



... MOVING AHEAD

Rexnord REXCARBON

Maintenance-free times!



**NO MORE LUBRICATION
THROUGH OPTIMIZED
MATERIALS!**

REXCARBON – no more lubrication!



What the market has been waiting for

REXCARBON from Rexnord is the first truly maintenance-free generation of roller chain. Developed for production machines and plant, which have to run continuously, at full capacity, and therefore make the highest of demands on the performance spectrum of the chain.

Production lines do not have to be stopped any more for what used to be unavoidable maintenance work: without lubrication, innovative and safe, the REXCARBON is a chain with extra special characteristics for light and medium loading situations as well as for dry running. Compared with other so-called maintenance-free roller chains, the Rexnord Concept proved overwhelmingly convincing using a perfect practice-orientated solution: a high-tech thermoplastic sliding sleeve that brings improvements above and beyond all the solutions on the market at present. That saves time and costs.



Truly maintenance-free!
truly incomparable

Enormously long service life!
using optimized materials

Absolutely no need for lubrication!
no contamination of goods or environment

Convincing advantages for REXCARBON

Unique high-tech thermoplastic sliding sleeve!
innovative plastic takes over lubricating film function

Clear safety-first plus!
no fire-hazard through oil and grease deposits

Improved wear resistance!
more robust thanks to carbon

Lower elasticity!
higher degree of positioning

More application possibilities!
the clean solution for nearly all areas

A chain, you can count on!
absolute quality at attractive conditions

Everyone is talking about optimizing products. We do it!

The use of high-tech thermoplastic sliding sleeves leads to a number of positive characteristics, especially in the fields of resistance to wear, rigidity and finally, the length of the working life. Even the typical creep tendency associated with plastics is negligible. That means reduced maintenance costs, shorter stand-still times in the plant and a higher degree of positioning. The improved efficiency enables a widening of the application spectrum for little or no lubrication. Through the selection and use of a special high performance lubricating medium in the factory, it is possible to enlarge the spectrum to foodstuffs and deep-freeze situations. If so desired, the resistance to corrosion can be improved further by means of a special surface treatment. The dimensions correspond to DIN 8187 / ISO 606. If you have extraordinary demands for non-lubricated chains, then the Rexnord application engineers will advise.

High-tech sets the standard

Free from silicon, the new REXCARBON generation is now readily available for use in the spray painting industry. Free from Teflon, it can also be used in the tobacco industry. Additional advantage: In damp or abrasive atmospheres the sliding sleeves restrict stiffness in the chain links, which is most commonly caused by corrosion.

In comparison with conventional chains with plastic sliding sleeves, the high quality material in the high-tech thermoplastic sliding sleeve has few technical disadvantages.

Convincing solutions

With the help of modern materials and production processes, it is now possible to tread futuristic paths to futuristic products, one of which guarantees freedom from maintenance. Optimum successive tuning of the components is the basis for chain links. These chain links work without additional lubrication, are resistant to wear, and most important of all, they are dependable. The maintenance-free REXCARBON has already proved its ability in machines for the food and tobacco industry, the paper industry, in the conveying industry as well as cleansing plant. The results from a wide-ranging series of tests in independent institutes and at the Rexnord Kette Test Center have openly proved what REXCARBON really can do.

Permitted tensile strengths

The REXCARBON is generally used for chain speeds of up to ca. 2 m/s. Permitted temperature range: -40°C up to +100°C.

The material used for the plastic sliding sleeves is resistant against grease, oils, motor fuel, alcohol and other such agents. Concentrated mineral acids, formic acid, glycol and benzyl alcohol may dissolve the plastic.

| Chain type | Temperature range -40 to +80 °C permitted tensile strength for | | | | Temperature range +80 to +100 °C permitted tensile strength for | |
|--------------|--|-----------|-----------|-----------|---|-----------|
| | N up to 0,5 m/s | N 1,0 m/s | N 1,5 m/s | N 2,0 m/s | N up to 0,5 m/s | N 1,0 m/s |
| 08 B – 1 KLC | 850 | 750 | 650 | 500 | 680 | 600 |
| 10 B – 1 KLC | 1100 | 1000 | 900 | 670 | 900 | 700 |
| 12 B – 1 KLC | 1500 | 1300 | 1100 | 890 | 1210 | 920 |
| 16 B – 1 KLC | 3500 | 3100 | 2700 | 2100 | 2900 | 2200 |
| 08 B – 2 KLC | 1400 | 1300 | 1100 | 850 | 1160 | 890 |
| 10 B – 2 KLC | 1900 | 1700 | 1500 | 1140 | 1550 | 1180 |
| 12 B – 2 KLC | 2500 | 2300 | 2000 | 1500 | 2000 | 1580 |
| 16 B – 2 KLC | 6000 | 5300 | 4600 | 3600 | 4800 | 3700 |



TEXTILE INDUSTRY



WOOD-PROCESSING



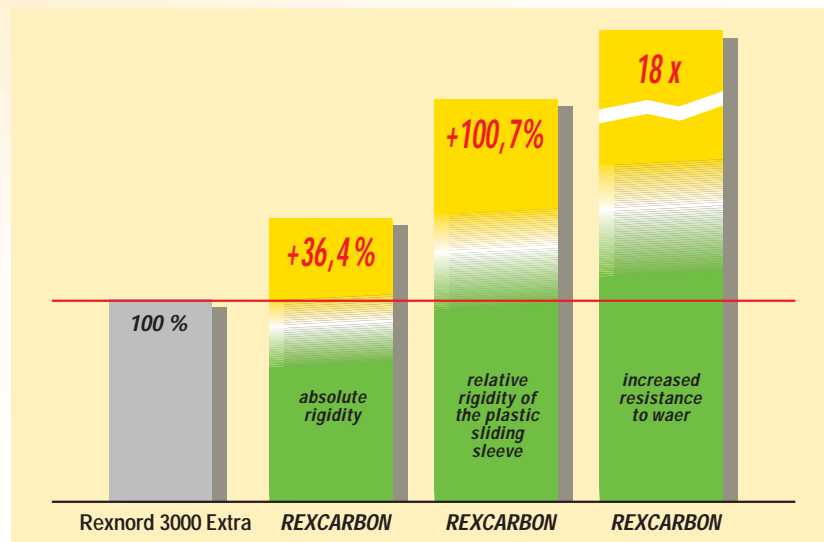
ELECTRO INDUSTRY



PAPER INDUSTRY

Move it with REXCARBON maintenance free chain means: more performance!

With REXCARBON you are out in front, when looking at clean surroundings and the inevitable reduction in maintenance costs. The selection of modern plastics for the sliding sleeve in the chain link has dramatically increased the potential of this maintenance-free chain: the absolute rigidity of the chain by 36,4 %, the relative rigidity of the plastic sliding sleeve by 100,7 % and the wear resistance of the chain by 18 times compared with KL standard chains! Through light oiling or also even through water, the slide and wear characteristics can be considerably further improved. Once again, Rexnord Kette has not only achieved, but been able to optimally present what the market needs. When the customer comes back and not the chain, then the quality is right from Rexnord!



REXCARBON – highest possible usage

Everywhere, where re-lubrication is limited or not even possible, REXCARBON convinces with diverse uses for industrial application: without any reduction in the service life of the chain and without failure through seizure in the chain links, resulting from bad lubrication.

and applications such as:

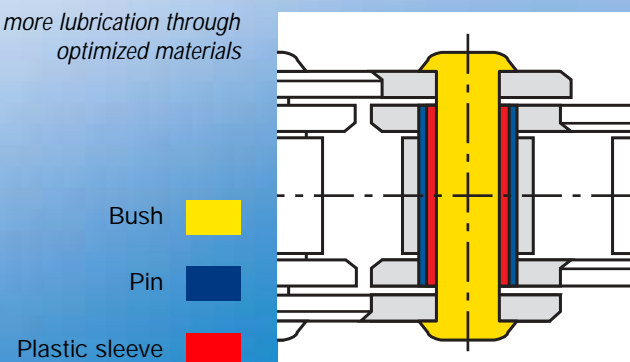
- Cigarette machines,
- Contour machines for panels and board sorting units,
- Laundry technology,
- Ironing and cleaning plant for textiles,
- PCB manufacture,
- Baking technology,
- Folded packaging manufacture,
- Tube manufacture.

The right choice for many applications

Our know-how and experience are an added bonus if you work in the fields of:

- Food and confectionery industry,
- Packaging industry,
- Timber and furniture industry,
- Textile industry,
- Electro-technology,
- Pharmaceutical industry

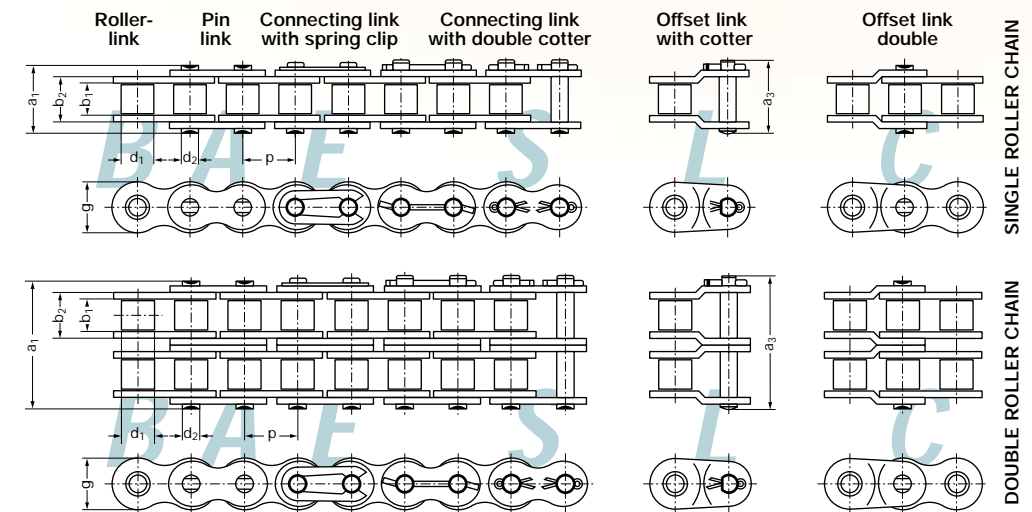
No more lubrication through optimized materials



Suitable for more!

Take advantage of our valuable know-how. The REXCARBON from Rexnord is only one of many examples of products with wide-ranging applications and perfected types.

As Europe's leading specialist for individually customized drive systems, we offer you a wide range of solutions, together with high flexibility. Our wide-ranging product program is coupled with an all-round applications service: Speak with Rexnord Kette—we are moving ahead in the world for you.



Single roller chains with plastic sliding sleeves

| Chain-type | Pitch p | | Roller width | Roller-ø | Pin-ø | Inner width | Link plate-height | Transeverse | Pin width | Overall width | Bearing area | Required *) Min. breaking strength acc. to DIN/ISO | Weight | Loose parts | | | |
|--------------|---------|--------|--------------|----------|-------|-------------|-------------------|-------------|-----------|---------------|--------------|--|--------|------------------|----------|---|---|
| | inch | mm | | | | | | | | | | | | F _B N | ≈ q kg/m | S | C |
| 08 B – 1 KLC | 0,50 | 12,7 | 7,75 | 8,51 | 4,45 | 11,3 | 11,6 | – | 16,7 | 20,3 | 0,5 | 14 000 | 0,68 | | x | x | x |
| 10 B – 1 KLC | 0,625 | 15,875 | 9,65 | 10,16 | 5,08 | 13,28 | 14,7 | – | 18,9 | 23,2 | 0,67 | 19 000 | 0,9 | | x | x | x |
| 12 B – 1 KLC | 0,75 | 19,05 | 11,68 | 12,07 | 5,72 | 15,62 | 15,9 | – | 22,3 | 25,0 | 0,89 | 25 000 | 1,15 | | x | x | x |
| 16 B – 1 KLC | 1,00 | 25,4 | 17,02 | 15,88 | 8,28 | 25,4 | 20,6 | – | 35,4 | 41,9 | 2,1 | 53 000 | 2,6 | | x | x | x |

Double roller chain with plastic sliding sleeve

| | | | | | | | | | | | | | | | | | |
|--------------|-------|--------|-------|-------|------|-------|------|-------|------|------|------|---------|------|--|---|---|---|
| 08 B – 2 KLC | 0,50 | 12,7 | 7,75 | 8,51 | 4,45 | 11,3 | 11,6 | 13,92 | 30,6 | 34,3 | 1,01 | 28 000 | 1,28 | | x | x | x |
| 10 B – 2 KLC | 0,625 | 15,875 | 9,65 | 10,16 | 5,08 | 13,28 | 14,7 | 16,59 | 35,5 | 40,0 | 1,34 | 38 000 | 1,72 | | x | x | x |
| 12 B – 2 KLC | 0,75 | 19,05 | 11,68 | 12,07 | 5,72 | 15,62 | 15,9 | 19,46 | 41,7 | 45,5 | 1,79 | 50 000 | 2,27 | | x | x | x |
| 16 B – 2 KLC | 1,00 | 25,4 | 17,02 | 15,88 | 8,28 | 25,45 | 20,6 | 31,88 | 67,4 | 73,9 | 4,21 | 106 000 | 5,1 | | x | x | x |

*) the effective higher breaking strength and fatigue strength can be quoted upon request.



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