

# RexCarbon Roller Chain

## EXTREME PERFORMANCE BY REXNORD

Rexnord RexCarbon maintenance-free Roller Chain contains RexCarbon sliding sleeves that require no relubrication. This chain produces less noise compared to sinterbush chain.

### MAINTENANCE-FREE

The high-tech carbon fiber bushes in the Rexnord RexCarbon 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.

### HIGH WEAR RESISTANCE

The chain is very robust, it contains case hardened pins and the sliding surface of the chain joint itself has wear-minimizing characteristics. Together with the low friction in the chain link, this results in a high wear resistance of the chain.

### IMPROVED SAFETY

The Rexnord RexCarbon Roller Chain makes it possible to create an extra safe and clean working environment since there is no lubrication needed.

### ENVIRONMENTALLY FRIENDLY

The chain is environmentally friendly since there is no relubrication needed. It's completely free of silicone and Teflon and differentiates itself by its low-noise running.

### Industries Served

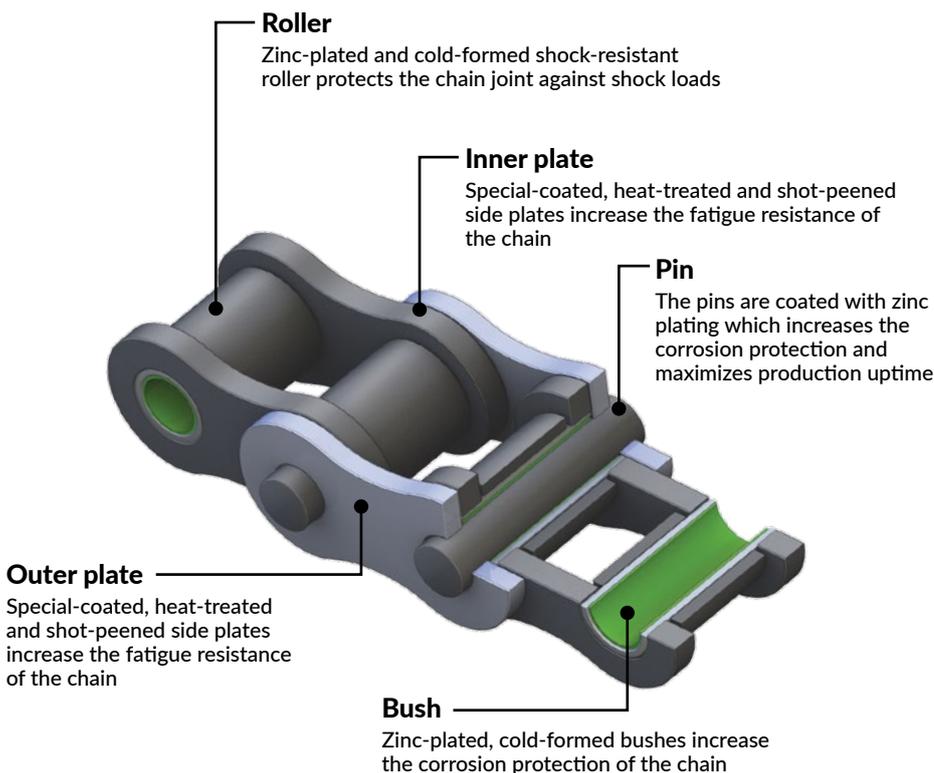
Automotive  
Food & Beverage  
Cosmetics / Pharmacy  
Packaging Industry

### Features:

- Outstanding tribological characteristics
- High wear resistance
- High-tech carbon sliding sleeves
- Extremely robust
- NSF H1 certification
- Low-friction chain bearing
- Relubrication is not required although it reduces friction in the application

### 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<br>admissible tractive power for |                    |                    |                    | Temperature range +80°C to +120°C*<br>admissible tractive power for |                    |
|-------------|--|--------------------|--------------------|--------------------|---|--------------------|
|             | N<br>up to 0,5 m/s   | N<br>up to 1,0 m/s | N<br>up to 1,5 m/s | N<br>up to 2,0 m/s | N<br>up to 0,5 m/s  | N<br>up to 1,0 m/s |
| 08 B - 1 CB | 850  | 750                | 650                | 500                | 680   | 600                |
| 10 B - 1 CB | 1100   | 1000               | 900                | 670                | 880   | 800                |
| 12 B - 1 CB | 1500   | 1300               | 1100               | 890                | 1200  | 1040               |
| 16 B - 1 CB | 3500   | 3100               | 2700               | 2100               | 2800  | 2480               |
| 08 B - 2 CB | 1500   | 1300               | 1100               | 900                | 1200  | 1000               |
| 10 B - 2 CB | 1900   | 1800               | 1600               | 1200               | 1500  | 1400               |
| 12 B - 2 CB | 2600   | 2300               | 1900               | 1600               | 2100  | 1800               |
| 16 B - 2 CB | 6100   | 5400               | 4700               | 3700               | 4900  | 4300               |

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

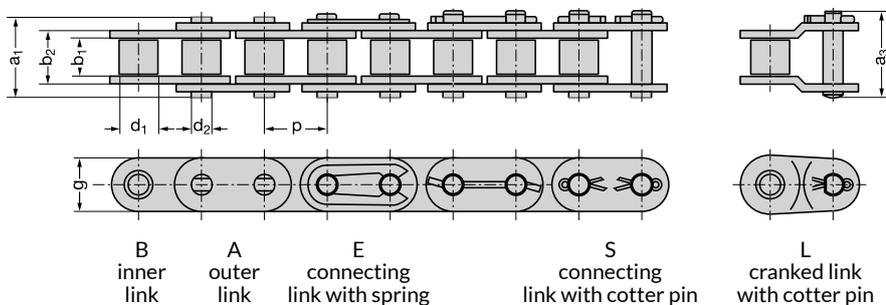
## EUROPEAN STANDARD – REXCARBON ROLLER CHAIN DIN ISO 606 (DIN 8187)\*

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 CB | 0.50  | 12.70  | 7.75                       | 8.51                | 4.45                | 11.30                 | 11.6        | -                | 16.7                | 20.0                  | 0.50         | 17 000                   | 0.70   |                      | x           | x | x |   |   |
| 10 B - 1 CB | 0.625 | 15.875 | 9.65                       | 10.16               | 5.08                | 13.28                 | 14.6        | -                | 18.9                | 23.7                  | 0.67         | 20 000                   | 0.90   | x                    | x           | x | x |   |   |
| 12 B - 1 CB | 0.75  | 19.05  | 11.68                      | 12.07               | 5.72                | 15.62                 | 15.9        | -                | 22.3                | 27.3                  | 0.89         | 31 500                   | 1.15   | x                    | x           | x | x |   |   |
| 16 B - 1 CB | 1.00  | 25.40  | 17.02                      | 15.88               | 8.28                | 25.40                 | 20.5        | -                | 35.4                | 41.5                  | 2.10         | 64 500                   | 2.60   | x                    | x           | x | x |   |   |

\* Deviated ultimate tensile strength and chain length tolerance (up to +0.3%)

\*\* Duplex roller chain also available



### Lubrication:

- With food-grade ex-works lubrication
- Temperature range from -40°C to +120°C
- For temperatures from +120°C to +175°C please consult Rexnord Engineering
- A paint-compatible lubrication is available upon request