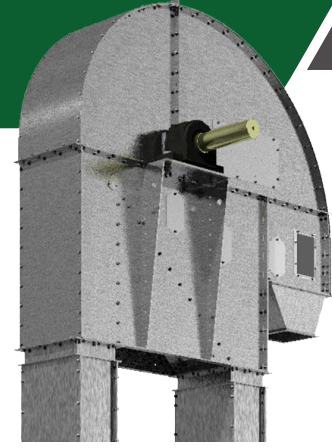


# BUCKET ELEVATOR TYPE EE

## GENERAL

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



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

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

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

## FEATURES

- Boot pulley with slide plates
- 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 (EE-18, 20)
- Helical bevel gearmotor, hollow shaft (EE-24)
- Gearmotor mounted on right or left hand side as specified
- Electrical soft starter  $\geq 15$  kW (highly recommended)

## CONTROLLERS

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

## ACCESSORIES

- Connection for negative pressure
- Equipotential bonding of shafts (ATEX configuration)
- Explosion relief (ATEX configuration)
- Inlet module
- Outlet module
- Scraper for solid boot pulley
- Slatted head pulley with rubber lagging
- Support system; data sheet: *Bucket Elevator Support System*

## Technical data

Machine	EE-18	EE-20	EE-24
Maximum capacity	570 m <sup>3</sup> /h	640 m <sup>3</sup> /h	706 m <sup>3</sup> /h
Minimum belt speed	3.00 m/s	3.00 m/s	3.00 m/s
Maximum belt speed	3.80 m/s	3.80 m/s	3.80 m/s
Maximum bulk density	850 kg/m <sup>3</sup>		
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

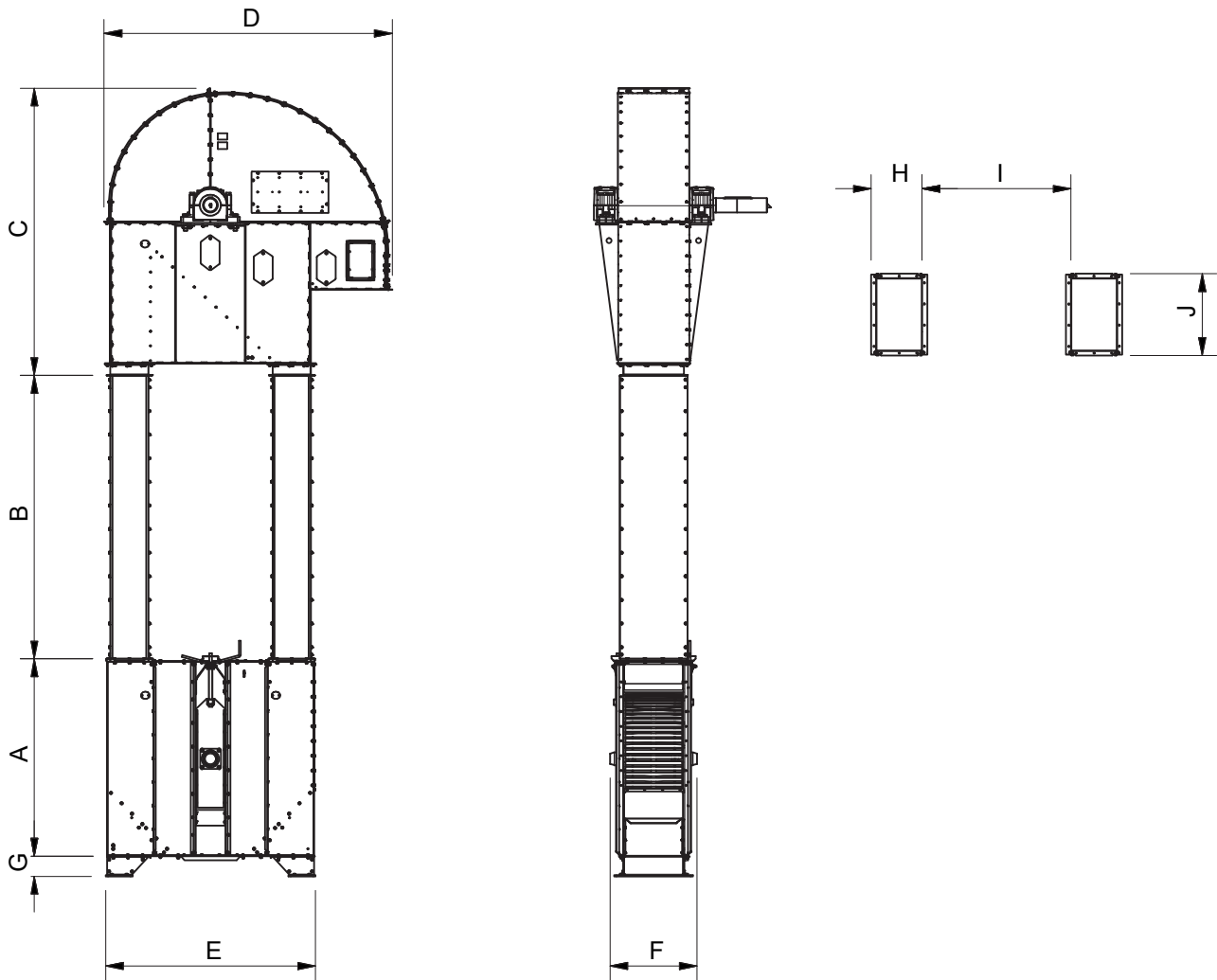
Casing	Standard (top)	Hot-dip galvanized Painted
	Standard (bottom, legs)	Pre-galvanised steel
	Optional (bottom, legs)	Stainless steel Hot-dip galvanized Painted
Casing wear parts (top)	Standard	Plastic (PEHD)
	Optical	Steel (Hardox®)
Belt material	Standard	Standard belt, antistatic, (SBR/NBR)
	Optional	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	Plastic (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.

# BUCKET ELEVATOR TYPE EE



	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]
EE-18	1 670	2 400	2 430	2 440	1 778	736	172	355	1 050	576
EE-20	1 670	2 400	2 430	2 440	1 770	786	172	355	1 050	626
EE-24	1 670	2 400	2 430	2 440	1 770	936	172	355	1 050	776

	Boot section [kg]	Head section [kg] <sup>1</sup>	Leg section [kg/m elevator]	Belt [kg/m]	Weight of material [kg/m] <sup>2</sup>	Belt types				Belt width [mm]
EE-18	660	1 500	88	6.75-12.6	31	630/3 1+3	800/4 1+3	1 000/4 1+3	1 250/4 1+3	450
EE-20	1 400	1 700	125	7.5-14.0	36	630/3 1+3	800/4 1+3	1 000/4 1+3	1 250/4 1+3	500
EE-24	1 550	2 200	140	9.45-17.64	43	630/3 1+3	800/4 1+3	1 000/4 1+3	1 250/4 1+3	630

[1] Weight of head section is without gearmotor

[2] With material bulk density 760 kg/m<sup>3</sup>