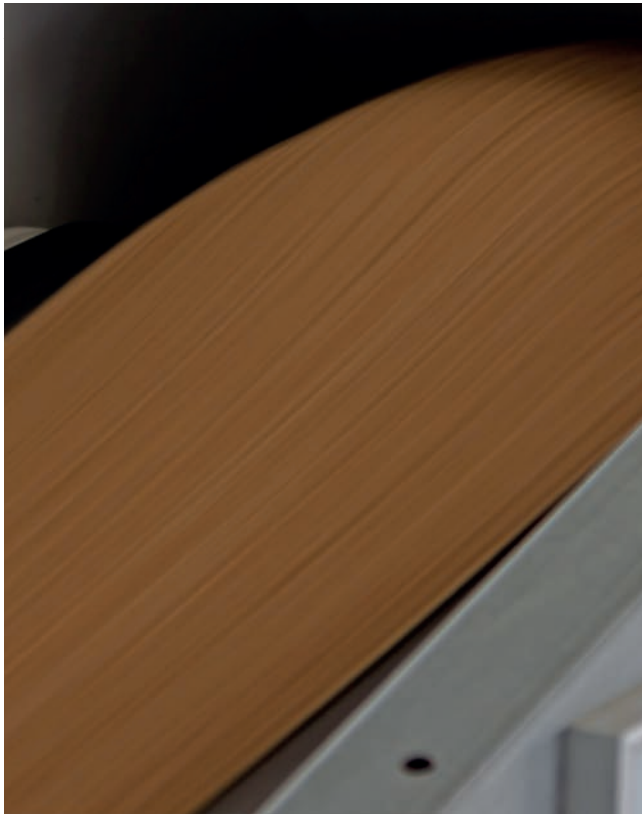
This way we are able to design and manufacture belt conveyors that comply with the customer's demands and expectations.

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## MEETING DEMANDS AND EXPECTATIONS

The Cimbria belt conveyors are ideal for gentle horizontal conveying of bulk materials such as e.g. grain, pellets and seed. The belt conveyor is totally self-emptying, and the energy consumption and the wear is minimal. Various models and sizes are available depending on materials being conveyed and the required capacity.

The belt conveyors are manufactured in a modular system and can be delivered in the exact required length and with optional equipment such as discharge car, top and bottom cover, oil resistant belt, multiple inlet points etc. The belt conveyor is as standard supplied in galvanized execution.



### MODULAR STRUCTURE

The modular structure means that the user receives precisely the solution that matches his application, as well as a level of flexibility that enables modifications and repairs to be carried out with a minimum of disruption of the conveying process. This reduces not only maintenance costs but also the knock-on effect in lost production time.

### FORM AND FUNCTION

Optimal design and construction make the belt conveyors a reliable and safe solution. With the variety of models combined with an extensive range of accessories, they meet the specific customer requirements while at the same time fulfilling the standards of the various directives securing the health and safety of the people operating the conveyor.

### SUPPORT AND SERVICE

We place great emphasis on giving customers the right advice, so they are able to select the very best solution – in both technical and financial terms – in collaboration with Cimbria. Our customers can always be certain that the product has been thoroughly tested and documented. In addition, we keep all standard components in stock, which means that we can provide quick and efficient service for our customers.

## EXAMPLES OF MATERIALS TO BE CONVEYED

MINERALS		WHITE RICE		PELLETS	
SEED		GREEN COFFEE		FERTILIZERS	
GRANULES		SUN-FLOWER		WOOD CHIPS	
MAIZE		GRAIN		MAIZE COBS	

# BELT CONVEYOR CONSTRUCTION

Cimbria belt conveyor program comprises models constructed to suit various materials and tasks, and it comes with a range of standard features. Standard features cover galvanized steel sheets, easy assembled sections of 500 - 1000 - 3000 mm length, free hanging rollers on side rails, support mounting system, belts according to DIN22102Y, drive terminal with hollow shaft gear, and motors and gears from well-known and acknowledged supplier in energy classes IE2 and IE3.

Furthermore, the top cover with integrated inlet and supporting rollers means avoidance of product spillage and the possibility for multiple inlets. The belt conveyor can as standard be inclined up to 20° without loss of capacity. The belt is a trough formed unit which runs on duplex or triple support rollers. This unit form gives a high capacity compared to the belt width. The conveyors are supplied with a discharge spout suiting the Cimbria Q-spouting system.

## TENSION STATION

- designed for easy and fast tensioning and alignment of the rubber belt, using normal tools
- 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 efficient filling of the belt without any spilling
- designed to allow installation of several inlet hoppers on one belt conveyor
- fixed or movable version available



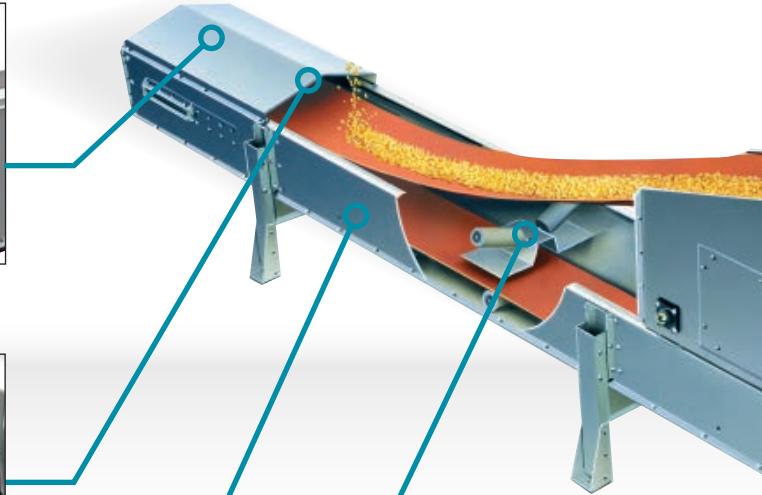
## INTERMEDIATE SECTIONS

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



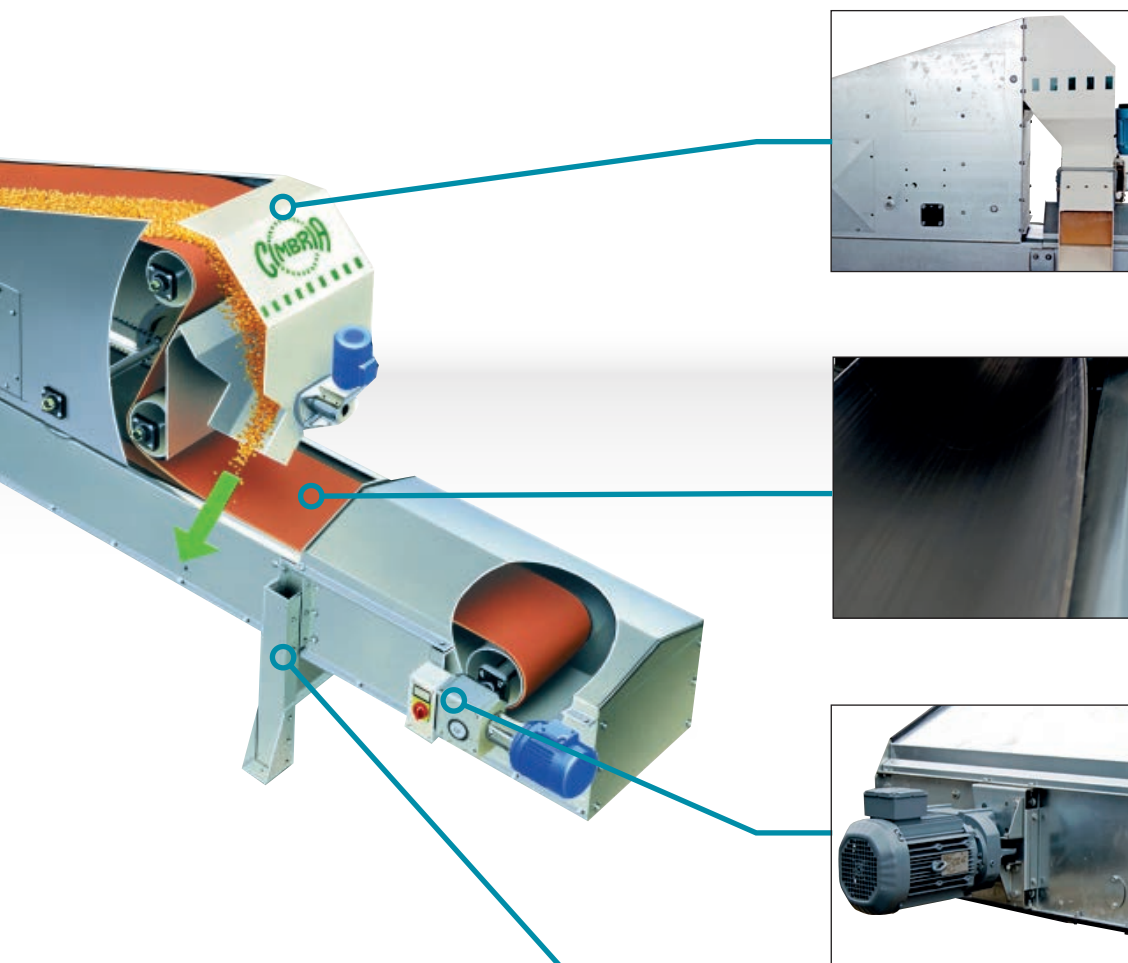
## CARRIER ROLLERS

- free hanging rollers
- ensures safe guidance of belt and product to outlet
- duplex or triple roller system depending on belt size



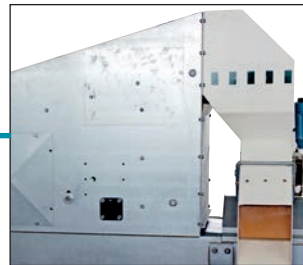


## MODULAR SYSTEM ADAPTED TO YOUR REQUIREMENTS



### DISCHARGE CAR

- distinguishes itself by a remarkable low building height
- incorporated wheels
- available in motorised and manual versions
- designed with optimal safety in mind
- incorporated diverter in the outlet



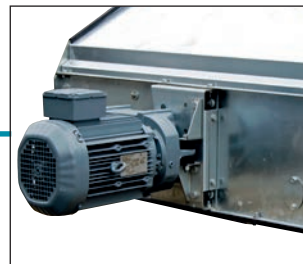
### BELT

- open or welded execution
- can be supplied with carrier flights to prevent materials from flowing back as optional
- oil- and fat resistant belts on request
- food grade belt as option



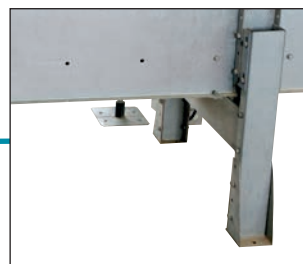
### DRIVE STATION

- delivered with an efficient hollow shaft mounted gear with standard motor
- outlet fits the unique Cimbia Q-spouting system
- designed with a crowned drive pulley to ensure a straight running belt
- lagging of drive drum to ensure sufficient friction can be supplied as optional



### SUPPORTING LEGS

- easy to mount
- consists only of a few parts that need assembling
- easy adjustable to various inclinations
- can be used for both standing and hanging support
- inclination in standard range up to 20° or 3.4 M/10 M



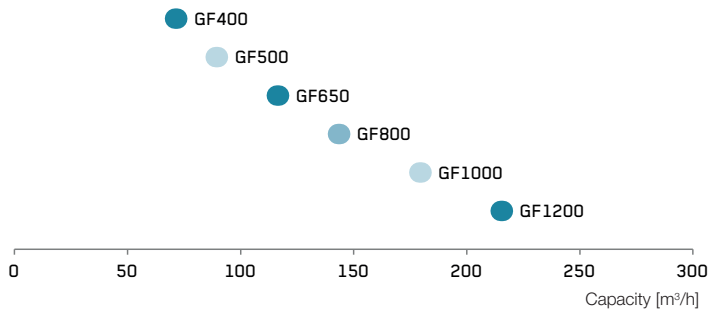
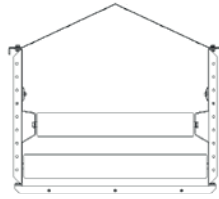
### ACCESSORIES AND FEATURES

- cover top and / or bottom
- built-in belt weigher
- speed guard
- misalignment switch
- emergency stop with micro switch
- atex zone approved parts
- weight tension station for long conveyors
- optional cleaning brush can be mounted in outlet

# MODELS AND CAPACITIES

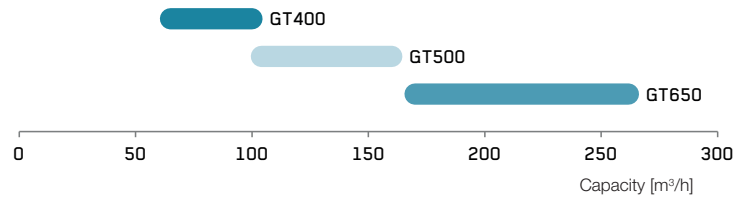
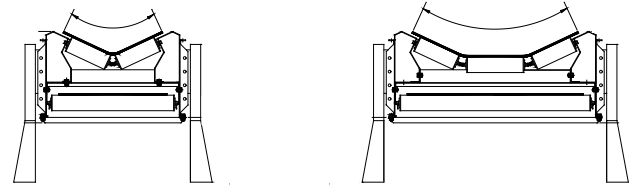
## TYPE GF

- the GF series is a partially enclosed construction designed for horizontal or inclined conveying of bulk material
- the flat profile is particularly suitable for light conveying of loose material such as ear corn



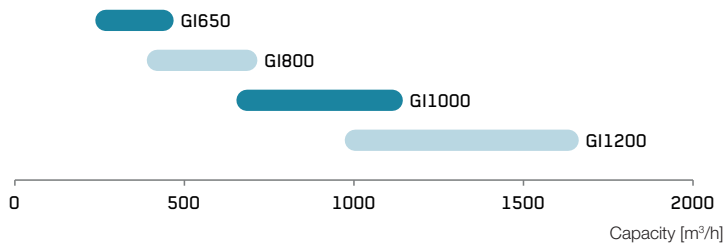
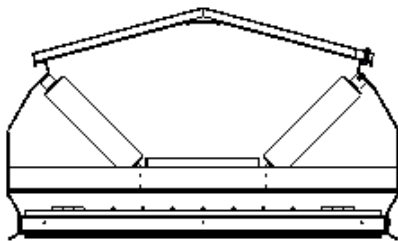
## TYPE GT

- the GT series is fitted with a rubber conveyor belt made up of two layers. It is suitable for the conveying of dry flowing material
- galvanized execution
- bolted construction with fish plate assembly



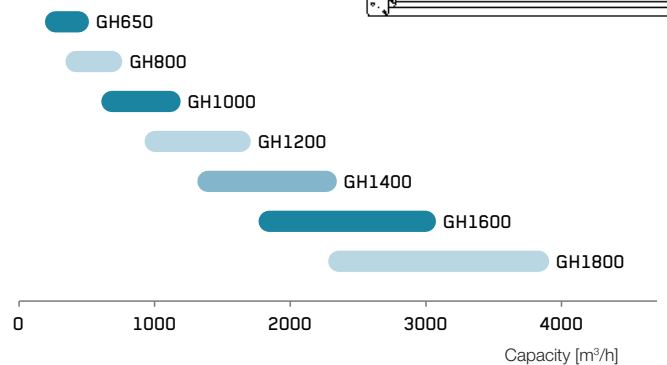
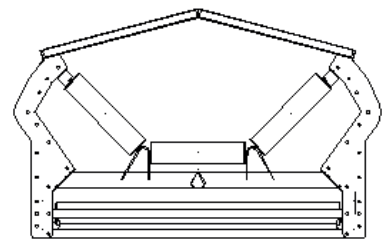
## TYPE GI

- high capacity conveyor
- heavy duty construction
- galvanized execution
- bolted construction with fish plate assembly
- self carrying up to 6 m



## TYPE GH

- high capacity conveyor
- heavy duty construction
- hot dipped galvanized execution
- welded construction with flange assembly
- self carrying min. 9 m



## BENEFITS



### EXPERIENCED AND RELIABLE SUPPLIER

- comprehensive documentation
- high industrial quality
- many years of experience
- local representation in 60 countries
- more than 60 years of experience
- can be supplied as stand alone equipment or as part of a turnkey plant

### MODULAR CONSTRUCTION

- easy and quick replacement in case of damaged or worn parts without having to dismount the belt conveyor
- easy assembly
- reliable operation
- minimum of maintenance
- low energy consumption
- minimized downtime = maximized profit for the end-user

### COMPREHENSIVE PRODUCT PROGRAMME

- handles a vast variety of industrial and agricultural bulk materials
- customised solutions to suit specific customer requirements
- day-to day delivery of spare parts
- standard components in stock
- extensive range of accessories for all applications
- full compliance with the ATEX directive
- continuous development of new products and features



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