

CESCO Roller Belt Conveyors are designed with a flexible and modular concept, allowing for gentle horizontal or slightly inclined conveying of cereals, meals, pellets, and various granular products. These conveyors ensure completely sealed product conveyance, with zero loss during transport, easy cleaning, maintenance, and operational safety thanks to the comprehensive bolted system utilized.

The fully enclosed RBCE version is designed specifically for situations demanding a dust-free environment. This conveyor system fully encases its components, effectively eliminating dust emissions and safeguarding grains from external contaminants. Ideal for grain collection facilities, grain terminals, ship loading/unloading, and various grain processing applications, the RBCE transport transoms are fitted with three independent cylindrical idlers for high reliability and easy maintenance, which can be exchanged from outside the conveyor. With a wide range of available belt sizes, it can transport up to 1500 tons per hour, making it the efficient and clean solution for your material handling needs.

GENERAL CHARACTERISTICS

- Fully covered and enclosed design.
- Zero dust emissions during operation.
- Protection from moisture and environmental influences.
- Head section equipped with belt scraper.
- Material return by special hopper and dedicated tubular spiral conveyor in the tail section.
- Tail section equipped with a screw tensioning device for belt lengths up to 60 m, with an additional 625 mm tensioning case for longer lengths.
- Belt running on 3-rolls transoms and permanently cleaned by internal and external belt scrapers.
- Watertight external top cover made of pre-galvanized steel sheet, suitable for outside installation, and fixed with bolts.

Technical data

Type		RBC 600E	RBC 800E	RBC 1000E	RBC 1200E	RBC 1400E
Capacity min-max (Bulk density 750 kg/m³)	Weight (t/h)	200-300	400-500	600-700	800-1100	1100-1500
	Volume (m³/h)	267-400	533-667	800-933	1067-1467	1467-2000
Belt speed min-max		2,5 - 3,5 m/s				
Drive unit		Single or dual gearmotor, operating in parallel, splined to the shaft. Complete with backstop device in case of inclination.				
Sound pressure level		Up to 70 dB(A)				
Operating conditions		-15°C to +60°C ambient				

Materials

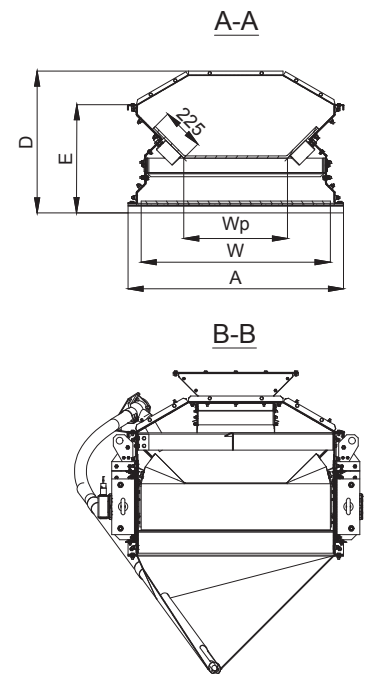
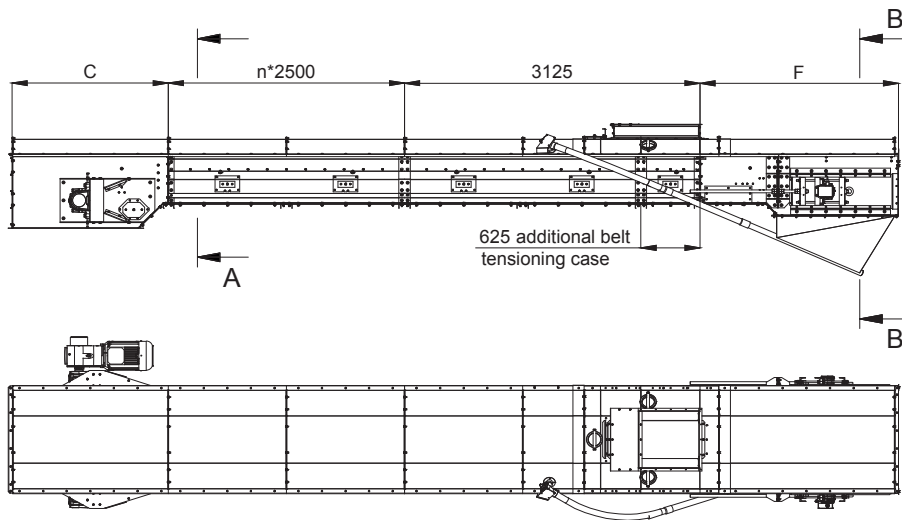
Casing	Standard	Pre-galvanized steel S235 Z450	
	Optional	Pre-galvanized steel S235 Z600 Stainless steel AISI430 Food grade painted steel S235	
Belt	Standard	Oil-resistant acc. DIN22102 Self-extinguishing acc. DIN22103 Antistatic acc. DIN22104 Polyester polyamide fabrics Black color	
	Optional	Food-grade White color PVC material	
Idlers	Conveying	Steel	1250 mm spacing
	Impact	Steel with rubber rings	350 mm spacing
	Return	Steel with rubber rings	2500 mm spacing
Sensors	Standard	Rotation control Misalignment sensor Emergency rope	
	Optional	Overflow sensor Bearing temperature sensor	
ATEX	Standard	Zone 21 inside / ATEX free outside	
	Optional	Zone 21 inside / Zone 22 outside	
Optional accessories		Outlet chute Inlet chute Supporting legs	



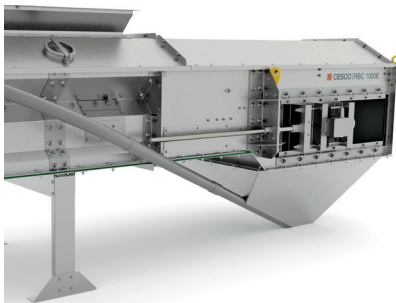
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FULLY ENCLOSED BELT CONVEYOR DATASHEET

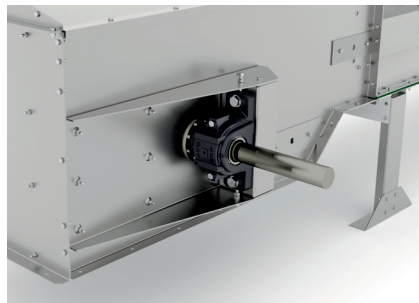
RBC 600E | RBC 800E | RBC 1000E |
RBC 1200E | RBC 1400E



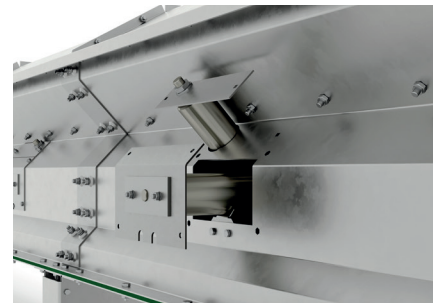
Belt conveyor dimensional drawing.



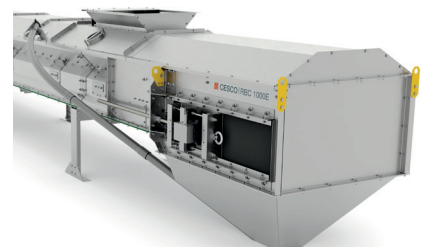
A manual spindle tensioning system can be combined with a 625 mm supplementary case to accommodate larger belt tensioning needs.



Split pillow block bearings for simplified assembly and maintenance.



All rolls can be easily inspected, maintained, and exchanged from the outside.



Material that falls from the upper conveyor section is transported back to the end of the conveyor by the returning belt. A specially designed hopper collects the material, which is then conveyed back to the upper part of the belt via a dedicated tubular spiral conveyor.

Type	Belt width W mm	A mm	Wp mm	C mm	D mm	E mm	F mm
RBC 600E	600	700	150	1450	520	490	1900
RBC 800E	800	900	350	1550	571	490	2000
RBC 1000E	1000	1100	550	1650	693	530	2100
RBC 1200E	1200	1300	750	1800	750	530	2250
RBC 1400E	1400	1540	950	1950	800	530	2400

The casing can be 500 mm, 1000 mm, 2000 mm or 3000 mm long.

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