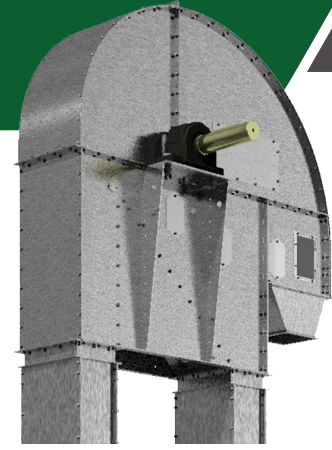


BUCKET ELEVATOR TYPE EE

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 ≥ 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 ³ /h | 640 m ³ /h | 706 m ³ /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 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

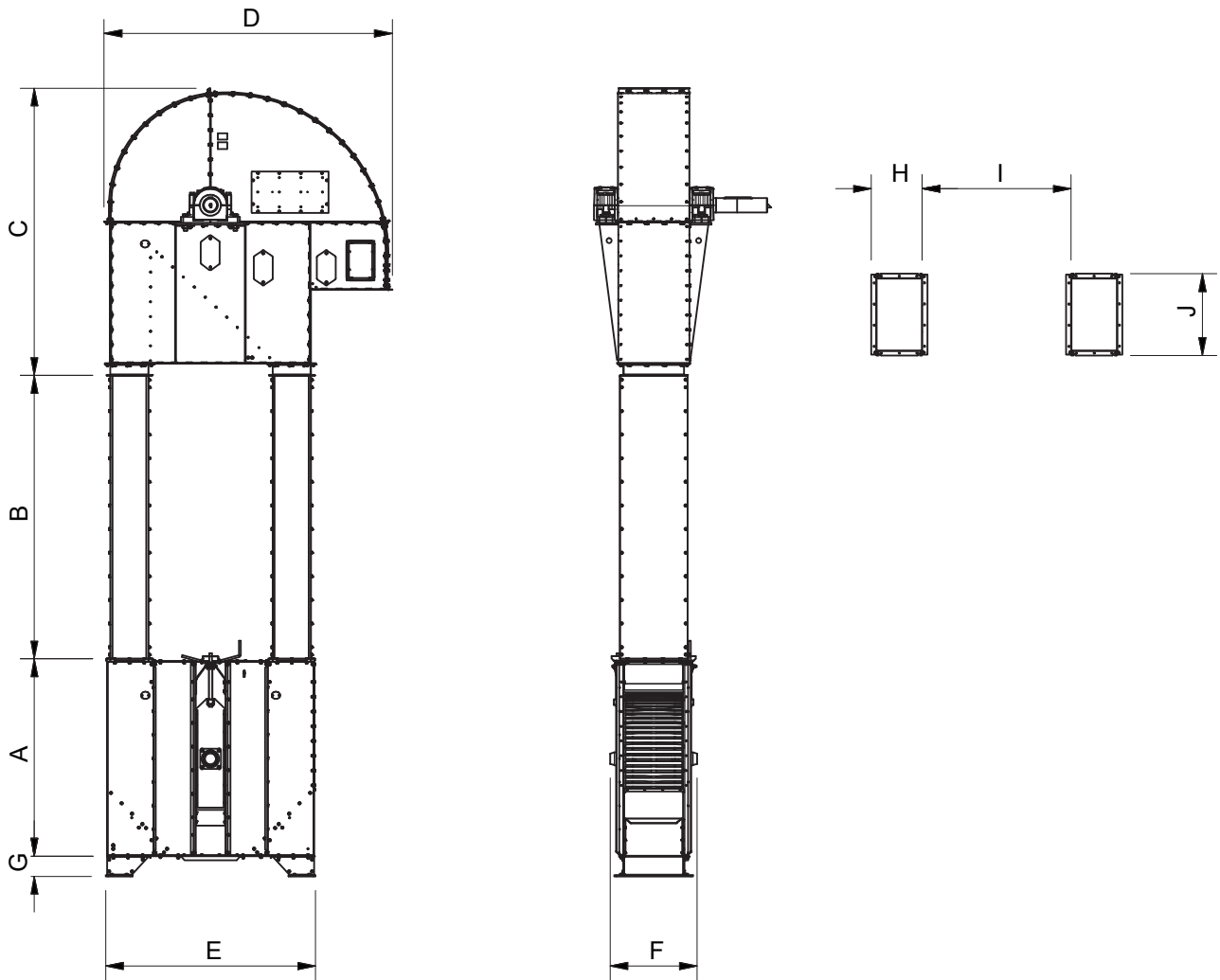
| | | |
|-------------------------|-------------------------|--|
| Casing | Standard (top) | Hot-dip galvanized Painted |
| | Standard (bottom, legs) | Pre-galvanised steel |
| | Optional (bottom, legs) | Stainless steel Hot-dip galvanized Painted |
| Casing wear parts (top) | Standard | Plastic (PEHD) |
| | Optional | Steel (Hardox®) |
| Belt material | Standard | Standard belt, 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] ¹ | Leg section [kg/m elevator] | Belt [kg/m] | Weight of material [kg/m] ² | 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/m³