

PULTON



CHAIN PRODUCTS

PULTON

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Caution

The chains and parts described here have been manufactured with great care. However, improper selection, handling and maintenance may result in a breakage or wreckage of the chain and cause a serious accident. Accordingly, please refer to the manual regarding selection, handling and maintenance of the products. Please contact us for more details.

Pulton Chain Co., Inc.

Company Profile

Established in 1927, Pulton Chain Co., Inc. started as a company producing mainly bicycle chains. These bicycle chains were eventually known worldwide as "PULTON" -- a word coined from "pulling 1 ton." Our bicycle chains were of such high quality that they were indeed capable of pulling a ton.

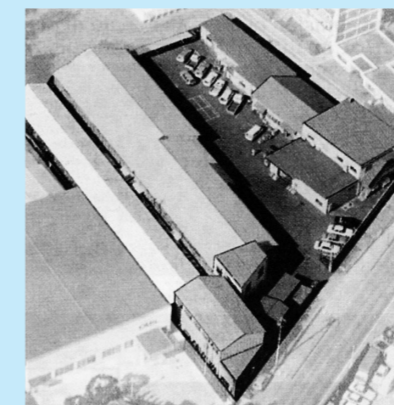
Since then, the company has developed various types of chains such as those for power transmissions and conveyors. We have further expanded the scope of our production starting in 1978 to include the manufacture of slide rails which can be used for a wide range of applications for linear conveyor parts of office equipment.

Through the years, we have maintained the same spirit by which our company has been founded and established, and the tradition of high quality for which we are presently known worldwide.

Our reputation for high-quality products has spread far and wide among industries in Japan and to many countries where we have exported them.

We continue to strive for product excellence so as to keep the trust and satisfaction of our customers. Our ISO 9001:2000 certification which we obtained in February 2002 attests to this commitment.

At Pulton chain Co., Inc. we endeavor to continually improve our products to make them highly competitive in the 21st century.



Head Office & Kawaguchi Factory



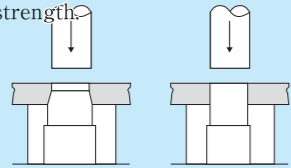
Tone Factory

Pulton's Roller Chain

The roller chains prescribed by ANSI Standard does not differ from most of the products of other manufacturers as to the dimensions such as chain pitch, degree of hardness, etc. However, Pulton's roller chain, which has been developed based on the actual needs and requirements of the users, even up to the smallest details. Once practically used, one will know and appreciate its actual value. Here, we shall introduce some of its special features.

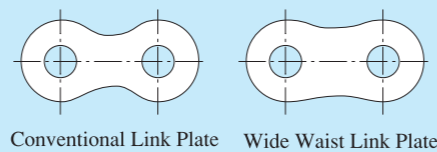
Double-punched Link Holes

Pulton's double-punching process removes the taper of the link hole. Both ends of the hole are parallel providing optimum fit between pin, bushing and link plate. This process increases fatigue strength.



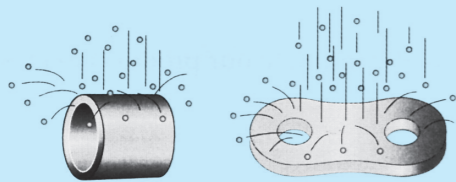
Wide Waist Link Plate

A wider waist on the link plates ensure fatigue strength compared with conventional type link plates.



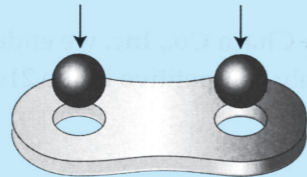
Shot Peening

Fatigue strength is enhanced by shot peening process.



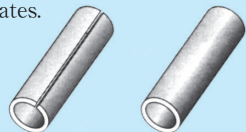
Ball Drifting

Ball drifting creates precise and controlled holes of the link plates to improve fatigue resistance and enhance wear performance.



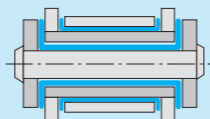
Solid Bushing

Adapting rigid solid bushing enhances wear resistance with a seamless smooth surface and excellent roundness. Whereas the split bushings sometimes form unstable contact points between pins and bushings when pressed into the inner plates.



Pre-lubrication

The abrasion of the roller chain depends largely on the quality of the lubricating oil. Based on many years of research at Pulton, we have developed an original lubricating oil that is excellent for abrasion resistance.



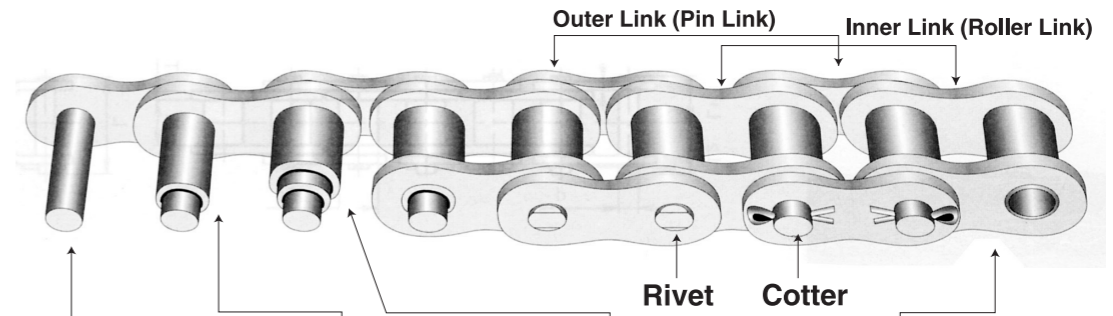
ISO Certified Manufacturing Company

To date, we manufacture our products based on Pulton's own strict quality control measures, i.e. on top of the Japanese Industrial Standards (JIS). In addition, Pulton has earned the ISO 9001:2000 certification which is the International Standard of Quality Assurance --- proof of our dedication to provide the needs of our customers through our high quality products and services.



Chain Construction and Components

Roller chain consists of pins, bushings, rollers and link plates as illustrated below.

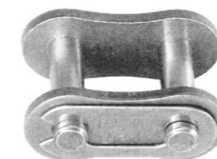


Pin requires to have a high wear resistance and shearing strength to support all the load acting on the chain.

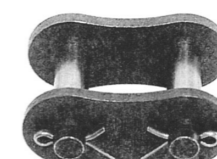
Bushing receives massive forces from other components of the chains and requires wear resistance and fatigue strength.

Roller requires high shock strength, collapse strength and wear resistance to protect the chain from heavy shock of the sprocket and also in order to bend the chains smoothly when engaged with the sprocket.

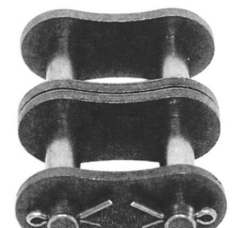
Link Plate receives direct tension of the chain with occasional large shock on power transmission. Therefore, requires high tensile strength, shock resistance and fatigue strength.



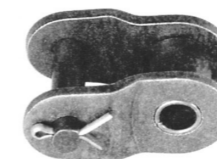
Connecting Link (Spring Clip type)



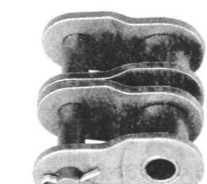
Connecting Link (Cotter Pin type)



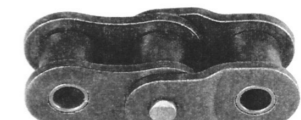
Connecting Link (Duplex)



Offset Link



Offset Link (Duplex)



Two Pitch Offset Link

Connecting Link allows easy installation or removal of a roller chain with an even number of pitches. Spring Clips or Cotter Pins are used to retain the connecting pins.

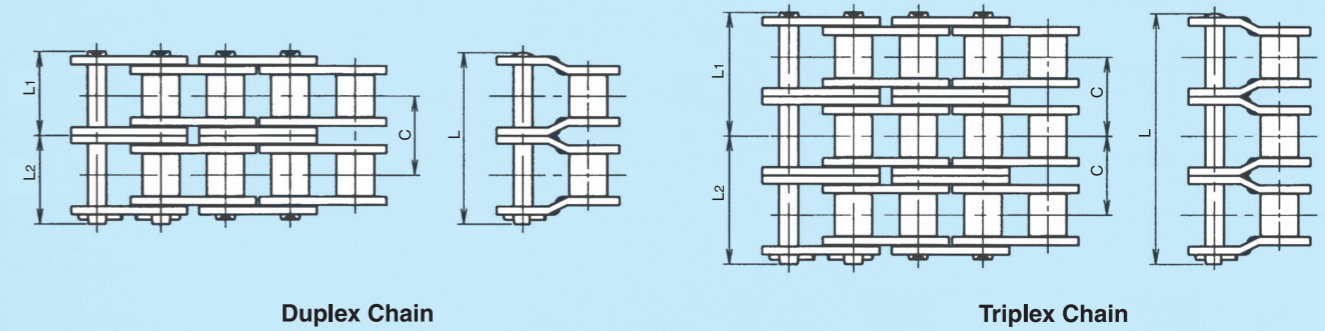
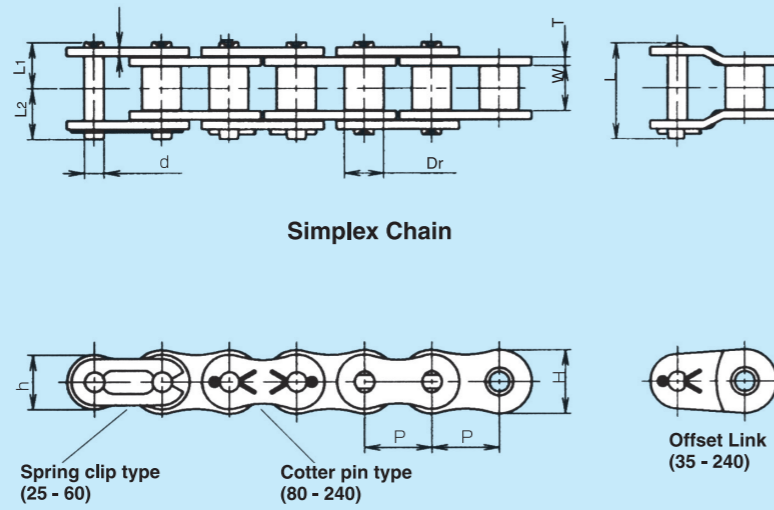
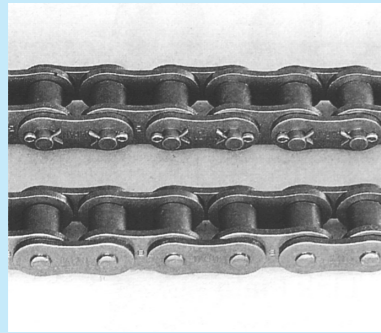
Offset Link are used to adjust the lengths of the chain with an odd number of pitches. (It is not recommended to use Offset Link. Whenever possible use the chain with an even number of pitches.)

Two Pitch Offset Link is a combination of an inner link and offset link, which is stronger than One Pitch Offset Link.

ANSI Standard Roller Chains - Single Strand

ANSI Standard Roller Chains - Multiple Strand

Pulton Standard Roller Chains range from No. 25 to No. 240 and conform with the ANSI (American National Standards Institute).
The chains are widely used as general application chains from low speed to high speed.



Dimensions - mm

PULTON Chain No. (ANSI No.)	Pitch P	Roller Dia. Dr	Width Between Inner Plates W	Pin			Link Plate			Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight kg/m	
				Dia. d	Length		Height		Thickness T				
					L1	L2	L	H					h
25	6.35	3.3	3.2	2.31	3.9	4.8	—	5.85	5.2	0.75	4.7	0.69	0.13
35	9.525	5.08	4.8	3.59	6.1	6.7	13.1	9	7.8	1.25	11.6	2.16	0.36
41	12.7	7.77	6.4	3.58	6.8	8	14.8	9.7	8.1	1.25	11.8	2.06	0.41
40	12.7	7.92	7.95	3.98	8.1	9.7	18.3	12	10.4	1	19.1	3.73	0.66
50	15.875	10.16	9.55	5.09	10.4	12.1	22.5	15	13	2	31.9	6.18	1.08
60	19.05	11.91	12.7	5.96	12.7	14.7	27.9	18	15.6	2.4	44.1	8.63	1.6
80	25.4	15.88	15.9	7.94	16.3	19.7	37.7	24.1	20.8	3.2	74.5	14.7	2.71
100	31.75	19.05	19.05	9.54	19.7	23	45.2	30.1	26	4	118	22.6	4.08
120	38.1	22.23	25.4	11.11	24.7	28.2	56.5	36.2	31.2	4.8	167	31.4	6
140	44.45	25.4	25.4	12.71	26.45	31.35	57.8	42.2	36.4	5.6	216	41.2	7.68
160	50.8	28.58	31.75	14.29	31.45	36.45	67.9	48.2	41.6	6.4	275	53	10.25
180	57.15	35.71	35.72	17.46	35.6	41.7	77.3	54.2	46.8	7.1	363	60.8	13.75
200	63.5	39.68	38.1	19.85	38.9	46	84.9	60.3	52	8	471	71.6	16.87
240	76.2	47.63	47.63	23.81	47.2	54.8	102	72.4	62.4	9.5	677	97.1	24.62

Note: 1) *Indicating bush chains.
2) Cottered construction is available from Chain No. 40.

Dimensions - mm

PULTON Chain No. (ANSI No.)	Pitch P	Pin			Transverse Pitch C	Average Tensile Strength kN	Approx. Weight kg/m	PULTON Chain No. (ANSI No.)	Pitch P	Pin			Transverse Pitch C	Average Tensile Strength kN	Approx. Weight kg/m	
		Length								Length						
		L1	L2	L						L1	L2	L				
25-2	6.35	7.1	8	—	6.4	9.41	0.27	120-2	38.1	47.4	50.9	98.3	45.4	333	11.93	
25-3		10.3	11.2	—		14.1	0.4	120-3		70.1	73.6	143.7		500	18.01	
35-2	9.525	11.15	11.75	23.2	10.1	23.1	0.7	120-4		92.8	96.3	189.1		48.9	667	24.12
35-3		16.2	16.8	33.3		34.7	1.03	120-5		115.5	119	234.5			834	30.25
35-4		21.25	21.85	43.4		46.3	1.37	120-6		138.2	141.7	279.9			1000	36.38
40-2		15.3	16.9	32.7		38.2	1.3	140-2		50.9	55.8	106.7			431	15.23
40-3	22.5	24.1	47.1	57.4	1.94	140-3	75.35	80.25	155.6	647	22.77					
40-4	12.7	29.7	31.3	61.5	14.4	76.5	2.59	140-4	99.8	104.7	204.5	58.5	863	30.36		
40-5		36.9	38.5	75.9		95.6	3.23	140-5	124.25	129.15	253.4		1079	37.94		
40-6		44.1	45.7	90.3		115	3.87	140-6	148.7	153.6	302.3		1294	45.52		
50-2	15.875	19.45	21.15	40.6	18.1	63.7	2.13	160-2	60.7	65.7	126.4	57.15	549	20.23		
50-3		28.5	30.2	58.7		95.6	3.18	160-3	89.95	94.95	184.9		824	30.26		
50-4		37.55	39.25	76.8		127	4.23	160-4	119.2	124.2	243.4		1098	40.32		
50-5		46.6	48.3	94.9		159	5.28	160-5	148.45	153.45	301.9		1373	50.38		
50-6		55.65	57.35	113		191	6.32	160-6	177.7	182.7	360.4		1648	60.44		
60-2		19.05	24.1	26.1		50.7	22.8	88.3	3.1	180-2	68.5		74.6	143.1	63.5	726
60-3	35.5		37.5	73.5	132	4.6		180-3	101.4	107.5	208.9	1089	40.9			
60-4	46.9		48.9	96.3	177	6.2		180-4	134.3	140.4	274.7	1451	50.36			
60-5	58.3		60.3	119.1	221	7.7		180-5	167.2	173.3	340.5	1814	68.05			
60-6	69.7		71.7	141.9	265	9.2		180-6	200.1	206.2	406.3	2177	81.62			
80-2	25.4		30.95	33.45	67	29.3		149	5.4	200-2	74.7	81.8	156.5	57.15		941
80-3		45.6	48.1	96.3	224		8.08	200-3	110.5	117.6	228.1	1412	50.14			
80-4		60.25	62.75	125.6	298		10.75	200-4	146.3	153.4	299.7	1883	66.78			
80-5		74.9	77.4	154.9	373		13.44	200-5	182.1	189.2	371.3	2354	83.41			
80-6		89.55	92.05	184.2	447		16.12	200-6	217.9	225	442.9	2824	100			
100-2		31.75	37.6	40.9	78.5		35.8	235	7.94	240-2	91.1	98.7	189.8		76.2	1353
100-3	55.5		58.8	114.3	353	11.89		240-3	135	142.6	277.6	2030	73.26			
100-4	73.4		76.7	150.1	471	15.84		240-4	178.9	186.5	365.4	2707	97.58			
100-5	91.3		94.6	185.9	588	19.81		240-5	222.8	230.4	453.2	3383	121.9			
100-6	109.2		112.5	221.7	706	23.77		240-6	266.7	274.3	541	4060	146.22			

Note: *Indicating bush chains.

Stainless Steel, Nickel-plated Roller Chains

Stainless Steel Chains are manufactured from AISI type 304 stainless steel. Stainless Chains are ideal for acidic or alkaline environments, or where chains are exposed to water. The chains can also operate over a wide range of temperature from -40°C up to +400°C.

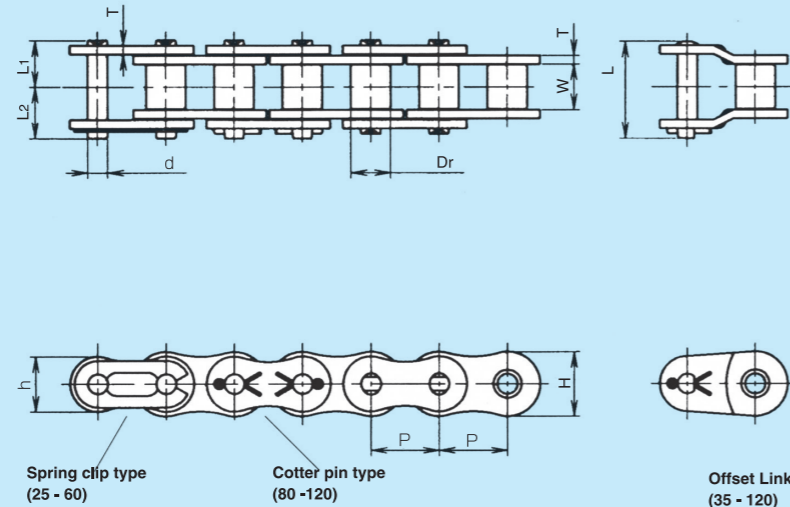
Nickel-plated Roller Chains are resistant to corrosion and are suitable for outdoor operations or in a mildly corrosive atmosphere. The chains have smooth and glossy finish.



Stainless Roller Chains



Nickel-plated Roller Chains



Stainless Roller Chains

Dimensions - mm

PULTON Chain No.	Pitch P	Roller Dia. Dr	Width Between Inner Plates W	Pin			Link Plate			Maximum Allowable Load kN	Approx. Weight kg/m	
				Dia. d	Length		Height		Thickness T			
					L1	L2	L	H				h
*25SS	6.35	3.3	3.2	2.31	3.8	4.4	—	5.85	5.2	0.75	0.12	0.14
*35SS	9.525	4.8	5.08	3.59	6.05	7.15	14.7	9	7.8	1.25	0.29	0.33
40SS	12.7	7.92	7.95	3.98	8.25	9.65	18.6	12	10.4	1.5	0.44	0.64
50SS	15.875	9.55	10.16	5.09	10.3	11.9	23.9	15	13	2	0.74	1.04
60SS	19.05	12.7	11.91	5.96	12.85	15.25	29.4	18	15.6	2.4	1.03	1.53
80SS	25.4	15.88	15.88	7.94	16.15	19.25	35.4	24.1	20.8	3.2	1.77	2.78
100SS	31.75	19.05	19.05	9.54	19.7	23	42.7	30.1	26	4	2.55	4.23
120SS	38.1	22.23	25.4	11.11	25.1	28.6	53.7	36.2	31.2	5	3.82	6.36

Note: 1) *Indicating bush chains.
2) Stainless Steel Roller Chains manufactured from SUS316 are also available upon request.

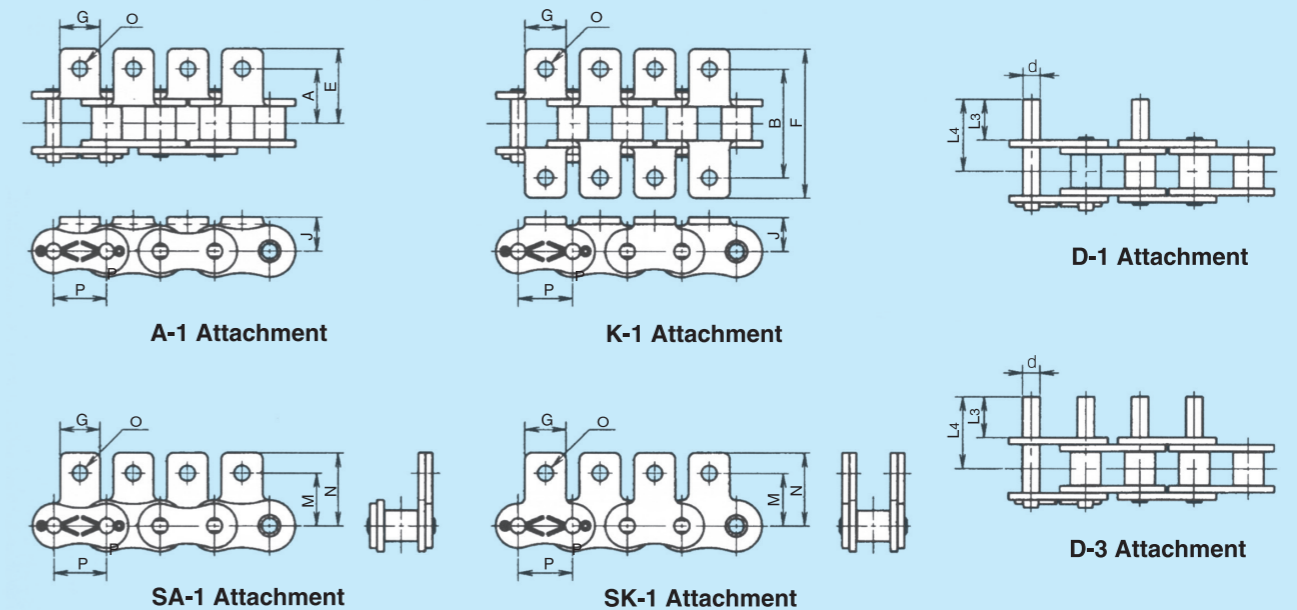
Nickel-plated Roller Chains

Dimensions - mm

PULTON Chain No.	Pitch P	Roller Dia. Dr	Width Between Inner Plates W	Pin			Link Plate			Average Tensile Strength kN	Approx. Weight kg/m	
				Dia. d	Length		Height		Thickness T			
					L1	L2	L	H				h
*25NP	6.35	3.3	3.2	2.31	3.9	4.8	—	5.85	5.2	0.75	4.02	0.13
*35NP	9.525	4.8	5.08	3.59	6.1	6.7	13.1	9	7.8	1.25	9.02	0.36
40NP	12.7	7.92	7.95	3.98	8.1	9.7	18.3	12	10.4	1.5	15.97	0.66
50NP	15.875	9.55	10.16	5.09	10.4	12.1	22.5	15	13	2	24.89	1.08
60NP	19.05	12.7	11.91	5.96	12.7	14.7	27.9	18	15.6	2.4	36.26	1.4
80NP	25.4	15.88	15.88	7.94	16.15	19.25	37.05	24.1	20.8	3.2	63.7	2.71
100NP	31.75	19.05	19.05	9.54	19.7	23	45.2	30.1	26	4	98.98	4.08
120NP	38.1	22.23	25.4	11.11	24.7	28.2	56.5	36.2	31.2	4.8	144	6

Note: *Indicating bush chains.

ANSI Roller Chains with Attachments

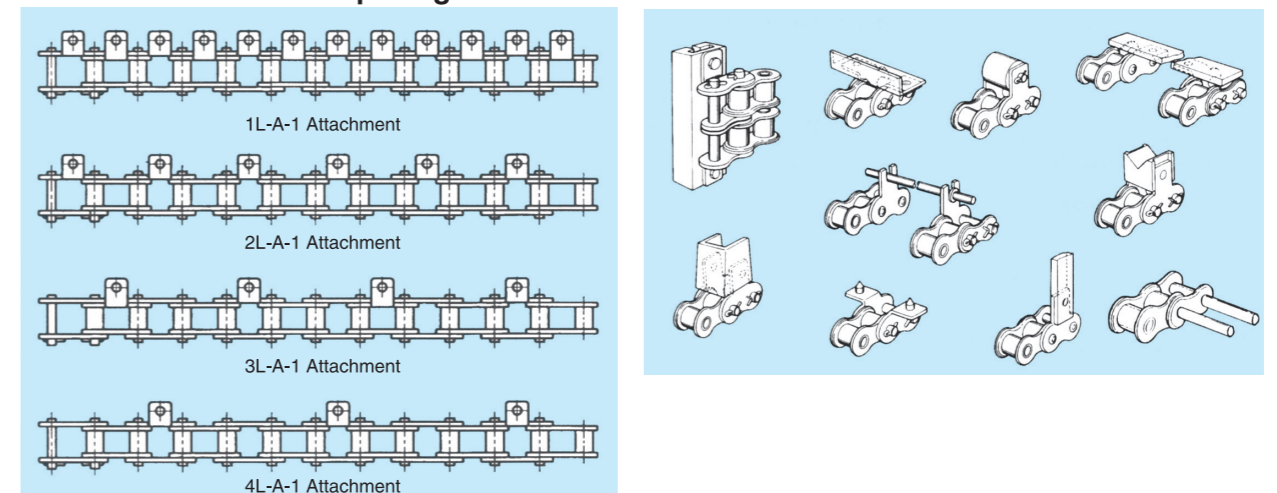


Dimensions- mm

PULTON Chain No.	Pitch P	Attachment Dimensions												Additional Weight per Attachment (g)			
		A	E	G	J	O	B	F	M	N	D	L3	L4	A	SA	K	SK
25	25SS	6.35	7.15	9.9	5.6	4.8	3.4	14.3	19.8	7.9	11.65	2.31	6	9.3	0.3	0.6	0.2
35	35SS	9.525	9.5	12.9	7.9	6.4	3.4	19	25.8	9.5	14.7	3.59	9.5	14.6	0.8	1.6	0.7
40	40SS	12.7	12.7	17.55	9.5	7.9	3.6	25.4	35.1	12.7	19.05	3.97	9.5	16.7	2	4	0.8
50	50SS	15.875	15.9	23.1	12.7	10.3	5.2	31.8	46.2	15.9	25.25	5.09	11.9	21	4	8	2
60	60SS	19.05	19.05	27.8	15.9	11.9	5.2	38.1	55.6	18.3	29.33	5.96	14.3	25.8	7	14	3
80	80SS	25.4	25.4	34.95	19.1	15.9	7.2	50.8	69.9	24.6	34.1	7.94	19	33.55	11	22	7
100	100SS	31.75	31.75	44.2	25.4	19.8	8.8	63.5	88.4	31.8	43.3	9.54	23.8	41.6	23	46	12
120	120SS	38.1	38.1	54.39	28.6	23	10.5	76.2	108.78	36.6	51.6	11.11	28.6	51.2	36	72	20
		38.1	38.1	54.7	28.6	23	0.5	76.2	109.4	36.6	51.6	11.11	28.6	51.6	38	76	20
140		44.45	44.45	61.3	34.9	28.6	12	88.9	122.6	44.4	61.9	12.71	33.3	57.6	63	126	31
160		50.8	50.8	71.46	38.1	31.8	14	101.6	142.92	50.8	69.9	14.29	38.1	67.2	88	176	45

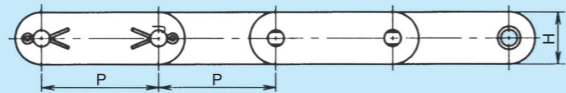
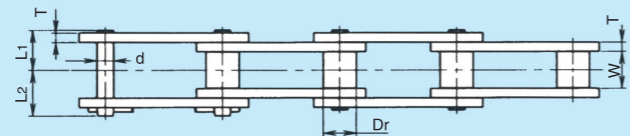
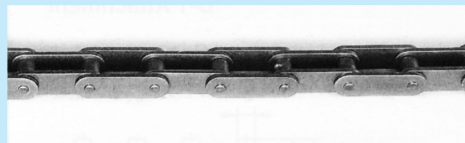
Note: Excluding its attachments, the dimensions conform with the dimensions of ANSI Standard and Stainless Steel Roller Chains. (Refer to page 5, 7)

Attachment Spacing

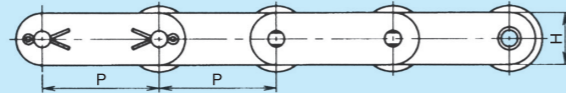
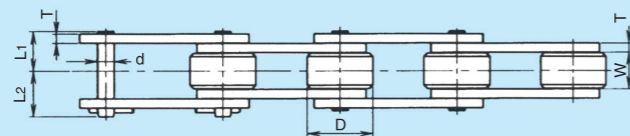
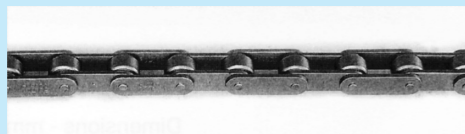


Double Pitch Roller Chains

Double Pitch Roller Chains have twice the pitch as standard roller chains with the pins, bushings and rollers unchanged. The prefix "C" means conveyor type and "H" suffix means heavy style link plates which have extra thickness. In general, these chains are operated for longer distances at a low speed compared with transmission chains for conveyor systems.



C2000 Type (C2040 - C2160H)



C2002 Type (C2042 - C2162H)

Double Pitch Roller Chains

Dimensions - mm

PULTON Chain No.	Pitch P	Roller Dia.		Width Between Inner Plates W	Pin			Link Plate		Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight kg/m		
		Dr	D		Dia. d	Length		Height H	Thickness T			C2000 Type	C2002 Type	
						L1	L2							
C2040	C2042	25.4	7.92	15.88	7.95	3.98	8.1	9.7	12	1.5	16.66	2.74	0.51	0.87
C2050	C2052	31.75	10.16	19.05	9.55	5.09	10.4	12.1	15	2	27.93	4.51	0.87	1.35
C2060H	C2062H	38.1	11.91	22.23	12.7	5.96	14.3	16.5	17.2	3.2	40.18	6.27	1.51	2.19
C2080H	C2082H	50.8	15.88	28.58	15.88	7.94	17.75	20.85	22.6	4	65.66	10.78	2.36	3.42
C2100H	C2102H	63.5	19.05	39.67	19.05	9.54	21.3	24.6	28.6	4.8	107.8	17.15	3.54	5.69
C2120H	C2122H	76.2	22.23	44.45	25.4	11.11	26.4	29.9	35	5.6	151.9	24.01	5.14	8.12
C2160H	C2162H	101.6	28.58	57.15	31.75	14.29	33.1	38.1	48	7.2	254.8	41.16	8.83	13.46

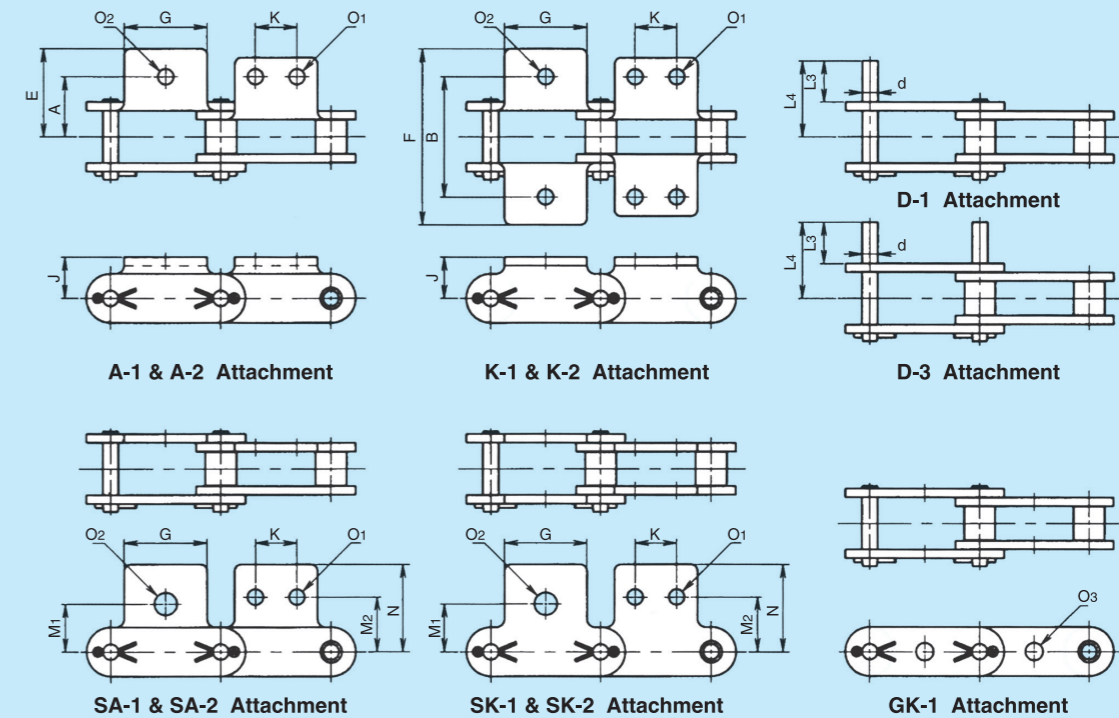
Note: Nickel-plated Double Pitch Roller Chains are available. The dimensions likewise conform with the above.

Stainless Steel Double Pitch Roller Chains

Dimensions - mm

PULTON Chain No.	Pitch P	Roller Dia.		Width Between Inner Plates W	Pin			Link Plate		Maximum Allowable Load kN	Approx. Weight kg/m		
		Dr	D		Dia. d	Length		Height H	Thickness T		C2000 Type	C2002 Type	
						L1	L2						
C2040SS	C2042SS	25.4	7.92	15.88	7.95	3.98	8.2	10.2	12	1.5	0.44	0.51	0.87
C2050SS	C2052SS	31.75	10.16	19.05	9.55	5.09	10.4	12.1	15	2	0.74	0.87	1.35
C2060HSS	C2062HSS	38.1	11.91	22.23	12.7	5.96	14.3	17	17.2	3.2	1.03	1.51	2.19
C2080HSS	C2082HSS	50.8	15.88	28.58	15.88	7.94	17.75	20.85	22.6	4	1.76	2.36	3.42
C2100HSS	C2102HSS	63.5	19.05	39.67	19.05	9.54	21.7	25	28.6	5	2.55	3.8	6
C2120HSS	C2122HSS	76.2	22.23	44.45	25.4	11.11	27.2	30.7	35	6	3.82	5.63	8.68

Double Pitch Roller Chains with Attachments



Dimensions - mm

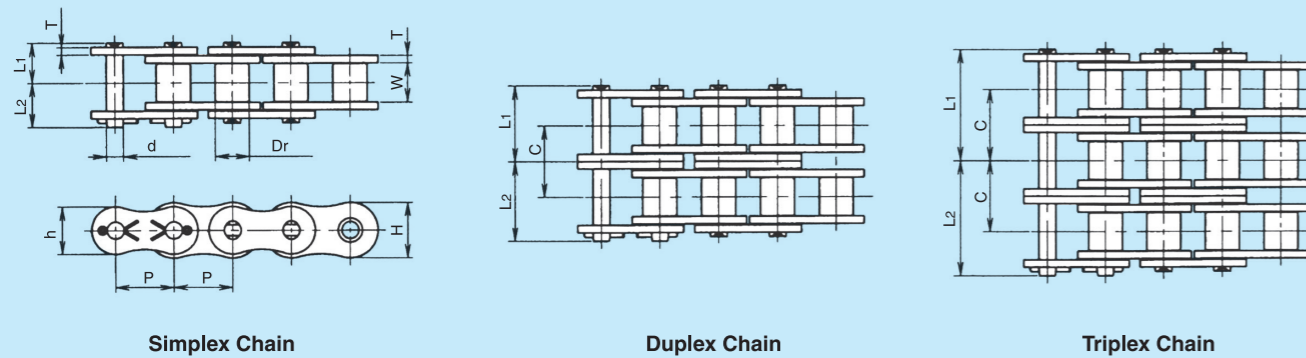
PULTON Chain No.	Pitch P	Attachment Dimensions												
		G	J	E	A	K	O1	F	B	N	M1	M2	O2	
C2040	C2040SS	25.4	19.1	9.1	19.8	12.7	9.5	3.6	39.6	25.4	20.5	11.1	13.5	5.2
C2050	C2050SS	31.75	23.8	11.1	24.5	15.9	11.9	5.2	49	31.8	25	14.3	15.9	6.8
C2060H	C2060HSS	38.1	28.6	14.7	33.9	21.45	14.3	5.2	67.8	42.9	32.9	17.5	19	8.8
C2080H	C2080HSS	50.8	38.1	19.1	40.8	27.8	19.1	7.2	81.6	55.6	40.5	22.2	25.4	10.5
C2100H	C2100HSS	63.5	47.6	23.4	50	33.3	23.8	8.8	100	66.6	50.4	28.6	31.8	14.3
	C2120H	76.2	57.2	27.8	60.7	39.7	28.6	10.5	121.4	79.4	61.2	33.3	37.3	16.3
C2160H	C2120HSS	76.2	57.2	27.8	61.4	39.7	28.6	10.5	122.8	79.4	61.2	33.3	37.3	16.3
	C2160H	101.6	76.2	36.5	77.8	52.4	38.1	14.3	155.6	104.7	79.3	44.4	50.8	21.8

PULTON Chain No.	Pitch P	Attachment Dimensions				Additional Weight per Attachment(g)			
		d	L3	L4	O3	A·SA	K·SK	D	
C2040	C2040SS	25.4	3.98	9.5	16.8	4.1	3	6	0.8
C2050	C2050SS	31.75	5.09	11.9	21.1	5.2	6	12	2
C2060H	C2060HSS	38.1	5.96	14.3	27.5	6.2	17	34	3
C2080H	C2080HSS	50.8	7.94	19	35.2	8.1	39	78	7
C2100H	C2100HSS	63.5	9.54	23.8	43.2	10.1	72	144	12
	C2120H	76.2	11.11	28.6	52.9	12.1	121	242	20
C2160H	C2120HSS	76.2	11.11	28.6	53.7	12.1	134	268	20
	C2160H	101.6	14.29	38.1	68.9	16.1	265	530	45

Note: Excluding its attachments, the dimensions conform with the dimensions of Double Pitch Roller Chains. (Refer to page 9)

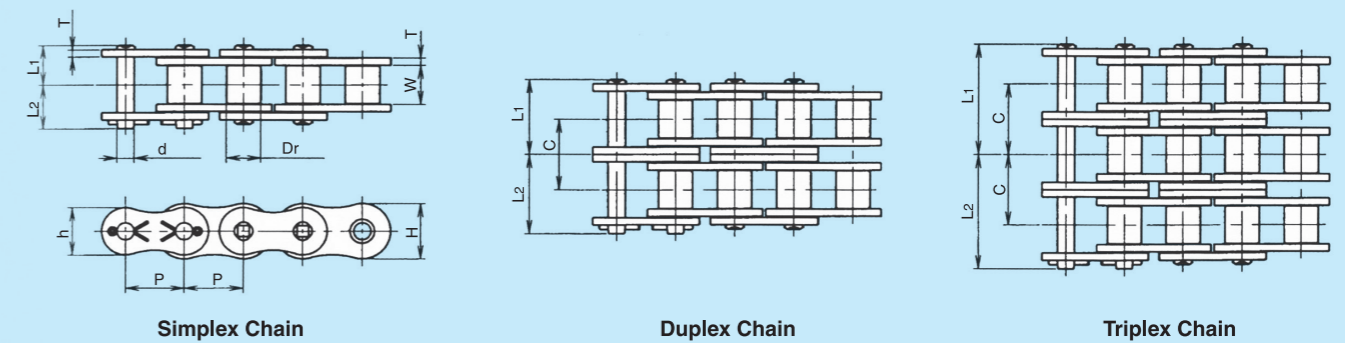
ANSI Heavy Series Roller Chains

ANSI Heavy Series Chains differ from ANSI Standard Roller Chains in the extra thickness of the link plates. The thicker plates provide greater shock load resistance and fatigue strength, and the chains are equally suitable for heavy-duty drive service.



SH Series Roller Chains

Compared with ANSI Standard Roller Chains, SH Series Roller Chains have greater ultimate tensile strength and shock load resistance with its hardened pins that have square riveting and its link plates of next larger chain sizes. SH Chains are suitable for heavy-duty transmission at a low speed of up to 50m/min.



Dimensions - mm

PULTON Chain No. (ANSI No.)	Pitch P	Roller Dia. Dr	Width Between Inner Plates W	Pin		Link Plate			Transverse Pitch C	Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight kg/m	
				Dia. d	Length		Height						Thickness T
					L1	L2	H	h					
60H	19.05	11.91	12.7	5.95	14.3	16.5	18	15.3	3.2	26.1	44	10.8	1.88
60H-2					27.6	29.9					88	18.2	3.75
60H-3					40.6	43					132	27	5.62
80H	25.4	15.88	15.88	7.94	17.75	20.85	24.1	20.8	4	32.6	78.5	17.7	3.15
80H-2					34.05	37.15					157	30	6.26
80H-3					50.35	53.45					235.5	44.1	9.37
100H	31.75	19.05	19.05	9.54	21.3	24.6	30.1	26	4.8	39.1	118	25.5	4.63
100H-2					40.85	44.15					236	43.3	9.2
100H-3					60.4	63.7					354	63.7	13.77
120H	38.1	22.23	25.4	11.11	26.4	29.9	36.2	31.2	5.6	48.9	167	33.3	6.67
120H-2					50.85	54.35					334	56.7	13.27
120H-3					75.3	78.8					501	83.4	19.86
140H	44.45	25.4	25.4	12.71	28.1	33	42.2	36.4	6.4	52.2	216	43.1	8.49
140H-2					54.2	59.1					432	73.4	16.88
140H-3					80.3	85.2					648	108	25.28
160H	50.8	28.58	31.75	14.29	33.1	38.1	48.2	41.6	7.1	61.9	275	54.9	11.04
160H-2					64.05	69.05					550	93.4	21.97
160H-3					95	100					825	137	32.9
200H	63.5	39.68	38.1	19.85	42.25	49.35	60.3	52	9.5	78.3	471	79.4	10
200H-2					81.4	88.5					942	135	37.78
200H-3					120.55	127.65					1413	199	56.55

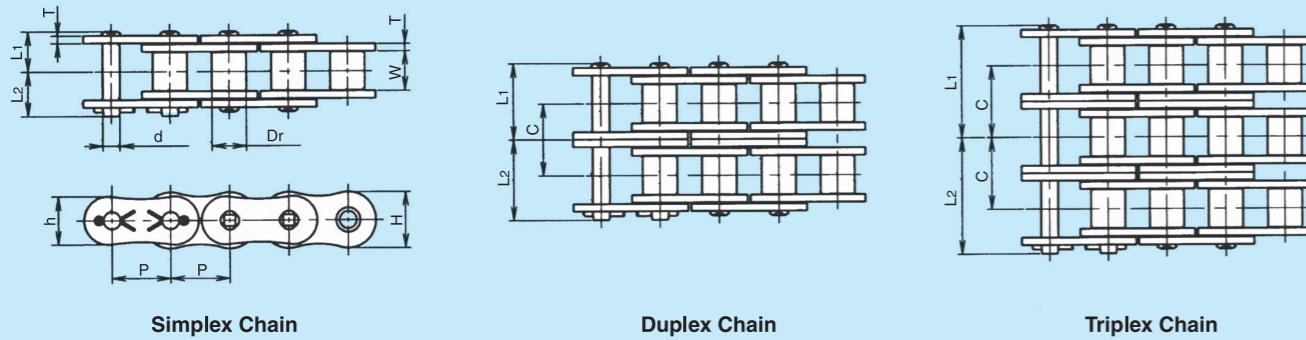
Dimensions - mm

PULTON Chain No.	Pitch P	Roller Dia. Dr	Width Between Inner Plates W	Pin		Link Plate			Transverse Pitch C	Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight kg/m	
				Dia. d	Length		Height						Thickness T
					L1	L2	H	h					
80SH	25.4	15.88	15.88	7.94	17.75	20.85	24.1	20.8	4	32.6	98.1	17.7	3.15
80SH-2					34.05	37.15					196	30	6.26
80SH-3					50.35	53.45					294	44.1	9.37
100SH	31.75	19.05	19.05	9.54	21.3	24.6	30.1	26	4.8	39.1	145	25.5	4.63
100SH-2					40.85	44.15					290	43.3	9.2
100SH-3					60.4	63.7					435	63.7	13.77
120SH	38.1	22.23	25.4	11.11	26.4	29.9	36.2	31.2	5.6	48.9	196	33.3	6.67
120SH-2					50.85	54.35					392	56.7	13.27
120SH-3					75.3	78.8					588	83.4	19.86
140SH	44.45	25.4	25.4	12.71	28.1	33	42.2	36.4	6.4	52.2	255	43.1	8.49
140SH-2					54.2	59.1					510	73.4	16.88
140SH-3					80.3	85.2					765	108	25.28
160SH	50.8	28.58	31.75	14.29	33.1	38.1	48.2	41.6	7.1	61.9	324	54.9	11.04
160SH-2					64.05	69.05					647	93.4	21.97
160SH-3					95	100					971	137	32.9
200SH	63.5	39.68	38.1	19.85	42.25	49.35	60.3	52	9.5	78.3	579	79.4	10
200SH-2					81.4	88.5					1157	135	37.78
200SH-3					120.55	127.65					1736	199	56.55

Note: 1) Press-fitted type connecting link will be supplied.
2) Offset link is not available.

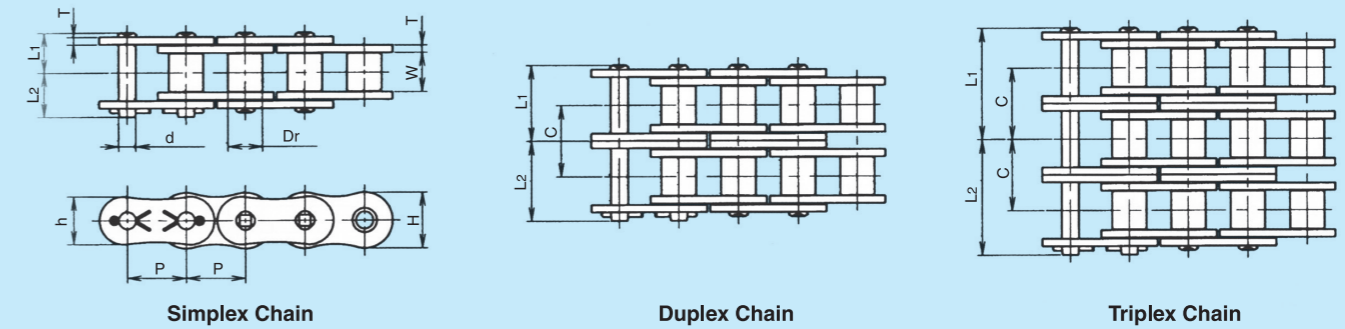
EX Series Roller Chains

The dimensions of EX Series Roller Chains are identical with those of ANSI Standard Roller Chains. Using special enlarged link plates and hardened pins with square riveting enhances the fatigue strength and shock load resistance of EX Chains. In addition, the ball drifting for the chains creates cylindrical holes, ideal for improving fatigue resistance and enhancing wear performance. EX Chains are suitable for transmission at a medium speed of up to 150m/min.



EXH Series Roller Chains

EXH Series Roller Chains have the highest tensile strength and allowable load among general application chains. The thickness of its link plates is the same as those of the next larger size of EX series Chains. Ball drifting for the chains improves fatigue resistance and enhances performance against wear. EXH Chains are suitable for heavy-duty transmission at a low speed of up to 50m/min.



Dimensions - mm

PULTON Chain No.	Pitch P	Roller Dia. Dr	Width Between Inner Plates W	Pin		Link Plate			Transverse Pitch C	Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight kg/m	
				Dia. d	Length		Height						Thickness T
					L1	L2	H	h					
80EX	25.4	15.88	15.88	7.94	16.25	19.35	24.1	20.8	3.2	29.3	88.3	19.6	2.8
80EX-2					30.9	34					177	33.3	5.55
80EX-3					45.55	48.65					235	49	8.31
100EX	31.75	19.05	19.05	9.54	19.7	23	30.1	26	4	35.8	127	28.4	4.21
100EX-2					37.6	40.9					255	48.3	8.36
100EX-3					55.5	58.8					382	71.1	12.5
120EX	38.1	22.23	25.4	11.11	24.7	28.2	36.2	31.2	4.8	45.4	186	41.2	6.2
120EX-2					47.4	50.9					373	70	12.33
120EX-3					70.1	73.6					559	103	18.45
140EX	44.45	25.4	25.4	12.71	26.45	31.35	42.2	36.4	5.6	48.9	245	52	7.98
140EX-2					50.9	55.8					490	88.4	15.88
140EX-3					75.35	80.25					735	130	23.77
160EX	50.8	28.58	31.75	14.29	31.45	36.45	48.2	41.6	6.4	58.5	314	67.7	10.6
160EX-2					60.7	65.7					628	115	21.1
160EX-3					89.95	94.95					941	169	31.6
200EX	63.5	39.68	38.1	19.85	38.9	46	60.3	52	7.1	71.6	505	97.1	17.47
200EX-2					74.7	81.8					1010	165	34.71
200EX-3					110.5	117.6					1515	243	51.94
240EX	76.2	47.63	47.63	23.81	47.2	54.8	72.4	62.4	9.5	87.8	726	132	25.44
240EX-2					91.1	98.7					1451	225	50.57
240EX-3					135	142.6					2177	331	75.7

Note: 1) Press-fitted type connecting link and cotter pin made of stainless steel will be supplied.
2) Offset link is not available.

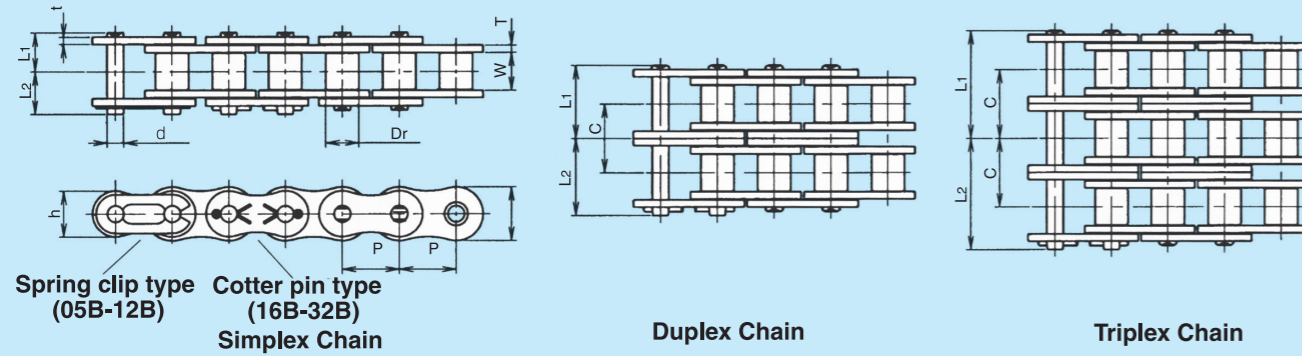
Dimensions - mm

PULTON Chain No.	Pitch P	Roller Dia. Dr	Width Between Inner Plates W	Pin		Link Plate			Transverse Pitch C	Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight kg/m	
				Dia. d	Length		Height						Thickness T
					L1	L2	H	h					
80EXH	25.4	15.88	15.88	7.94	17.75	20.85	24.1	20.8	4	29.3	98.1	21.6	3.27
80EXH-2					34.05	37.15					196	36.7	6.49
80EXH-3					50.35	53.45					294	53.9	9.71
100EXH	31.75	19.05	19.05	9.54	21.3	24.6	30.1	26	4.8	35.8	145	32.4	4.8
100EXH-2					40.85	44.15					290	55	9.54
100EXH-3					60.4	63.7					435	80.9	14.28
120EXH	38.1	22.23	25.4	11.11	26.4	29.9	36.2	31.2	5.6	45.4	196	43.1	6.91
120EXH-2					50.85	54.35					392	73.4	13.75
120EXH-3					75.3	78.8					588	108	20.59
140EXH	44.45	25.4	25.4	12.71	28.1	33	42.2	36.4	6.4	48.9	255	54.9	8.81
140EXH-2					54.2	59.1					510	93.4	17.53
140EXH-3					80.3	85.2					765	137	26.25
160EXH	50.8	28.58	31.75	14.29	33.1	38.1	48.2	41.6	7.1	58.5	324	69.6	11.45
160EXH-2					64.05	69.05					647	118	22.79
160EXH-3					95	100					971	174	34.13
200EXH	63.5	39.68	38.1	19.85	42.25	49.35	60.3	52	9.5	71.6	579	11	19.72
200EXH-2					81.4	88.5					1157	188	39.2
200EXH-3					120.55	127.65					1736	277	58.69

Note: 1) Press-fitted type connecting link and cotter pin made of stainless steel will be supplied.
2) Offset link is not available.

BS / DIN Roller Chains

BS/DIN Roller Chains are transmission chains for general application and are manufactured in accordance with the ISO type B. The chains are interchangeable with chains made according to the BS228 and the DIN8187.



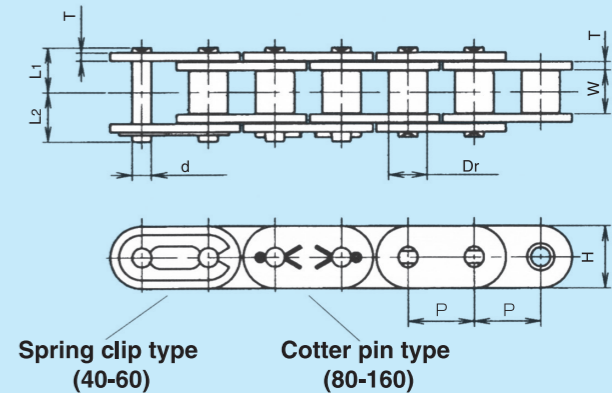
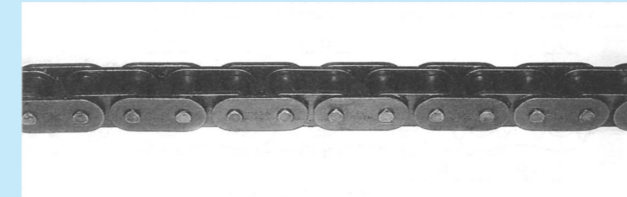
Dimensions - mm

PULTON Chain No.	Pitch P	Roller Dia. Dr	Width Between Inner Plates W	Pin		Link Plate				Transverse Pitch C	ISO Min. Tensile Strength kN	Approx. Weight kg/m
				Dia. d	Length	Height		Thickness				
						L1	L2	H	h			
05B	8	5	3	2.31	3.8	4.7	7.1	7.1	0.75	0.75	5.64	4.4
05B-2				6.68	7.52	7.8						
05B-3				9.46	10.34	11.1						
06B	9.525	6.35	5.72	3.28	6.15	7.75	8.1	8.1	1.3	1.1	10.24	8.9
06B-2				11.33	12.87	16.9						
06B-3				16.21	17.99	24.9						
08B	12.7	8.51	7.75	4.45	8.15	9.35	11.8	10.9	1.5	1.5	13.92	17.8
08B-2				15.59	16.31	31.1						
08B-3				22.53	23.27	44.5						
10B	15.875	10.16	9.65	5.08	9.45	10.55	14.7	13.7	1.5	1.5	16.59	22.2
10B-2				17.65	18.85	44.5						
10B-3				25.96	27.14	66.7						
12B	19.05	12.07	11.68	5.72	11.15	12.45	16.1	16.1	1.8	1.8	19.46	28.9
12B-2				20.82	22.18	57.8						
12B-3				30.59	31.91	86.7						
16B	25.4	15.88	17.02	8.28	18.1	18.6	21	21	4	3.2	31.88	60
16B-2				35.46	34.54	106						
16B-3				51.42	50.48	160						
20B	31.75	19.05	19.56	10.19	20.09	23.42	26	26	4.5	3.5	36.45	95
20B-2				38.77	41.65	170						
20B-3				57.53	59.87	250						
24B	38.1	25.4	25.4	14.63	26.67	31.04	33.4	31.2	5.9	4.9	48.36	160
24B-2				51.28	55.22	280						
24B-3				75.54	79.4	425						
28B	44.45	27.94	30.99	15.9	32.56	38.74	36.5	36.5	7.4	6.3	59.56	200
28B-2				64.2	68.52	360						
28B-3				94.21	98.3	530						
32B	50.8	29.21	30.99	17.81	32.64	39.37	41.6	41.6	6.9	6.3	58.55	250
32B-2				63.84	68.65	450						
32B-3				93.49	97.92	670						

Note: 1) Link plates of 06B are flat in shape.
2) Connecting link for 05B-12B is spring clip type and for 16B-32B is cotter pin type.

Straight Side Plate Chains

Straight Side Plate Chains are identical to the ANSI Standard Roller Chains except that the link plates or side plates are flat. The chains are mainly used for conveyor applications where flat link plates are desirable.



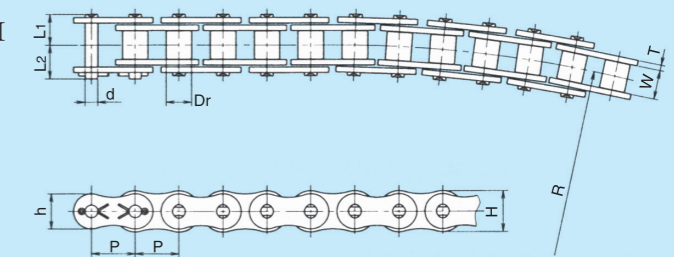
Dimensions - mm

PULTON Chain No.	Pitch P	Roller Dia. Dr	Width Between Inner Plates W	Pin		Link Plate		Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight kg/m	
				Dia. d	Length	Height H	Thickness T				
											L1
40PK	12.7	7.92	7.95	3.98	8.1	9.7	12	1.5	16.66	2.74	0.7
50PK	15.875	10.16	9.55	5.09	10.4	12.1	15	2	27.93	4.51	1.13
60PK	19.05	11.91	12.7	5.96	12.7	14.7	18	2.4	40.18	6.27	1.62
80PK	25.4	15.88	15.88	7.94	16.15	19.25	23	3.2	65.66	10.78	2.74
100PK	31.75	19.05	19.05	9.54	19.7	23	28	4	107.8	17.15	4.08
120PK	38.1	22.23	25.4	11.11	24.7	28.2	36.2	4.8	151.9	24.01	5.98
160PK	50.8	28.58	31.75	14.29	31.45	36.45	48.2	6.4	254.8	41.16	10.23

Note: Stainless Steel, Multiplex Straight Side Plate Chains are available upon request.

Side Bow Chains

Side Bow Chains can bow in the transverse direction provided with additional clearance between pins and bushings, and between pin links and roller links. The basic dimensions are the same as those of ANSI Standard Roller Chains.



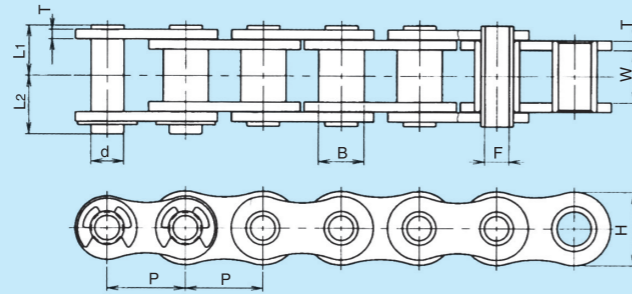
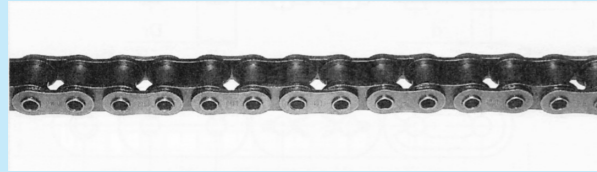
Dimensions - mm

PULTON Chain No.	Pitch P	Roller Dia. Dr	Width Between Inner Plates W	Pin		Link Plate		Min. Bow Radius R	Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight kg/m		
				Dia. d	Length	Height H	Thickness T						
												L1	L2
40SB	12.7	7.92	7.95	3.22	8.5	10	12	10.4	1.5	350	10.8	1.27	0.6
50SB	15.875	10.16	10.16	4.2	10.7	12.7	15	13	2	400	18.6	2.16	1
60SB	19.05	11.91	12.7	5.08	13.2	15	18	15.6	2.4	550	27	3.14	1.4
80SB	25.4	15.88	15.88	5.95	17.5	19.8	24.1	20.8	3.2	750	33.3	3.92	2.69

Note: Bow radius in operation should be larger than above "R" figures.

Hollow Pin Chains

Hollow Pin Chains have a versatile design capability for various kinds of attachments and cross rods to be inserted into any link of the chains.

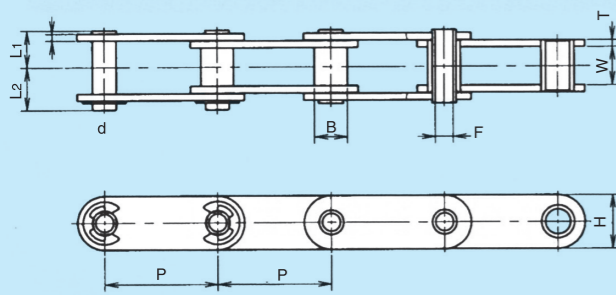


Standard Hollow Pin Chains

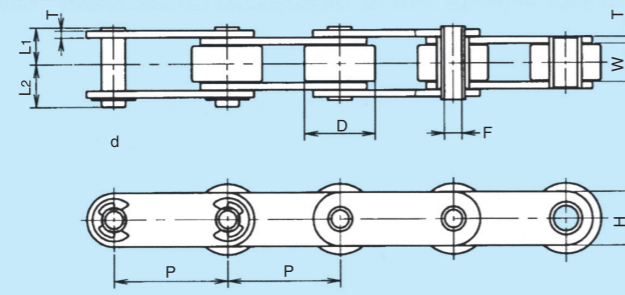
Dimensions - mm

PULTON Chain No.	Pitch P	Bush Dia. B	Width Between Inner Plates W	Pin				Link Plate		Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight kg/m
				Dia. d	Pin Bore Dia. F	Length		Height H	Thickness T			
						L1	L2					
40HP	12.7	7.92	7.95	5.65	4	8	9.5	12	1.5	10.78	1.76	0.51
50HP	15.875	10.16	9.55	7.21	5.12	10.15	11.45	15	2	19.6	3.14	0.84
60HP	19.05	11.91	12.7	8.3	6	12.7	14.3	18	2.4	26.95	4.21	1.23
80HP	25.4	15.88	15.88	11.275	8.03	16.25	17.8	24.1	3.2	49	7.64	2.16

Note: Standard Hollow Pin Chains are rollerless.



C2000 Type (C2040HP-C2080HP)



C2002 Type (C2042HP-C2082HP)

Double Pitch Hollow Pin Chains

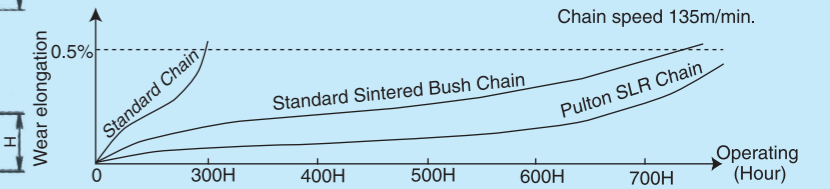
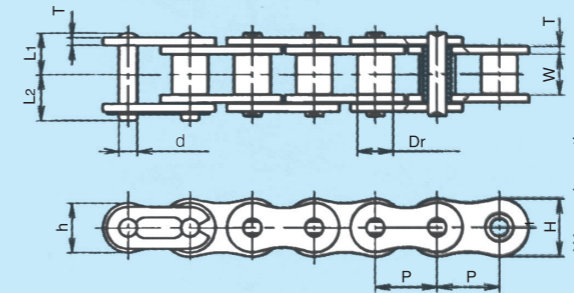
Dimensions - mm

PULTON Chain No.	Pitch P	Bush Dia. B	Roller Dia. D	Width Between Inner Plates W	Pin				Link Plate		Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight kg/m	
					Dia. d	Pin Bore Dia. F	Length		Height H	Thickness T			C2000 Type	C2002 Type
							L1	L2						
C2040HP C2042HP	25.4	7.92	15.88	7.95	5.65	4	8	9.5	12	1.5	10.78	1.76	0.45	0.79
C2050HP C2052HP	31.75	10.16	19.05	9.55	7.21	5.12	10.15	11.45	15	2	19.6	3.14	0.74	1.19
C2060HP C2062HP	38.1	11.91	22.23	12.7	8.3	6	12.7	14.3	18	2.4	26.95	4.21	1.02	1.71
C2080HP C2082HP	50.8	15.88	28.58	15.88	11.275	8.03	16.25	17.8	24.1	3.2	49	7.64	1.87	3.33

Note: C2000 Type Hollow Pin Chains are rollerless.

SLR Series Self-lubricating Chains

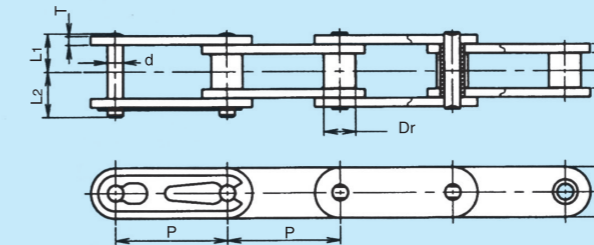
SLR Series Self-lubricating Chains use bushings made of sintered alloy steel impregnated with special lubricating oil, thus making it suitable in places where lubrication is not permitted. Also with such lubrication, the chains provide superior wear life and enable a cleaner working environment.



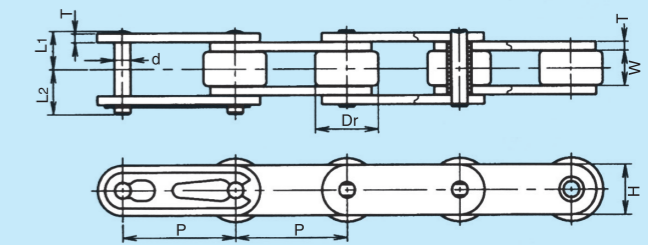
SLR Standard Chains

Dimensions - mm

PULTON Chain No.	Pitch P	Roller Dia. Dr	Width Between Inner Plates W	Pin			Link Plate				Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight kg/m
				Dia. d	Length		Height H	Height h	Thickness T	Thickness t			
					L1	L2							
40SLR	12.7	7.92	7.9	3.98	9.2	10.2	12	10.4	2	1.5	19.1	3.82	0.72
50SLR	15.875	10.16	9.5	5.09	10.9	12.6	15	13	2.4	2	31.9	6.18	1.14
60SLR	19.05	11.91	12.6	5.96	14.5	14.5	18	15.3	3.2	2.4	44.1	9.32	1.74
80SLR	25.4	15.88	15.8	7.94	19.55	19.55	24.1	20.8	4	3.2	78.5	16.2	3



C2000 Type (C2040SLR-C2080SLR)



C2002 Type (C2042SLR-C2082SLR)

SLR Double Pitch Chains

Dimensions - mm

PULTON Chain No.	Pitch P	Roller Dia.		Width Between Inner Plates W	Pin			Link Plate		Average Tensile Strength kN	Maximum Allowable Load kN	Approx. Weight kg/m	
		Dr	D		Dia. d	Length		Height H	Thickness T			C2000 Type	C2002 Type
						L1	L2						
C2040SLR C2042SLR	25.4	7.92	15.88	7.95	3.98	8.1	9.7	12	1.5	16.66	2.74	0.51	0.87
C2050SLR C2052SLR	31.75	10.16	19.05	9.55	5.09	10.4	12.1	15	2	27.93	4.51	0.87	1.35
C2060SLR C2062SLR	38.1	11.91	22.23	12.7	5.96	14.3	16.5	17.2	3.2	40.18	6.27	1.51	2.19
C2080SLR C2082SLR	50.8	15.88	28.58	15.88	7.94	17.75	20.85	22.6	4	65.66	10.78	2.66	3.68

Note: 1) In selecting SLR chains, refer to "General Selection". "Slow-speed Selection" is not applicable to the chains.
2) Chain wear hastens if oil impregnated in the bushings ceases in a dusty environment or where chains are exposed to water.

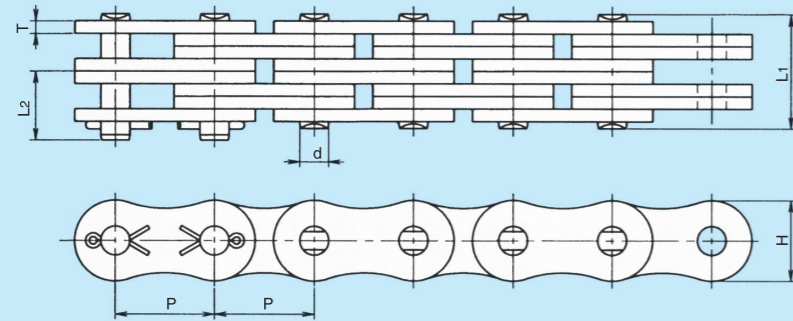
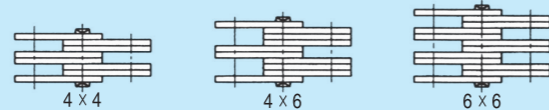
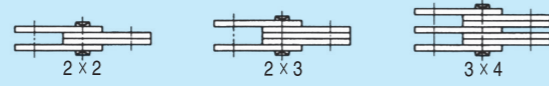
Leaf Chains

Leaf Chains consist of interlacing plates and riveted pins. The chains are used on lift trucks, counter-weight balance, etc.

AL Series Leaf Chains consist of link plates of the same contour and thickness as the pin link plates of ANSI Standard Roller Chains of same pitch. The chains are mainly used for lightweight applications where chains receive only static loads.

BL Series Leaf Chains consist link plates in contour which are thicker and larger than the AL Series link plates of the same pitch. The chains are suitable for heavy-duty applications where chains receive shock roads and constant wear.

Lacing Combinations



AL Series

Dimensions - mm

PULTON Chain No.	Pitch P	Lacing	Pin			Link Plate		Min. Tensile Strength kN	Approx. Weight kg/m
			Dia. d	Length		Height H	Thickness T		
				L1	L2				
AL422	12.7	2x2	3.96	8.4	6.3	10.4	1.5	16.7	0.38
AL444		4x4		14.8	9.5			33.3	0.74
AL466		6x6		21.2	12.7			50	1.1
AL522	15.875	2x2	5.08	10.4	7.5	13	2	27.8	0.62
AL544		4x4		18.9	11.7			55.5	1.22
AL566		6x6		27.4	15.9			83.2	1.81
AL622	19.05	2x2	5.95	12.2	8.7	15.3	2.4	38.5	0.87
AL644		4x4		22.1	13.7			77.1	1.71
AL666		6x6		32	18.6			115.6	2.54
AL822	25.4	2x2	7.94	16.4	11.8	20.8	3.2	64.7	1.67
AL844		4x4		29.8	18.5			128.3	3.3
AL866		6x6		43.2	25.2			192.5	4.92
AL1022	31.75	2x2	9.52	20.9	13.55	25.8	4	97.9	2.4
AL1044		4x4		37.6	21.9			195.8	4.73
AL1066		6x6		54.9	30.55			293.6	7.07
AL1222	38.1	2x2	11.11	24.5	15.55	31.2	4.8	139.8	3.25
AL1244		4x4		44.4	25.5			279.6	6.42
AL1266		6x6		64.9	35.75			419.5	9.59
AL1444	44.45	4x4	12.71	51	30.2	36.4	5.6	366.1	9.9
AL1466		6x6		74.7	42.05			549.2	14.5
AL1644	50.8	4x4	14.29	58	33.8	41.6	6.4	463	12.63
AL1666		6x6		85	47.8			694.5	18.88

Leaf Chains

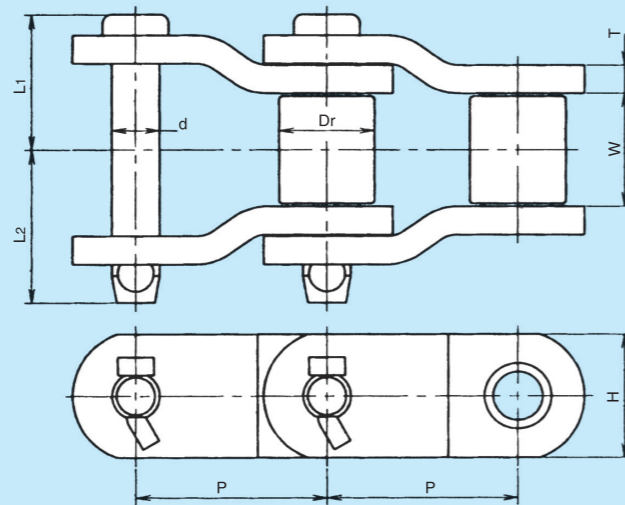
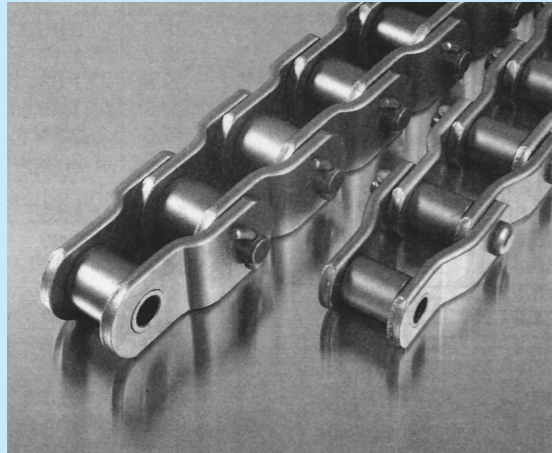
BL Series

Dimensions - mm

PULTON Chain No.	Pitch P	Lacing	Pin			Link Plate		Min. Tensile Strength kN	Approx. Weight kg/m
			Dia. d	Length		Height H	Thickness T		
				L1	L2				
BL422	12.7	2x2	5.09	10.4	7.5	12	2	24.5	0.63
BL423		2x3		12.6	8.5			24.5	0.79
BL434		3x4		16.8	10.6			36.8	1.09
BL444		4x4		18.9	11.7			53.9	1.24
BL446		4x6		23.2	13.8			53.9	1.55
BL466		6x6		27.4	15.9			73.5	1.58
BL522	15.875	2x2	5.96	12.2	8.7	15	2.4	38.7	0.95
BL523		2x3		14.7	10			38.7	1.17
BL534		3x4		20.3	12.5			59.8	1.63
BL544		4x4		22.1	13.7			77.5	1.85
BL546		4x6		27.2	16.2			77.5	2.31
BL566		6x6		32	18.6			116.2	2.76
BL622	19.05	2x2	7.94	16.4	11.8	18	3.2	63.7	1.53
BL623		2x3		19.7	13.4			63.7	1.89
BL634		3x4		26.3	16.8			95.6	2.62
BL644		4x4		29.8	18.5			127.5	2.99
BL646		4x6		36.2	21.8			127.5	3.71
BL666		6x6		43.2	25.2			191.2	4.45
BL822	25.4	2x2	9.54	20.9	13.55	24.1	4	98.1	2.51
BL823		2x3		24.9	15.55			98.1	3.11
BL834		3x4		33.6	19.9			147.1	4.32
BL844		4x4		37.6	21.9			196.1	4.92
BL846		4x6		46	26.1			196.1	6.13
BL866		6x6		54.9	30.55			294.2	7.35
BL1022	31.75	2x2	11.11	24.5	15.55	30.1	4.8	141.2	3.78
BL1023		2x3		29.3	17.95			141.2	4.69
BL1034		3x4		39.6	23.1			229.5	6.53
BL1044		4x4		44.4	25.5			282.4	7.44
BL1046		4x6		54.4	30.5			282.4	9.28
BL1066		6x6		64.9	35.75			423.6	11.12
BL1222	38.1	2x2	12.71	27.9	18.65	36.2	5.6	185.3	5.29
BL1223		2x3		33.5	21.45			185.3	6.58
BL1234		3x4		45.4	27.4			331.5	9.17
BL1244		4x4		51	30.2			370.7	10.46
BL1246		4x6		62.6	36			370.7	13.04
BL1266		6x6		74.7	42.05			556	15.64
BL1422	44.45	2x2	14.29	31.6	20.6	42.2	6.4	234.4	7.04
BL1423		2x3		38	23.8			234.4	8.76
BL1434		3x4		51.6	30.6			421.7	12.22
BL1444		4x4		58	33.8			468.8	13.94
BL1446		4x6		71.2	40.4			468.8	17.39
BL1466		6x6		85	47.3			703.1	20.86
BL1622	50.8	2x2	17.46	35.8	23.8	48.2	7.2	350.1	9
BL1623		2x3		43	27.4			350.1	11.19
BL1634		3x4		58.2	35			553.1	15.59
BL1644		4x4		65.4	38.6			700.2	17.77
BL1646		4x6		80.2	46			700.2	22.16
BL1666		6x6		95.6	53.7			1050.3	26.56
BL2022	63.5	2x2	23.81	46.2	30.5	60.3	9.5	529.6	15.08
BL2023		2x3		55.7	35.25			529.6	18.73
BL2034		3x4		75.5	45.15			794.3	26.09
BL2044		4x4		85	49.9			1059.1	29.74
BL2046		4x6		104.4	59.6			1059.1	37.08
BL2066		6x6		124.4	69.6			1588.7	44.44

Heavy Duty Cranked Link Chains

Heavy Duty Cranked Link Chains are suitable for operations under severe conditions such as in power shovels, road-building equipment and other heavy-duty construction machinery, where heavy shock load and greater wear resistance are required. The chains have high-grade special alloy steel to ensure long, trouble-free chain service.



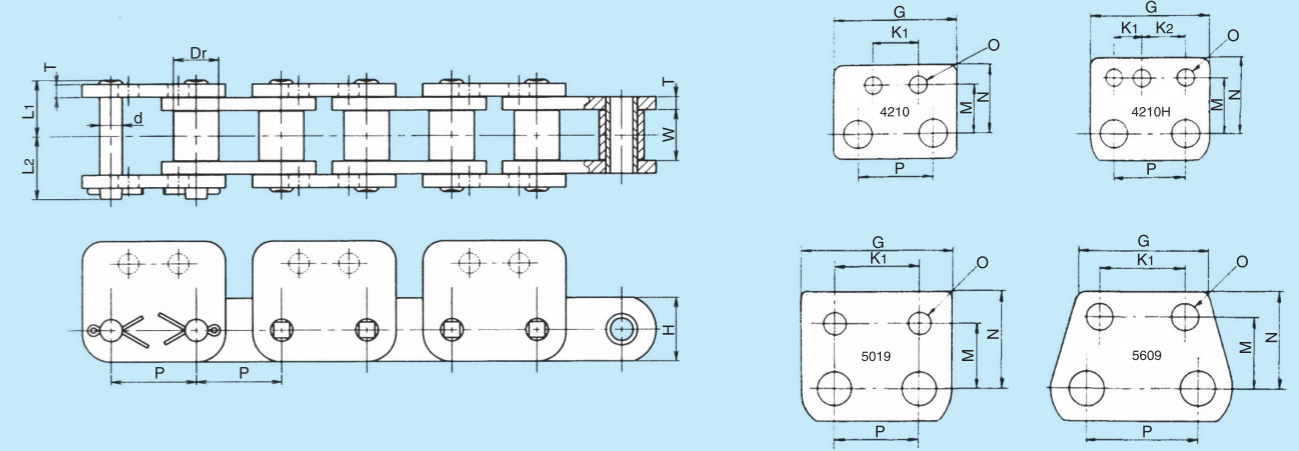
Dimensions - mm

PULTON Chain No.	Pitch P	Roller Dia. Dr	Width Between Inner Plates W	Pin		Link Plate		Average Tensile Strength kN	Approx. Weight kg/m	
				Dia. d	Length		Height H			Thickness T
					L1	L2				
SS2065	50.8	28.58	32.5	15.04	36.75	42.75	42.9	7.9	312	12
SS25H	63.5	31.75	38.1	15.88	45.55	51.45	41.5	9.5	367	13.5
SS568H	77.9	41.28	39.7	19.05	45.35	52.25	57	9.5	515	19.6
SS568HH	77.9	41.28	39.7	19.05	48.6	55.4	57	11	569	21.8
SS568H-3	77.9	41.28	39.7	20.62	49.6	58.5	57	11	569	23.1
SS3011B	77.9	31.75	38.1	19.05	44.5	49.5	57	9.5	515	22.4
SS40H	78.11	31.75	38.1	15.88	45.55	51.45	41.5	9.5	367	12.8
SS3125H	79.38	41.28	41.3	20.62	49.15	55.85	57	9.5	530	19.3
SS3125-2S	79.38	42.07	41.3	22.62	50.65	59.35	60	11	715	23.7
SS1616A	88.9	44.45	38.1	22.23	51.5	59.5	57	12.7	624	24.1
SS124	103.2	44.45	49.2	22.23	59.5	67.2	57	12.7	623	21.6
SS124H	103.2	44.45	48.6	22.23	66.3	74.7	60	16	785	30.2
SS1245	103.45	45.2	49.6	23.88	61.1	69.7	60	14.5	830	28.3
SS1645HH	103.45	45.9	50	25.4	67.5	75	60	16	883	30.9
SS635H	114.3	57.15	52.4	27.97	63.5	73.5	76.2	14.5	1108	37.8
SS5022PH	127	63.5	69.9	34.93	83.15	89.15	89	19	1560	54.3

Note: The link shape of SS2065 differs from illustration above.

Trencher Chains

Trencher Chains are designed for trenchers or digging equipment mainly in farmlands. The chains use high-grade materials to achieve the maximum strength for shock load and wear resistance. Attachments are provided at every second or fourth link.



Dimensions - mm

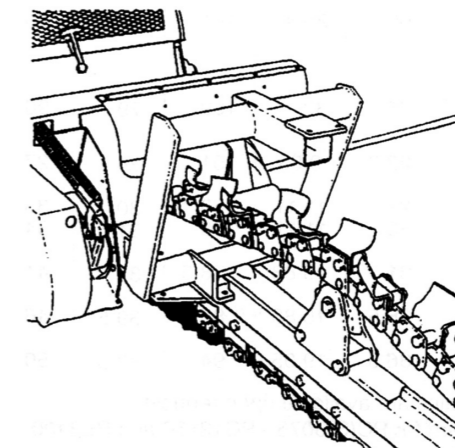
PULTON Chain No.	Pitch P	Roller Dia. Dr	Width Between Inner Plates W	Pin		Link Plate		Average Tensile Strength kN	Approx. Weight kg/m	
				Dia. d	Length		Height H			Thickness T
					L1	L2				
4210	42.01	22.23	25.4	11.11	24.7	28.2	28.6	4.8	120	6.4
4210H	42.01	22.23	25.4	11.11	28	31.5	31.8	6.4	151	7.9
5019	50.8	28.58	31.75	14.29	31.4	36.5	38.1	6.4	209	11.6
5609	66.27	28.58	31.75	14.29	31.4	36.5	38.1	6.4	209	10.5

Note: Approx. Weight shows chains with attachments at every 4th link.

Attachments

Dimensions - mm

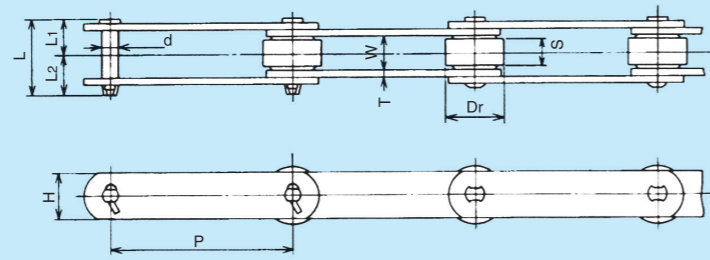
	Pitch P	G	K1	K2	M	N	O
4210	42.01	70.6	25.4	—	28.6	39.7	10
4210WS	42.01	70.6	46.04	—	28.6	39.7	10
4210H	42.01	70.6	15.88	25.4	33.34	44.45	10.2
5019	50.8	93	50.8	—	38.1	56.65	13.5
5609	66.27	76.2	50.8	—	41.28	57.15	15.26



Standard Conveyor Chains - R Roller Series

R Roller Conveyor Chains have rollers whose outside diameters are larger than the height of link plates and thus, the chains can easily roll on the rails.

The chains are suitable in applications where relatively large and heavy articles are carried.



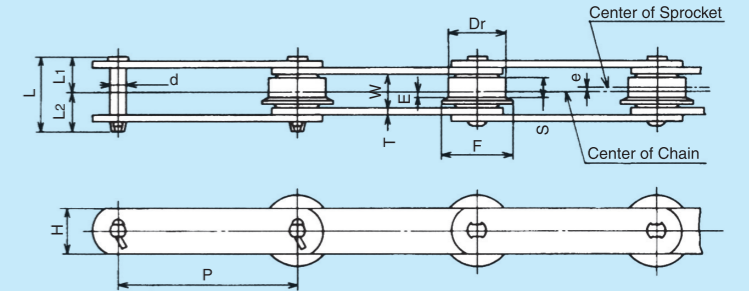
Dimensions - mm

PULTON Chain No.	Pitch P	Roller		Width Between Inner Plates W	Pin			Link Plate		Average Tensile Strength kN	Approx. Weight kg/m	
		Dr	S		Dia. d	Length L	Length L1	Length L2	Height H			Thickness T
PCS3075-R	75	31.8	15.5	16.1	7.94	36.4	17.1	19.3	22	3.2	29.41	2.7
PCS3100-R	100											2.4
PCS3125-R	125											2.2
PCS3150-R	150											2
PC3075-R	75	30	15.5	18	7.94	38	18	20	22	3.2	29.41	2.5
PC3100-R	100											2.2
PC3125-R	125											2
PC3150-R	150											1.9
PC5075-R	75	40	19	22.2	11.11	51	24	27	32	4.5	68.64	5.6
PC5100-R	100											5
PC5125-R	125											4.5
PC5150-R	150											4.1
PC7100-R	100	45	21.5	25	12.7	61.5	29	32.5	32	6	84.31	6.8
PC7125-R	125											6.1
PC7150-R	150											5.5
PC7175-R	175											5
PC8125-R	125	44.45	23.5	27	11.11	63	30	33	28.6	6.3	83.33	5.9
PC8150-R	150											5.6
PC10100-R	100	50	26.5	30	14.29	68	32	36	38	6.3	112.75	10
PC10125-R	125											8.7
PC10150-R	150											7.5
PC10200-R	200											6.8
PC12200-R	200	65	32	36.5	15.88	85.5	39.5	46	45	7.9	186.32	11.6
PC12250-R	250											10.4
PC17200-R	200	80	45.8	50.8	19.05	110.5	51	59.5	50.8	9.5	245.1	19.7
PC17250-R	250											17.2
PC17300-R	300											15.8
PC20200-R	200	75	40.5	45	20.64	103	47.5	55.5	50.8	9.5	205.88	16.8
PC20250-R	250											14.8
PC26200-R	200	100	50	56.6	22.23	116	54	62	63.5	9.5	279.41	28.4
PC26250-R	250											26.2
PC26300-R	300											23.4
PC26450-R	450											18.7
PC36250-R	250	125	56	66	25.4	141	65.5	75.5	76.2	12.7	475.49	45.7
PC36300-R	300											40.4
PC36450-R	450											31.8
PC36600-R	600											27.8
PC52450-R	450	140	65	76	32	169	79	90	90	16	539.22	45.8
PC52600-R	600											39.8
PE3400-R	101.6	38.1	18.7	22.2	9.53	51	24	27	25.4	4.8	53.92	4.3
PE5400-R	101.6	44.45	23.5	27	11.11	63	30	33	28.6	6.3	83.33	6.7
PE5600-R	152.4											
PE9400-R	101.6	44.45	27.5	31	15.88	78.5	37	41.5	38	7.9	137.25	10.4
PE12600-R	152.4	57.2	31.5	36.5	15.88	85.5	39.5	46	45	7.9	186.32	12.1
PE17600-R	152.4	69.9	31.5	36.5	19.05	94	43.5	50.5	50.8	9.5	205.88	17.1

Note: 1) Heavy-duty type conveyor chains are available upon request.
2) Riveted construction is standard for PC(S)3075 - PC12250 and PE3400 - PE12600 but cottered construction for these chains are also available upon request.
3) Cottered (T-pin type) construction is standard for PC(E)17200 - PC52600

Standard Conveyor Chains - F Roller Series

F Roller Conveyor Chains have flanged rollers, which serve to retain the chains on the rails. The chains are widely used for slat, inclined bucket and pan conveyors, etc.

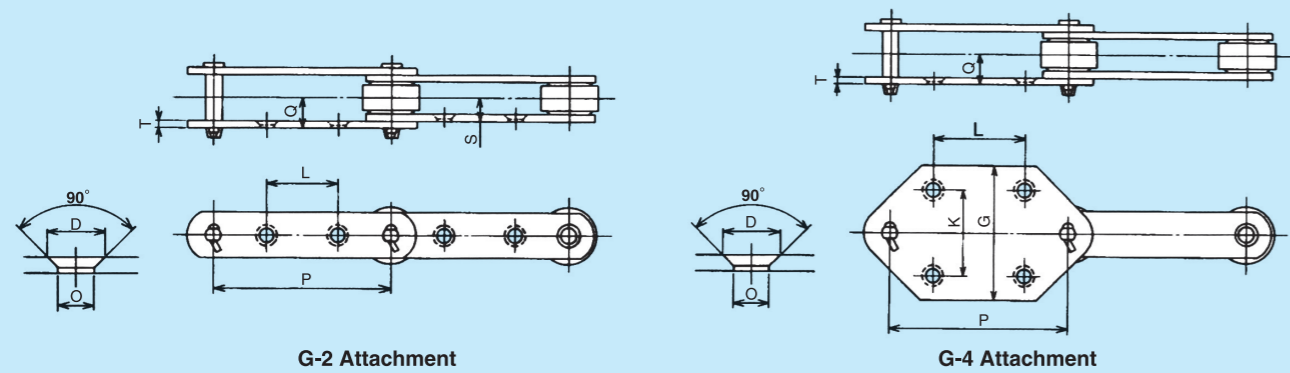


Dimensions - mm

PULTON Chain No.	Pitch P	Roller					Width Between Inner Plates W	Pin			Link Plate		Average Tensile Strength kN	Approx. Weight kg/m	
		Dr	F	S	E	e		Dia. d	Length L	Length L1	Length L2	Height H			Thickness T
PCS3075-F	75	31.8	42	12	4.3	1.8	16.1	7.94	36.4	17.1	19.3	22	3.2	29.41	2.8
PCS3100-F	100														2.5
PCS3125-F	125														2.3
PCS3150-F	150														2.1
PC3075-F	75	30	38	12	4	2	18	7.94	38	18	20	22	3.2	29.41	2.7
PC3100-F	100														2.2
PC3125-F	125														2
PC3150-F	150														1.9
PC5075-F	75	40	50	14	4.5	2.5	22.2	11.11	51	24	27	32	4.5	68.64	5.8
PC5100-F	100														5.2
PC5125-F	125														4.7
PC5150-F	150														4.3
PC7100-F	100	45	60	16	5	3	25	12.7	61.5	29	32.5	32	6	84.31	7.2
PC7125-F	125														6.5
PC7150-F	150														5.8
PC7175-F	175														5.4
PC8125-F	125	44.45	55	18	6.5	2.5	27	11.11	63	30	33	28.6	6.3	83.33	6.2
PC8150-F	150														5.8
PC10100-F	100	50	65	20	6.5	3.5	30	14.29	68	32	36	38	6.3	112.75	10.2
PC10125-F	125														8.9
PC10150-F	150														7.7
PC10200-F	200														7
PC12200-F	200	65	85	24	8	4	36.5	15.88	85.5	39.5	46	45	7.9	186.32	12.2
PC12250-F	250														10.9
PC17200-F	200	80	105	34	12	5	50.8	19.05	110.5	51	59.5	50.8	9.5	245.1	20.7
PC17250-F	250														18.2
PC17300-F	300														16.6
PC20200-F	200	75	100	30	10	5	45	20.64	103	47.5	55.5	50.8	9.5	205.88	17.8
PC20250-F	250														15.7
PC26200-F	200	100	130	38	13	6	56.6	22.23	116	54	62	63.5	9.5	279.41	30.4
PC26250-F	250														27.8
PC26300-F	300														24.7
PC26450-F	450														19.6
PC36250-F	250	125	160	42	14	7	66	25.40	141	65.5	75.5	76.2	12.7	475.49	47.6
PC36300-F	300														42
PC36450-F	450														33.3
PC36600-F	600														29
PC52450-F	450	140	180	49	16.5	8	76	32	169	79	90	90	16	539.22	48
PC52600-F	600														41.8
PE3400-F	101.6	38.1	50	13	4	2.5	22.2	9.53	51	24	27	25.4	4.8	53.92	4.7
PE5400-F	101.6	44.45	60	21.5	8.5	2.3	27	11.11	63	30	33	28.6	6.3	83.33	6.9
PE5600-F	152.4														
PE9400-F	101.6	44.45	60	19.5	6	3.8	31	15.88	78.5	37	41.5	38	7.9	137.25	10.7
PE12600-F	152.4	57.2	75	25	9	3.5	36.5	15.88	85.5	39.5	46	45	7.9	186.32	12.4
PE17600-F	152.4	69.9	90	23.5	8	3.8	36.5	19.05	94	43.5	50.5	50.8	9.5	205.88	17.6

Note: 1) Heavy-duty type conveyor chains are available upon request.
2) Riveted construction is standard for PC(S)3075 - PC12250 and PE3400 - PE12600 but cottered construction for these chains are also available upon request.
3) Cottered (T-pin type) construction is standard for PC(E)17200 - PC52600

Standard Conveyor Chains with Attachment



G-2 Attachment

PULTON Chain No.	Pitch P	Plate T	G-2 Attachments					Max. Length of Bolt	
			O	D	L	Q	S	Outer Link	Inner Link
								Dimensions - mm	
PCS3075-R S PCS3100-R F S	75 100	3.2	8	13.5	30 50	14.9	11.3	26	19
PC3075-R S PC3100-R F S	75 100	3.2	8	13	30 40	15.8	12.2	27	20
PC5100-R S PC5150-R F S	100 150	4.5	9.5	17	40 60	20.5	15.6	35	25
PC7100-R S PC7150-R F S	100 150	6.0	11	22	35 60	24.9	18.5	42	28
PC8150-R F S	150	6.3	12	20	60	26.5	19.8	44	30
PC10100-S PC10150-R F S	100 150	6.3	11	22	30 60	28.1	21.3	49	35
PC12200-R F S PC12250-R F S	200 250	7.9	15	27	80 125	34.7	26.2	63	45
PC17200-R F S PC17250-R F S PC17300-R F S	200 250 300	9.5	15	27	80 115 150	45.2	34.9	80	60
PC26300-R F S PC26450-R F S	300 450	9.5	15	27	140 220	48.1	37.8	86	64
PE5600-R F S	152.4	6.3	11	22	60	28.1	21.3	48	34
PE12600-R F S	152.4	7.9	15	27	50	34.7	26.2	62	44

G-4 Attachment

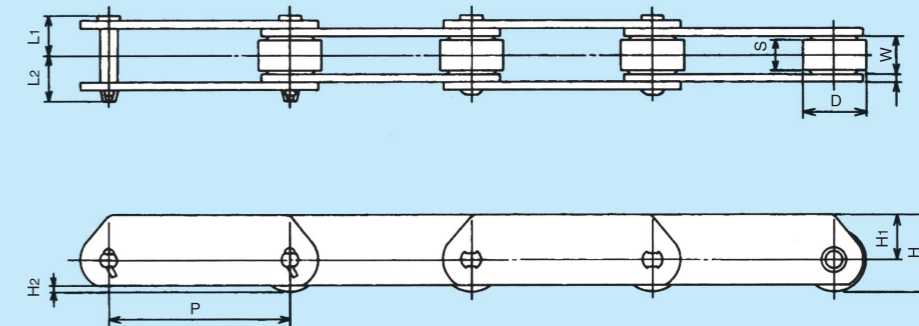
PULTON Chain No.	Pitch P	Plate T	G-4 Attachments						Additional Weight per Attachment (kg)	Approx. Weight with Attachments at every 2nd Link		
			O	D	L	K	G	Q		R type	F type	S type
										Dimensions - mm		
PC5100-S PC5150-R F S	100 150	4.5	9.5	17	50 75	50 70	80 100	20.5	0.31 0.43	6.5 5.5	6.8 5.7	5.3 4.7
PC10150-R F S	150	6.3	11	22	75	70	110	28.1	0.61	9.5	9.7	8.9
PC12200-R F S PC12250-R F S	200 250	7.9	15	27	100 140	80 100	130 150	34.7	0.97 1.45	14 13.3	14.6 13.8	10.8 10.7
PC17200-R F S PC17250-R F S PC17300-R F S	200 250 300	9.5	15	27	100 140 180	80 100 120	127 150 170	45.2	1.12 1.69 2.39	22.5 20.6 19.8	23.5 21.6 20.6	14.8 14.5 14.5
PC26300-R F S PC26450-R F S	300 450	9.5	15	27	180 250	120 140	170 190	48.1	2.24 3.98	27.1 23.1	28.4 24	17.5 16.8
PE5600-R F S	152.4	6.3	11	22	75	70	110	28.1	0.5	9.4	9.7	7.6
PE12600-R F S	152.4	7.9	15	27	75	70	120	34.7	0.53	13.8	14.1	11

Deep Link Chains

Deep Link Chains have high link plates, which allow the conveyed goods to be directly placed on the link plates. The use of large rollers reduces friction generated at roller rotation over the chain guide rail.

Examples of application include:

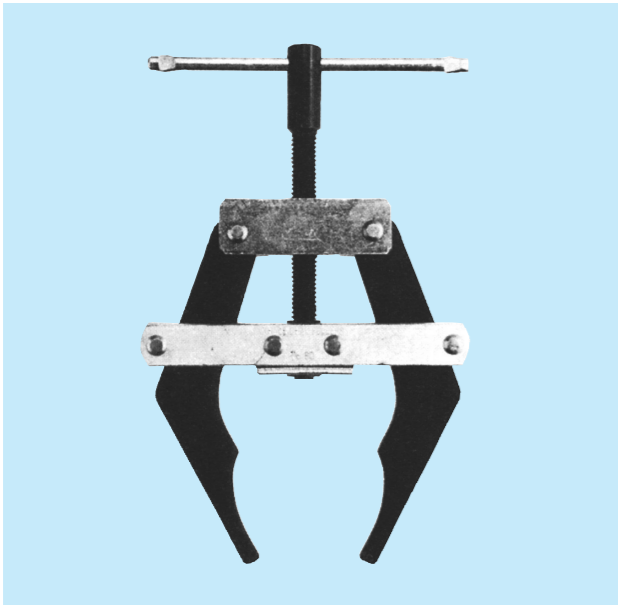
1. Conveyor line for thick plate or shape steel in steel mills;
2. Assembly line for automobiles; and
3. Conveyor line for pallets or containers.



PULTON Chain No.	Pitch P	Roller Dia.		Width Between Inner Plates W	Pin Length		Height H	Link Plate			Average Tensile Strength kN	Approx. Weight kg/m
		Dr	S		L1	L2		H1	H2	Thickness T		
		Dimensions - mm										
PCSD3075-R PCSD3100-R	75 100	31.8	15.5	16.1	17.1	19.3	36.9	21	4.9	3.2	29.41	3.2 2.8
PCD3075-R PCD3100-R	75 100	30	15.5	18	18	20	36	21	4	3.2	29.41	3 2.6
PCD5100-R PCD5150-R	100 150	40	19	22.2	24	27	44	24	4	4.5	68.64	5.9 4.9
PCD10150-R PCD10200-R	150 200	50	26.5	30	32	36	57	32	6	6.3	112.75	9.7 8.5
PCD12200-R PCD12250-R	200 250	65	32	36.5	39.5	46	73.5	41	10	7.9	186.32	14.9 13.5
PCD17250-R PCD17300-R	250 300	80	45.8	50.8	51	59.5	90	50	14.6	9.5	245.1	22.5 21.5
PCE12600-R	152.4	57.2	31.5	36.5	39.5	46	63.6	35	6.1	7.9	186.32	14

Note: Heavy-duty type conveyor chains are available upon request.

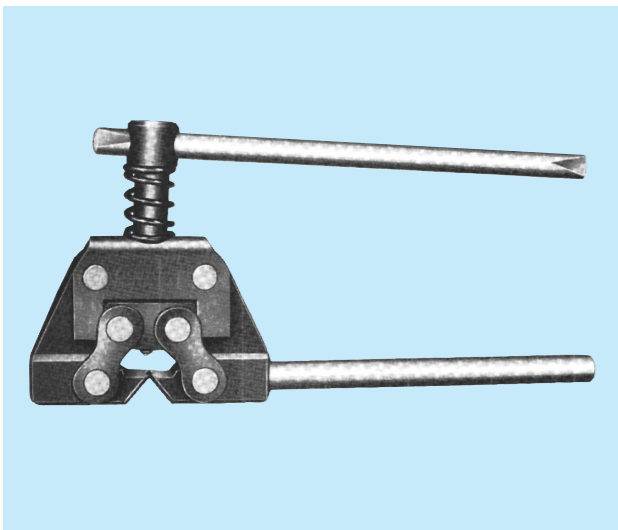
Chain Drive Selection



Chain Puller

Chain Puller is an additional tool which permits fast and easy method for endless chain assembly. The two jaws are hooked into the ends of the chain, and the hand screw is turned until the connecting link glides into position.

Model	Chain Size	kg/set
No.35	PULTON 35 - 60	0.23
No.60	PULTON 60 - 100	0.7
No.80	PULTON 80 - 240	1.12



Chain Detacher

Chain Detacher is a lightweight hand tool which quickly disassembles roller chain without the need of a hammer, punch, or vise. In short, "one tool does all the work". There are three models for use with ANSI Standard Chains sizes No.35 through No.100.

Model	Chain Size	kg/set
No.50	PULTON 35 - 50	0.31
No.60	PULTON 35 - 60	0.36
No.100	PULTON 60 - 100	1



Straight punch type Chain Cutter

Straight punch type Chain Cutter has much higher efficiency in quick disassembling for chains compared with the conventional chain cutter.

Model	Chain Size	kg/set
No.25	PULTON 25	0.85
No.35 - 40	PULTON 35 - 40	0.85
No.50	PULTON 50	1.15
No.60	PULTON 60	1.15
No.80	PULTON 80	1.9
No.100	PULTON 100	2.5

Chains can be selected according to two methods;

1. General Selection
2. Slow-speed selection

1. General Selection

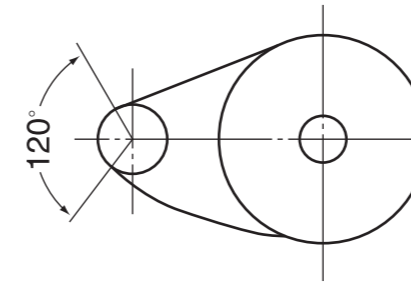
The following information are essential to be able to select the appropriate chain and sprocket for roller chain transmission.

Power to be transmitted. (kW)

Speed of driving shaft and driven shaft per minute

Speed ratio refers to the ratio of the speed of the driving shaft to the speed of the driven shaft. The speed ratio of chains can range up to 7:1 under normal operating conditions.

The take-up angle between the smaller sprocket and the chain should be at least 120° to obtain smooth transmission.



Center distance between driving shaft and driven shaft

Sprockets can be separated at any distance as long as their teeth do not touch. Optimum distance is 30 to 50 times the pitch of the chain used.

- 1) Adjust power to be transmitted (kW)

The actual power to be transmitted is affected by the load of the machine and power source used. Therefore, adjustments must be taken according to Service Factor shown in Table I. The power to be transmitted (kW) is multiplied by the corresponding service factor to obtain the design kW value.

- 2) Determine roller chain and number of teeth of smaller sprocket

Use the Quick Selection Table (Table V) and select an appropriate chain and the number of teeth for small sprocket by referring to the number of revolutions of the high speed shaft (i.e., the driving shaft when the speed is reduced; the driven shaft when the speed is increased) and the design kW.

If the capacity of simplex chain is insufficient, select a multiplex chain. In this case, use the following table for multi-strand factor.

Table II: Multi-strand Factor

Number of Roller Chain Strand	Multi - Strand Factor
2	1.7
3	2.5
4	3.3
5	3.9
6	4.6

- 3) Determine of the number of teeth of large sprocket

After the number of teeth of the small sprocket is determined, multiply it by the speed ratio to determine the number of teeth of the large sprocket. The recommended maximum number of teeth is 114 or less.

Table I: Service Factor

Type of Impact	Example of Machine	Type of Input Power		
		Electric motor or turbine	Internal Combustion Engine	
			With hydraulic drive	Without hydraulic drive
Smooth	Agitators, Centrifugal blowers, Textile machines, General machines with small load fluctuation.	1.0	1.0	1.2
Moderate	Centrifugal compressors, Conveyors with moderate load fluctuation, Dryers, General work machines.	1.3	1.2	1.4
Heavy	Construction or mining machines, Presses, Vibration machines. General machines with reverse or impact load.	1.5	1.4	1.7

4) Calculate Chain Length

The number of pitches (length of chain) can be obtained by the following formula : (Note: Raise the value to a unit to make it an integer.)

$$L_p = \frac{N1 + N2}{2} + 2 C_p + \frac{|(N2 - N1) / 2 \pi|^2}{C_p}$$

- L : Number of pitches of chain
- N1 : Number of teeth of small sprocket
- N2 : Number of teeth of large sprocket
- C : Center distance of two sprockets/Chain pitch

If the number of pitches (length of chain) is already given, the center distance between the sprockets can be obtained by the following formula:

$$C_p = \frac{1}{4} \left\{ L_p - \frac{N1 + N2}{2} + \sqrt{\left(L_p - \frac{N1 + N2}{2} \right)^2 - \frac{2}{\pi^2} (N2 - N1)^2} \right\}$$

2. Slow-speed Selection

This is one of the economical selection methods based on fatigue strength of chain for conditions where (i) the operation speed of chain is 50m/min. or less, and (ii) there is no worry of wear elongation and shock fracture of rollers and bushings. However, a chain selected by this method may be subject to severe conditions, and thus, special care should be taken for the chain selection. The slow-speed selection method is not applicable to connecting link and offset link.

1) Calculate Chain Tension

If the chain tension is unknown, it can be obtained by using the following formula with kW of the input power to be transmitted.

$$F = \frac{60 \times kW}{V} \quad (\text{kN})$$

- F : Chain Tension
- V : Chain Speed (m/min)

2) Determine Corrected Chain Tension

Chain tension needs to be corrected as per the conditions of use, in the same way as described in General Selection part. Use service Factor (Table I) and then use Sprocket Tooth Factor (Table III) and Speed Factor (Table IV) to take into consideration increase of tension caused by vibration, centrifugal force, inertia force, etc..The

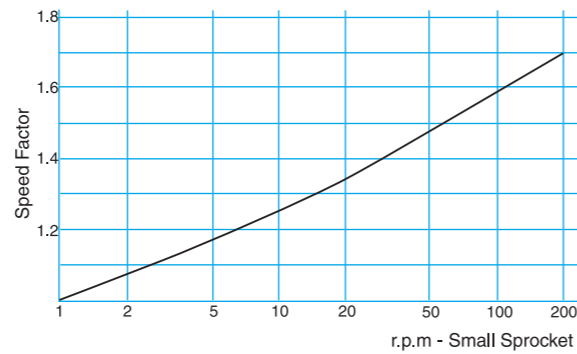
corrected Chain Tension can be obtained using the following formula:

$$\text{Corrected Chain Tension} = \text{Chain Tension} \times \text{Service Factor} \times \text{Sprocket Teeth Factor} \times \text{Speed Factor}$$

Table III : Sprocket tooth Factor

Number of Tooth on Small Sprocket	Sprocket Tooth	Number of Tooth on Small Sprocket	Sprocket Tooth
9	1.085	19	1.022
11	1.068	21	1.014
13	1.054	23	1.007
15	1.042	25 or over	1.0
17	1.031		

Table IV : Speed Factor



3) Determine the Chain

If the maximum allowable tension stated in the table of each chain dimensions is larger than the corrected chain tension, the chain is selected correctly.

4) Check Chain Speed

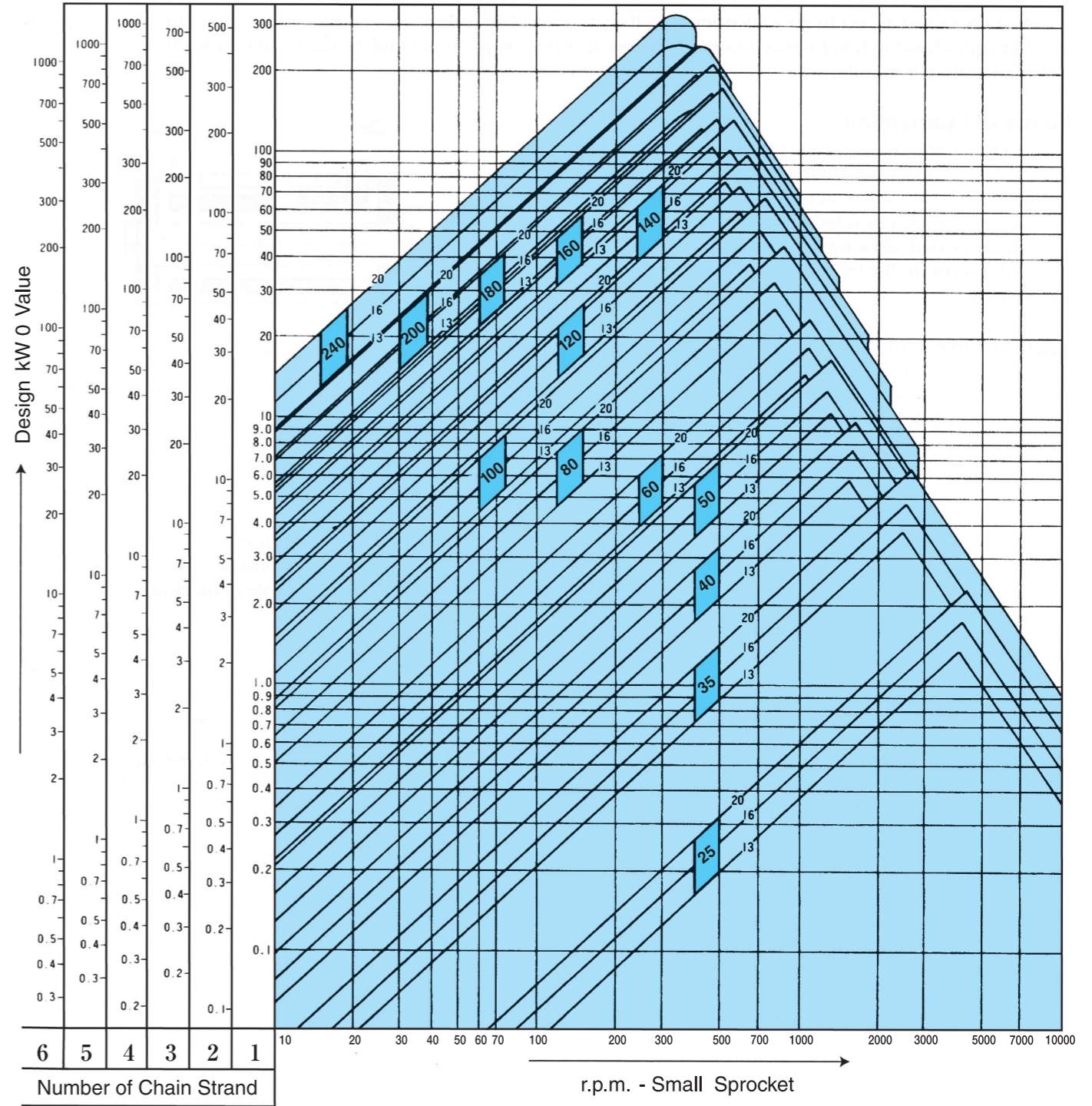
The chain speed can be calculated using the formula below. If the chain speed exceeds 50m/min., choose General Selection instead of Slow-speed Selection.

$$V = \frac{P \times N1 \times \Gamma1}{1000}$$

- V : Chain Speed (m/min)
- P : Chain Pitch (mm)
- N1 : Teeth of small sprocket
- Γ1 : Revolution of Small Sprocket (r.p.m)

The method for determining the number of teeth of large sprocket and calculation of chain length is the same as those described at General Selection part. Consult with Pulton for the chain use for (i) transmission of frequent go-and-stop, and (ii) inversion with impact load.

Table V : Quick Selection Table



How to use this table

A Chain and the teeth of sprocket are easily selected by checking the intersection of revolution per minute (r.p.m) of design kW (vertical axis) and small sprocket (horizontal axis).

Example :

Assume design kW to be 5kW, and the r.p.m of the small sprocket at 100. By taking the intersection point of this design kW value of 5kW and the rpm value of 100, one can derive Pulton 80 chain and a sprocket with 16T from the chart.,

Lubrication in Roller Chain Power Transmission

Generally, the life span of the chain depends on how the chain is stretched by the abrasions of the pin and the bushing. It is, therefore, necessary to use skillfully the chain in order to reduce the amount of such abrasions. To be able to do so, the most important aspect to give attention to is the process called "lubrication". Accordingly, extending the lifespan of the chain goes hand in hand with choosing the most appropriate method of lubrication that best fits the chain's type and revolution per minute, atmosphere, temperature, etc.

Points of Lubrication

Lubrication of the chain is done by dropping enough lubricant in between spaces of the pin link plate and roller link plate. With adequate saturation, abrasion is minimized and the life span of the chain is extended. Likewise, when the top of the roller is lubricated, abrasion between metals is prevented as an oil film forms in the interior of the roller and exterior of the bushing.

Type of Lubricant

Use only high quality materials as lubricant for the roller chain power transmission. The degree of viscosity of greasy materials is too high, and therefore unsuitable as they cannot penetrate the space between the pin and the bushing. Generally, mobile oil is used. Selection is shown in Table VI.

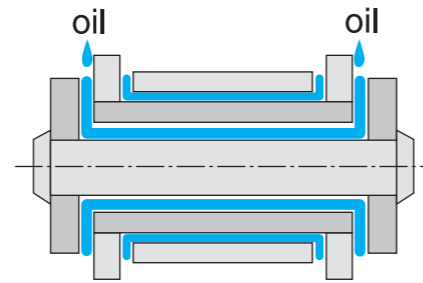
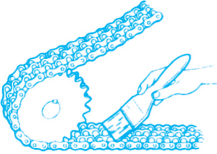
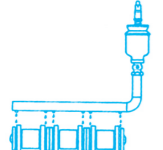

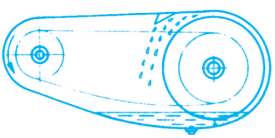
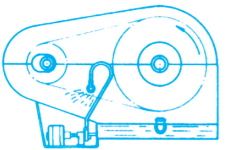


Table VI : Type of Lubricant

Atmospheric Temperature	Recommended Oil
-5° C ~ 5° C	SAE 20
5° C ~ 40° C	SAE 30
40° C ~ 50° C	SAE 40
50° C ~ 60° C	SAE 50

In case the atmosphere and temperature will be below -5° C and 60° C or higher, consult with our company as it will require a special type of lubricant.

Method of Lubrication

Method of Lubrication	Form of Lubrication
 Aim at the space between pin link and roller link of the loosen part of the chain; lubricate it with a greaser or a brush.	Periodically lubricate the roller every 8 hours when it is in operation to at least prevent drying.
 With the use of a simple casing, drop oil and lubricate by using an oil cup, etc.	Each strand of chain should normally receive 5~20 drops of oil per minute.
 With the use of an oil leak-proof casing, lubricate while the chain is running inside the oil reservoir.	Soak the bottom part of the chain in 6~12 mm of oil.
 Provide a pool of oil inside an oil leak-proof casing, attach a large slinger disc from the diameter of the sprocket, splash oil and lubricate the chain.	The side of the oil is lower than the lowest point of the chain, and soak the slinger disc in oil about 15mm.
 With the use of an oil leak-proof casing, do forceful cyclical lubrication of oil from the pump.	If the supply of oil stops due to some malfunction in the circulatory system, caution should be taken while trouble shooting the problem about maintenance to prevent accidents.

WARNING

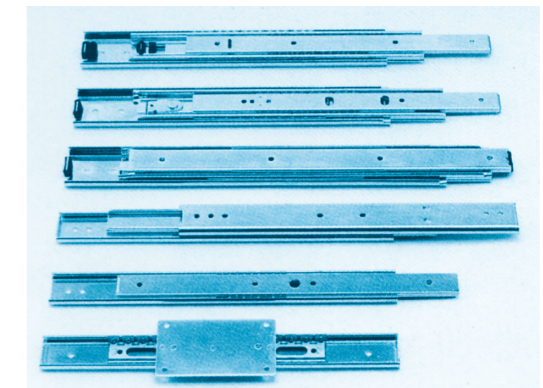
Safety Precautions in Installing, Removing, Lubricating or Servicing a Chain System

1. There should be guards provided on all chain and sprocket installations in accordance with existing applicable safety standards.
2. Be sure the power is off before installing, removing, lubricating or servicing a chain system.
3. To prevent eye injury, always wear safety glasses.
4. Wear appropriate protective clothing, hats, gloves and safety shoes always.
5. Always make sure that tools are in good working condition; always follow the directions to ensure their correct and proper use.
6. Always loosen tensioning devices.
7. Always support the chain to prevent the uncontrolled movement of the chain and parts.
8. Always discard damaged chain or chain parts and never reuse them; likewise, never reuse other individual components or parts.
9. Failure to follow these instructions may result in serious injury or death.

Other Products

Slide Rails

Depending on the rolling contact of the steel ball, operation by slide rail will be extremely light, and the precise reciprocating motion can be kept longer. Uses of the slide rails vary as they can be used for different purposes such as computers to begin with, cabinets, office desks, safes, kitchen utensils, etc.



Rollerpack

Pulton Rollerpack is a roller type of unlimited linear motion system where the three special rollers, which have the interior of the precision roller shaped slide rails fit to the slider, alternately collide and roll. It is most ideal for use in sliding doors of machine tools, furniture, amusement machines, office automation machines, curtain wall, automated equipment, packaging related equipment, and moving parts of doors.

