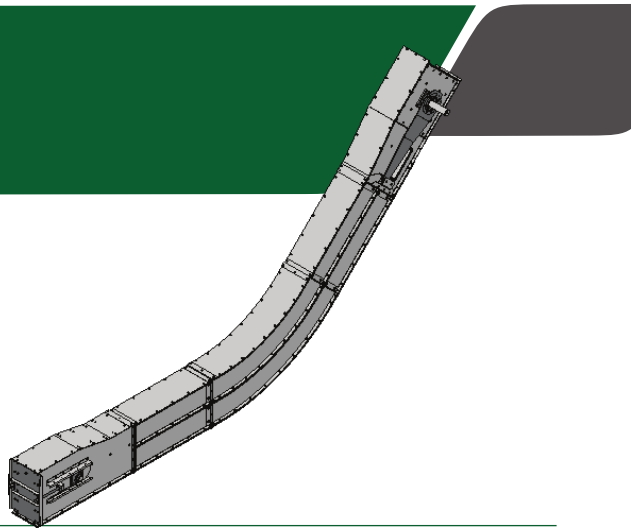
CONVEYING

CHAIN CONVEYOR TYPE RA



GENERAL

Brand	Cimbria
Model	RA Chain Conveyor
Capacity range	103–303 m³/h
Chain speed	up to 0.55 m/s
Application	Moving dry bulk materials, such as grains, pulses and pellets

Cimbria type RA chain conveyor is designed for moving dry bulk materials, such as grains, pulses and pellets.
The conveyor is intended for inclined travel in one process, which makes for a cost-effective and efficient solution, in that one machine can accomplish what generally requires two.

FEATURES

- Double bottom casing
- Dual-side loading
- Single strand conveyor chain, pins-and-bush assembly; data sheet: *Conveyor Chain*
- Welded flights with bolted scraper flaps
- Manual chain tensioning at tail end
- Wear plates on bottom

DRIVE SYSTEM

- Helical bevel gearmotor, hollow shaft
- Gearmotor mounted on right or left hand side as specified
- Electrical soft starter >15 kW (highly recommended)

CONTROLLERS

- Overflow sensing
- Rotation sensing (optional)
- Bearing heat sensing (optional)

ACCESSORIES

- Outlet for Q-pipe system
- Top covers for inlet sections
- Inspection windows
- Wear plates along lower sides
- Sun cover for gearmotor
- Support system; data sheet: *Chain Conveyor Support System*

Technical data

Maximum capacity	RA–5	103 m³/h
	RA–8	133 m³/h
	RA–10	242 m³/h
	RA–12	303 m³/h
Maximum bulk density	850 kg/m³	
Drive motor size	According to application	
Chain speed	Up to 0.55 m/s	
Sound pressure level	75 to 85 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	Hot-dip galvanised steel Stainless steel
Wear plates, bottom		PE-UHMW, antistatic, 10 mm
Wear plates, sides		Hardox® steel, 4 mm
Chain		Steel, oil coated
Scraper flaps		PE-UHMW, antistatic

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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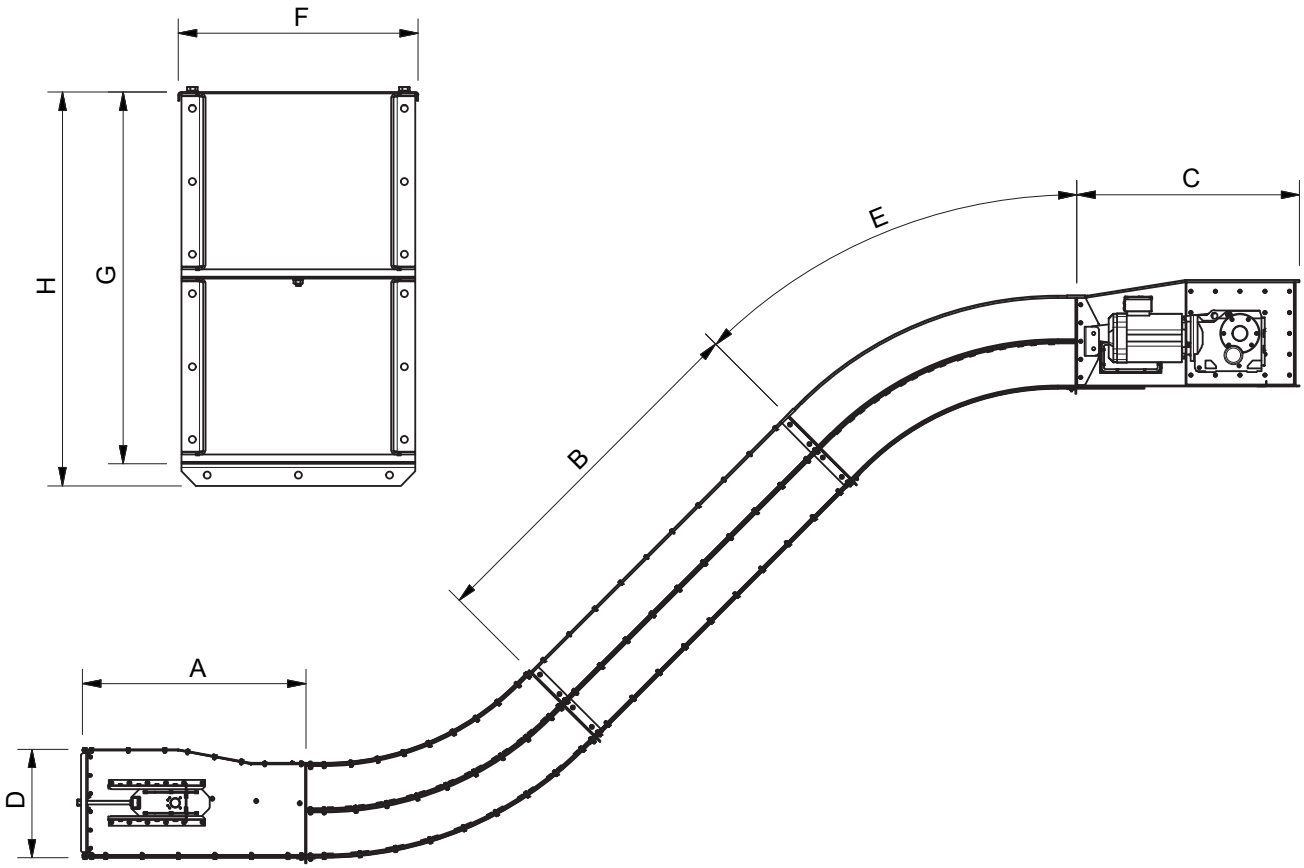
DIMENSIONS



	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]
RA–5	1 225	490 / 990 / 1 490 / 1 990	1 220	600	15° / 30° / 45°	330	510	540
RA–8	1 225	490 / 990 / 1 490 / 1 990	1 220	600	15° / 30° / 45°	400	510	540
RA–10	1 530	490 / 990 / 1 490 / 1 990	1 530	840	15° / 30° / 45°	495	736	770
RA–12	1 530	490 / 990 / 1 490 / 1 990	1 530	840	15° / 30° / 45°	595	736	770

	Grain layer thickness [mm]	Grain layer width [mm]	Thickness, top plate [mm]	Thickness, side plate [mm]	Thickness, bottom plate [mm]	Material [kg/m][1]	Driving section [kg][2]	Intermediate section [kg/m]	Tension section [kg]
RA–5	203	255	2	3	3	39	170	73	140
RA–8	203	330	2	3	3	51		92	
RA–10	306	400	2.5	4	4	93		158	
RA–12	306	500	2.5	4	4	116		175	

[1] With material bulk density 200 kg/m³
[2] Weight of driving section without motor

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