/ ROLLER CHAINS



PROTORQUE®

/ Roller Chains

Protorque roller chain delivers efficient and reliable power transmission, which helps your business to minimise downtime and optimise productivity.



Protorque / Roller Chain Brochure

Protorque offers a range of roller chains, from standard options to chains designed for specialist industries.

Protorque roller chains are designed to deliver consistent strength and reliable power transfer across a broad field of industrial machinery, We offer a wide range of the most common chain sizes and types; and if you have a special requirement that is not supplied in the range, we will source or configure the correct chain for your application.

Protorque maintains strong stock availability across the range, with special variants quickly available on request.

All chains are product through a controlled and sustainable supply chain of audited OEM-grade manufacturers, ensuring specification compliance, reliability and long service performance.

/ Properties

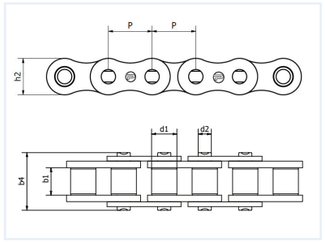
- Temperature operating range between -10°C to +80 °C with standard lubrication
- All Protorque roller chains are pre-loaded to secure minimal start up adjustments
- Standard lubrication can be used on all chains used for common types of applications, directly out of the box.
- Protorque chains are ISO606 - DIN 8187 - DIN 8188 and meet RoHS and REACH requirements.

Standard roller chain

This is a general purpose chain is suitable for a broad range of industrial applications and is often used in all different industries like material handling and wood industries. Standard roller chains are available in sizes 04B1-48B3 and with option of Protorque PLUS chain and with straight side plates.

Technical features:

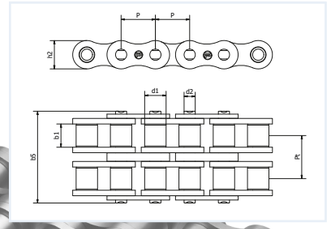
- Material: Steel
- Corrosion resistant: No
- Surface treatment: No
- Maintenance Free: No
- Lubrication: Yes





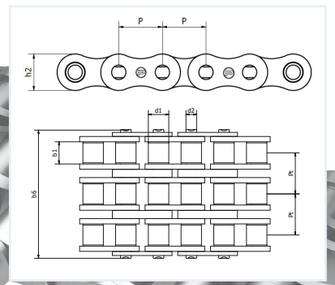
Simplex						
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	d1 max [mm]	b1 min [mm]	Breaking load supplier min.[kN]	Weight [kg/m]
04B-1	-	6	4	2,8	3	0.11
05B-1	-	8	5	3	5	0.2
06B-1*	3/8”	9.525	6.35	5.72	9	0.41
081	1/2”	12.7	7.75	3.3	8	0.28
083	1/2”	12.7	7.75	4.88	11.6	0.42
08B-1	1/2”	12.7	8.51	7.75	17.8	0.69
10B-1	5/8”	15.875	10.16	9.65	22.2	0.93
12B-1	3/4”	19.05	12.07	11.68	28.9	1.15
16B-1	1”	25.4	15.88	17.02	60	2.71
20B-1	1 1/4”	31.75	19.05	19.56	95	3.7
24B-1	1 1/2”	38.1	25.4	25.4	160	7.1
28B-1	1 3/4”	44.45	27.94	30.99	200	8.5
32B-1	2”	50.8	29.21	30.99	250	10.25
40B-1	2 1/2”	63.5	39.37	38.1	355	16.35
48B-1	3”	76.2	48.26	45.72	560	25

* with straight sideplates



Duplex							
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	d1 max [mm]	b1 min [mm]	Breaking load supplier min. [kN]	Transverse pitch pt [mm]	Weight [kg/m]
06B-2*	3/8”	9.525	6.35	5.72	16,9	10.24	0.77
08B-2	1/2”	12.7	8.51	7.75	31,1	13.92	1.34
10B-2	5/8”	15.875	10.16	9.65	44,5	16.59	1.84
12B-2	3/4”	19.05	12.07	11.68	57,8	19.46	2.31
16B-2	1”	25.4	15.88	17.02	106	31.88	5.42
20B-2	1 1/4”	31.75	19.05	19.56	170	36.45	7.2
24B-2	1 1/2”	38.1	25.4	25.4	280	48.36	13.4
28B-2	1 3/4”	44.45	27.94	30.99	360	59.56	16.6
32B-2	2”	50.8	29.21	30.99	450	58.55	21
40B-2	2 1/2”	63.5	39.37	38.1	630	72.29	32
48B-2	3”	76.2	48.26	45.72	1000	91.21	50

* with straight sideplates



Triplex							
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	d1 max [mm]	b1 min [mm]	Breaking load supplier min. [kN]	Transverse pitch pt [mm]	Weight [kg/m]
06B-3*	3/8”	9.525	6.35	5.72	24.9	10.24	1.16
08B-3	1/2”	12.7	8.51	7.75	44.5	13.92	2.03
10B-3	5/8”	15.875	10.16	9.65	66.7	16.59	2.77
12B-3	3/4”	19.05	12.07	11.68	87.6	19.46	3.46
16B-3	1”	25.4	15.88	17.02	160	31.88	8.13
20B-3	1 1/4”	31.75	19.05	19.56	250	36.45	10.82
24B-3	1 1/2”	38.1	25.4	25.4	425	48.36	20.1
28B-3	1 3/4”	44.45	27.94	30.99	530	59.56	24.92
32B-3	2”	50.8	29.21	30.99	670	58.55	31.56
40B-3	2 1/2”	63.5	39.37	38.1	950	72.29	48.1
48B-3	3”	76.2	48.26	45.72	1500	91.21	75

* with straight sideplates

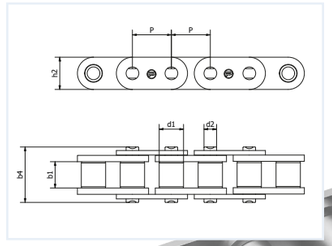
Protorque / Roller Chain Brochure

Standard roller chain - Straight side plates

The standard Protorque roller chains are available with straight side plates in sizes 08B1-24B1.

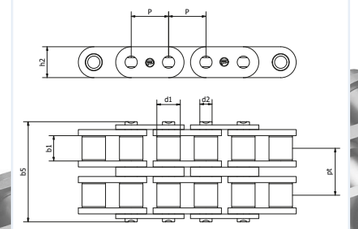
Technical features:

- Material: Steel
- Corrosion resistant: No
- Surface treatment: No
- Maintenance Free: No
- Lubrication: Yes

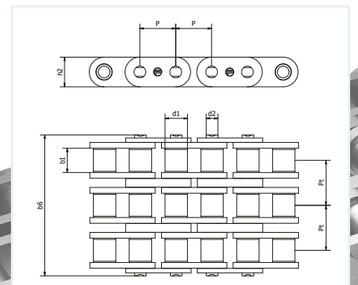




Simplex						
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	d1 max [mm]	b1 min [mm]	Breaking load ISO min. [kN]	Weight [kg/m]
08B-1	1/2”	12.7	8.51	7.75	17.8	0.69
10B-1	5/8”	15.875	10.16	9.65	22.2	0.93
12B-1	3/4”	19.05	12.07	11.68	28.9	1.15
16B-1	1”	25.4	15.88	17.02	60	2.71
16B-1	1”	25.4	15.88	17.02	60	2.71
20B-1	1 1/4”	31.75	19.05	19.56	95	3.7
24B-1	1 1/2”	38.1	25.4	25.4	160	7.1
28B-1	1 3/4”	44.45	27.94	30.99	200	8.5



Duplex							
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	d1 max [mm]	b1 min [mm]	Breaking load supplier min. [kN]	Transverse pitch pt [mm]	Weight [kg/m]
08B-2	1/2”	12,7	8,51	7,75	32	13,92	1,34
10B-2	5/8”	15,875	10,16	9,65	44,5	16,59	1,84
12B-2	3/4”	19,05	12,07	11,68	57,8	19,46	2,31
16B-2	1”	25,4	15,88	17,02	106	31,88	5,42
16B-2	1”	25,4	15,88	17,02	106	31,88	5,42
20B-2	1 1/4”	31,75	19,05	19,56	170	36,45	7,
24B-2	1 1/2”	38,1	25,4	25,4	280	48,36	13,4
28B-2	1 3/4”	44,45	27,94	30,99	360	59,56	16,6



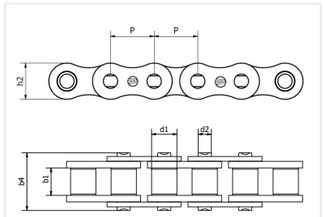
Triplex							
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	d1 max [mm]	b1 min [mm]	Breaking load supplier min. [kN]	Transverse pitch pt [mm]	Weight [kg/m]
08B-3	1/2”	12.7	8.51	7.75	44.5	13.92	2.03
10B-3	5/8”	15.875	10.16	9.65	44.5	16.59	1.84
12B-3	3/4”	19.05	12.07	11.68	57.8	19.46	2.31
16B-3	1”	25.4	15.88	17.02	106	31.88	5.42
16B-3	1”	25.4	15.88	17.02	106	31.88	5.42
20B-3	1 1/4”	31.75	19.05	19.56	250	36.45	10.82
24B-3	1 1/2”	38.1	25.4	25.4	425	48.36	20.1
28B-3	1 3/4”	44.45	27.94	30.99	530	59.56	24.92

Easy Brake

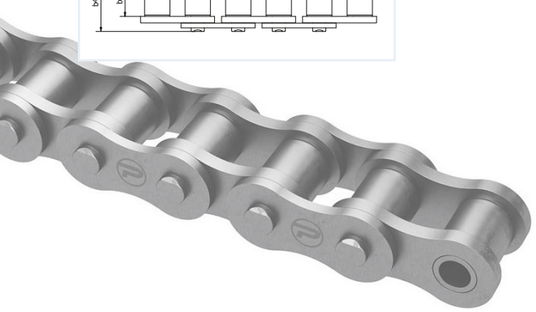
Designed, manufactured and tested for offering enhanced wear, fatigue resistance and greater precision. The chain is designed with a new hardened, shot peened wide profile plate for increased fatigue strength and a seamless cold forged solid bush and roller to give full contact between the pin, bushing and roller for higher durability. Available in size 08B16B1 and 08B-2.

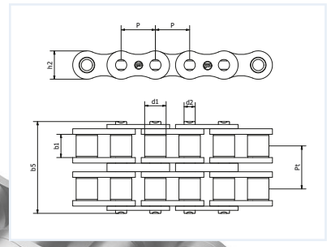
Technical features:

- Material: Steel
- Corrosion resistant: No
- Surface treatment: No
- Maintenance Free: No
- Lubrication: Yes

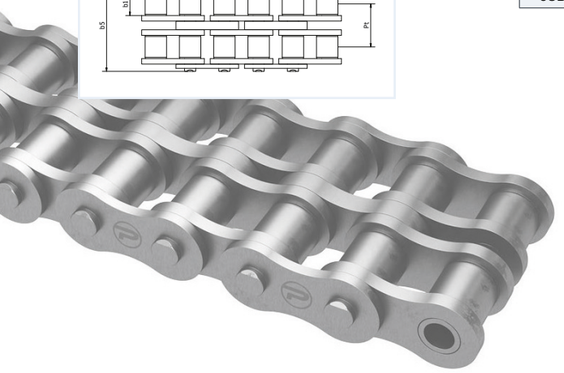


Simplex							
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	b1 min [mm]	d1 max [mm]	Plate thickness T	Breaking load supplier min [kN]	Weight [kg/m]
08B-1	1/2”	12.7	7.75	8.51	1.6	18.0 / 4091	0.69
10B-1	5/8”	15.875	9.65	10.16	1.7	22.4 / 5091	0.93
12B-1	3/4”	19.05	11.68	12.07	1.8	29.0 / 6591	1.15
16B-1	1”	25.4	17.02	15.88	4.15 / 3.1	60 / 13636	2.71





Duplex								
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	b1 min [mm]	d1 max [mm]	Plate thickness T	Breaking load supplier min. [kN]	Transverse pitch pt [mm]	Weight [kg/m]
08B-2	5/8"	15.875	9.65	10.16	1.7	44.5 / 10114	16.59	1.84



Stainless steel roller chains

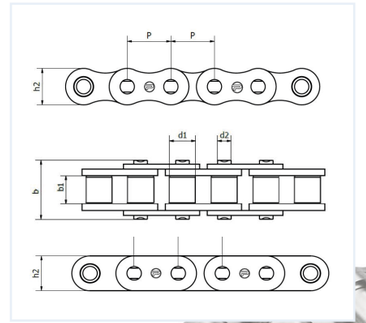
A solution when you need reliable performance in harsh environments or when there is contact with sensitive materials. Choose stainless steel design when protection against rust must be optimal. Available in sizes 06B1-16B2, as PLUS chain and with straight side plates.

Technical features:

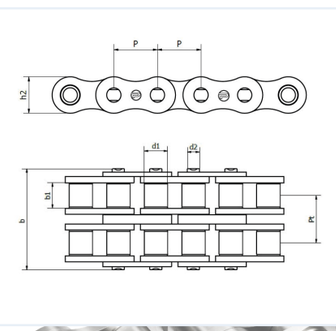
- Material: Stainless Steel
- Corrosion resistant: Yes
- Surface treatment: No
- Maintenance Free: No

Simplex						
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	d1 max [mm]	b1 min [mm]	Breaking load supplier min. [kN]	Weight [kg/m]
06B-1*	3/8"	9.525	6.35	5.72	6.2	0.41
08B-1	1/2"	12.7	8.51	7.75	12	0.7
10B-1	5/8"	15.875	10.16	9.65	14.5	0.94
12B-1	3/4"	19.05	12007	11.68	18.5	1.16
16B-1	1"	25.4	15.88	17.02	40	2.73

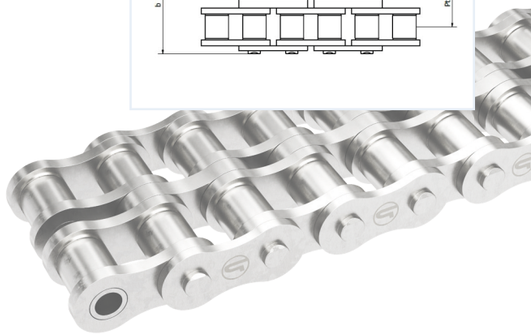
* with straight sideplates







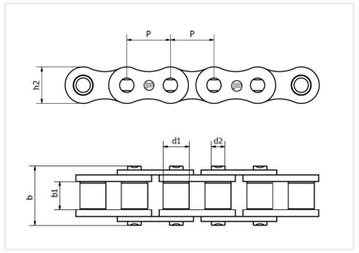
Duplex							
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	d1 max [mm]	b1 min [mm]	Breaking load supplier min. [kN]	Transverse pitch pt [mm]	Weight [kg/m]
08B-2	1/2"	12.7	8.51	7.75	21	13.92	1.4
10B-2	5/8"	15.875	10.16	9.65	14,5	16.59	0.94
12B-2	3/4"	19.05	12.07	11.68	18,5	19.45	1.16
16B-2	1"	25.4	15.88	17.02	40	31.88	2.73



Nickel plated roller chains

The best solution when you need reliable performance in harsh environments or when there is contact with sensitive materials. Choose nickel-plated when maximum strength and relatively good rust protection are required. Available in sizes 08B1 - 28B1.

Technical features:
- Material: Steel
- Corrosion resistant: Yes
- Surface treatment: Nickel plated
- Maintenance Free: No



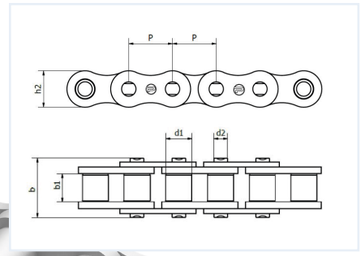


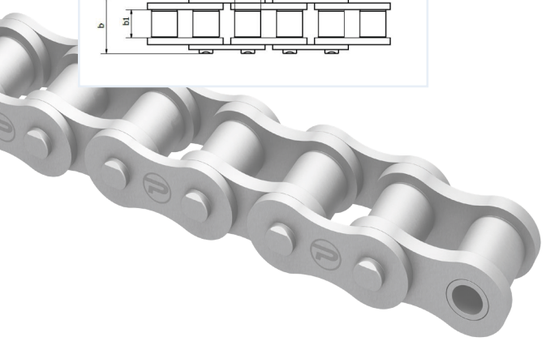
Simplex							
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	d1 max [mm]	b1 min [mm]	Breaking load supplier min. [kN]	Transverse pitch pt [mm]	Weight [kg/m]
08B-1	1/2"	12.7	8.51	7.75	18	13.92	0.69
10B-1	5/8"	15.875	10.16	9.65	22,4	16.59	0.93
12B-1	3/4"	19.05	12.07	11.68	29	19.46	1.15
16B-1	1"	25.4	15.88	17.02	60	31.88	2.71
20B-1	1 1/4"	31.75	19.05	19.56	95	36.45	3.7
24B-1	1 1/2"	38.1	25.4	25.4	160	48.36	7.1
28B-1	1 3/4"	44.45	27.94	30.99	200	59.56	8.5

Zinc plated roller chains

Corrosion resistant roller chains are your best option when you need reliable performance in tough environments, or contact with sensitive materials. Choose zinc plated when maximum strength and better rust protection are needed. Available sizes are 08B1 - 24B1.

Technical features:
- Material: Steel
- Corrosion resistant: Yes
- Surface treatment: Zinc plated
- Maintenance Free: No





Simplex						
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	d1 max [mm]	b1 min [mm]	Breaking load ISO min. [kN]	Weight [kg/m]
08B-1	1/2"	12.7	8.51	7.75	17.8	0.69
10B-1	5/8"	15.875	10.16	9.65	22.2	0.93
12B-1	3/4"	19.05	12.07	11.68	28.9	1.15
16B-1	1"	25.4	15.88	17.02	60	2.71
20B-1	1 1/4"	31.75	19.05	19.56	95	3.7
24B-1	1 1/2"	38.1	25.4	25.4	160	7.1

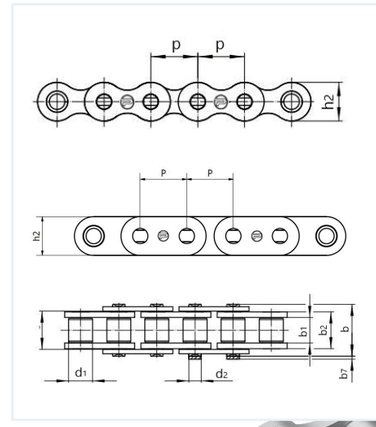
Heavy duty roller chains

Protorque heavy duty chains have thicker side plates and treated pins for heavy load applications. Available in sizes in both ASA and European standard.

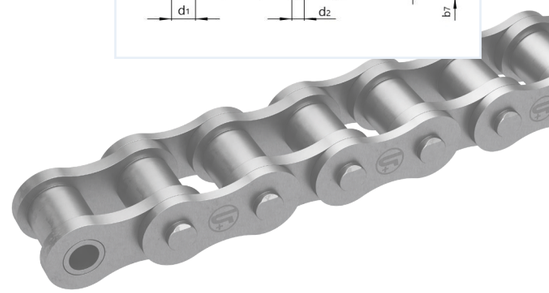
Technical features:
- Material: Steel
- Corrosion resistant: No
- Surface treatment: No
- Maintenance Free: No

Simplex ASA							
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	b1 min. [mm]	d1 max. [mm]	Bearing area [cm²]	Breaking load supplier min. [kN]	Weight [kg/m]
50H-1	5/8"	15,875	9,4	10,16	0,75	22,2	1,25
60H-1*	3/4"	19,05	12,57	11,91	1,16	31,8	1,87
60H-1	3/4"	19,05	12,57	11,91	1,16	31,8	1,87
100H-1	1 1/4"	31,75	18,9	19,05	2,77	88,5	4,52
120H-1	1 1/2"	38,1	25,22	22,23	4,13	127	6,6
140H-1	1 3/4"	44,45	25,22	25,4	4,94	172,4	8,3
160H-1	2"	50,8	31,55	28,58	6,7	226,8	10,3

* with straight sideplates



Simplex BS						
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	b1 min. [mm]	d1 max. [mm]	Breaking load supplier min. [kN]	Weight [kg/m]
12BH-Y2	3/4"	19,05	11,68	12,07	44	1,48
16BH-F2	1"	25,4	17,02	15,88	80	3,29

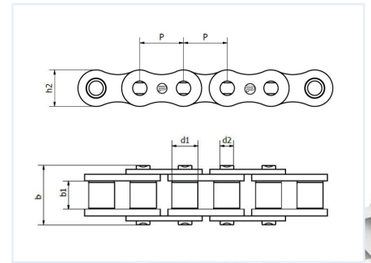


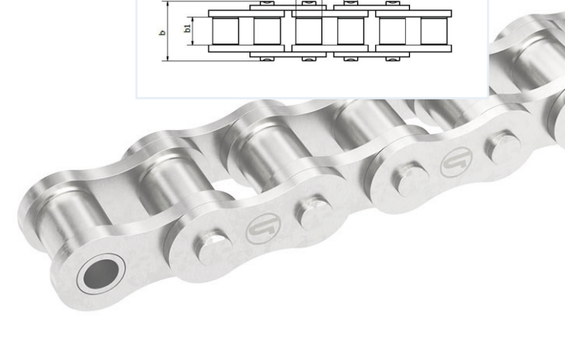
FCM approved roller chains

Our authorised distributors stock a large selection of food-approved chains in stainless steel. These chains are approved for use in food production by the relevant authorities. The production is documented and each chain can be traced back to the production of the raw material.

Technical features:
- Material: Stainless Steel
- Corrosion resistant: Yes
- Surface treatment: No
- Maintenance Free: No

Simplex						
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	d1 max [mm]	b1 min [mm]	Breaking load supplier min. [kN]	Weight [kg/m]
06B-1*	3/8"	9.525	6.35	5.72	6,2	0.41
08B-1	1/2"	12.7	8.51	7.75	12	0.7
10B-1	5/8"	15.875	10.16	9.65	14,5	0.94
12B-1	3/4"	19.05	12.07	11.68	18,5	1.16
16B-1	1"	25.4	15.88	17.02	40	2.73



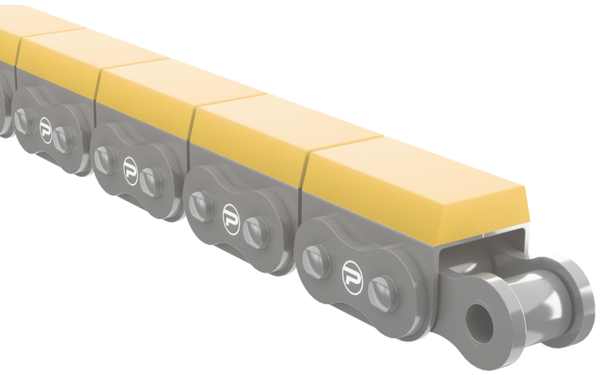


Rubber top roller chains

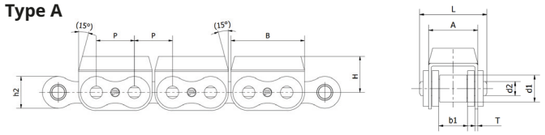
These chains are available in simplex design sizes 08B-1 to 16B-1 and duplex design 08B-2 to 10B-2. It's unique profile with vulcanised elastomer makes this chain ideal for applications where fragile goods require gentle conveyor handling.

Technical features:
- Material: Steel
- Corrosion resistant: No
- Surface treatment: No
- Maintenance Free: No
- Lubrication: No

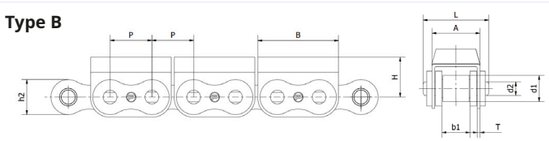
Simplex													
ISO standard size	Rubber type	Pitch, p [inch]	Pitch, p [mm]	d1 max [mm]	b1 min [mm]	d2 max [mm]	h2 max [mm]	L max [mm]	Attachement width A	Attachment length B	Attachment height H	Attachment plate thickness T	Breaking load ISO min. [kN]	Weight [kg/m]
08B-1	A	1/2"	12.7	8.51	7.75	4.45	11.8	20	14.6	24.2	12.3	1.6	18	1.19
10B-1	B	5/8"	15.875	10.16	9.65	5.08	14.7	23.2	16.8	30	17	1.6	19	1.62
12B-1	B	3/4"	19.05	12.07	11.68	5.72	16	25.7	19.6	36	21	1.85	29	2.01
16B-1	B	1"	25.4	15.88	17.02	8.28	21	39.7	29.05	49	21.4	1.6	58	3.95
16B-1	C	1"	25.4	15.88	17.02	8.28	21	39.7	29.05	49	21.4	1.6	58	3.95



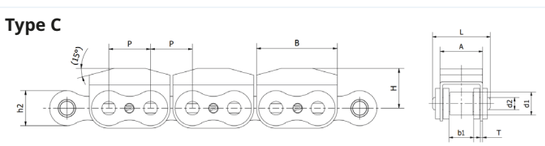
Type A



Type B



Type C



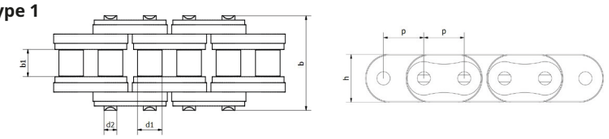
Roller chain with plastic attachments

Plastic chains are light weight yet a strong and silent alternative to steel chains. These chains are used in many industries but mainly in wood, food and packaging industries for conveying in various types.

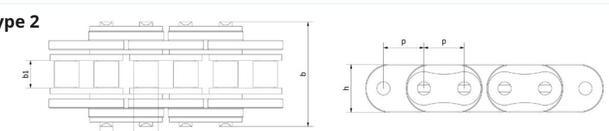
Technical features:
- Material: Steel
- Corrosion resistant: No
- Surface treatment: No
- Maintenance Free: No
- Lubrication: No

Simplex											
ISO standard size	Pitch, p [inch]	Pitch, p [mm]	b1 min [mm]	d1 max [mm]	d2 max [mm]	h max [mm]	b max [mm]	Bearing [cm2] area	Breaking load supplier min [kn]	Weight [kg/m]	Connecting Links
16B1-1	1"	25.4	17.02	15.88	8.28	30	61	2.1	60	3.7	11 / 111
16B1-1	1"	25.4	17.02	15.88	8.28	30	71	2.1	60	4.1	111

Type 1



Type 2





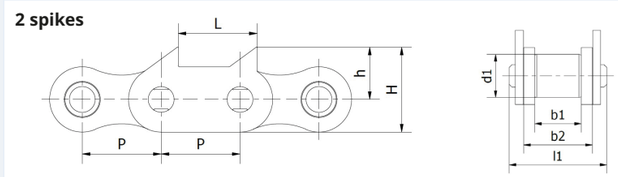
Lumber chains

Our protorque lumber chains have the perfect design for usage within the sawmill industries. We stock an asortment of the most common sizes executions. Available in stock 12B-32B. Other types and sizes are available upon request.

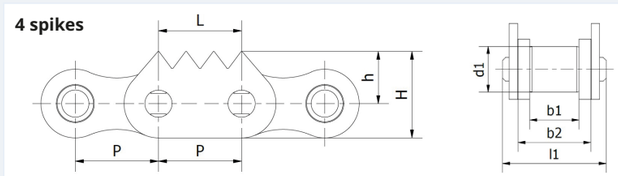
Technical features:
- Chain design: Simple
- Material: Steel
- Execution: A
- Welded pin: No
- Welded brush: No

Lumber chains													
ISO standard size	Chain Design	Pitch, p [inch]	Pitch, p [mm]	h [mm]	H [mm]	L [mm]	Spikes on outerlink	Spikes on inner link	Bearing area [cm2]	Breaking load ISO min [kn]	Breaking load supplier min [kn]	Weight [kg/m]	Connecting Links
12B-1	Simplex	3/4"	19.05	13	21	19.05	2	-	0.89	28.9	29	1.15	111
12B-1	Simplex	3/4"	19.05	13.5	21.5	-	4	4	0.89	28.9	29	1.15	11
16-B1	Simplex	1"	25.4	17	27.5	25.4	2	-	2.1	60	60	2.71	11 / 111
16-B1	Simplex	1"	25.4	16	26.5	-	4	-	2.1	60	60	2.71	111
16-B1	Simplex	1"	25.4	16	26.5	-	4	4	2.1	60	60	2.71	111
16-B2	Duplex	1"	25.4	15	25.5	-	4	-	4.21	106	106	5.42	111
16-B2	Duplex	1"	25.4	15	25.5	-	4	4	4.21	106	106	5.42	111

2 spikes

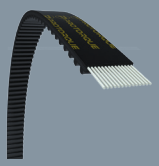


4 spikes





/ Discover the Protorque® Range



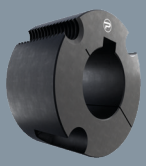
V, Wedge & Timings Belts



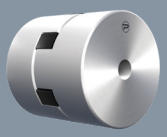
Roller & Conveyor Chain



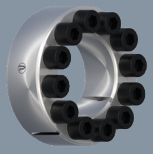
V-Belt Pulleys



Taper Bushes



Industrial Couplings



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