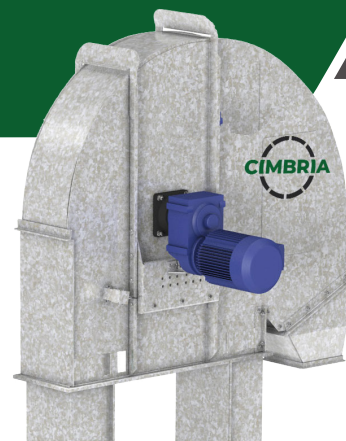


# BUCKET ELEVATOR TYPE EC

## GENERAL

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



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

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

The EC 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
- 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

## 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
- Scraper for solid boot pulley
- Support system; data sheet 102.01.101

## Technical data

Machine	EC-5	EC-6	EC-8
Maximum capacity	25 m <sup>3</sup> /h	38 m <sup>3</sup> /h	85 m <sup>3</sup> /h
Minimum belt speed	1.20 m/s	1.30 m/s	2.10 m/s
Maximum belt speed	1.90 m/s	2.00 m/s	2.80 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

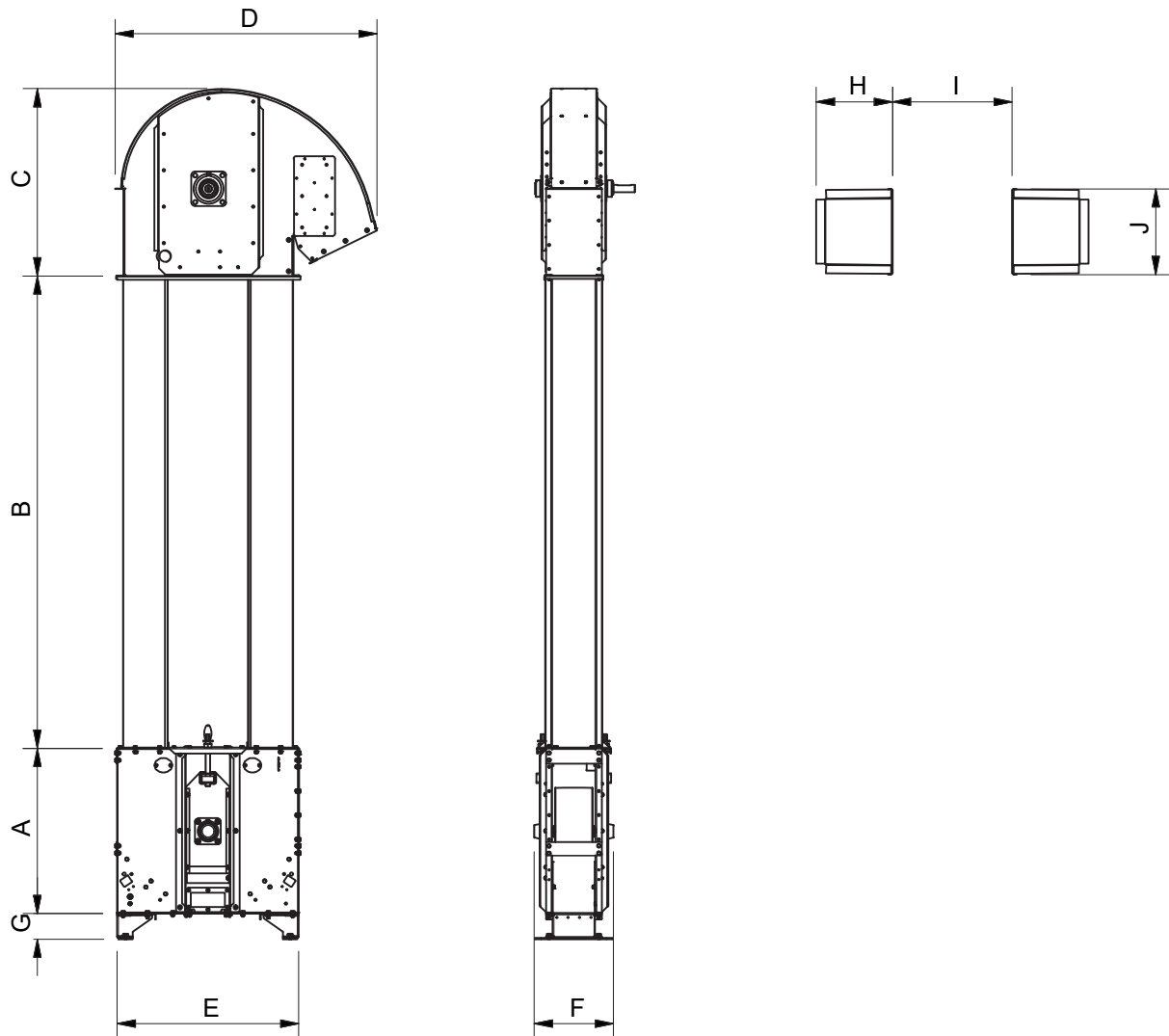
Casing	Standard	Pre-galvanised steel
	Optional	Stainless steel
		Hot-dip galvanized Painted
Wear parts quality (top)	Standard	Plastic (PEHD)
	Optional	Steel (Hardox®)
Belt material	Standard	Standard belt, antistatic, (SBR/NBR)
	Optional	Oil-resistant belt 'GS', antistatic (NBR)
		FDA compliant belt,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

## 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 EC



	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	J [mm]
<b>EC-5</b>	560	1 950	650	880	600	300	100	170	250	210
<b>EC-6</b>	685	1 950	775	1 090	750	330	106	210	330	236
<b>EC-8</b>	825	1 950	1 060	1 300	895	380	108	210	472	286

	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>EC-5</b>	41	37	20	1.9	2.6	500/3 1+3	630/3 1+3	125		
<b>EC-6</b>	78	83	24	2.3-2.6	4.4	500/3 1+3	630/3 1+3	150		
<b>EC-8</b>	103	115	33	3.0-3.5	6.1	500/3 1+3	630/3 1+3	200		

[1] Weight of head section is without gearmotor

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