CONVEYING

BUCKET ELEVATOR
TYPE ED + EE14

GENERAL

Brand	Cimbria
Designation	Bucket Elevator
Model	ED + EE14
Use	Industry
Application	Vertical transport of loose bulk materials, such as grain like products.

Cimbria type ED bucket elevator is designed for vertical transport of loose bulk materials, such as grain like products.
The ED elevator is intended for installation in an industrial environment.
The ED elevator has a totally enclosed construction divided into modular sections consisting of a head section, leg section and a boot section.

FEATURES

- Backstop, built in freewheel or separate
- Slatted boot pulley
- Slatted head pulley or solid head pulley with rubber lagging

DRIVE SYSTEM

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

CONTROLLERS

- Rotation sensing
- Bearing heat sensing (optional)
- Misalignment detectors (optional)

ACCESSORIES

- Connection for flour intake
- Connection for negative pressure
- Cleaning system for boot
- Equipotential bonding of shafts (ATEX configuration)
- Explosion relief (ATEX configuration)
- Inlet module
- Outlet module
- Support system; data sheet 102.01.101

Technical data

Machine	ED–10	ED–12	EE–14
Maximum capacity	150 m³/h	218 m³/h	374 m³/h
Minimum belt speed	2.10 m/s	2.40 m/s	2.40 m/s
Maximum belt speed	3.00 m/s	3.10 m/s	3.65 m/s
Maximum bulk density	850 kg/m³		
Drive motor size	According to application		
Sound pressure level	75 to 87 dB(A)		
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
		Hot-dip galvanized
		Painted
Casing wear parts (top)	Standard	Plastic (PEHD)
	Optical	Steel (Hardox®)
Belt material	Standard	Standard belt, antistatic, (SBR/NBR)
	Optional	Oil-resistant belt ´GS´, antistatic (NBR)
		FDA compliant belt, white, oil-resistant ´GS´, antistatic (NBR)
Belt fasteners	Standard	Steel
	Optional	Stainless steel
Buckets	Standard	Steel
	Optional	Stainless steel
		Plastic (PEHD)
Spacers for buckets	Optional	Spacers (PEHD)
Outlet wear parts	Standard	Steel (Hardox®)
		Plastic (PEHD)

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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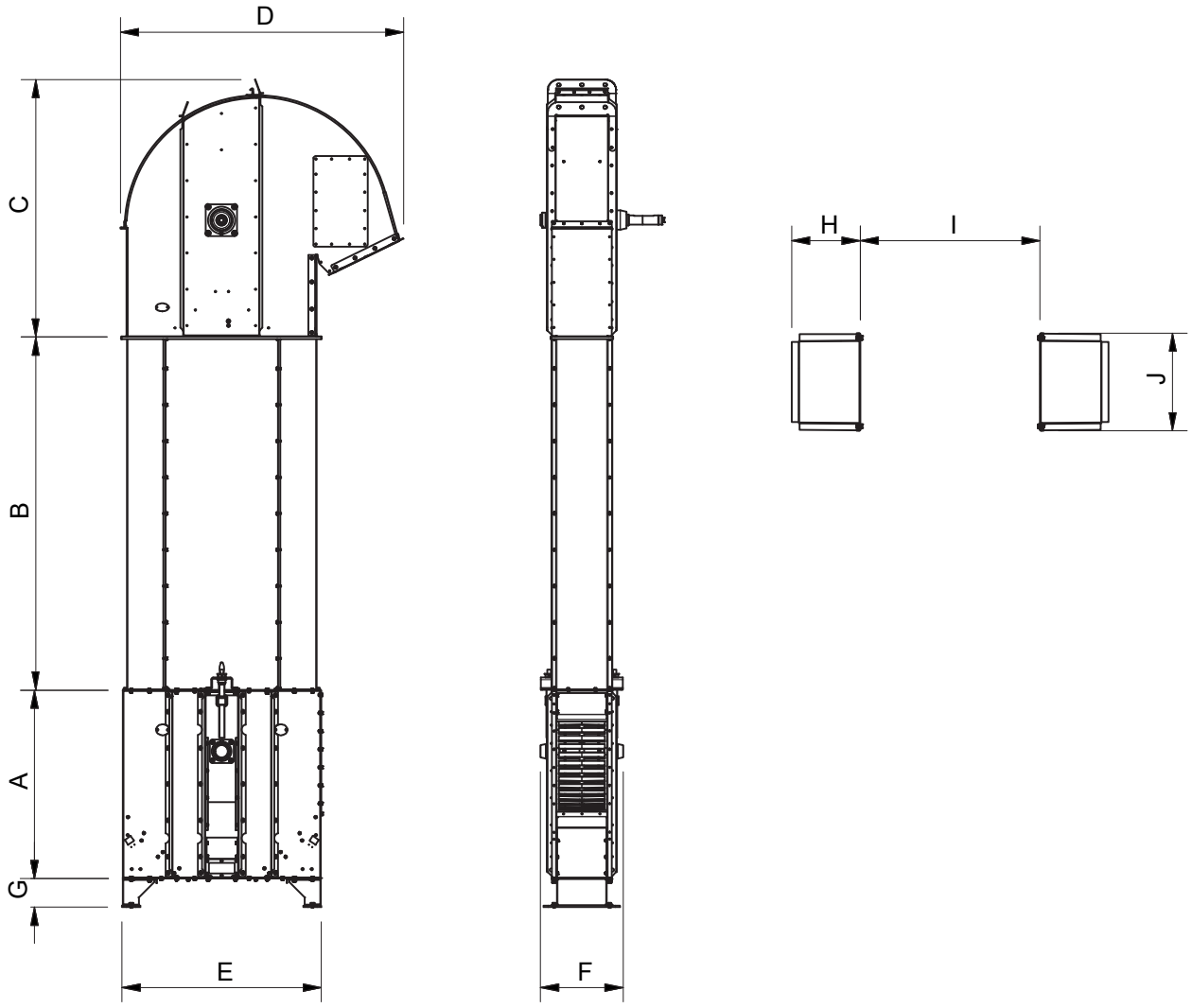

	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]
ED–10	1 040	1 950	1 420	1 564	1 100	455	158	236	620	337
ED–12	1 254	1 950	1 640	1 860	1 300	550	160	270	755	400
EE–14	1 465	1 940	1 830	2 125	1 490	630	162	306	880	458

	Boot section [kg]	Head section [kg][1]	Leg section [kg/m elevator]	Belt [kg/m]	Weight of material [kg/m][2]	Belt types				Belt width [mm]
ED–10	203	157	41	4.4–5.0	10.6	630/3 1+3	800/4 1+3			250
ED–12	385	320	48	5.5–8.2	15.1	630/3 1+3	800/4 1+3	1 000/4 1+3		315
EE–14	510	523	76	6.4–10.4	21.4	630/3 1+3	800/4 1+3	1 000/4 1+3	1 250/4 1+3	370

[1] Weight of head section is without gearmotor
[2] With material bulk density 760 kg/m³

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