

BELT CONVEYOR GI

Cimbría 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 102.03.100

Technical data		
Maximum capacity	GI-650	504 m³/h (3.0 m/s)
	GI-800	789 m³/h (3.0 m/s)
	GI-1000	1498 m³/h (3.5 m/s)
	GI-1200	2197 m³/h (3.5 m/s)
Maximum bulk density	850 kg/m³	
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, the belt type 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.

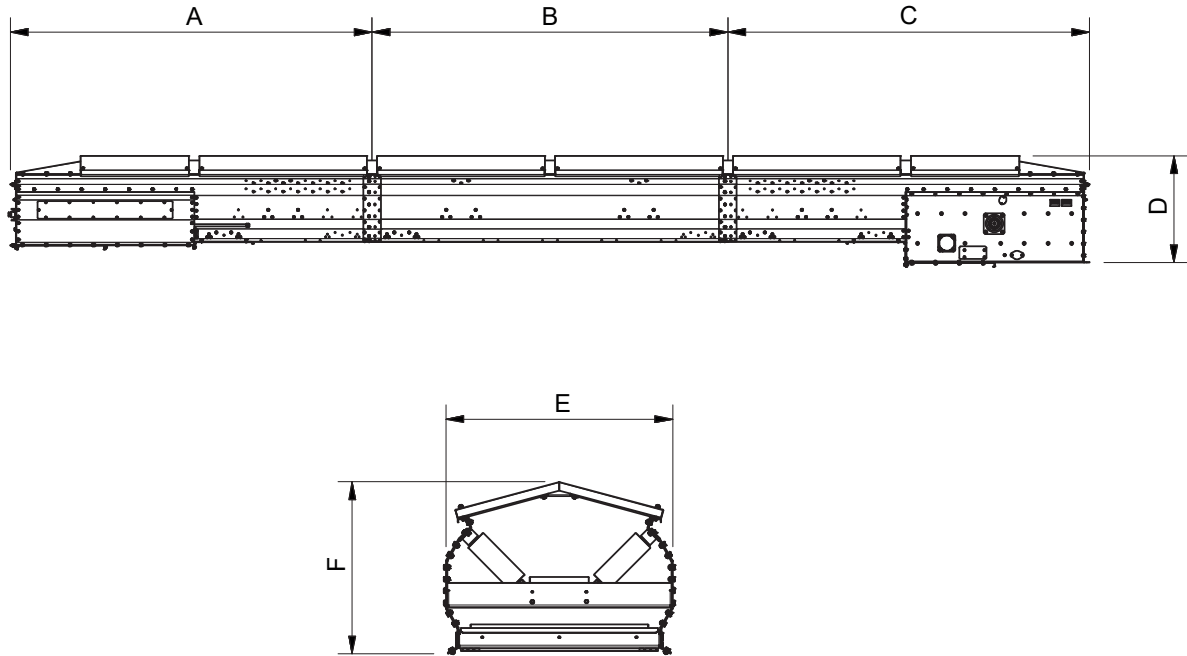
Materials		
Casing	Standard	Pre-galvanised steel
	Optional	Stainless steel
		Painted
Belt type	Standard	Smooth belt
	Optional	Chevron cleated belt
Belt quality	Standard	Regular belt, antistatic, (SBR)
	Optional	Oil-resistant belt 'GM', antistatic (SBR/NBR)
		FDA compliant belt, white, oil-resistant 'GM',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

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DIMENSIONS



	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]		
GI-650	3050	1000 / 1500 / 2000 / 3000	3050	900	956	725		
GI-800	3050	1000 / 1500 / 2000 / 3000	3050	960	1150	790		
GI-1000	3050	1000 / 1500 / 2000 / 3000	3050	1030	1350	860		
GI-1200	3050	1000 / 1500 / 2000 / 3000	3050	1190	1600	950		

	Belt type	Belt width [mm]	Belt thickness, [mm]	Strength [N/mm]	Material [kg/m] ¹	Inlet/outlet flange	Driving section [kg] ²	Intermediate section [kg/m]	Tension section [kg]
GI-650	EP250/2 3+1	650	6.0	250	36	Q30	670	104	425
	EP400/3 3+1.5		7.5	400					
GI-800	EP250/2 3+1	800	6.0	250	56	Q40	780	120	480
	EP400/3 3+1.5		7.5	400					
GI-1000	EP250/2 3+1	1000	6.0	250	90	Q55	900	137	553
	EP400/3 3+1.5		7.5	400					
GI-1200	EP250/2 3+1	1200	6.0	250	130	Q55	1540	175	780
	EP400/3 3+1.5		7.5	400					

[1] With material bulk density 760 kg/m³

[2] Weight of driving section without motor