

# ■ DRIVE CHAINS

## ENGINEERED STEEL DRIVE CHAINS

**Designed to give you superior performance, even under the most punishing conditions**

Rugged, all-steel Rex® and Link-Belt® drive chains are built to perform at levels other drive chains can't match. Rexnord began manufacturing drive chain in the late 1800's and has been a leader in drive chain innovation since. Today's chains are a product of over a century of improved product design, testing and application experience. No one else in the industry comes close to our level of expertise.

### More built-in features for your money

- Engineered interference fit construction designed to increase chain fatigue life and wear life.
- State-of-the-art heat treatment of all chain components to assure longer chain life. Rexnord has developed most of its own heat treating equipment in-house for better control and to precisely fit the heat treat needs of drive chain pins and bushings.
- Pins, bushings and rollers are manufactured to exact tolerances. Sidebars and sidebar holes are punched using the latest punch press technology to give superior fit and finish.
- Selectively Induction Hardened (SIH) pins, available in many of our drive chains, afford you unmatched toughness and wear resistance. Ideal for tough, shock loaded applications.
- Stocked in the largest network of warehouses in the industry. All backed up with extensive engineering and sales support.



*Smooth and precise, yet rugged. Our drive chains are able to handle applications from 1 to 300 plus horsepower.*

## ■ DRIVE CHAINS

### Wear life is directly affected by the hardness and case depth of the wearing components

- Selectively Induction Hardened pins (the pin with the crescent-shaped hardened area) are heat treated only on the portion of the pin that experiences wear. The balance of the pin is left in a tough state to withstand shock loading.
- Chain rollers, sidebars and bushings are all heat treated for wear resistance and strength.
- Pins hardened by Rexnord's advanced induction hardening process feature extremely hard wear surfaces and deep case depths as shown below.

### Ideal replacement for gearing, multiple strand roller chain, and belt drives

- Requires less precision and expense than gearing – center distances are more flexible and adjustable.
- A single strand of Rex or Link-Belt drive chain can frequently replace multiple strand roller chain drives, thus simplifying maintenance. And unlike multiple strand chains, our drive chains run on simple flame-cut sprockets.
- Easily adjustable. The offset link design allows one link at a time to be taken out or inserted. No special connector links are required.
- Lower overhung loads than belt drives due to the elimination of pre-tensioning.

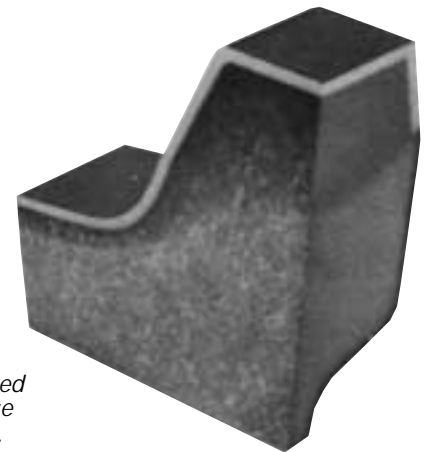
### Rexnord chains run best on Rexnord sprockets

Although our drive chains may be run on commonly available flame cut sprockets, they give better long term performance when matched with our sprockets. Our sprockets are flame cut and induction hardened to give hard, deep case depths.

Most competitive sprockets have only a fraction of the case depth. Once the case depth is worn through, sprocket wear is rapid and chain interaction is affected, thus causing greater chain stress.



*CIH pins (right and bottom) offer very hard and deep case depths around the full circumference of the pin. SIH pins (upper left) are hardened only on the load bearing surface so shock can be better absorbed by the back of the pin.*



*Proprietary induction hardening process gives every heat treated sprocket superior case depths and hardness.*

# ■ DRIVE CHAINS

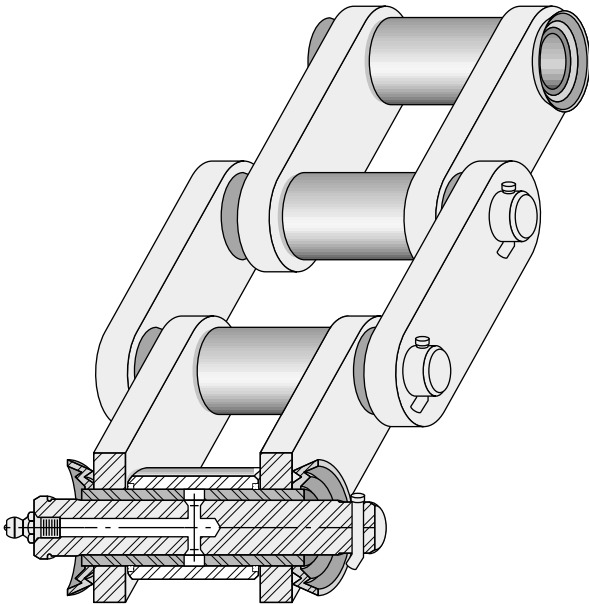
## 3100 SERIES DRIVE CHAINS

**Longer life and durability than their ANSI roller chain equivalents**

The 3100 Series drive chains are designed with all the features of our standard drive chains. But, unlike the others, they operate on standard ANSI roller chain sprockets. They may also be used to replace ANSI roller chains of the same pitch.



## Sealed Joint Drive Chains



*Rexnord engineers have developed a proprietary method of sealing both the roller and bushing area of **straight sidebar** chains. Keeps factory lubrication in and contamination out! Patent pending.*

Rexnord has had excellent success with its line of sealed joint elevator chains and is now using that technology to create sealed joint drive chains. Sealed joint drive chains are a new innovation. Please contact Rexnord to determine if this product is right for your application and if the chain you want is available.

- Factory installed grease is trapped in the joint to reduce break-in wear and provide constant lubrication during the life of the seal.
- Contaminants are sealed out to eliminate their abrasive or corrosive effects.

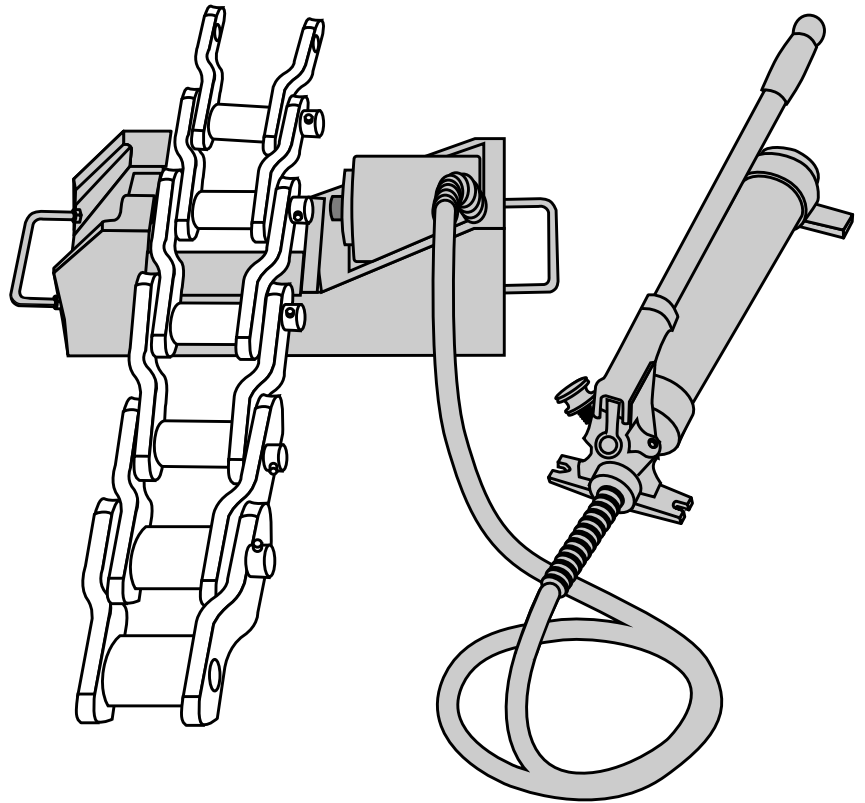
# ■ DRIVE CHAINS

## DRIVEMASTER® ASSEMBLY TOOL

### The quick and safe way to assemble and disassemble Rex® or Link-Belt® drive chain

Easily assemble and disassemble our drive chains with this portable tool. An optimum amount of interference fit has been used to assemble this chain at the factory – Drivemaster allows you to maintain this optimum press fit in the field.

- Specify the chain or chains to be assembled and disassembled.
- Each Drivemaster comes with one adapter set to accept the chain or chains you specify when ordering the unit. Different chains require different adapter sets.
- Drivemaster can accept many other Rexnord chains such as welded steel and general engineered class chains. Again, specify the type of chains you anticipate working with.

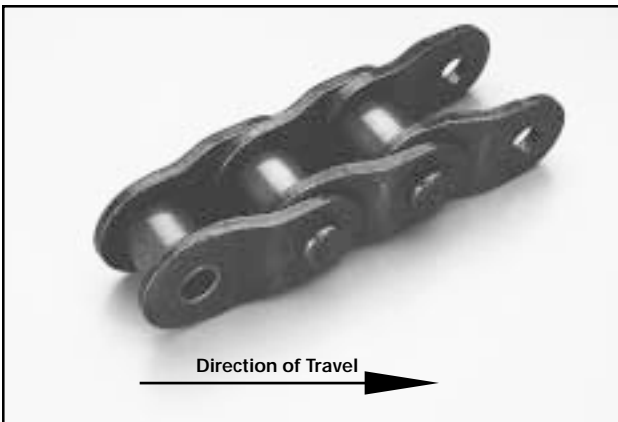


DRIVE CHAINS

*Easy-to-use Drivemaster assembly tool reduces down-time, maintains interference fit and eliminates cumbersome assembly/disassembly methods.*

### Application Assistance and Wear Analysis

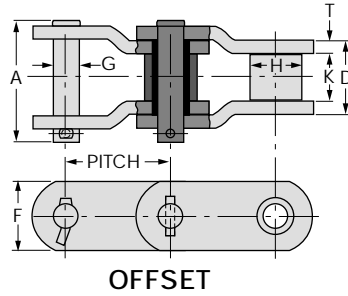
- Rexnord engineers are always available for drive chain selection and application consultation.
- Rexnord also provides drive chain wear and failure analysis. This service is designed to help you get the most out of your Rex or Link-Belt chains.



## Remember Direction of Travel!

The general rule for direction of chain travel for offset drive chains is as follows: the narrow or roller end of the link in the tight side strand should always face the smaller sprocket, regardless of whether this is a driver or driven.

# DRIVE CHAINS



**Properties**

- TH Thru-Hardened
- CARB Carburized
- CIH Circumferentially Induction Hardened
- SIH Selectively Induction Hardened

Dimensions are in inches. Strengths, loads and weights are in pounds.

Rex Chain No.	Link-Belt Chain No.	Average Pitch	Rated Working Load <sup>2</sup>	Minimum Ultimate Strength, Lbs. x 10 <sup>3</sup>	Over-All Width	Bushing <sup>3</sup> Length	Sidebars <sup>4</sup>		Pins Diam. Properties G	Roller <sup>5</sup> Diameter	Between Sidebars K	Average Weight Per Foot	Sprocket <sup>6</sup> Unit No.
							Thickness	Height					
							A	D					
<b>Offset Sidebar Drive Chains</b>													
R362	ROA620	1.654	1,650	14	2.03	1.25	0.13	1.13	0.38-CARB	0.88	0.97	2.0	62
R432	RO622	1.654	2,100	19	2.28	1.38	0.19	1.13	0.44-TH	0.88	0.97	3.5	62
R3112	-	2.000	3,400	38	2.91	1.75	0.25	1.63	0.56-TH	1.13	1.22	6.4	3112
B3113	ROA3160S	2.000	3,900	44	3.13	1.88	0.31	1.63	0.59-TH	1.13	1.19	7.3	3112
R506	RO770 <sup>7</sup>	2.300	1,600	10	2.09	1.25	0.16	1.00	0.38-CARB	0.75	0.88	2.2	506
R514	ROA2010	2.500	4,650	57	3.50	2.13	0.31	1.63	0.63-SIH	1.25	1.44	7.8	514
A520	-	2.563	2,700	24	2.69	1.56	0.25	1.25	0.50-CARB	1.13	1.00	4.5	520
B578	RO578 <sup>7</sup>	2.609	1,800	10	2.27	1.38	0.16	1.00	0.38-CARB	0.88	1.03	2.3	78
R778	ROA881	2.609	2,300	18	2.41	1.50	0.19	1.13	0.44-CARB	0.88	1.06	2.3	78
R588	ROA882	2.609	2,450	19	2.67	1.63	0.25	1.13	0.44-CARB	0.88	1.06	3.8	78
B508H	-	2.620	2,400	19	2.63	1.56	0.25	1.13	0.44-CARB	1.00	1.06	3.8	508
AX1568	ROA2512	3.067	6,000	77	3.90	2.31	0.38	2.25	0.75-SIH	1.63	1.50	12.1	1568
1030	ROA40	3.075	4,650	27	3.50	2.13	0.31	1.50	0.63-CARB	1.25	1.44	6.8	1030
R1033	ROA1031	3.075	4,650	39	3.50	2.13	0.31	1.50	0.63-SIH	1.25	1.44	6.8	1030
R1035	ROA1032	3.075	4,650	52	3.50	2.13	0.31	1.63	0.63-SIH	1.25	1.44	7.2	1030
R1037	ROA40 Hyper	3.075	5,100	57	3.75	2.25	0.38	1.75	0.65-SIH	1.25	1.44	8.6	1030
Champ. 3	-	3.075	5,100	57	3.85	2.25	0.38	1.69	0.65-SIH	1.25	1.44	8.3	1030
RO-6706	-	3.075	9,000	60	4.55	2.94	0.38	2.00	0.88-CIH	1.75	2.19	14.0	RO6706
3125	ROA3125 Hyper	3.125	6,600	84	4.00	2.38	0.38	2.25	0.80-SIH	1.63	1.56	12.3	3125
3125-2	ROA3125-2 Hyper	3.125	13,200	168	7.19	2.38	0.38	2.25	0.80-TH	1.63	1.56	24.6	D31
RX238	ROA2814	3.500	7,600	106	4.50	2.50	0.50	2.25	0.88-SIH	1.75	1.44	15.8	238
AX1338	-	3.625	9,200	124	4.98	2.81	0.56	2.50	0.94-SIH	2.13	1.63	20.6	AX1338
RO-6214	-	4.000	16,400	125	5.68	3.75	0.50	2.75	1.25-SIH	2.25	2.75	25.0	RO6214
A1236	-	4.063	6,000	73	3.91	2.31	0.38	2.00	0.75-SIH	1.75	1.56	10.4	A1236
1240	ROA124	4.063	9,000	51	4.88	2.94	0.50	2.00	0.88-SIH	1.75	1.88	12.3	1240
1244	-	4.063	9,000	91	4.88	2.94	0.50	2.13	0.88-SIH	1.75	1.88	13.0	1240
R1248	ROA1242	4.063	9,000	102	4.88	2.94	0.50	2.25	0.88-SIH	1.75	1.88	15.7	1240
RX1245	ROA3315	4.073	10,000	124	5.19	3.06	0.56	2.38	0.94-SIH	1.78	1.88	18.7	1240
X1343	-	4.090	10,700	137	5.25	3.06	0.56	2.75	1.00-SIH	1.88	1.88	21.5	X1343
X1345	-	4.090	10,700	137	5.25	3.06	0.56	2.75	1.00-TH	2.00	1.88	22.8	X1345
X1351	-	4.125	12,500	166	5.38	3.19	0.56	2.75	1.13-SIH	2.25	2.00	24.8	X1351
RO635	ROA3618	4.500	12,200	171	5.38	3.19	0.56	3.00	1.10-CIH	2.25	2.00	22.0	635
A1204	-	5.000	13,500	169	5.63	3.44	0.56	3.00	1.13-TH	2.50	2.25	25.5	1204
RO1205	-	5.000	16,400	196	5.93	3.75	0.56	3.25	1.25-CIH	2.50	2.56	28.5	1207
RX1207	ROA4020	5.000	17,500	223	6.31	4.00	0.63	3.50	1.25-SIH	2.50	2.69	34.0	1207
RO1315	ROA5035	5.000	20,000	250	6.63	4.06	0.75	3.50	1.38-CIH	2.50	2.50	37.0	RO1315
RO1355	-	5.000	20,400	250	6.81	4.25	0.75	3.75	1.38-CIH	2.75	2.69	43.6	RO1355
RO1356	RO5542	5.500	23,600	300	7.25	4.50	0.75	4.00	1.50-CIH	3.00	2.94	45.6	RO1356
1301	ROA5738 <sup>8</sup>	5.750	23,000	299	7.09	4.38	0.69	4.00	1.50-TH	3.00	2.94	45.0	1301
RO1306/ ROS1306 <sup>9</sup>	ROA4824/ ROB4824	6.000	23,600	287	7.25	4.50	0.75	4.00	1.50-CIH	3.00	2.94	45.0	1306
RX9506H	-	6.000	23,600	300	7.25	4.50	0.75	4.75	1.50-SIH	3.00	2.94	47.2	1306
X1311	RO6555 <sup>7</sup>	6.500	30,600	412	7.97	5.00	0.88	5.00	1.75-SIH	3.50	3.19	77.9	X1311
X1307	-	7.000	30,600	385	7.97	5.00	0.88	5.00	1.75-SIH	3.50	3.19	66.0	1307

<sup>1</sup> Link-Belt versions no longer available. Unless otherwise noted, Rex version is identical to the Link-Belt version. Sections and links may be interchangeable.

<sup>2</sup> Use pages 103-108 for drive chain selection procedures using selection tables. For alternate selection method using 'rated working load', see page 122.

<sup>3</sup> All bushings are carburized except for RO1315, RO1355, RO1356, ROS1306, & RX9506H, which are thru-hardened.

<sup>4</sup> All sidebars are thru-hardened except for R506, B578, 1030, 1240.

<sup>5</sup> All rollers are thru-hardened.

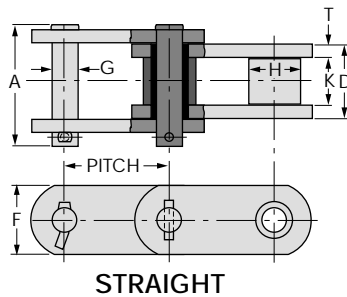
<sup>6</sup> Fabricated steel sprockets are recommended.

<sup>7</sup> Functional equivalent, but not physical identical to, Rex equivalent shown.

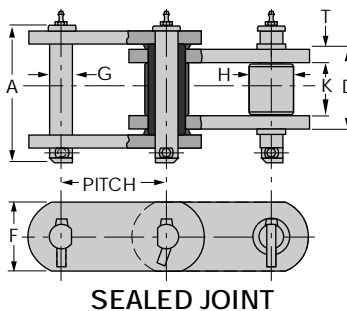
<sup>8</sup> For track crawler drives with heavy shock loads, select ROS 1306

**Note: Dimensions are subject to change. Certified dimensions of ordered material are furnished upon request.**

# DRIVE CHAINS



STRAIGHT



SEALED JOINT

**Properties**

- TH Thru-Hardened
- CARB Carburized
- CIH Circumferentially Induction Hardened
- SIH Selectively Induction Hardened

Dimensions are in inches. Strengths, loads and weights are in pounds.

Rex Chain No.	Link-Belt Chain No.	Average Pitch	Rated Working Load <sup>②</sup>	Minimum Ultimate Strength, Lbs. x 10 <sup>3</sup>	Over-All Width	Bushing <sup>③</sup> Length	Sidebars <sup>④</sup>		Pins Diam. Properties G	Roller <sup>⑤</sup> Diameter	Between Sidebars K	Average Weight Per Foot	Sprocket <sup>⑥</sup> Unit No.
							Thickness T	Height F					
<b>Straight Sidebar Drive Chains</b>													
6425R	-	2.500	6,900	78	3.81	2.27	0.38	2.38	0.88-CIH	1.56	1.48	12.7	645
X345	RS3017 <sup>⑦</sup>	3.000	10,000	124	5.22	3.06	0.56	2.38	0.94-SIH	1.78	1.88	21.8	X345
X1353	-	4.090	16,000	205	5.81	3.50	0.63	3.00 <sup>⑧</sup>	1.31-SIH	2.63	2.18	32.6	X1353
X1365	-	6.000	30,600	407	7.97	5.00	0.88	5.00	1.75-SIH	3.50	3.19	68.0	X1365
A1309	RO7080 <sup>⑦</sup>	7.000	37,150	606	8.00	5.00	0.88	6.00	2.13-TH	4.50	3.13	89.6	A1309
<b>3100 Series Offset Sidebar Chains</b>													
3120CM	ROA3120	1.500	2,100	28	2.28	1.38	0.19	1.81	0.44-TH	0.88	0.97	4.0	ANSI #120
3140CM	ROA3140	1.750	2,500	39	2.50	1.44	0.22	1.63	0.50-TH	1.00	0.97	5.2	ANSI #140
3160CM	ROA3160	2.000	3,450	50	2.91	1.75	0.25	1.88	0.56-TH	1.13	1.19	6.7	ANSI #160
3180	-	2.250	4,800	63	3.31	2.00	0.28	2.13	0.69-CIH	1.41	1.38	9.6	ANSI #180
<b>Sealed Joint Drive Chains</b>													
SJLR1037	-	3.075	5,100	57	4.37	2.56	0.38	1.88	0.65-SIH	1.25	1.44	9.1	1030
SJLR1245	-	4.073	10,000	124	5.78	3.38	0.56	2.38	0.94-SIH	1.78	1.88	19.0	1240

① Link-Belt versions no longer available. Unless otherwise noted, Rex version is identical to the Link-Belt version. Sections and links may be interchanged.

② Use pages 103-108 for drive chain selection procedures using selection tables. For alternate selection method using 'rated working load' see page 122.

③ All bushings are carburized except for RO1315, RO1355, RO1356, ROS1306, & RX95506H, which are thru-hardened.

④ All sidebars are thru-hardened except for R506, B578, 1030, 1240.

⑤ All rollers are thru-hardened.

⑥ Fabricated steel sprockets are recommended.

⑦ Functional equivalent, but not physical identical to, Rex equivalent shown.

⑧ Inner sidebars 3.50

**Note: Dimensions are subject to change. Certified dimensions of ordered material are furnished upon request.**