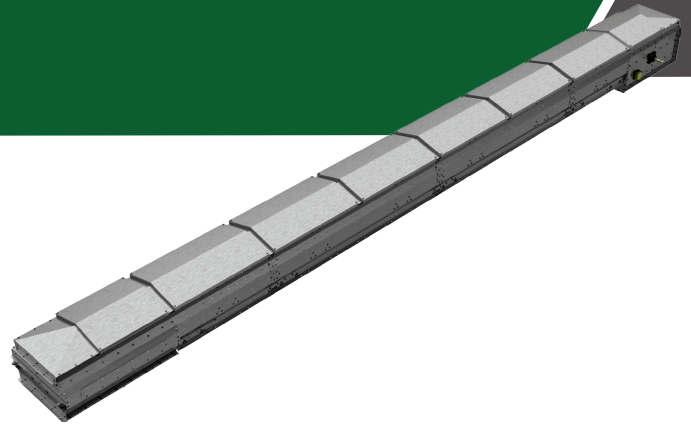


# BELT CONVEYOR TYPE GI



## GENERAL

Brand	Cimbria
Model	GI belt conveyor
Capacity range	504–2 197 m <sup>3</sup> /h
Belt speed	up to 3.50 m/s
Application	Conveying of loose bulk materials, such as grains, pulses and pellets

Cimbria type GI belt conveyor is designed for continuously conveying of loose bulk materials, such as grains, pulses and pellets.

The conveyor has a heavy duty construction and the construction gives a very high capacity.

The conveyor is made of pre-galvanized curved plates, bolted by fishplates. The conveyor has high-quality heavy duty idlers.

The conveyor uses a troughed belt to move the material from the loading points to the unloading point.

The conveyor can be arranged for horizontal or inclined travel, the angle of slope depending on the conveyed material and the type of belt.

The conveyor can be configured for reversible operation.

## FEATURES

- Solid drive pulley with rubber lagging
- Trailing pulley with slide plates
- Free running idlers for belt
- Return idlers with or without rings
- Troughed belt

## DRIVE SYSTEM

- Helical bevel gearmotor, hollow shaft
- Gearmotor mounted on right or left hand side as specified

## CONTROLLERS

- Rotation sensing.
- Pull cord operated emergency stop (optional)
- Bearing heat sensing (optional)
- Misalignment detectors (optional)

## ACCESSORIES

- Equipotential bonding of shafts
- Inlet module
- Outlet with belt scraper
- Brush
- Top and bottom covers for intermediate section
- Weight tension (>100 m)
- Support system; data sheet: *Belt Conveyor Support System*

## Technical data

Maximum capacity	GI-650	504 m <sup>3</sup> /h (3.0 m/s)
	GI-800	789 m <sup>3</sup> /h (3.0 m/s)
	GI-1 000	1 498 m <sup>3</sup> /h (3.5 m/s)
	GI-1 200	2 197 m <sup>3</sup> /h (3.5 m/s)
Maximum bulk density	850 kg/m <sup>3</sup>	
Drive motor size	According to application	
Belt speed	Up to 3.50 m/s	
Sound pressure level	77 to 82 dB(A)	
Maximum length and angle of slope	Depends on the material properties and the length and angle of the conveyor	
Operating conditions	Indoor and outdoor	
	-15°C to +40°C ambient	

NOTE: All capacities in the above table are based on the handling of dry and cleaned wheat.

## Materials

Casing	Standard	Pre-galvanised steel
	Optional	Stainless steel
		Painted
Belt type	Standard	Smooth belt
	Optional	Chevron cleated belt
Belt quality	Standard	Regular belt, antistatic, (SBR)
	Optional	Oil-resistant belt 'GM', antistatic (SBR/NBR)
		FDA compliant belt, white, oil-resistant 'GM', antistatic (SBR/NBR)
Splicing method (belt)	Standard	Endless splicing
		Open

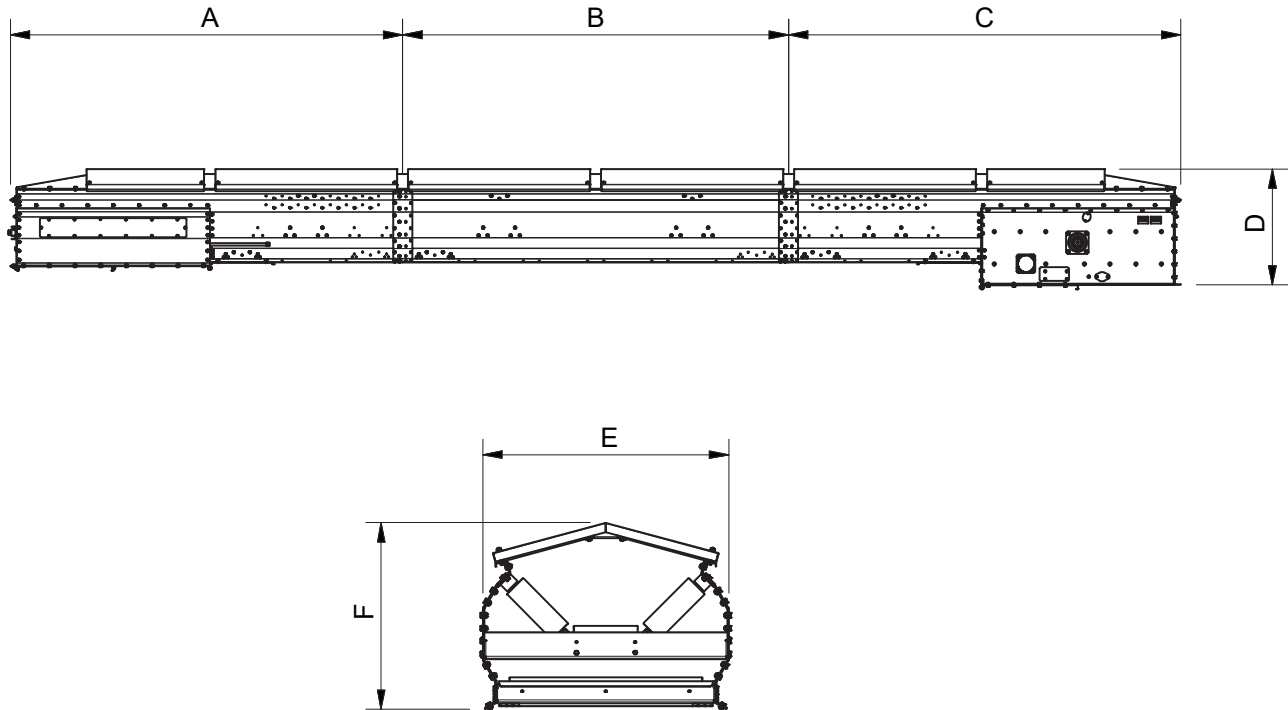
## Compliance

Atex	Standard	Non-zone inside
		Non-zone outside
	Optional	Zone 22 or 21 inside
		Zone 22 or 21 outside

NOTE: Specific requirements apply for ATEX compliance.

# BELT CONVEYOR TYPE GI

## DIMENSIONS



	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]		
<b>GI-650</b>	3 050	1 000 / 1 500 / 2 000 / 3 000	3 050	900	956	725		
<b>GI-800</b>	3 050	1 000 / 1 500 / 2 000 / 3 000	3 050	960	1 150	790		
<b>GI-1 000</b>	3 050	1 000 / 1 500 / 2 000 / 3 000	3 050	1 030	1 350	860		
<b>GI-1 200</b>	3 050	1 000 / 1 500 / 2 000 / 3 000	3 050	1 190	1 600	950		

	Belt type	Belt width [mm]	Belt thickness [mm]	Strength [N/mm]	Material [kg/m] <sup>1</sup>	Inlet/outlet flange	Driving section [kg] <sup>2</sup>	Intermediate section [kg/m]	Tension section [kg]
<b>GI-650</b>	EP250/2 3+1	650	6.0	250	36	Q30	670	104	425
	EP400/3 3+1.5		7.5	400					
<b>GI-800</b>	EP250/2 3+1	800	6.0	250	56	Q40	780	120	480
	EP400/3 3+1.5		7.5	400					
<b>GI-1 000</b>	EP250/2 3+1	1 000	6.0	250	90	Q55	900	137	553
	EP400/3 3+1.5		7.5	400					
<b>GI-1 200</b>	EP250/2 3+1	1 200	6.0	250	130	Q55	1 540	175	780
	EP400/3 3+1.5		7.5	400					

[<sup>1</sup>] With material bulk density 760 kg/m<sup>3</sup>

[<sup>2</sup>] Weight of driving section without motor