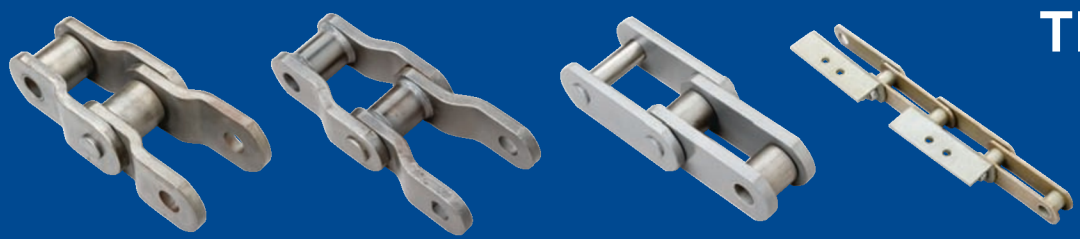
RENOLD





Theme Park Chain

Safety First

Renold Theme Park Chain



Keep your rides running longer

- Roller coasters
- Water rides
- Carousels
- Free-fall lifts

Renold has more than 120 years of experience, and our chains are used in many theme parks around the world.We build chains of the highest quality to provide longer wear life and better return on your investment.

We also understand the safety requirements of the theme park industry, and design and manufacture our chains to ensure reliable,trouble-free operation in service.

Designed to meet your requirements

Renold starts with strong, long-lasting chains and offers customized solutions to meet your needs.

Standard theme park chains:

- Excellent fatigue life and wear resistance
- High reliability
- Full technical support service

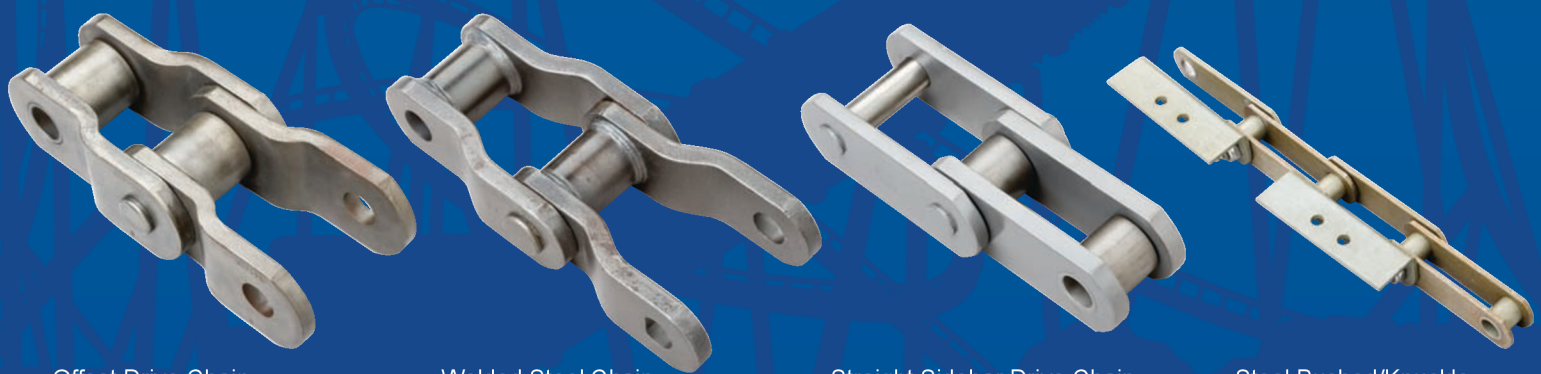
Customized solutions include:

- Special lubrication options
- Plating choices, including
- Hydro-Service® and zinc coating
- Wide range of attachments
- Wide range of pin-fixing methods

Renold theme park chains improve your operation

SERVICES OFFERED

- Onsite inspections
- Onsite trouble shooting
- RMA programs with written analysis and recommendations
  - Renold chains, as well as OEM and competitive chains
  - Elongation measurements
- Reverse-engineered OEM drop in replacement chains
- Maintenance training instruction



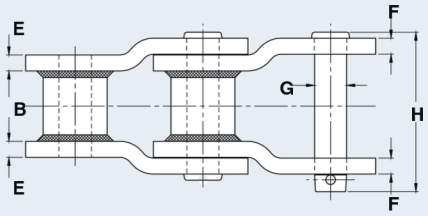
Offset Drive Chain

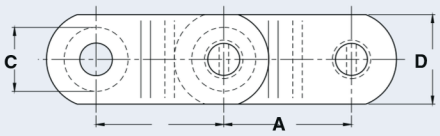
Welded Steel Chain

Straight Sidebar Drive Chain

Steel Bushed/Knuckle Water Ride Chain

Theme Park Chain



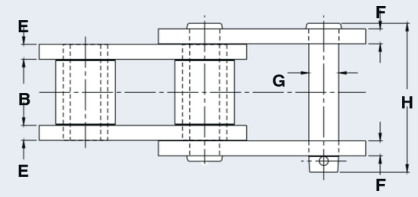


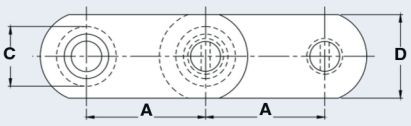
Welded Steel Type Lift Chain

Dimensions are in inches unless otherwise indicated.

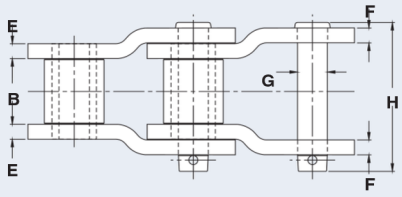
Chain No.	Pitch	Inside Width	Barrel Diameter	Plate Height	Plate Thickness	Pin Diameter	Pin Length Max	Ultimate Strength	Rated Working Load	Max Sprocket Width	Weight
	A	B	C	D	E/F	G	H	Lbs	Lbs		Lbs/Ft
WH82-TP	3.075	1.750	1.219	1.250	0.250	0.563	3.291	35,000	4,400	1.250	5.40
WH124-TP	4.000	2.063	1.250	1.500	0.375	0.750	4.285	60,000	7,350	1.500	7.80
WHX124-HD-TP	4.063	2.000	1.625	2.000	0.500	0.875	4.779	124,500	10,500	1.500	13.80
WHX126-TP	4.080	2.000	1.750	2.000	0.500	1.000	4.779	101,000	10,500	1.500	14.50
WHX126-H-TP	4.080	2.000	1.750	2.250	0.500	1.000	4.779	140,000	10,500	1.500	15.60
WHX132-TP	6.050	3.375	1.750	2.000	0.500	1.000	6.241	100,000	15,300	2.500	13.80

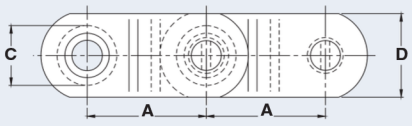
Can be furnished with oil holes in the barrels





Style S (Straight Sidebar)





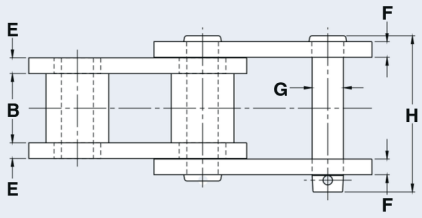
Style O (Offset Sidebar)

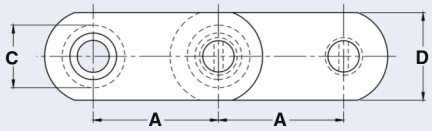
Roller Type Lift Chain

Dimensions are in inches unless otherwise indicated.

Chain No.	Sidebar Style	Pitch	Inside Width	Roller Diameter	Plate Height	Inner Plate Thick	Outer Plate Thick	Pin Diameter	Pin Length Max	Ultimate Strength	Rated Working Load	Weight
		A	B	C	D	E	F	G	H	Lbs	Lbs	Lbs/Ft
JS4014-TP	O	4.063	1.938	1.750	2.250	0.500	0.500	0.875	4.716	134,000	9,000	15.50
JS1245-TP	O	4.073	1.938	1.781	2.375	0.563	0.563	0.938	5.010	163,000	10,000	18.50
JS4080-TP	O	4.080	1.938	1.750	2.250	0.500	0.500	0.875	4.716	140,000	9,000	15.60
4073A-TP	S	4.073	2.063	1.781	2.375	0.563	0.500	0.938	4.594	135,000	10,500	17.60
586946	S	4.063	1.938	1.750	2.250	0.563	0.500	0.904	4.818	157,300	15,700	16.40
586961	S	4.760	1.938	1.750	2.250	0.563	0.500	0.904	4.818	157,300	15,700	15.20
586960	S	4.331	2.173	1.969	2.500	0.625	0.625	1.125	5.540	202,300	20,000	21.40
586954	S	4.464	1.938	1.969	2.500	0.705	0.600	1.125	5.354	224,800	22,000	21.00
586951	S	5.354	1.938	2.165	3.000	0.705	0.600	1.243	5.392	269,700	26,000	24.60

Theme Park Chain



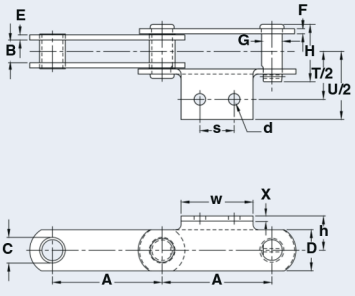


Steel Bushed/Knuckle Type Lift Chain

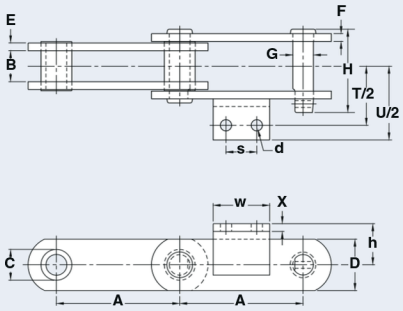
Dimensions are in inches unless otherwise indicated.

Chain No.	Pitch	Inside Width	Bushing/ Knuckle Diameter	Plate Height	Inner Plate Thick	Outer Plate Thick	Pin Diameter	Pin Length Max	Ultimate Strength	Rated Working Load	Weight
	A	B	C	D	E	F	G	H	Lbs	Lbs	Lbs/Ft
6102 1/2-TP	4.040	2.191	1.375	1.750	0.375	0.375	0.750	4.410	70,000	7,900	9.40
6098-TP	4.040	2.313	1.375	2.000	0.500	0.375	0.875	4.438	86,900	10,150	10.50
6099-TP	4.040	2.250	1.375	2.000	0.375	0.375	0.875	4.279	72,000	9,200	10.40
6100-TP	4.040	2.250	1.375	2.250	0.375	0.375	0.875	4.282	106,000	9,200	11.70
6440-TP	4.040	1.375	1.500	2.500	0.375	0.375	1.000	3.188	94,000	7,400	12.20
6111-TP	4.760	2.625	1.438	2.000	0.375	0.375	0.750	4.848	50,000	8,850	10.50
6050-TP	6.050	3.125	1.750	3.000	0.500	0.500	1.000	5.703	177,000	16,500	19.20

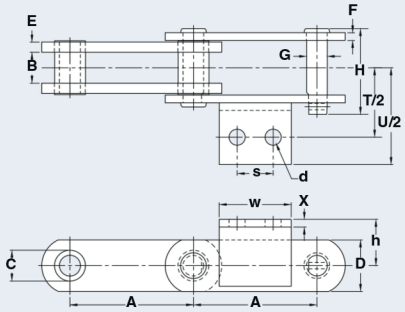
Can be furnished with oil holes in the bushing/knuckle



6233RC with A-2 Attachment



6247B with A-2 ½ Attachment



6248PB with A-2 ½ Attachment

Steel Bushed/Knuckle Type Water Ride Chain

Dimensions are in inches unless otherwise indicated.

Chain No.	Pitch	Inner Width Max	Bushing/ Knuckle Diam Max	Plate Height Max	Inner Plate Thick Max	Outer Plate Thick Max	Pin Diam Max	Pin Length Max								Average Ultimate Strength	Rated Working Load	Weight
	A	B	C	D	E	F	G	H	T/2	U/2	X	d	h	s	w	Lbs	Lbs	Lbs/Ft
6233RC A-2**	4.000	0.830	0.940	1.500	0.190	0.190	0.750	2.330	1.750	2.480	—	0.420	1.250	1.250	2.620	16,000	3,400	4.80
6247B A-2 ½	6.000	1.520	1.500	2.500	0.375	0.375	1.000	4.280	2.870	3.590	0.375	0.546	2.000	1.500	2.750	55,000	8,350	12.10
6248PB A-2 ½	6.000	1.500	1.500	2.500	0.500	0.375	1.000	4.172	3.375	4.703	0.375	0.781	2.250	1.750	3.500	116,000	9,200	14.20

**Can be furnished with full A-2 attachment

Water Ride Chains can be furnished with zinc or Hydro-Service® plating, lube fittings, and locknuts on connecting links.

Sprockets

Renold Sprockets are engineered and manufactured to the same high-quality standards as Renold Chain. Each sprocket is carefully designed by Renold's experienced engineering team and precision-manufactured by skilled American workers using premium USA-made medium carbon steel.

Pairing Renold Chain and Sprockets in your application helps maximize productivity, reliability, and service life, delivering performance you can depend on.

LIFTING HOLE

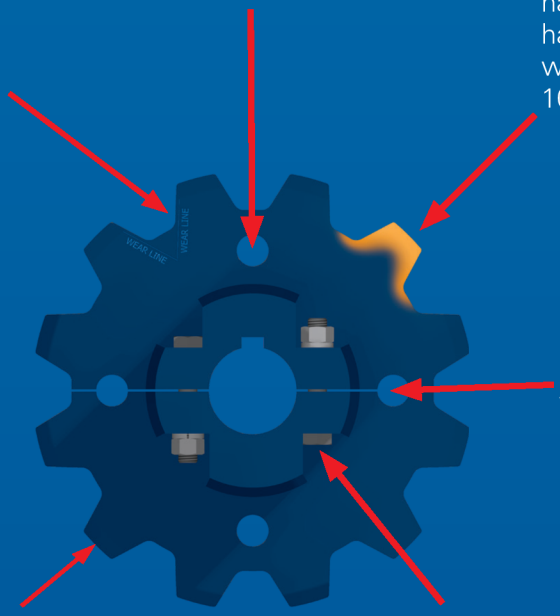
Positioned directly above the key and provide easy placement of a lifting strap, rod or other device to make sprocket installation easier and safer. Lifting holes are provided on all sprockets unless restricted by space.

FLAME HARDENED TEETH

Renold's automated, computer-controlled hardening process increases wear resistance and sprocket longevity. Our hardening process allows us to achieve precise hardness levels. All Renold sprockets have a minimum 40 Rc in all critical wear areas and utilize USA made 1045 steel plate.

WEAR LINE INDICATORS

Indicate when it is time to replace the sprockets. When the sprocket face is worn to the scribed line the sprocket needs replaced along with the chain. Wear line indicators are an easy visual tool to help guide best practices in chain sprocket and conveyor operations.



LIGHTENING HOLES

Provided on some sprockets so that weight can be reduced. Lightening holes come standard on most bucket elevator sprockets and upon customer request unless restricted by space.

MACHINED CHAMFERED TEETH

All teeth are machine chamfered at a 15 degree angle on each side of the tooth to ensure proper chain and sprocket engagement. This reduces the likelihood of sprocket and sidebar scrubbing or improper chain engagement resulting in premature, unexpected failures.

LOCKING HEAD FEATURE

Split sprockets come with a locking head feature which allow for ease of assembly. The hub holds the head of the bolt against its flat edge. This allows one tool and one person to easily torque the locking nut in place securing the sprocket to the shaft.

ADDITIONAL OPTIONS AVAILABLE

- Machined-Tooth Sprockets
- Induction-Hardened Teeth

Sprocket Selection Guide

FLAMECUT, FLAME HARDENED SPROCKETS AND TRACTION WHEELS

Flame cut, flame hardened sprockets and traction wheels are manufactured to a standard hardness of 40 Rc minimum at the surface. The inherent strength and flame hardened teeth of these sprockets provide maximum service in abrasive applications with high shock loading. The versatility of flame cut sprockets allows for specialized designs for a variety of customer requirements.

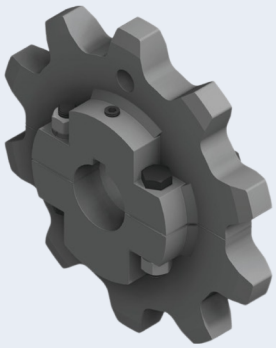
ARMORMAX SPROCKETS

For severe-duty applications, Renold offers ArmorMAX Sprockets, engineered for exceptional hardness and durability. Each ArmorMAX Sprocket is surface-hardened to a minimum of 55 Rc for enhanced wear resistance. ArmorMAX hardening is available across the entire Renold Sprocket line.



SOLID

Solid sprockets are the standard body option. This sprocket is manufactured in one piece and will need to be slid on the shaft during installation in the conveyor.



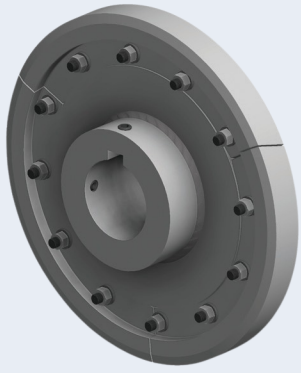
SPLIT

Split sprockets are manufactured in two pieces. They are used where ease of installation or replacement is required without disturbing the shaft, bearings or other sprockets.



SEGMENTAL

Segmental sprockets have removeable segments of teeth (sprockets) or rims (traction wheels). Rim segments may be replaced without removing the chain by rotating the sprocket until one segment is free from the chain, replacing it, then rotating to the next segment. Segmental sprockets and traction wheels can be furnished with solid or split bodies. Segments should be replaced in complete sets to ensure proper fit.



TRACTION WHEELS

Traction Wheels do not have teeth to engage the chain, consequently they rely on friction to drive the chain. Traction Wheels are normally made from medium carbon steel, but also can be made from alloy steels, as well as stainless.

Renold Theme Park Chains - Quality and Safety

- Keep your roller coasters and water rides running longer
- Proven reliability in theme parks around the world
- Excellent value for your investment
- Wide range of sizes to meet your needs - for coasters from 3.075" pitch to 6.050" pitch and water rides from 4.000" pitch to 12.4" pitch
- Heavy-duty replacement sprockets - solid, split, segmental, and traction wheels





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