



RexAthletic Roller Chain



OUR INNOVATION MOVES

EXTREME PERFORMANCE BY REXNORD

Rexnord RexAthletic® low-maintenance Roller Chain contains low-friction chain joints and provides long relubrication intervals. This chain features high dynamic loading capabilities, long wear life and high wear resistance.

LOW MAINTENANCE

Due to the high performance long-term lubrication the friction and the need for maintenance is reduced and the lubrication intervals are significantly longer. This is ideal in case the maintenance and lubrication possibilities are limited. The special coating of the pins and bushes offers a very good sliding characteristic.

HIGH DYNAMIC LOADING CAPABILITY

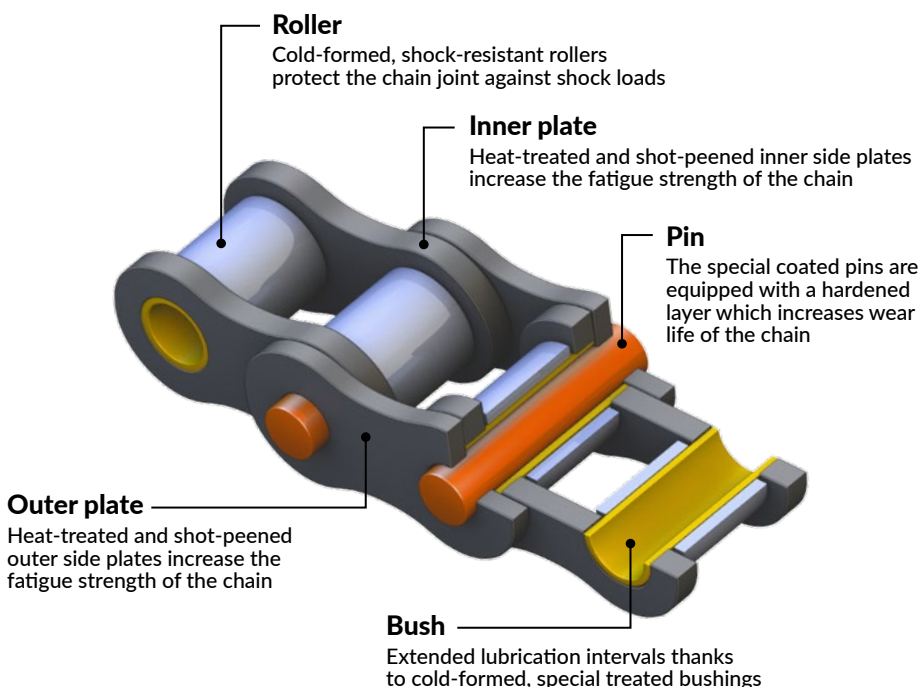
The Rexnord RexAthletic Roller Chain is ideal for heavy loading applications in difficult conditions and in closed systems. It's also suitable for situations where high fatigue resistance is required.

LONG WEAR LIFE

Even with minimum lubrication and under heavy loads the Rexnord RexAthletic Roller Chain has a high wear resistance and a long wear life. The wear life is much longer compared to standard chains. The chain contains improved protection against stiff joints and links.

BENEFITS

- Reduced maintenance and longer lubrication intervals
- High wear resistance even with inadequate lubrication
- Extended wear life under tough loading conditions
- Cost-effective



Industries Served

- Material Handling
- Automotive
- Food & Beverage
- Agriculture
- Energy
- General Mechanical Engineering

Features:

- Outstanding tribological characteristics
- Excellent sliding properties
- High fatigue strength and chain traction
- Improved protection against chain joint stiffness
- NSF H2 certification for the food industry
- Chain sizes with pitch from 12.7 millimeter (mm) to 50.8 mm available (special sizes on request)
- Dimensions in accordance with DIN, ANSI and ISO standards

Lubrication:

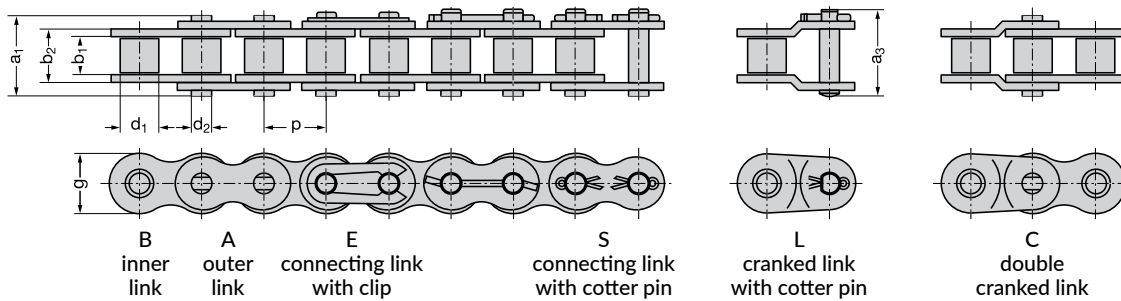
- High quality long-term lubricant
- No dripping of lubricant
- Water-resistant
- Temperature range from 0°C to +120°C
- Temperature range extension from -40°C to +250°C possible with high- or low-temperature lubricants

EUROPEAN STANDARD – REXNORD REXATHLETIC 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 | Required minimum tensile strength DIN / ISO | Average tensile strength | Weight | Possible with straight sided plates | Loose parts | | | | | |
|-------------|-------|--------|----------------------------|---------------------|---------------------|-----------------------|-------------|------------------|---------------------|-----------------------|--------------|---|--------------------------|--------|-------------------------------------|-------------|---|---|-----|---|-----|
| | p | | b ₁ min. | d ₁ max. | d ₂ max. | b ₂ max. | g max. | e | a ₁ max. | a ₃ max. | A | F _U | F _B | q | | A | B | C | E** | L | S** |
| | Inch | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | cm ² | N | N | | kg/m | | | | | |
| 08 B - 1 AT | 0.50 | 12.70 | 7.75 | 8.51 | 4.45 | 11.30 | 11.6 | - | 17.0 | 20.9 | 0.50 | 17 800 | 21 000 | 0.7 | | x | x | x | x | x | |
| 10 B - 1 AT | 0.625 | 15.875 | 9.65 | 10.16 | 5.08 | 13.28 | 14.6 | - | 19.6 | 23.7 | 0.67 | 22 200 | 25 000 | 0.9 | x | x | x | x | x | x | |
| 12 B - 1 AT | 0.75 | 19.05 | 11.68 | 12.07 | 5.72 | 15.62 | 15.9 | - | 22.7 | 27.3 | 0.89 | 28 900 | 32 000 | 1.2 | x | x | x | x | x | x | |
| 16 B - 1 AT | 1.00 | 25.40 | 17.02 | 15.88 | 8.28 | 25.40 | 20.5 | - | 36.1 | 41.5 | 2.10 | 60 000 | 80 000 | 2.7 | x | x | x | x | x | x | |
| 20 B - 1 AT | 1.25 | 31.75 | 19.56 | 19.05 | 10.19 | 29.00 | 25.7 | - | 40.4 | 47.6 | 2.96 | 95 000 | 120 000 | 3.8 | x | x | x | | | x | x |
| 24 B - 1 AT | 1.50 | 38.10 | 25.40 | 25.40 | 14.63 | 37.90 | 33.0 | - | 53.8 | 60.6 | 5.54 | 160 000 | 211 000 | 7.0 | x | x | x | | | x | x |
| 28 B - 1 AT | 1.75 | 44.45 | 30.99 | 27.97 | 15.80 | 46.50 | 37.0 | - | 63.3 | 72.8 | 7.35 | 200 000 | 240 000 | 8.9 | | x | x | | | x | x |
| 32 B - 1 AT | 2.00 | 50.80 | 30.99 | 29.21 | 17.81 | 45.50 | 41.2 | - | 65.1 | 73.6 | 8.10 | 250 000 | 315 000 | 9.9 | x | x | x | | | x | x |

* Also available as duplex or triplex on request
 ** Loose parts are produced in Rexnord RexHiProAthletic version



AMERICAN STANDARD – REXNORD REXATHLETIC ROLLER CHAIN DIN ISO 606 (DIN 8188)

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 | Required minimum tensile strength DIN / ISO | Average tensile strength | Weight | Possible with straight sided plates | Loose parts | | | | | |
|------------|-------|-------|----------------------------|---------------------|---------------------|-----------------------|-------------|------------------|---------------------|-----------------------|--------------|---|--------------------------|--------|-------------------------------------|-------------|---|---|-----|---|-----|
| | p | | b ₁ min. | d ₁ max. | d ₂ max. | b ₂ max. | g max. | e | a ₁ max. | a ₃ max. | A | F _U | F _B | q | | A | B | C | E** | L | S** |
| | Inch | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | cm ² | N | N | | kg/m | | | | | |
| 60 - 1 AT | 0.75 | 19.05 | 12.57 | 11.91 | 5.94 | 17.70 | 17.7 | - | 25.7 | 28.6 | 1.05 | 31 300 | 40 000 | 1.5 | x | x | x | | x | x | |
| 80 - 1 AT | 1.00 | 25.40 | 15.75 | 15.88 | 7.92 | 22.50 | 23.5 | - | 33.0 | 38.0 | 1.78 | 55 600 | 65 000 | 2.6 | x | x | x | | x | x | |
| 100 - 1 AT | 1.25 | 31.75 | 18.90 | 19.05 | 9.53 | 27.40 | 29.2 | - | 39.4 | 44.9 | 2.61 | 87 000 | 105 000 | 4.0 | | x | x | | | x | x |
| 120 - 1 AT | 1.50 | 38.10 | 25.22 | 22.23 | 11.10 | 35.30 | 34.4 | - | 49.8 | 56.1 | 3.92 | 125 000 | 145 000 | 5.5 | | x | x | | | x | x |
| 140 - 1 AT | 1.75 | 44.45 | 25.22 | 25.40 | 12.70 | 37.00 | 40.8 | - | 53.4 | 59.3 | 4.70 | 170 000 | 220 000 | 7.5 | | x | x | | | x | x |
| 160 - 1 AT | 2.00 | 50.80 | 31.55 | 28.58 | 14.27 | 45.00 | 47.8 | - | 63.6 | 68.9 | 6.42 | 223 000 | 260 000 | 10.2 | | x | x | | | x | x |

* Also available as duplex or triplex on request
 ** Loose parts are produced in Rexnord RexHiProAthletic version

