

Data Sheet 39.1

Bucket Elevator: EE18, EE20 & EE24 Drive arrangement and Belt



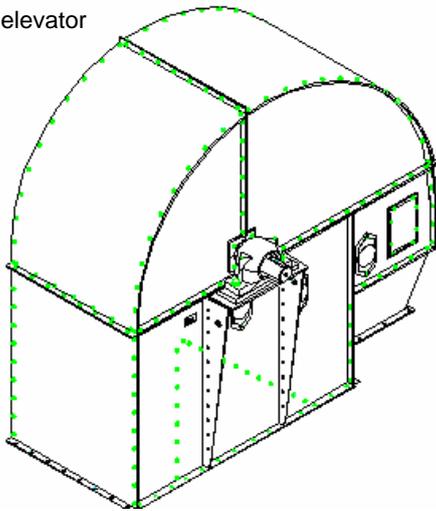
The elevator top is of bolted construction and is complete with a heavy duty main drive shaft mounted on industrial roller bearing in pedestal bearing boxes.

The elevator is supplied with a hollow shaft gearbox with built in backstop. The hollow shaft gearbox is held by a strong bracket with rubber shock absorbers to absorb operational movements. Alternatively the elevator can be

supplied with a directly mounted gearbox on a side mounted console with a vibration absorbing coupling to the drive shaft.

A plate through the curve of the top guides the grain to the outlet. Outlet spout with horizontal connection to Q-flange. Top pulley has lamellas and is rounded to ensure max. friction and a straight running belt.

Top of the elevator



Elevator	rpm*	belt speed m/sec.	EU bucket* m³/h
EE18	66	3.8	560
EE20	66	3.8	635
EE24	66	3.8	740

*Capacity is calculated with max. number of buckets (filling 3° above horizontal). In practice the belt speed will vary from nominal.

$$\text{Rough calculation of effect: } \frac{\text{Cap. MT/h} \times (\text{Height in meters} + 10))}{300} = \text{kW}$$

Elevator Belt:

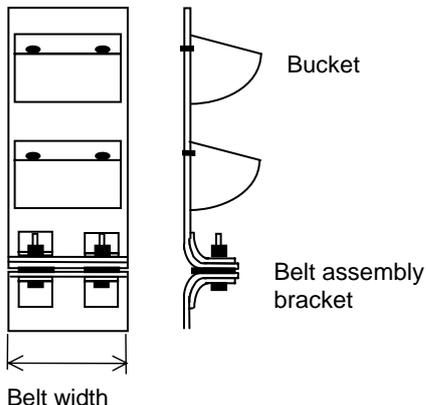
Cimbria standard elevator belts are designed for grain and grinding materials with temperatures from -30°C to +80°C and are delivered in the below mentioned strengths.

Cimbria belts are also available with a special rubber cover sheet which is resistant to mineral- vegetable- and animal oils and fats. Oil resistant belts can be used for transport of materials with temperatures from -10°C to +100°C.

The belts are anti static according to ISO284 and DIN 22104.

The belts can be used with surrounding temperatures between -30°C and +50°C.

Elevator belts are delivered with pre drilled holes for the specified buckets.



Strength	EP 630/5	EP 800/5	EP 1000/6
Breaking tension	630 N/mm	800 N/mm	1000 N/mm
Maximal load tension (12:1 Security factor)	50 N/mm	63 N/mm	80 N/mm

Type	Belt width	Number of belt assembly bracket
EE18	450	7
EE20	500	8
EE24	630	9

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