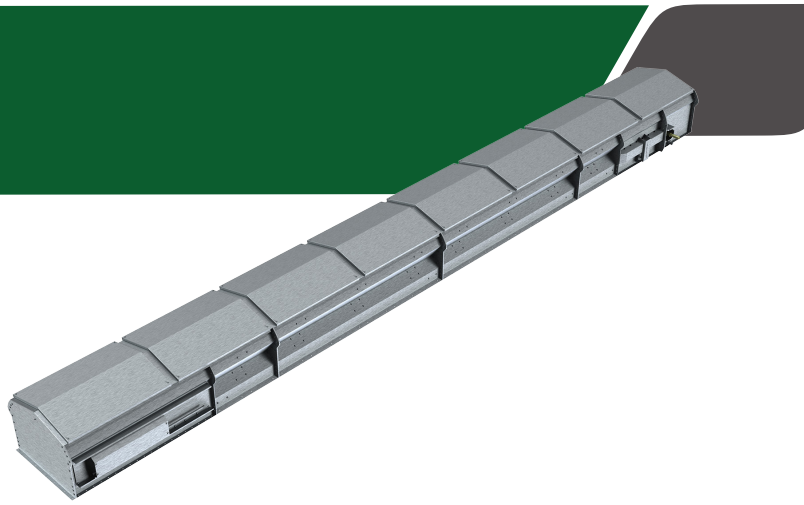
CONVEYING

BELT CONVEYOR TYPE GH



GENERAL

Brand	Cimbria
Model	GH belt conveyor
Capacity range	504–4 034 m³/h
Belt speed	up to 3.00 m/s
Application	Conveying of loose bulk materials, such as grains, pulses and pellets

Cimbria type GH belt conveyor is designed for continuously conveying loose bulk materials such as grains, pulses and pellets.
The conveyor has a heavy duty construction. It can be configured for outdoor use, for use at port facilities. The construction gives a very high capacity.
The conveyor is hot dip galvanized with flange assemblies.
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
- Return idlers with or without rings
- Troughed belt
- Tripper

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)
- Misalignment detectors (optional)
- Bearing heat sensing (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	GH–650	504 m³/h (3.0 m/s)
	GH–800	789 m³/h (3.0 m/s)
	GH–1 000	1 498 m³/h (3.5 m/s)
	GH–1 200	2 197 m³/h (3.5 m/s)
	GH–1 400	3 048 m³/h (3.5 m/s)
	GH–1 600	4 034 m³/h (3.5 m/s)
Maximum bulk density	850 kg/m³	
Drive motor size	According to application	
Belt speed	Up to 3.00 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	Hot-dip galvanised
	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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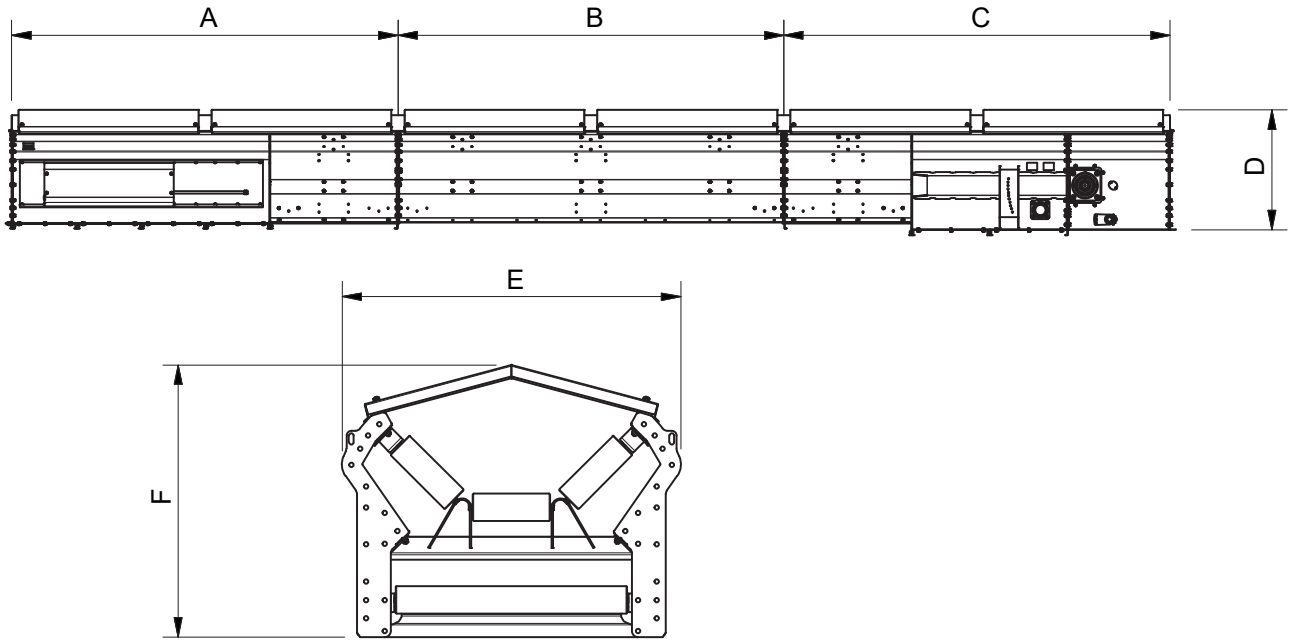
DIMENSIONS



	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Belt width [mm]		
GH–650	3 000	1 000 / 1 500 / 2 000 / 3 000	3 000	930	1 100	880	650		
GH–800	3 000	1 000 / 1 500 / 2 000 / 3 000	3 000	960	1 300	960	800		
GH–1 000	3 000	1 000 / 1 500 / 2 000 / 3 000	3 000	1 030	1 535	1 030	1 000		
GH–1 200	3 000	1 000 / 1 500 / 2 000 / 3 000	3 000	1 280	1 810	1 030	1 200		
GH–1 400	3 000	1 000 / 1 500 / 2 000 / 3 000	3 000	1 200	2 030	1 200	1 400		
GH–1 600		1 000 / 1 500 / 2 000 / 3 000			2 270	1 280	1 600		

	Belt type	Belt widht [mm]	Belt thickness [mm]	Belt [kg/m]	Strength [N/mm]	Weight with material [kg/m][1]	Inlet/outlet flange	Driving section [kg][2]	Intermediate section [kg/m]	Tension section [kg]
GH–650	EP250/2	650	7	5	250	36	Q30	750	114	450
GH–800	EP250/2	800	7	9	250	56	Q40	-	128	550
GH–1 000	EP250/2	1 000	7	11	250	90	Q55	1 100	142	650
GH–1 200	EP400/3	1 200	8	17	400	130	Q55	1 800	164	850
GH–1 400	EP400/3	1 400	8	20	400	184	Q70	2 000	199	1 000
GH–1 600	EP500/4	1 600	-	23	500	243	Q70	2 300	233	1 200

[1] With material bulk density 760 kg/m³
[2] Weight of driving section without motor

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