

# RexPlusCarbon Roller Chain

## EXTREME PERFORMANCE BY REXNORD

Rexnord RexPlusCarbon maintenance-free Roller Chain contains excellent acid- and corrosion-resistant thermoplastic sliding sleeves, that require no relubrication. This chain features an extreme long wear life and high wear resistance.

### MAINTENANCE-FREE

The high-tech carbon fiber bushes in the Rexnord RexPlusCarbon Roller Chain take over the function of lubrication. Thanks to the low friction in the chain link, no maintenance is needed. You won't experience any downtime in your production cycle.

### MAXIMUM HYGIENE

Where strict hygienic conditions or water is a factor and corrosion-free material is needed, Rexnord RexPlus Roller Chain offers superior performance. Direct food contact is permitted. This makes it the best choice for the Food & Beverage industry.

### RUST- AND ACID-RESISTANT

The Rexnord RexPlus Roller Chain consists of extremely rust- and acid-resistant materials. This makes it possible to use the chain in water, steam and aggressive liquids without damaging the chain. At the same time, due to the heat-treatment of the pins, the wear life of this chain is significantly longer than other corrosion-resistant chains. A stability list is available upon request.

### ENVIRONMENTALLY FRIENDLY

The chain is environmentally friendly since there is no relubrication needed. This results in a more efficient and eco-friendly way of producing. Next to this, the chain has a very high energy efficiency and is low-noise. Thanks to its environmentally friendly properties, the chain is NSF H1 certified. It's completely free of silicone and Teflon.

### Industries Served

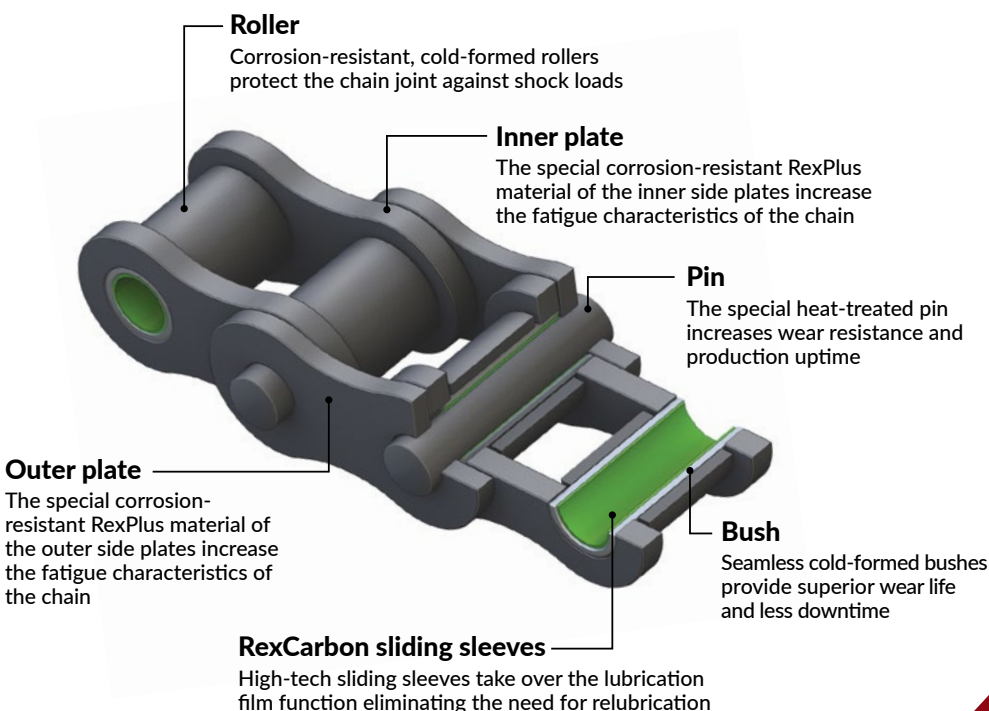
- Food & Beverage
- Automotive
- Material Handling

### Features:

- Long lifetime
- Rust- and acid-resistant
- Optimized wear properties
- NSF H1 certification
- High-tech RexCarbon sliding sleeves
- Special steel

### Benefits:

- Extremely long service life, even without relubrication
- No machine downtime for relubrication
- Low-noise and eco-friendly
- High energy efficiency



**RECOMMENDED CHAIN TRACTIVE POWER FOR APPROPRIATE SPEEDS**

Chain No.*	Temperature range from -40° C to +80° C admissible tractive power for				Temperature range +80° C to +120° C admissible tractive power for *	
	N up to 0,5 m/s	N up to 1,0 m/s	N up to 1,5 m/s	N up to 2,0 m/s	N up to 0,5 m/s	N up to 1,0 m/s
08 B - 1 SS CB	850	750	650	500	680	600
10 B - 1 SS CB	1100	1000	900	670	880	800
12 B - 1 SS CB	1500	1300	1100	890	1200	1040
16 B - 1 SS CB	3500	3100	2700	2100	2800	2480
08 B - 2 SS CB	1500	1300	1100	900	1200	1000
10 B - 2 SS CB	1900	1800	1600	1200	1500	1400
12 B - 2 SS CB	2600	2300	1900	1600	2100	1800
16 B - 2 SS CB	6100	5400	4700	3700	4900	4300

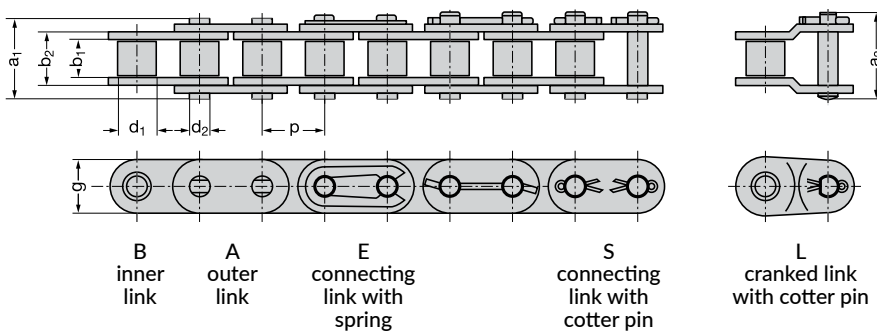
\* For temperatures above +120°C please consult Rexnord Engineering (available up to +175°C)

**EUROPEAN STANDARD – REXPLUSCARBON ROLLER CHAIN  
MADE OF STAINLESS STEEL**

Simplex roller chain

Chain No.*	Pitch		Width between inner plates	Roller diameter	Pin diameter	Width over inner link	Plate depth	Transverse pitch	Pin length	Connecting pin length	Bearing area	Average tensile strength	Weight	Straight sided plate	Loose parts				
	p		b <sub>1</sub> min.	d <sub>1</sub> max.	d <sub>2</sub> max.	b <sub>2</sub> max.	g max.	e	a <sub>1</sub> max.	a <sub>3</sub> max.	A	F <sub>B</sub>	q		A	B	E	L	S
	Inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	cm <sup>2</sup>	N		kg/m				
08 B - 1 SS CB	0.50	12.70	7.75	8.51	4.45	11.30	11.6	–	16.7	19.0	0.50	11 000	0.7		x	x	x		
10 B - 1 SS CB	0.625	15.875	9.65	10.16	5.08	13.28	14.6	–	18.9	22.0	0.67	13 000	0.9	x	x	x	x		
12 B - 1 SS CB	0.75	19.05	11.68	12.07	5.72	15.62	15.9	–	22.3	25.1	0.89	17 500	1.15	x	x	x	x		
16 B - 1 SS CB	1.00	25.40	17.02	15.88	8.28	25.40	20.8	–	35.4	40.8	2.10	44 000	2.6	x	x	x	x		

\* Duplex roller chain also available



**Lubrication:**

- With food-grade ex-works lubrication
- Temperature range from -40°C to +100°C
- Special versions suitable for temperatures up to +175°C (Please contact Rexnord Engineering)