

BUCKET ELEVATOR TYPE EF

GENERAL

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



Cimbria type EF bucket elevator is designed for vertical transport of loose bulk materials, such as grain like products.

The EF elevator is intended for installation in an industrial environment.

The EF elevator has a totally enclosed construction divided into modular sections consisting of a head section, leg section and a boot section.

FEATURES

- Head pulley
- Boot pulley with slide plates
- Backstop, built in freewheel or separate
- Slatted or solid 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 (EF-8, 10)
- Connection for negative pressure
- Cleaning system for boot
- Equipotential bonding of shafts (ATEX configuration)
- Explosion relief (ATEX configuration)
- Inlet module
- Inlet hopper
- Outlet module
- Scraper for solid boot pulley (EF-8)
- Support system; data sheet: *Bucket Elevator Support System*

Technical data

Machine	EF-8	EF-10	EF-12	EF-14
Maximum capacity	85 m ³ /h	150 m ³ /h	218 m ³ /h	374 m ³ /h
Minimum belt speed	2.10 m/s	2.10 m/s	2.40 m/s	2.40 m/s
Maximum belt speed	2.80 m/s	3.00 m/s	3.10 m/s	3.65 m/s
Maximum bulk density	850 kg/m ³			
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

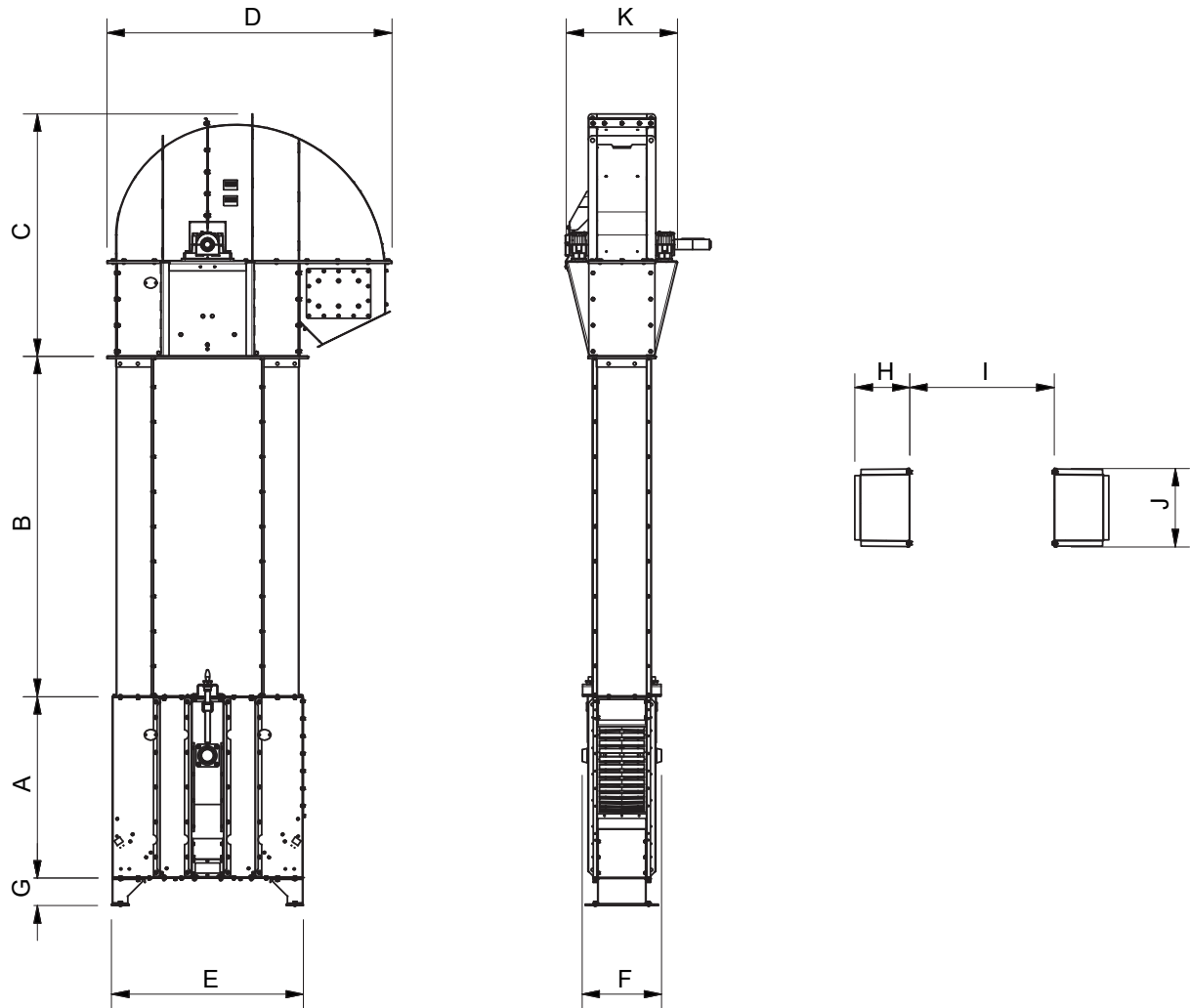
Casing	Standard (top)	Hot-dip galvanized
	Standard	Pre-galvanized steel
	Optional	Stainless steel Hot-dip galvanized Painted
Casing wear parts (top)	Standard	Steel (Hardox®)
Belt material	Standard	Standard belt, antistatic, (SBR/NBR)
	Optional	Oil-resistant belt 'GS', antistatic (NBR) FDA compliant belt, 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	Plastic (PEHD)
Outlet wear parts	Standard	Steel (Hardox®)

Compliance

ATEX	Standard	Non-zone inside Non-zone outside
	Optional	Zone 22 or 21 inside Zone 22 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]	K [mm]
EF-8	825	1950	1100	1330	895	380	108	210	472	286	520
EF-10	1040	1950	1390	1630	1100	455	158	236	620	337	640
EF-12	1254	1950	1600	1890	1300	550	160	270	755	400	770
EF-14	1465	1950	1810	2150	1490	630	162	306	880	458	820

	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]	
EF-8	103	210	33	3.0–3.5	6.1	500/3 1+3	630/3 1+3					200
EF-10	203	385	41	4.4–5.0	10.6		630/3 1+3	800/4 1+3				250
EF-12	385	515	48	5.5–8.2	15.1		630/3 1+3	800/4 1+3	1000/4 1+3			315
EF-14	510	845	76	6.4–10.4	21.4		630/3 1+3	800/4 1+3	1000/4 1+3	1250/4 1+3		370

[1] Weight of head section is without gearmotor

[2] With material bulk density 760 kg/m³