

CESCO bucket elevators are designed with a flexible concept and modular design for the gentle vertical bulk conveying of cereal, meals, pellets, and granular products in general. They realize the completely closed conveying of the product, with zero loss during the conveying, easy cleaning, maintenance and safety during operation, thanks to the complete bolted system used.

They are designed with particular attention to the rounded shape of the head and tail sections in order to limit the wear of the casing, extend the life of the machine, and limit the deposit of product at the end of the conveying operation.

CESCO has worked out a special type of low-speed bucket elevators of any standard size to be used for all applications that require a very "gentle" treatment of the product, to limit the breakage and to preserve the integrity of individual grains of the product.

GENERAL CHARACTERISTICS

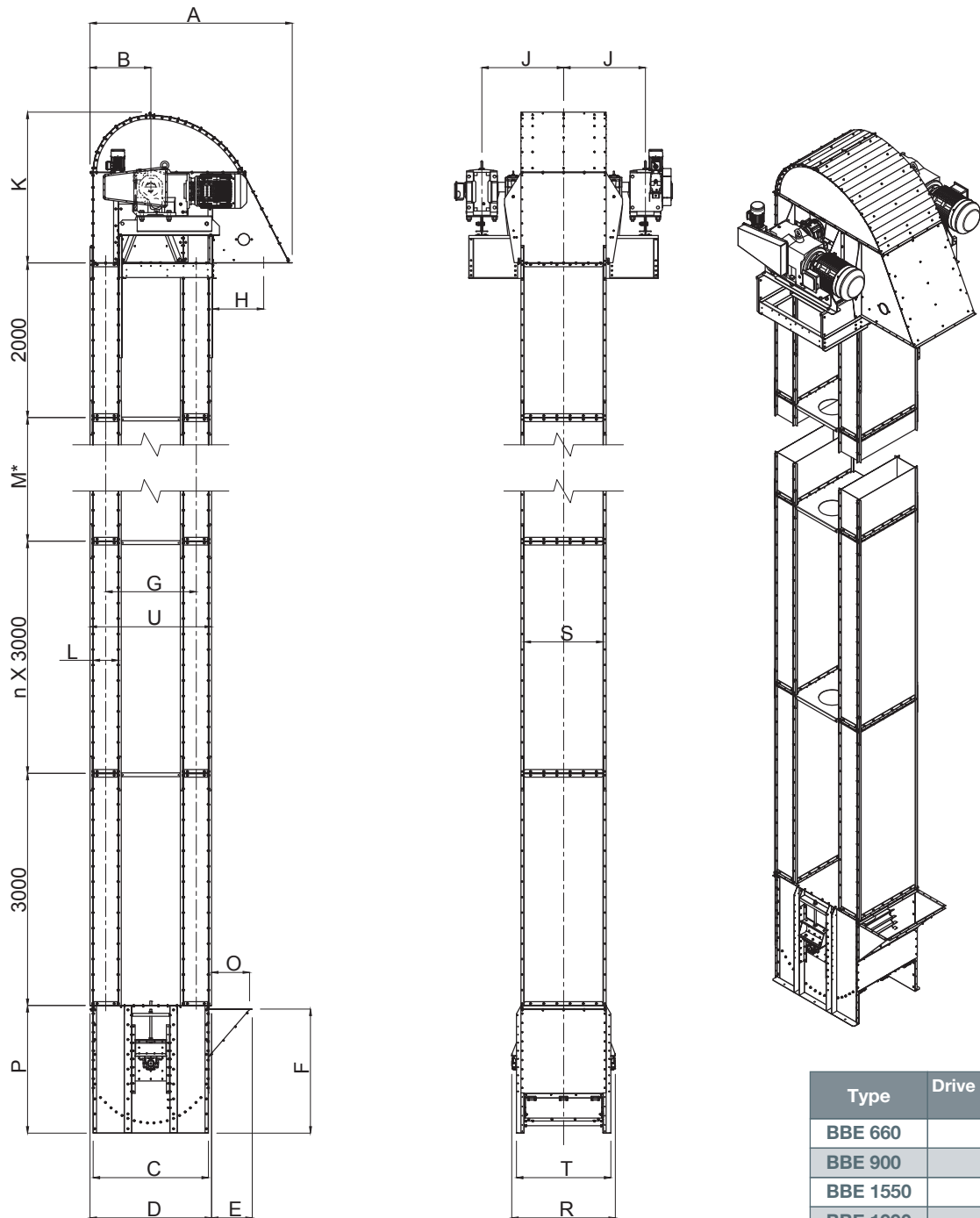
- Head sections completely self-cleaning.
- Tail station with a screw belt tensioning system, optionally equipped with a spring-loaded tensioning system to ensure consistent belt tension at all times.
- Hinged bilateral doors provide full access for cleaning of the tail station.
- The supports for both the drive and tension shafts are completely external, allowing easy bearing maintenance.
- The drums of both the head and tail sections can be extracted without disassembling the casing.
- The leg casing is designed for self-supporting elevator assembly and equipped with bolted doors for easy bucket installation and maintenance.

Technical data

Type		BBE 660	BBE 900	BBE 1550	BBE 1990
Capacity (Bulk density 750 kg/m ³)	Nominal	400 t/h	600 t/h	1000 t/h	1400 t/h
	Maximal	500 t/h	700 t/h	1100 t/h	1500 t/h
Maximum height	Standard	30 m			
	Optional	60 m			
Drive unit	Standard	Single or dual gearmotor, operating in parallel, splined to the shaft. Complete with backstop device. Soft starter operated.			
	Optional	Frequency inverter operated.			
Belt speed	Minimum	2,5 m/s	2,7 m/s	2,9 m/s	3,2 m/s
	Maximum	3,5 m/s	3,5 m/s	3,5 m/s	3,5 m/s
Belt type for heights up to 30m		EP/800/5	EP/1000/5	EP/1000/5	EP/1000/5
Belt type for heights up to 60m		EP/1500/5	EP/1500/5	EP/1500/5	EP/1500/5
Sound pressure level		Up to 75 dB(A)			
Operating conditions		-15°C to +60°C ambient			

Materials

Casing	Standard	Pre-galvanized steel S235 Z450
	Optional	Pre-galvanized steel S235 Z600 Stainless steel AISI430 Food grade painted steel S235
Head section wear resistant lining	Standard	UHMW-PE antistatic, 8 mm
Inlet chute wear resistant lining	Standard	Hardox® 450 steel
Belt	Standard	Oil-resistant acc. DIN22102 Self-extinguishing acc. DIN22103 Antistatic acc. DIN22104 Polyester polyamide fabrics Black color
	Optional	Food-grade White color PVC material
Buckets	Standard	HD-PE
	Optional	Mild steel Stainless steel Nylon Polyurethane
Sensors	Standard	Rotation control
	Optional	Misalignment sensor Overflow sensor Bearing temperature sensor
Explosion protection	Standard	Explosion relief panels (aluminium foil) installed every 6 meters along both legs.
	Optional	Sensor-equipped explosion door on head section.
ATEX	Standard	Zone 21 inside / ATEX free outside
	Optional	Zone 21 inside / Zone 22 outside
Optional accessories		Outlet chute with Hardox steel protection Dust aspiration pipe connection Connection flange for spot filter Side inspection window Inspection platform with ladder Local service switch



Type	Drive pulley diameter mm
BBE 660	750
BBE 900	910
BBE 1550	1000
BBE 1990	1100

Type	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	O mm	P mm	R mm	S mm	T mm	U mm
BBE 660	2460	710	1337	1417	525	1600	1017	665	925	1780	325	490	1650	1070	750	950	1417
BBE 900	2615	786	1492	1572	525	1600	1172	665	1060	1950	325	490	1650	1340	1020	1220	1572
BBE 1550	2760	1050	1610	1690	706	1745	1277	750	1365	2060	335	655	1800	1950	1660	1830	1692
BBE 1990	2900	1100	1750	1830	706	1745	1380	750	1570	2180	350	655	1800	2350	2060	2230	1810

M* = The case assembly can be long 500mm, 1000mm, 2000mm, 3000mm

