

# BUCKET ELEVATOR EE

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 102.01.101

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			

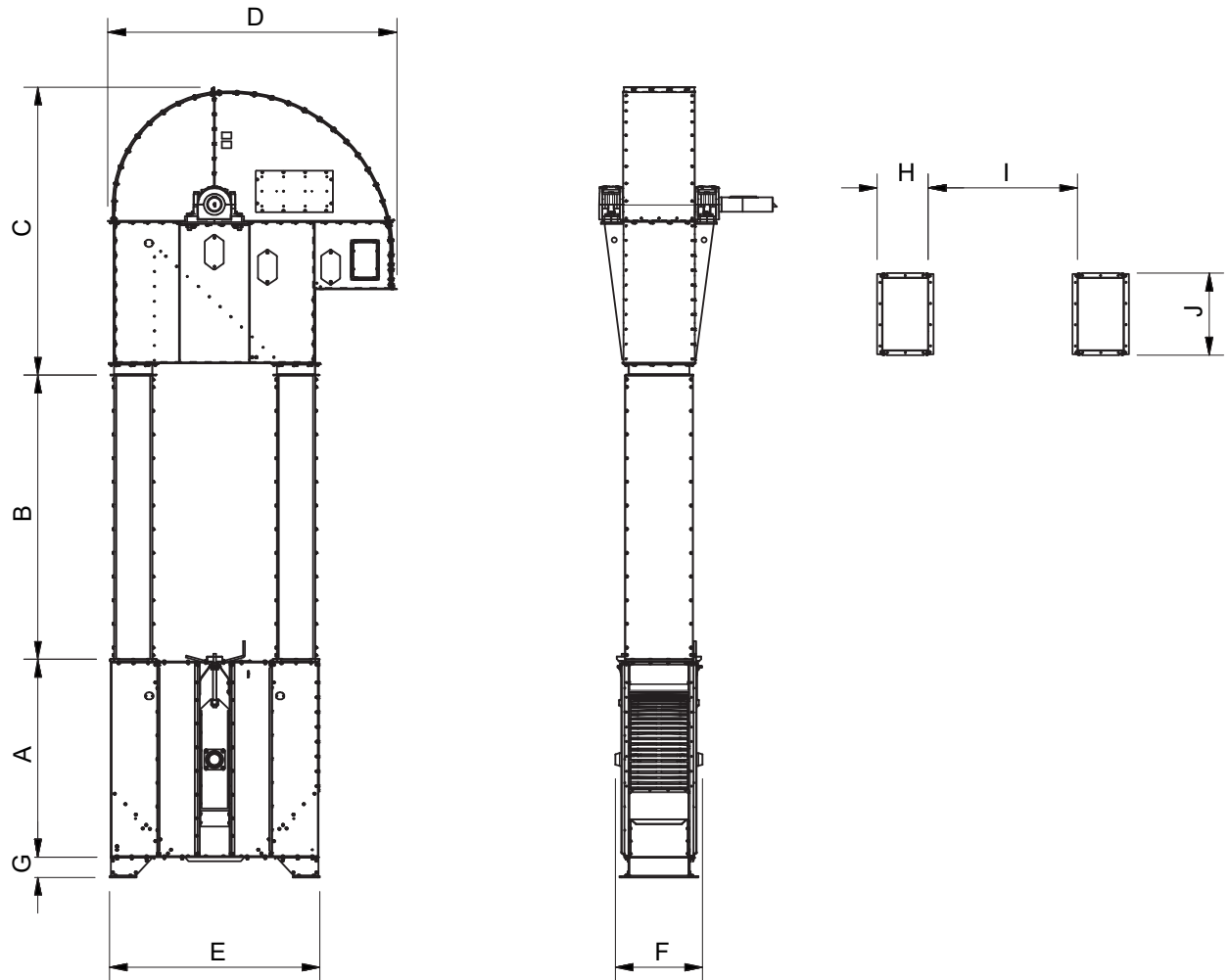
NOTE: All capacities in the above table are based on the handling of dry and cleaned wheat.

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)	
	Optional	Steel (Hardox®)	
Belt material	Standard	Standard belt, anti-static, (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	Optional	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]
<b>EE-18</b>	1670	2400	2430	2440	1778	736	172	355	1050	576
<b>EE-20</b>	1670	2400	2430	2440	1770	786	172	355	1050	626
<b>EE-24</b>	1670	2400	2430	2440	1770	936	172	355	1050	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]
<b>EE-18</b>	660	1500	88	6.75-12.6	31	EP630/5 1+1	EP800/5 1+1	EP1000/5 2+2	EP1250/5 2+2	450
<b>EE-20</b>	1400	1700	125	7.5-14.0	36	EP630/5 1+1	EP800/5 1+1	EP1000/5 2+2	EP1250/5 2+2	500
<b>EE-24</b>	1550	2200	140	9.45-17.64	43	EP630/5 1+1	EP800/5 1+1	EP1000/5 2+2	EP1250/5 2+2	630

[1] Weight of head section is without gearmotor

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