



Science of Seed Processing

General

Brand	Saat Technologie
Designation	Bucket Elevator
Model	BE Series
Application	Vertical transport of loose bulk materials, such as grain like products.

Saat Technologie type BE bucket elevator is designed for vertical transport of loose bulk materials, such as grain like products.

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

The BE 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

Technical data

Machine	BE-5	BE-6	BE-8
Maximum capacity	25 m ³ /h	38 m ³ /h	85 m ³ /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 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.

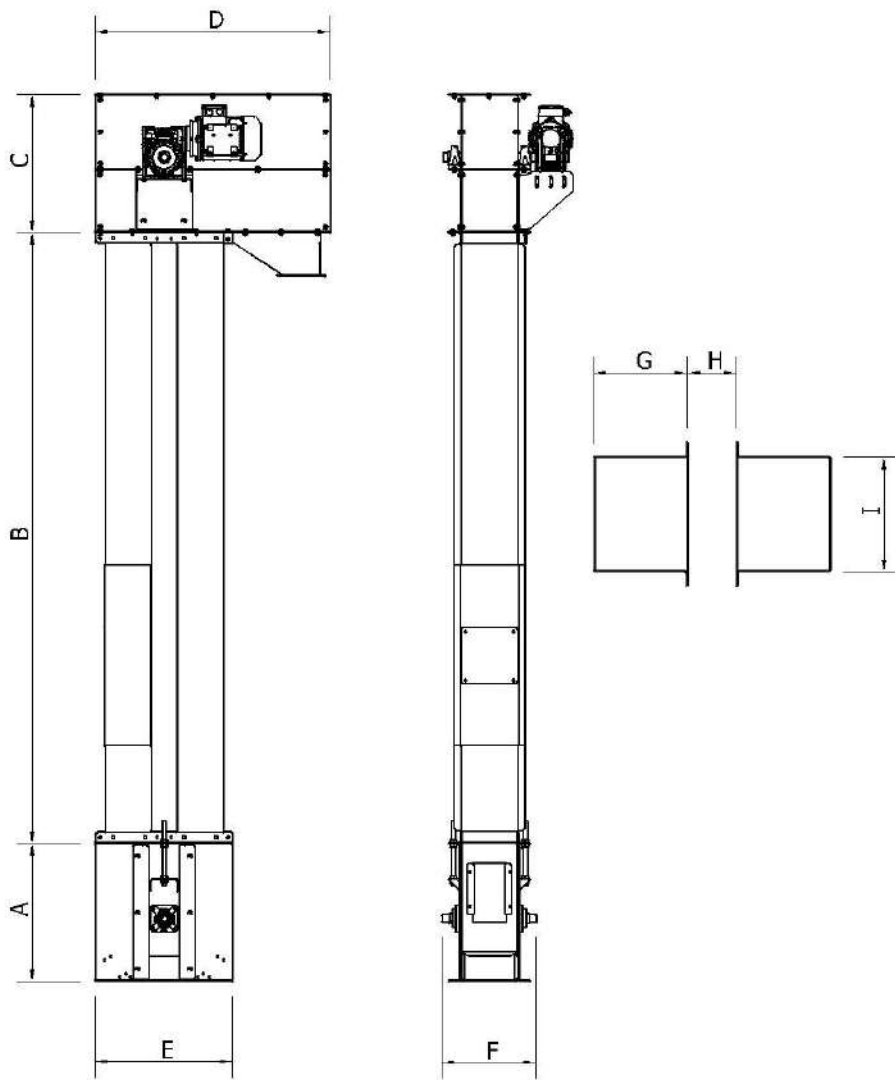
Materials

Casing	Standard	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



	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]
BE-125	530	2 440	530	910	530	350	350	165	430
BE-150	560	2 440	550	940	550	380	375	195	460
BE-200	610	2440	600	1000	600	430	425	245	510

	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]
BE-125	45	40	25	2.0	2.7	500/3 1+3	630/3 1+3	125
BE-150	85	85	29	2.4–2.7	4.5	500/3 1+3	630/3 1+3	150
BE-200	110	120	35	3.1–3.6	6.2	500/3 1+3	630/3 1+3	200

[1] Weight of head section is without gearmotor

[2] With material bulk density 760 kg/m³

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