

Roblon Concentric Cross Binder, CB-2

Roblon yarn binders offer unmatched performance, reliability, and versatility, making them the ideal choice for cable manufacturers.

The Roblon Cross Binder is a specialized piece of equipment designed for applying two or four yarns simultaneously (dual-end) at a single binding point, making it particularly well-suited for certain optical fiber cable manufacturing processes.

Similar to the Single Binder, the Cross Binder excels in balancing and centering of the yarn package, allowing for very high binding speeds with minimal vibrations. This balance is crucial for maintaining operational efficiency and product quality.

Additionally, the tension control system of the Roblon Cross Binder is highly accurate and consistent, regardless of factors such as bobbin diameter and rotating speed. This feature is essential for preventing damage to the loose tubes before and after extrusion processes, ensuring the integrity of the final cable product.

The design of the Cross Binder includes strategically placed eyelets and guiding points along the binding process to optimize yarn application onto the cable. These features serve to smooth the binding process and eliminate the buildup of yarn filaments or swellable powder within the binder. By minimizing these issues, the Cross Binder helps to improve overall production efficiency and reduce the risk of defects in the final cable product.



- Cross-binds in one point
- Speeds exceeding 4000 rpm
- Dual-end binding possible
- Proven track record
- Available with front and belt torsion blockers
- Optimally used with all Roblon Binder yarns



The torsion blockers secure that the SZ-stranded elements stay in position, while the cross-binding is performed in the single binding point.

Technical data	CB-2	CB-2 belt torsion blocker
Binding speed:	4000 rpm	
Single-yarn binding tension:	6-24 N	
Dual-yarn binding tension:	4-24 N	
Tension tolerance*:	± 1-3 N	
Centre bore:	Ø50 mm	
Bobbin dimensions (ID x OD x L):	Ø127 x Ø250 x 220 mm	
Bobbin weight:	Max. 6 kg	
Binding material:	Polyester, aramid, water-blocking yarns	
Dimensions (L x W x H):	2976 x 1100 x 1200 mm	3500 x 1100 x 1200 mm
Centre height:	1000 mm	
Motor:	2 x 4 kW AC; 2 x 1.23 kW AC servo	
Drive:	Servo Drive	
Operation direction:	Left to right/right to left	
Interface:	Profinet/Profisafe	

* Depending on tension area and rotation speed

Optional equipment

Interface: Siemens Profibus, Analogue/digital, Rockwell Ethernet IP

Wheel or rail system for easy relocation

Storage for 3 or 4 spools (yarn package)

Yarn cutter for emergency stop

Temperature and vibration sensor

Operation light

Belt torsion blocker (Machine length is extended to 3670 mm)

Front Torsion Blocker

Air conditioning system

