

A comprehensive manufacture of conveyor chains providing new value to meet the needs of a new age

Conveying equipment serve as the base for the flow of new products that supply contemporary needs. In this field, Tokuno Manufacturing Co., Ltd. handles the integrated production of conveyor chains, covering all stages from development and design to parts manufacturing and assembly.

For more than sixty years since foundation, we have accumulated experience and technology along with our "Customer First" motto. Through developing new products leveraging our technical capability, and always considering how to provide "new value" to meet the demands of the age and society, we have been delivering appropriate products focusing mainly on the industrial world.

Based on a wealth of experience as well as research and development, we will continue endeavoring to provide products that will leave users satisfied with the TKN brand name.

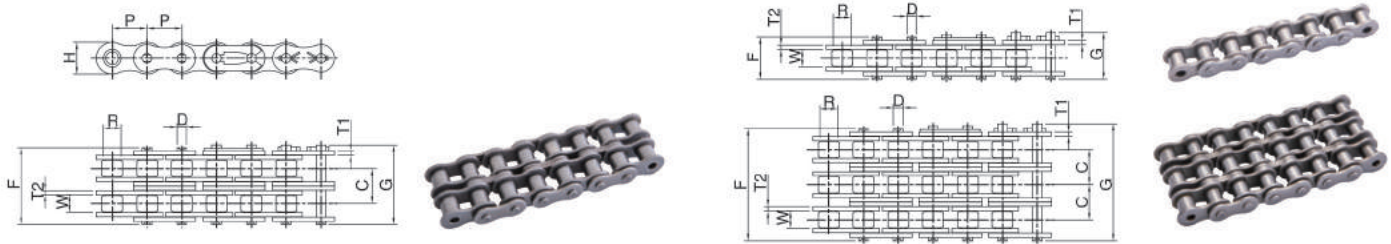


STANDARD CHAINS



Standard Roller Chains

Standard Roller Chain

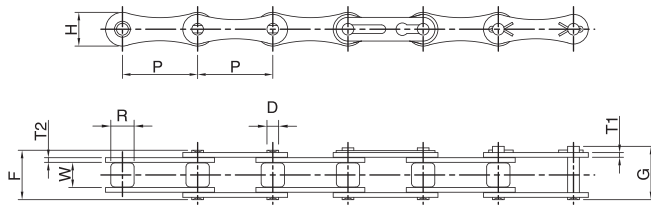


CHAIN NO.	Pitch		Width	Roller	Plate			Pin			Transverse Pitch C	Ultimate Strength kgf(min)	Approx Weight kg/m
	P		W	Dia	Height	Thickness	Dia	Length					
	inch	mm	(min)	R(max)	H(max)	T1	T2	D(max)	F(max)	G(max)			
25	1/4"	6.35	3.10	3.30	6.02	0.75	0.75	2.31	9.1	11.6	---	357	0.14
25-2	1/4"	6.35	3.10	3.30	6.02	0.75	0.75	2.31	15.5	18.0	6.40	714	0.26
35	3/8"	9.525	4.68	5.08	9.05	1.25	1.25	3.60	13.2	16.5	---	806	0.33
35-2	3/8"	9.525	4.68	5.08	9.05	1.25	1.25	3.60	23.4	26.7	10.10	1612	0.69
35-3	3/8"	9.525	4.68	5.08	9.05	1.25	1.25	3.60	33.5	36.8	10.10	2418	1.05
41	1/2"	12.70	6.25	7.77	9.91	1.25	1.25	3.60	14.0	16.0	---	684	0.41
40	1/2"	12.70	7.85	7.92	12.07	1.50	1.50	3.98	17.8	21.7	---	1418	0.63
40-2	1/2"	12.70	7.85	7.92	12.07	1.50	1.50	3.98	32.3	36.2	14.40	2837	1.19
40-3	1/2"	12.70	7.85	7.92	12.07	1.50	1.50	3.98	46.7	50.6	14.40	4255	1.77
50	5/8"	15.875	9.40	10.16	15.09	2.00	2.00	5.09	21.8	25.9	---	2224	1.01
50-2	5/8"	15.875	9.40	10.16	15.09	2.00	2.00	5.09	39.9	44.0	18.10	4449	2.04
50-3	5/8"	15.875	9.40	10.16	15.09	2.00	2.00	5.09	57.9	62.0	18.10	6673	3.05
60	3/4"	19.05	12.57	11.91	18.10	2.40	2.40	5.96	26.9	31.5	---	3194	1.44
60-2	3/4"	19.05	12.57	11.91	18.10	2.40	2.40	5.96	49.8	54.4	22.80	6388	3.03
60-3	3/4"	19.05	12.57	11.91	18.10	2.40	2.40	5.96	72.6	77.2	22.80	9582	4.50
80	1"	25.40	15.75	15.88	24.13	3.20	3.20	7.94	33.5	38.9	---	5673	2.40
80-2	1"	25.40	15.75	15.88	24.13	3.20	3.20	7.94	62.7	68.1	29.30	11347	5.26
80-3	1"	25.40	15.75	15.88	24.13	3.20	3.20	7.94	91.9	97.3	29.30	17020	7.80
100	1-1/4"	31.75	18.90	19.05	30.17	4.00	4.00	9.54	41.1	47.2	---	8878	3.74
100-2	1-1/4"	31.75	18.90	19.05	30.17	4.00	4.00	9.54	77.0	83.1	35.80	17755	7.51
100-3	1-1/4"	31.75	18.90	19.05	30.17	4.00	4.00	9.54	113.0	119.1	35.80	26633	11.20
120	1-1/2"	38.10	25.22	22.23	36.20	4.80	4.80	11.11	50.8	57.4	---	12755	6.18
120-2	1-1/2"	38.10	25.22	22.23	36.20	4.80	4.80	11.11	96.3	102.9	45.40	25510	12.25
120-3	1-1/2"	38.10	25.22	22.23	36.20	4.80	4.80	11.11	141.7	148.3	45.40	38265	18.30
140	1-3/4"	44.45	25.22	25.40	42.23	5.60	5.60	12.71	54.9	62.3	---	17347	7.49
140-2	1-3/4"	44.45	25.22	25.40	42.23	5.60	5.60	12.71	103.6	111.0	48.90	34694	14.83
140-3	1-3/4"	44.45	25.22	25.40	42.23	5.60	5.60	12.71	152.4	159.8	48.90	52041	22.20
160	2"	50.80	31.55	28.58	48.26	6.40	6.40	14.29	65.5	73.4	---	22755	10.10
160-2	2"	50.80	31.55	28.58	48.26	6.40	6.40	14.29	124.2	132.1	58.50	45510	20.04
160-3	2"	50.80	31.55	28.58	48.26	6.40	6.40	14.29	182.9	190.8	58.50	68265	30.02
180	2-1/4"	57.15	35.48	35.71	54.30	7.10	7.10	17.46	73.9	83.0	---	28673	13.40
180-2	2-1/4"	57.15	35.48	35.71	54.30	7.10	7.10	17.46	140.0	149.1	65.84	57347	26.20
180-3	2-1/4"	57.15	35.48	35.71	54.30	7.10	7.10	17.46	206.0	215.1	65.84	86020	38.10
200	2-1/2"	63.50	37.85	39.68	60.33	8.00	8.00	19.85	80.3	90.5	---	35408	16.50
200-2	2-1/2"	63.50	37.85	39.68	60.33	8.00	8.00	19.85	151.9	162.1	71.60	70816	32.70
200-3	2-1/2"	63.50	37.85	39.68	60.33	8.00	8.00	19.85	223.5	233.7	71.60	106224	49.05
240	3"	76.20	47.35	47.63	72.40	9.50	9.50	23.81	95.5	106.0	---	51020	24.20
240-2	3"	76.20	47.35	47.63	72.40	9.50	9.50	23.81	183.4	193.9	87.80	102041	47.80
240-3	3"	76.20	47.35	47.63	72.40	9.50	9.50	23.81	271.3	281.8	87.80	153061	71.10

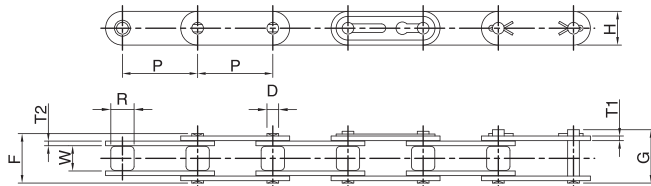
* Comply with ANSI standard.

Standard Roller Chains

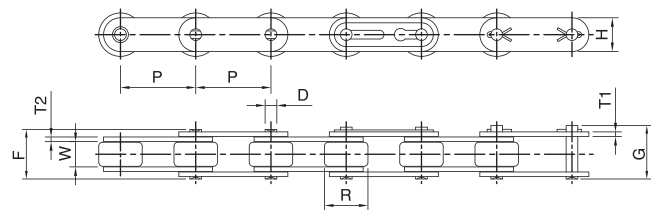
Double Pitch Roller Chain



CHAIN NO.	Pitch		Width	Roller	Plate			Pin			Ultimate Strength	Approx Weight
	P		W	Dia	Height	Thickness		Dia	Length			
	inch	mm	(min)	R(max)	H(max)	T1	T2	D(max)	F(max)	G(max)	kgf(min)	kg/m
A2040	1"	25.40	7.85	7.92	12.0	1.50	1.50	3.98	17.8	21.7	1418	0.40
A2050	1-1/4"	31.75	9.40	10.16	15.0	2.00	2.00	5.09	21.8	25.9	2224	0.66



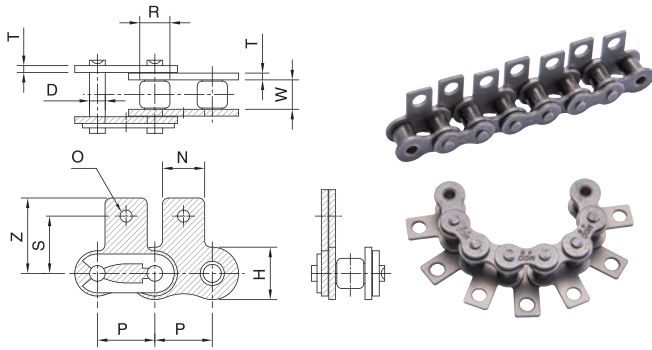
CHAIN NO.	Pitch		Width	Roller	Plate			Pin			Ultimate Strength kgf(min)	Approx Weight kg/m
	P		W	Dia	Height	Thickness		Dia	Length			
	inch	mm	(min)	R(max)	H(max)	T1	T2	D(max)	F(max)	G(max)		
C2040	1"	25.40	7.85	7.92	12.0	1.50	1.50	3.98	17.8	21.7	1418	0.49
C2050	1-1/4"	31.75	9.40	10.16	15.0	2.00	2.00	5.09	21.8	25.9	2224	0.84
C2060H	1-1/2"	38.10	12.57	11.91	18.0	3.20	3.20	5.96	30.2	34.8	3194	1.45
C2080H	2"	50.80	15.75	15.88	24.1	4.00	4.00	7.94	37.4	42.8	5673	2.41
C2100H	2-1/2"	63.50	18.90	19.05	30.1	4.80	4.80	9.54	44.5	50.6	8878	3.50
C2120H	3"	76.20	25.22	22.23	36.2	5.60	5.60	11.11	55.0	61.6	12755	6.00
C2160H	4"	101.60	31.55	28.58	48.2	7.20	7.20	14.29	69.4	77.3	22694	8.80



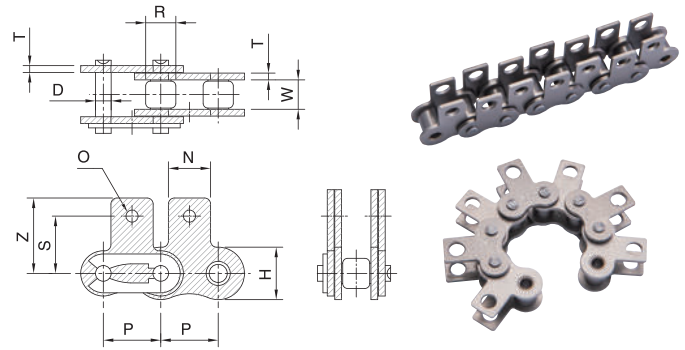
CHAIN NO.	Pitch		Width	Roller	Plate			Pin			Ultimate Strength kgf(min)	Approx Weight kg/m
	P		W	Dia	Height	Thickness		Dia	Length			
	inch	mm	(min)	R(max)	H(max)	T1	T2	D(max)	F(max)	G(max)		
C2042	1"	25.40	7.85	15.88	12.0	1.50	1.50	3.98	17.8	21.7	1418	0.86
C2052	1-1/4"	31.75	9.40	19.05	15.0	2.00	2.00	5.09	21.8	25.9	2224	1.32
C2062H	1-1/2"	38.10	12.57	22.23	18.0	3.20	3.20	5.96	30.2	34.8	3194	2.17
C2082H	2"	50.80	15.75	28.58	24.1	4.00	4.00	7.94	37.4	42.8	5673	3.45
C2102H	2-1/2"	63.50	18.90	39.67	30.1	4.80	4.80	9.54	44.5	50.6	8878	4.68
C2122H	3"	76.20	25.22	44.45	36.2	5.60	5.60	11.11	55.0	61.6	12755	8.00
C2162H	4"	101.60	31.55	57.15	48.2	7.20	7.20	14.29	69.4	77.3	22694	13.52

Attachments Chains Roller Chain Attachments

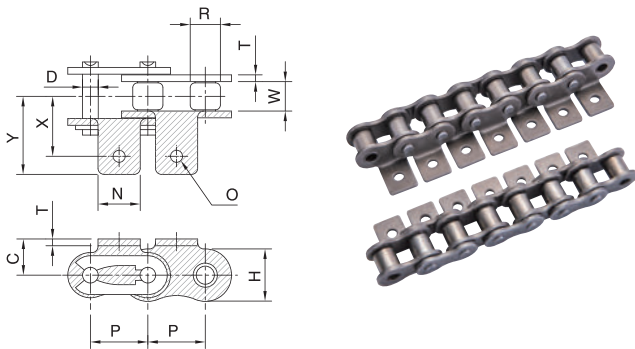
SA1



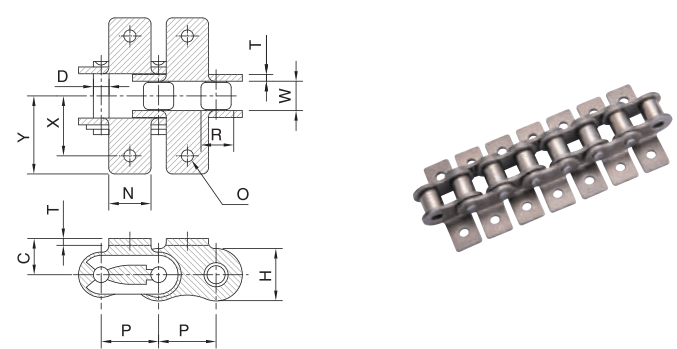
SK1



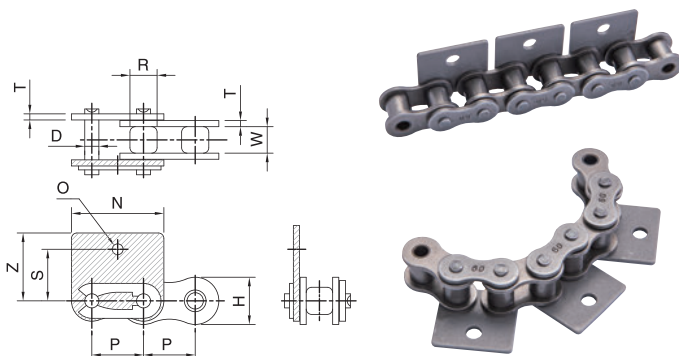
A1



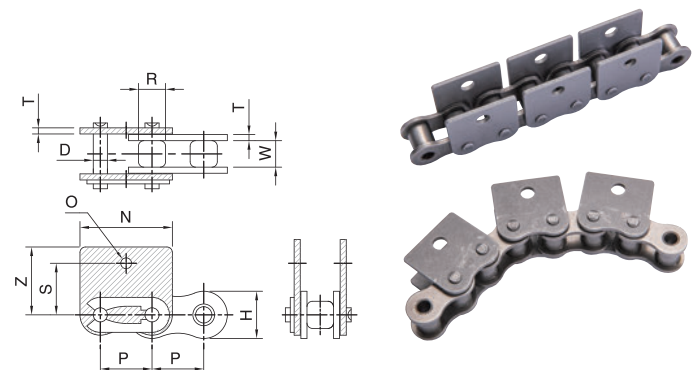
K1



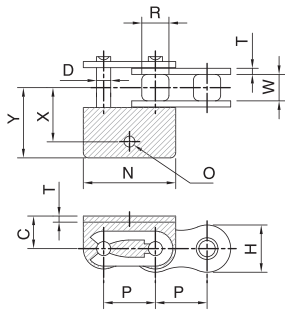
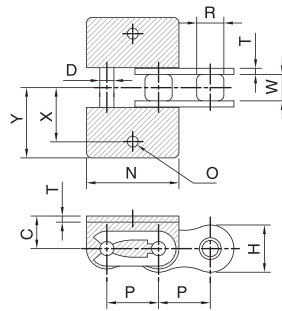
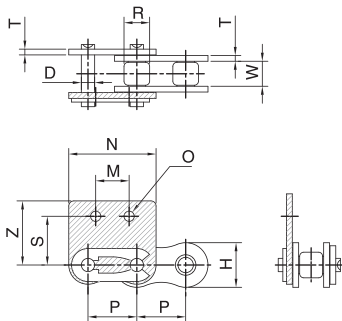
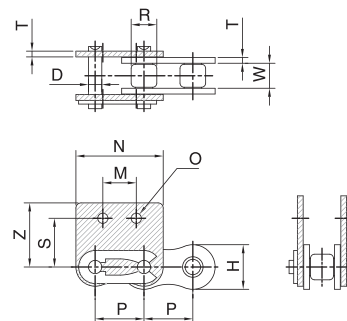
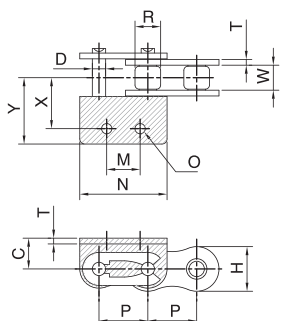
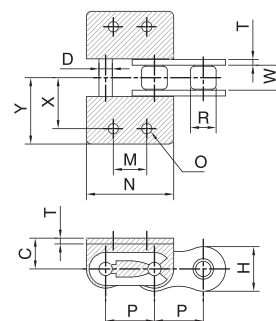
WSA1



WSK1

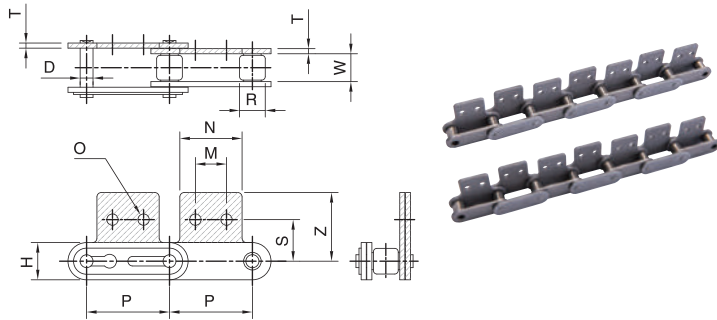


Attachments Chains ● Roller Chain Attachments

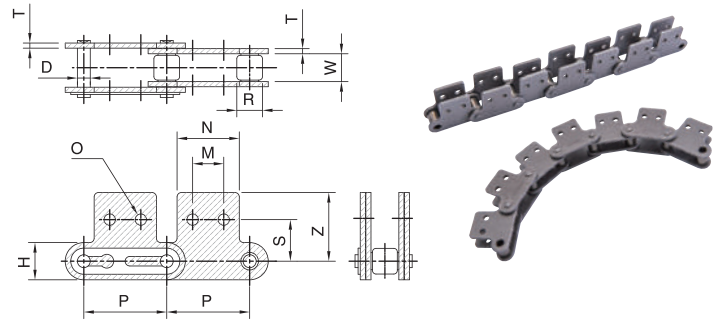
WA1**WK1****WSA2****WSK2****WA2****WK2**

Attachments Chains Roller Chain Attachments

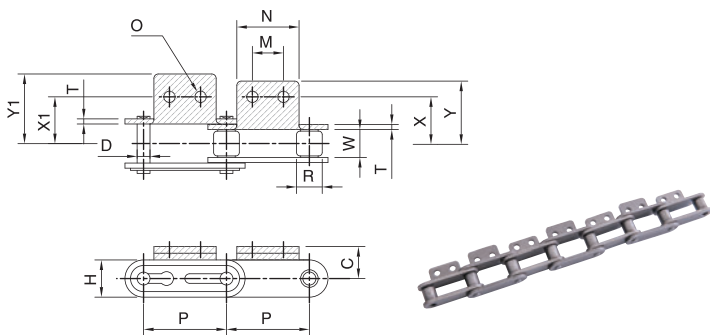
SA2



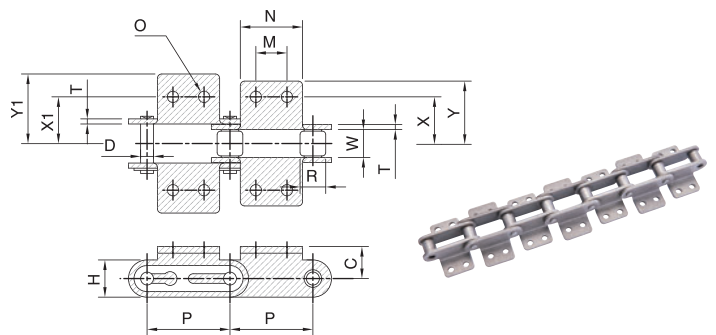
SK2



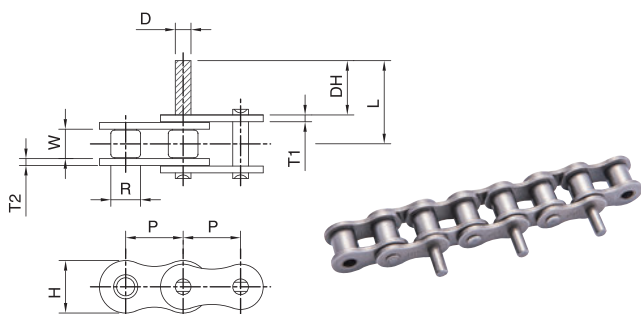
A2



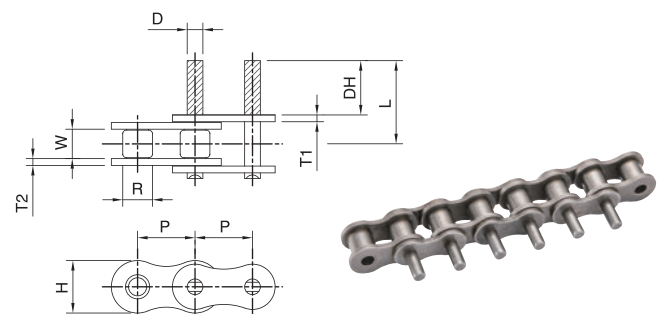
K2



D1/AG

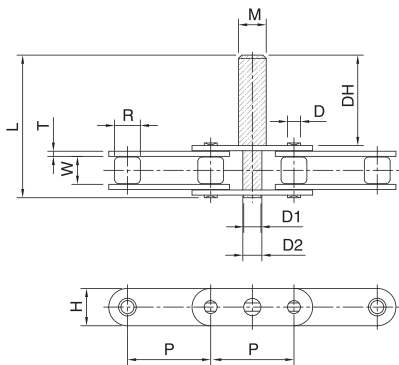


D3

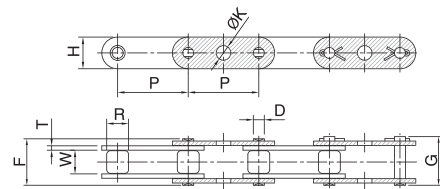


Attachments Chains ● Roller Chain Attachments

D5

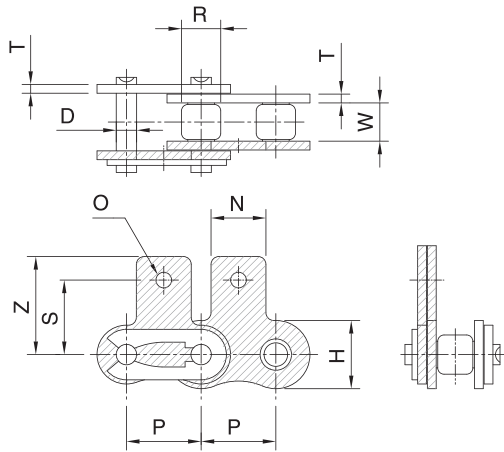


GK1

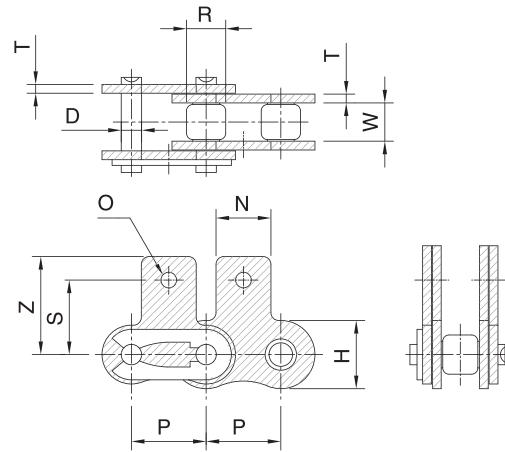


Attachments Chains Roller Chain Attachments

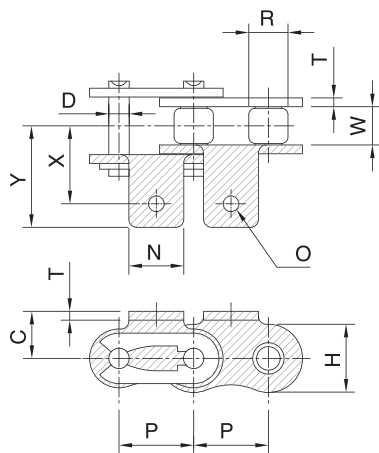
SA1



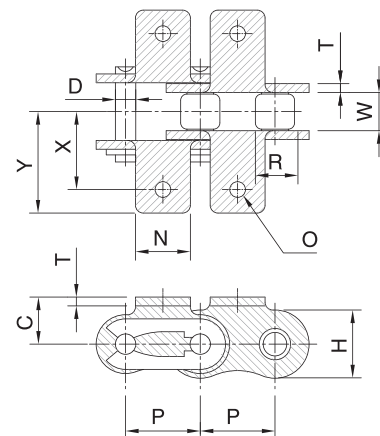
SK1



A1



K1

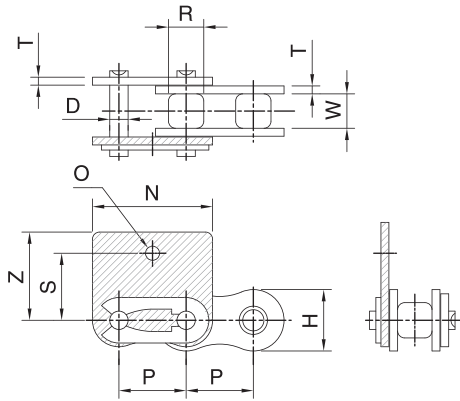


CHAIN NO.	Pitch		Width	Roller	Plate		Pin	Attachment								Ultimate
	P		W	Dia	Height	Thick.	Dia				A-1,K-1(ref.)			SA-1,SK-1(ref.)		Strength
	inch	mm	(min)	R(max)	H(max)	T	D(max)	N	O(min)		C	X	Y	S	Z	kgf(min)
25	1/4"	6.35	3.10	3.30	6.02	0.75	2.31	5.60	3.30		4.75	7.15	10.70	---	---	357
35	3/8"	9.525	4.68	5.08	9.05	1.25	3.60	7.90	2.70	3.30	6.35	9.50	14.30	9.50	14.55	806
41	1/2"	12.70	6.25	7.77	9.91	1.25	3.60	9.50	3.20		---	---	---	12.24	17.73	684
40	1/2"	12.70	7.85	7.92	12.07	1.50	3.98	9.50	3.50		8.00	12.70	17.80	12.70	17.40	1418
50	5/8"	15.875	9.40	10.16	15.09	2.00	5.09	12.70	5.10		10.30	15.90	23.40	15.90	23.05	2224
60	3/4"	19.05	12.57	11.91	18.10	2.40	5.96	15.90	5.10		11.90	19.05	28.20	18.30	26.85	3194
80	1"	25.40	15.75	15.88	24.13	3.20	7.94	19.10	6.70		15.90	25.40	36.60	24.60	35.45	5673
100	1-1/4"	31.75	18.90	19.05	30.17	4.00	9.54	25.40	8.60		19.80	31.75	44.90	31.80	44.00	8878
120	1-1/2"	38.10	25.22	22.23	36.20	4.80	11.11	28.60	9.80		23.00	38.10	55.80	---	---	12755
160	2"	50.80	31.55	28.58	48.26	6.40	14.29	38.10	13.10		31.80	50.80	71.80	---	---	22755

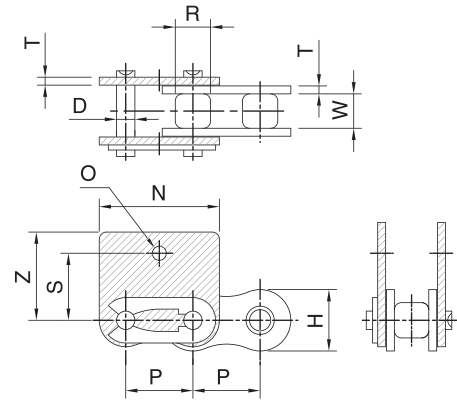
Any special specifications, please feel free to contact us.

Attachments Chains ● Roller Chain Attachments

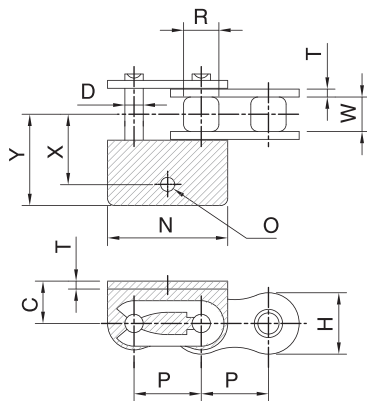
WSA1



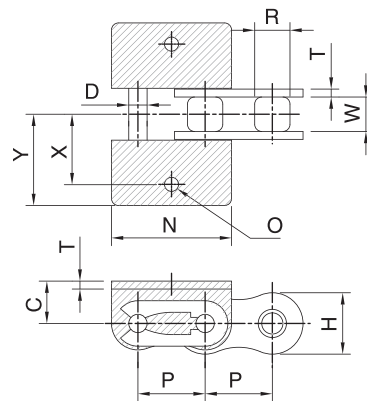
WSK1



WA1



WK1

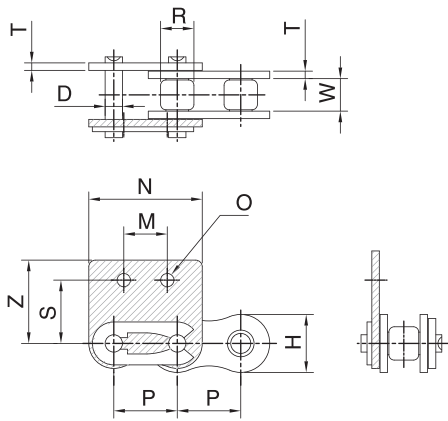


CHAIN NO.	Pitch		Width	Roller	Plate		Pin	Attachment								Ultimate Strength
	P		W	Dia	Height	Thick.	Dia		WA1 WK1	WSA1 WSK1	WA1,WK1			WSA1,WSK1		
	inch	mm	(min)	R(max)	H(max)	T	D(max)	N	O(min)		C	X	Y	S	Z	
35	3/8"	9.525	4.68	5.08	9.05	1.25	3.60	17.10	3.50	---	6.35	9.50	14.30	---	---	806
40	1/2"	12.70	7.85	7.92	12.07	1.50	3.98	22.90	3.30	4.40	8.00	12.70	17.80	12.70	17.60	1418
50	5/8"	15.875	9.40	10.16	15.09	2.00	5.09	28.70	5.10	5.40	10.30	15.90	23.40	15.90	23.05	2224
60	3/4"	19.05	12.57	11.91	18.10	2.40	5.96	34.60	6.50		11.90	19.05	28.20	18.30	27.10	3194
80	1"	25.40	15.75	15.88	24.13	3.20	7.94	45.70	6.75/8.90	8.90	15.90	25.40	36.60	24.60	35.45	5673
100	1-1/4"	31.75	18.90	19.05	30.17	4.00	9.54	56.55	---	10.90	---	---	---	31.80	44.00	8878

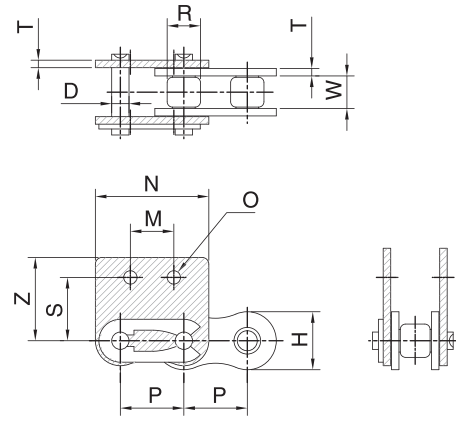
Any special specifications, please feel free to contact us.

Attachments Chains Roller Chain Attachments

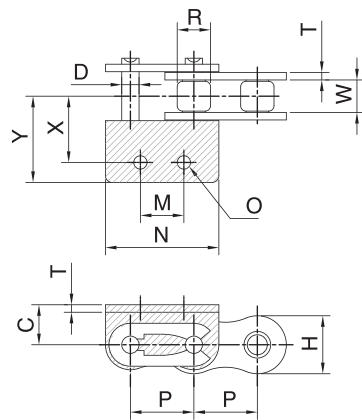
WSA2



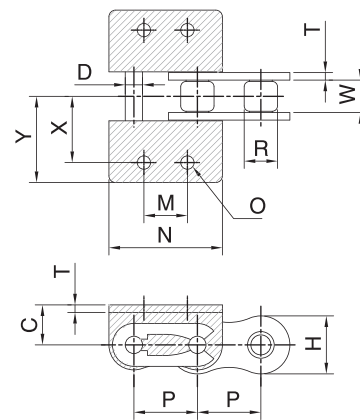
WSK2



WA2



WK2

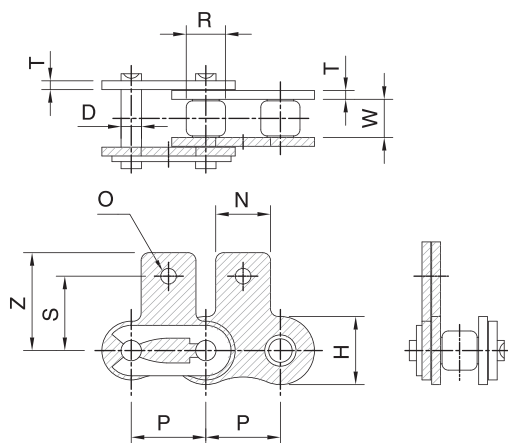


CHAIN NO.	Pitch		Width	Roller	Plate		Pin	Attachment										Ultimate
	P		W	Dia	Height	Thick.	Dia	WA2 WK2	WSA2 WSK2		WA2 WK2	WSA2 WSK2	WA2,WK2			WSA2,WSK2		Strength
	inch	mm	(min)	R(max)	H(max)	T	D(max)	M		N	O(min)		C	X	Y	S	Z	kgf(min)
40	1/2"	12.70	7.85	7.92	12.07	1.50	3.98	9.50		22.90	3.30	4.40	8.00	12.70	17.80	12.70	17.60	1418
50	5/8"	15.875	9.40	10.16	15.09	2.00	5.09	11.90		28.70	5.10	5.40	10.30	15.90	23.40	15.90	23.05	2224
60	3/4"	19.05	12.57	11.91	18.10	2.40	5.96	14.30		34.60	5.10	6.50	11.90	19.05	28.20	18.30	27.10	3194
80	1"	25.40	15.75	15.88	24.13	3.20	7.94	19.1/25.4	19.10	45.70	6.75	8.90	15.90	25.40	36.60	24.60	35.45	5673
100	1-1/4"	31.75	18.90	19.05	30.17	4.00	9.54	23.80		56.55	10.90		19.80	31.75	44.90	31.80	44.00	8878

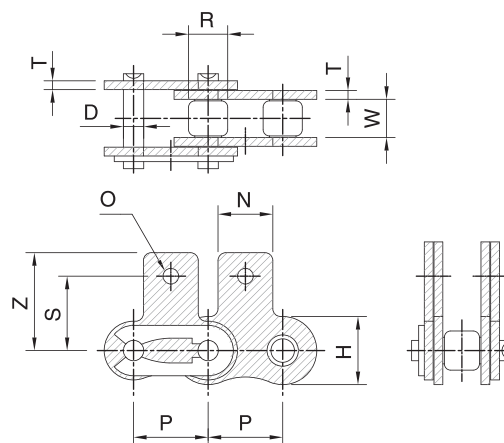
Any special specifications, please feel free to contact us.

Attachments Chains ● Roller Chain Attachments

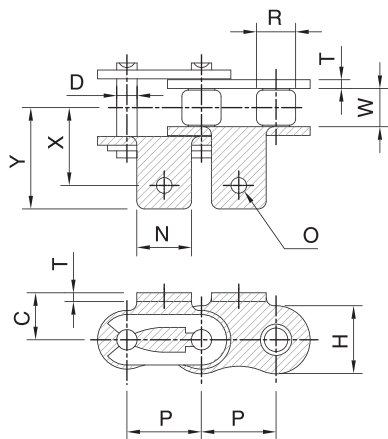
SA1



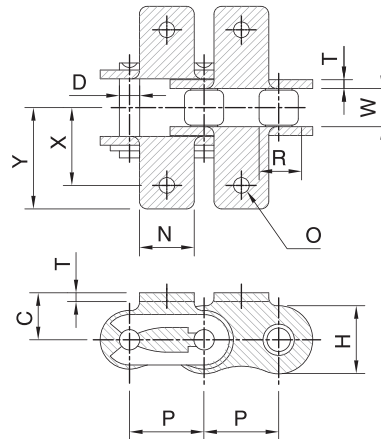
SK1



A1



K1

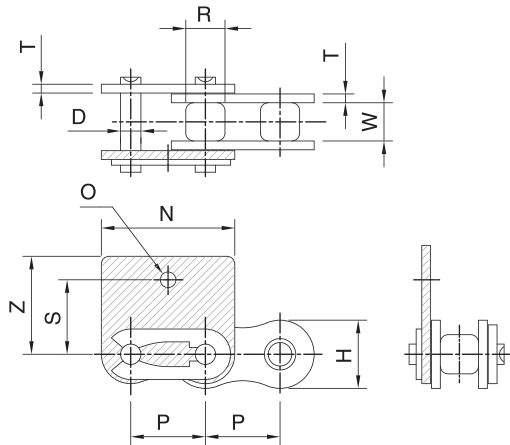


CHAIN NO.	Pitch		Width	Roller	Plate		Pin	Attachment							Allowable
	P		W	Dia	Height	Thick.	Dia	A-1,K-1							Load
	inch	mm	(min)	R(max)	H(max)	T	D(max)	N	O(min)	C	X	Y	S	Z	kgf(max)
25SS	1/4"	6.35	3.10	3.30	6.02	0.75	2.31	5.60	3.3	4.75	7.15	10.7	---	---	12
35SS	3/8"	9.525	4.68	5.08	9.05	1.25	3.60	7.90	2.70	3.30	6.35	9.50	14.30	9.50	27
40SS	1/2"	12.70	7.85	7.92	12.07	1.50	3.98	9.50	3.50	8.00	12.70	17.80	12.70	17.40	45
50SS	5/8"	15.875	9.40	10.16	15.09	2.00	5.09	12.70	5.10	10.30	15.90	23.40	15.90	23.05	70
60SS	3/4"	19.05	12.57	11.91	18.10	2.40	5.96	15.90	5.10	11.90	19.05	28.20	18.30	26.85	105
80SS	1"	25.40	15.75	15.88	24.13	3.20	7.94	19.10	6.70	15.90	25.40	36.60	24.60	35.45	180

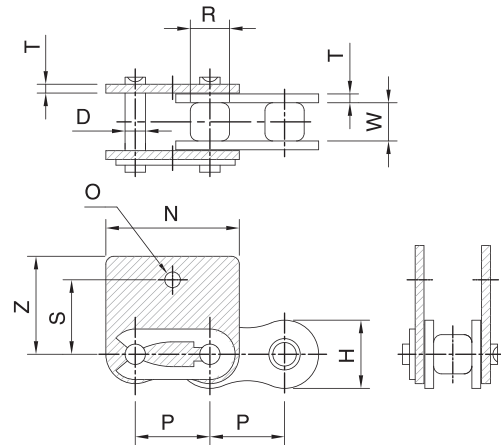
Any special specifications, please feel free to contact us.

Attachments Chains ● Roller Chain Attachments

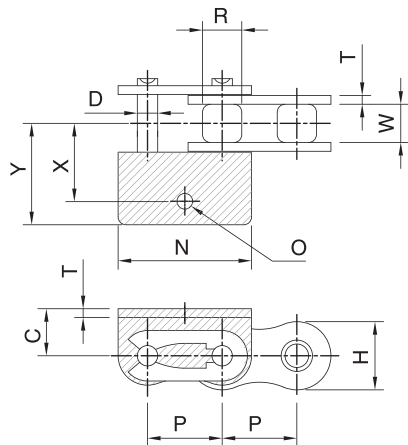
WSA1



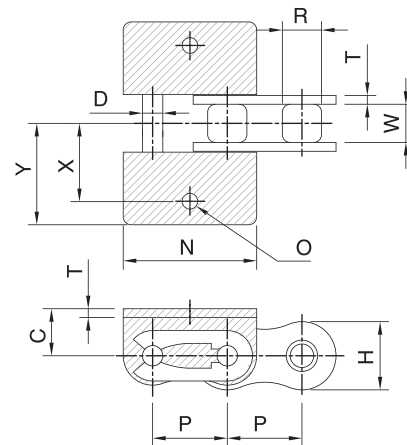
WSK1



WA1



WK1

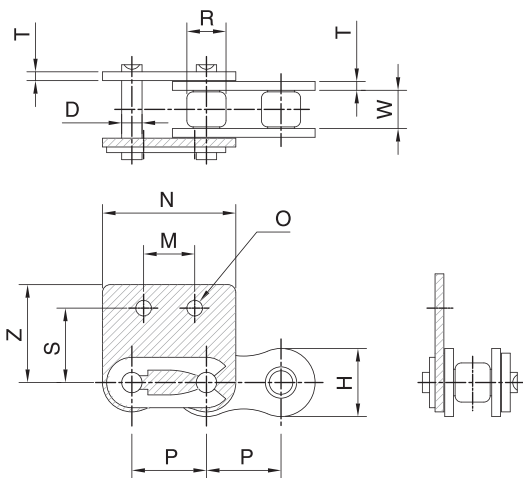


CHAIN NO.	Pitch		Width	Roller	Plate		Pin	Attachment								Allowable
	P		W	Dia	Height	Thick.	Dia		WA1	WSA1	WA1,WK1			WSA1,WSK1		Load
	inch	mm	(min)	R(max)	H(max)	T	D(max)	N	O(min)		C	X	Y	S	Z	
35SS	3/8"	9.525	4.68	5.08	9.05	1.25	3.60	17.10	3.50	---	6.35	9.50	14.30	---	---	27
40SS	1/2"	12.70	7.85	7.92	12.07	1.50	3.98	22.90	3.30	4.40	8.00	12.70	17.80	12.70	17.60	45
50SS	5/8"	15.875	9.40	10.16	15.09	2.00	5.09	28.70	5.10	5.40	10.30	15.90	23.40	15.90	23.05	70
60SS	3/4"	19.05	12.57	11.91	18.10	2.40	5.96	34.60	6.50		11.90	19.05	28.20	18.30	27.10	105
80SS	1"	25.40	15.75	15.88	24.13	3.20	7.94	45.70	6.75/8.90	8.90	15.90	25.40	36.60	24.60	35.45	180

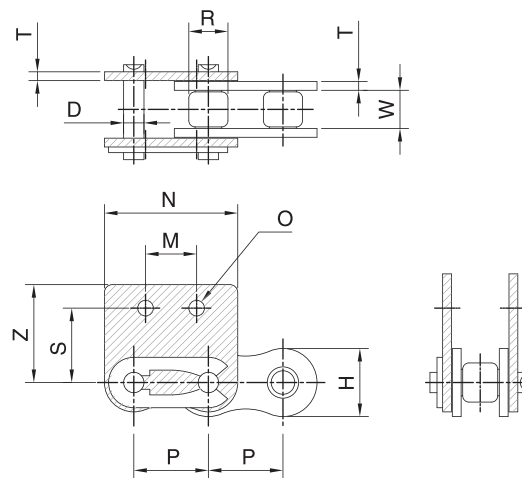
Any special specifications, please feel free to contact us.

Attachments Chains ● Roller Chain Attachments

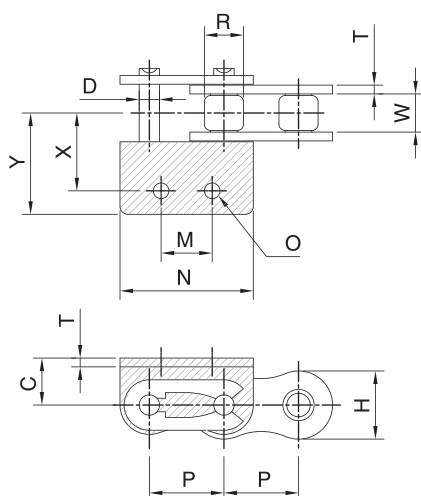
WSA2



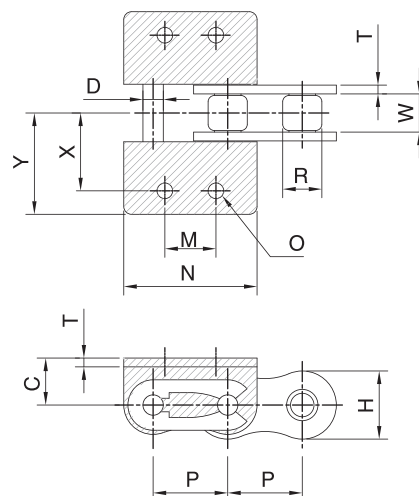
WSK2



WA2



WK2

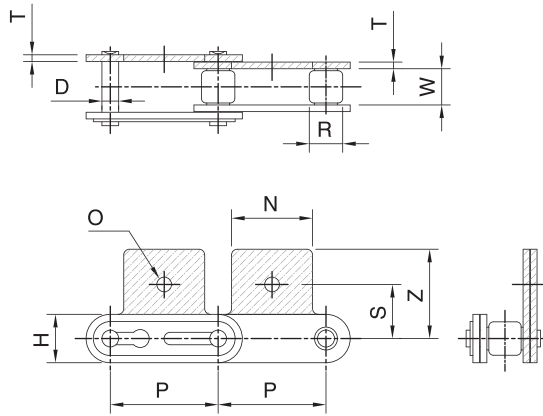


CHAIN NO.	Pitch		Width	Roller	Plate		Pin	Attachment										Allowable
	P		W	Dia	Height	Thick.	Dia	WA2 WK2	WSA2 WSK2		WA2 WK2	WSA2 WSK2	WA2,WK2			WSA2,WSK2		Load
	inch	mm	(min)	R(max)	H(max)	T	D(max)	M		N	O(min)		C	X	Y	S	Z	kgf(max)
40SS	1/2"	12.70	7.85	7.92	12.07	1.50	3.98	9.50		22.90	3.30	4.40	8.00	12.70	17.80	12.70	17.60	45
50SS	5/8"	15.875	9.40	10.16	15.09	2.00	5.09	11.90		28.70	5.10	5.40	10.30	15.90	23.40	15.90	23.05	70
60SS	3/4"	19.05	12.57	11.91	18.10	2.40	5.96	14.30		34.60	5.10	6.50	11.90	19.05	28.20	18.30	27.10	105
80SS	1"	25.40	15.75	15.88	24.13	3.20	7.94	19.1/25.4	19.10	45.70	6.75	8.90	15.90	25.40	36.60	24.60	35.45	180

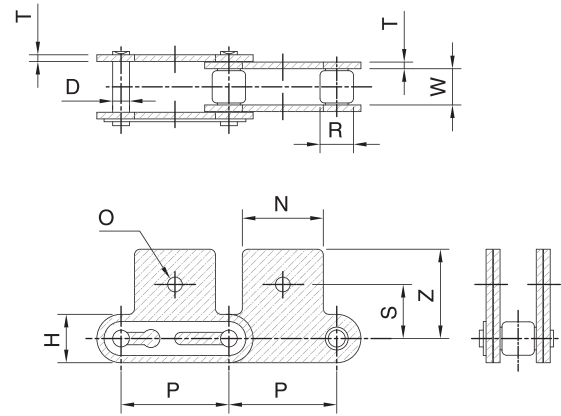
Any special specifications, please feel free to contact us.

Attachments Chains ● Double Pitch Roller Chain Attachments

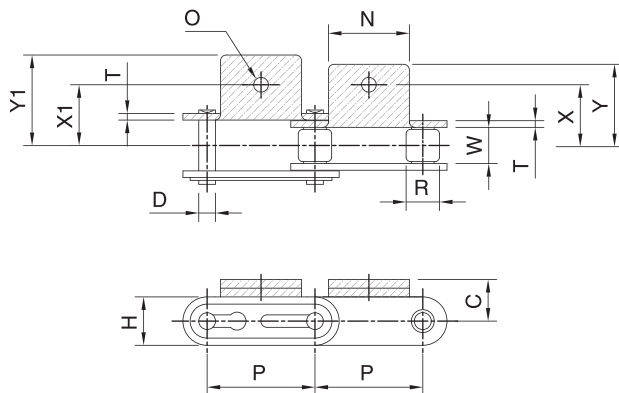
SA1



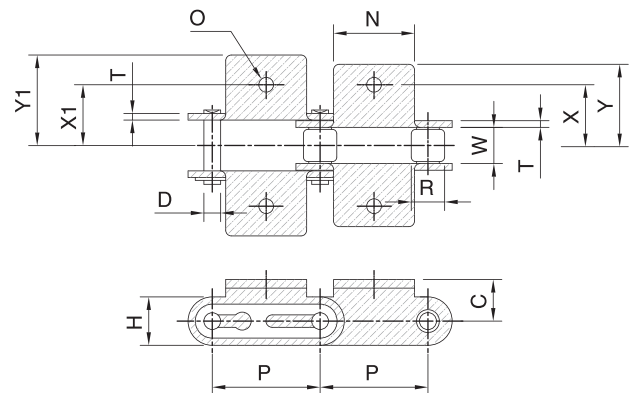
SK1



A1



K1

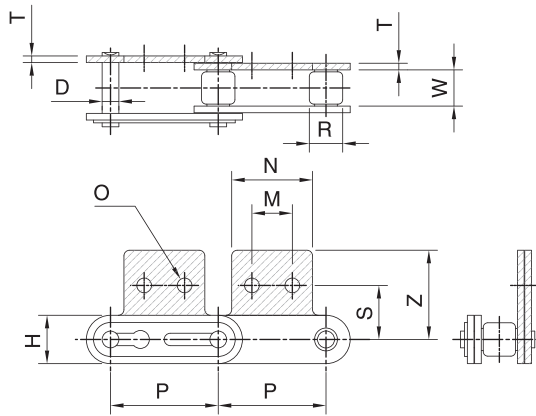


CHAIN NO.	Pitch		Width	Roller	Plate		Pin	Attachment										Ultimate Strength kgf(min)
	P		W	Dia	Height	Thick.	Dia		A-1 K-1	SA-1 SK-1	A-1,K-1					SA-1,SK-1		
	inch	mm	(min)	R(max)	H(max)	T	D(max)	N	O(min)		C	X	Y	X1	Y1	S	Z	
C2040	1"	25.40	7.85	7.92	12.0	1.50	3.98	19.10	3.50	5.10	9.10	12.70	17.65	12.70	19.30	11.10	19.80	1418
C2042	1"	25.40	7.85	15.88	12.0	1.50	3.98	19.10	3.50	5.10	9.10	12.70	17.65	12.70	19.30	11.10	19.80	1418
C2050	1-1/4"	31.75	9.40	10.16	15.0	2.00	5.09	23.80	5.10	6.70	11.10	15.90	21.95	15.90	24.15	14.25	24.10	2224
C2052	1-1/4"	31.75	9.40	19.05	15.0	2.00	5.09	23.80	5.10	6.70	11.10	15.90	21.95	15.90	24.15	14.25	24.10	2224
C2060H	1-1/2"	38.10	12.57	11.91	18.0	3.20	5.96	28.60	5.10	8.60	14.70	21.45	28.20	21.45	31.45	17.50	31.55	3194
C2062H	1-1/2"	38.10	12.57	22.23	18.0	3.20	5.96	28.60	5.10	8.60	14.70	21.45	28.20	21.45	31.45	17.50	31.55	3194
C2080H	2"	50.80	15.75	15.88	24.1	4.00	7.94	38.10	6.70	10.20	19.10	27.80	36.52	27.80	40.70	22.20	40.50	5673
C2082H	2"	50.80	15.75	28.58	24.1	4.00	7.94	38.10	6.70	10.20	19.10	27.80	36.52	27.80	40.70	22.20	40.50	5673
C2100H	2-1/2"	63.50	18.90	19.05	30.1	4.80	9.54	47.60	11.0	---	23.40	33.35	44.75	33.35	49.90	---	---	8878
C2102H	2-1/2"	63.50	18.90	39.67	30.1	4.80	9.54	47.60	11.0	---	23.40	33.35	44.75	33.35	49.90	---	---	8878
C2120H	3"	76.20	25.22	22.23	36.2	5.60	11.11	57.20	10.30	---	27.80	39.70	54.40	39.70	60.40	---	---	12755
C2122H	3"	76.20	25.22	44.45	36.2	5.60	11.11	57.20	10.30	---	27.80	39.70	54.40	39.70	60.40	---	---	12755

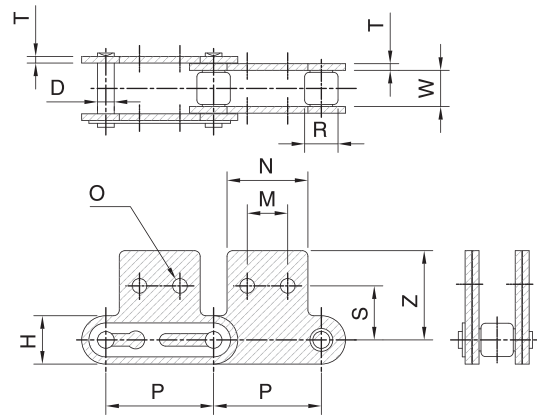
Any special specifications, please feel free to contact us.

Attachments Chains ● Double Pitch Roller Chain Attachments

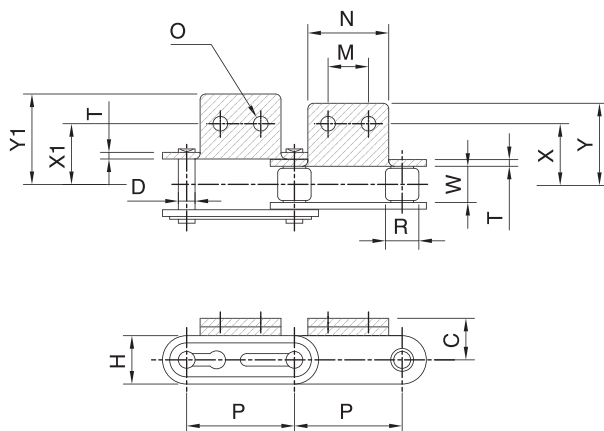
SA2



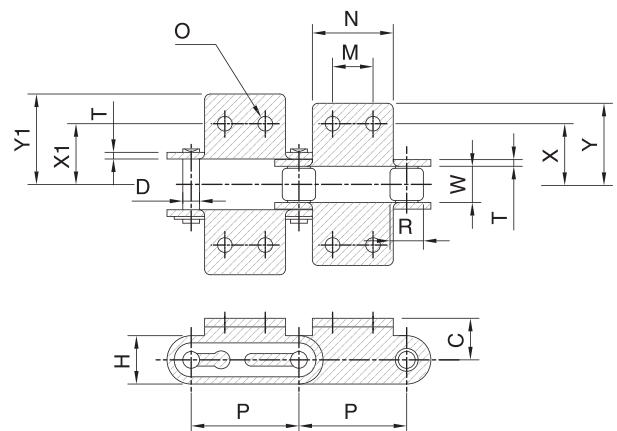
SK2



A2



K2

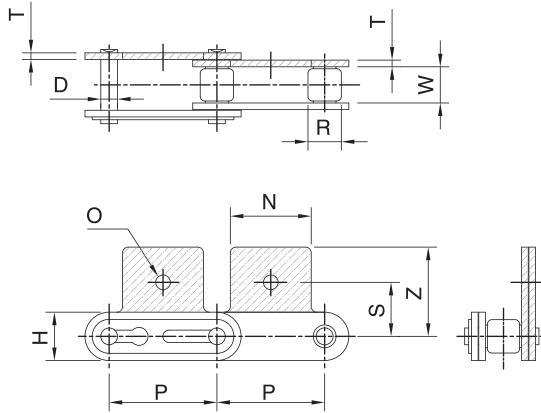


CHAIN NO.	Pitch		Width	Roller	Plate		Pin	Attachment										Ultimate
	P		W	Dia	Height	Thick.	Dia				A-2,K-2					SA-2,SK-2		Strength
	inch	mm	(min)	R(max)	H(max)	T	D(max)	N	O(min)	M	C	X	Y	X1	Y1	S	Z	kgf(min)
C2040	1"	25.40	7.85	7.92	12.0	1.50	3.98	19.10	3.50	9.50	9.10	12.70	17.65	12.70	19.30	13.60	19.80	1418
C2042	1"	25.40	7.85	15.88	12.0	1.50	3.98	19.10	3.50	9.50	9.10	12.70	17.65	12.70	19.30	13.60	19.80	1418
C2050	1-1/4"	31.75	9.40	10.16	15.0	2.00	5.09	23.80	5.10	11.90	11.10	15.90	21.95	15.90	24.15	15.90	24.10	2224
C2052	1-1/4"	31.75	9.40	19.05	15.0	2.00	5.09	23.80	5.10	11.90	11.10	15.90	21.95	15.90	24.15	15.90	24.10	2224
C2060H	1-1/2"	38.10	12.57	11.91	18.0	3.20	5.96	28.60	5.10	14.30	14.70	21.45	28.20	21.45	31.45	19.10	31.55	3194
C2062H	1-1/2"	38.10	12.57	22.23	18.0	3.20	5.96	28.60	5.10	14.30	14.70	21.45	28.20	21.45	31.45	19.10	31.55	3194
C2080H	2"	50.80	15.75	15.88	24.1	4.00	7.94	38.10	6.70	19.10	19.10	27.80	36.52	27.80	40.70	25.40	40.50	5673
C2082H	2"	50.80	15.75	28.58	24.1	4.00	7.94	38.10	6.70	19.10	19.10	27.80	36.52	27.80	40.70	25.40	40.50	5673
C2100H	2-1/2"	63.50	18.90	19.05	30.1	4.80	9.54	47.60	8.70	23.80	23.40	33.35	44.75	33.35	49.90	31.80	50.40	8878
C2102H	2-1/2"	63.50	18.90	39.67	30.1	4.80	9.54	47.60	8.70	23.80	23.40	33.35	44.75	33.35	49.90	31.80	50.40	8878
C2120H	3"	76.20	25.22	22.23	36.2	5.60	11.11	57.20	10.30	28.60	---	---	---	---	---	37.30	59.90	12755
C2122H	3"	76.20	25.22	44.45	36.2	5.60	11.11	57.20	10.30	28.60	---	---	---	---	---	37.30	59.90	12755

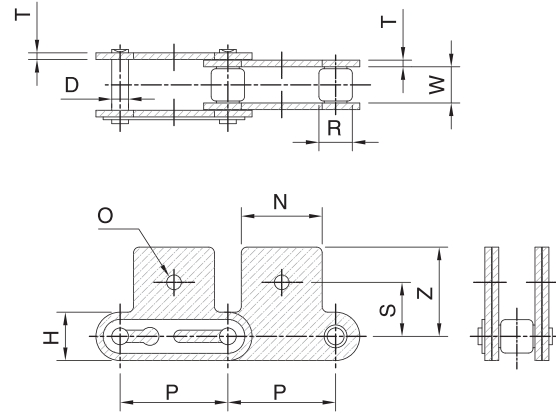
Any special specifications, please feel free to contact us.

Attachments Chains ● Double Pitch Roller Chain Attachments

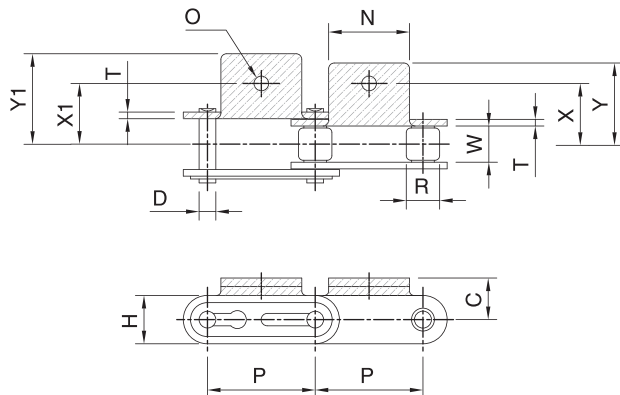
SA1



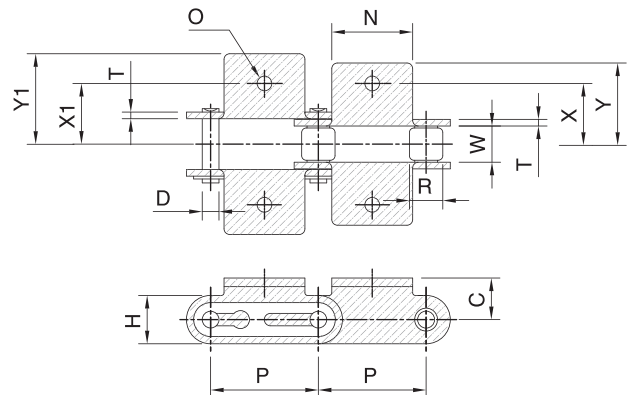
SK1



A1



K1

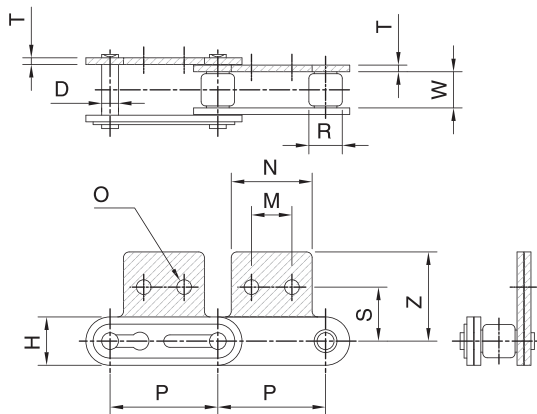


CHAIN NO.	Pitch		Width	Roller	Plate		Pin	Attachment										Allowable
	P		W	Dia	Height	Thick.	Dia		A-1 K-1	SA-1 SK-1	A-1,K-1					SA-1,SK-1		Load
	inch	mm	(min)	R(max)	H(max)	T	D(max)	N	O(min)		C	X	Y	X1	Y1	S	Z	
C2040SS	1"	25.40	7.85	7.92	12.0	1.50	3.98	19.10	3.50	5.10	9.10	12.70	17.65	12.70	19.30	11.10	19.80	45
C2042SS	1"	25.40	7.85	15.88	12.0	1.50	3.98	19.10	3.50	5.10	9.10	12.70	17.65	12.70	19.30	11.10	19.80	45
C2050SS	1-1/4"	31.75	9.40	10.16	15.0	2.00	5.09	23.80	5.10	6.70	11.10	15.90	21.95	15.90	24.15	14.25	24.10	70
C2052SS	1-1/4"	31.75	9.40	19.05	15.0	2.00	5.09	23.80	5.10	6.70	11.10	15.90	21.95	15.90	24.15	14.25	24.10	70
C2060HSS	1-1/2"	38.10	12.57	11.91	18.0	3.20	5.96	28.60	5.10	8.60	14.70	21.45	28.20	21.45	31.45	17.50	31.55	105
C2062HSS	1-1/2"	38.10	12.57	22.23	18.0	3.20	5.96	28.60	5.10	8.60	14.70	21.45	28.20	21.45	31.45	17.50	31.55	105
C2080HSS	2"	50.80	15.75	15.88	24.1	4.00	7.94	38.10	6.70	10.20	19.10	27.80	36.52	27.80	40.70	22.20	40.50	180
C2082HSS	2"	50.80	15.75	28.58	24.1	4.00	7.94	38.10	6.70	10.20	19.10	27.80	36.52	27.80	40.70	22.20	40.50	180

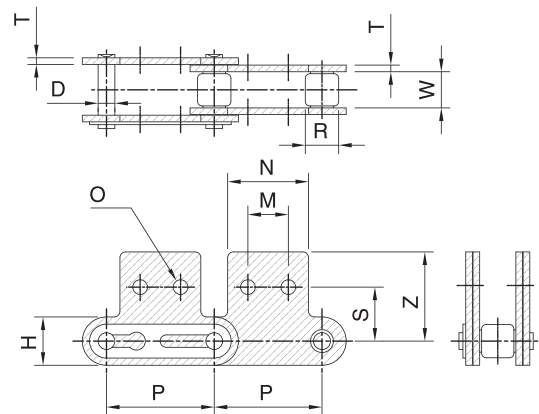
Any special specifications, please feel free to contact us.

Attachments Chains ● Double Pitch Roller Chain Attachments

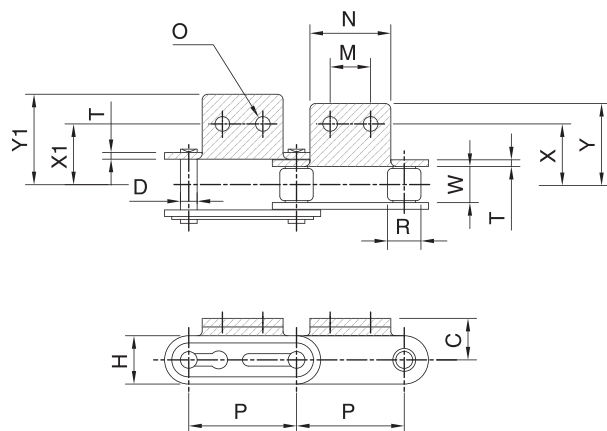
SA2



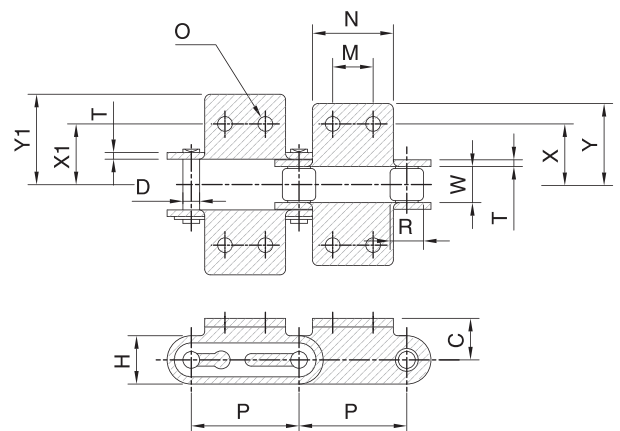
SK2



A2



K2

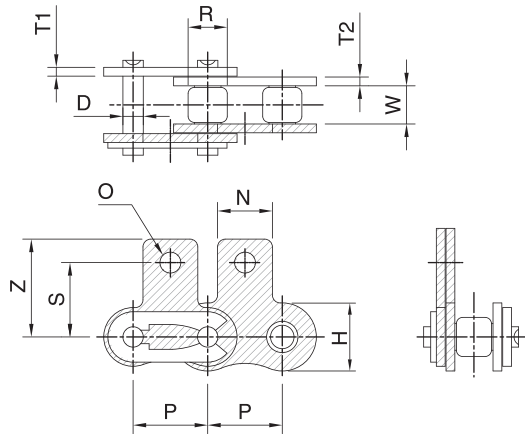


CHAIN NO.	Pitch		Width	Roller	Plate		Pin	Attachment										Allowable
	P		W	Dia	Height	Thick.	Dia	A-2,K-2										Load
	inch	mm	(min)	R(max)	H(max)	T	D(max)	N	O(min)	M	C	X	Y	X1	Y1	S	Z	kgf(max)
C2040SS	1"	25.40	7.85	7.92	12.0	1.50	3.98	19.10	3.50	9.50	9.10	12.70	17.65	12.70	19.30	13.60	19.80	45
C2042SS	1"	25.40	7.85	15.88	12.0	1.50	3.98	19.10	3.50	9.50	9.10	12.70	17.65	12.70	19.30	13.60	19.80	45
C2050SS	1-1/4"	31.75	9.40	10.16	15.0	2.00	5.09	23.80	5.10	11.90	11.10	15.90	21.95	15.90	24.15	15.90	24.10	70
C2052SS	1-1/4"	31.75	9.40	19.05	15.0	2.00	5.09	23.80	5.10	11.90	11.10	15.90	21.95	15.90	24.15	15.90	24.10	70
C2060HSS	1-1/2"	38.10	12.57	11.91	18.0	3.20	5.96	28.60	5.10	14.30	14.70	21.45	28.20	21.45	31.45	19.10	31.55	105
C2062HSS	1-1/2"	38.10	12.57	22.23	18.0	3.20	5.96	28.60	5.10	14.30	14.70	21.45	28.20	21.45	31.45	19.10	31.55	105
C2080HSS	2"	50.80	15.75	15.88	24.1	4.00	7.94	38.10	6.70	19.10	19.10	27.80	36.52	27.80	40.70	25.40	40.50	180
C2082HSS	2"	50.80	15.75	28.58	24.1	4.00	7.94	38.10	6.70	19.10	19.10	27.80	36.52	27.80	40.70	25.40	40.50	180

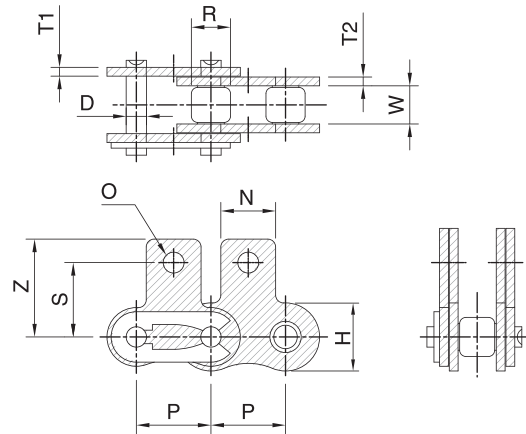
Any special specifications, please feel free to contact us.

Attachments Chains ● ISO "B" Roller Chain Attachments

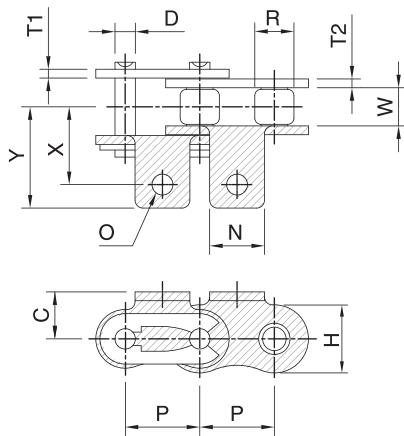
SA1



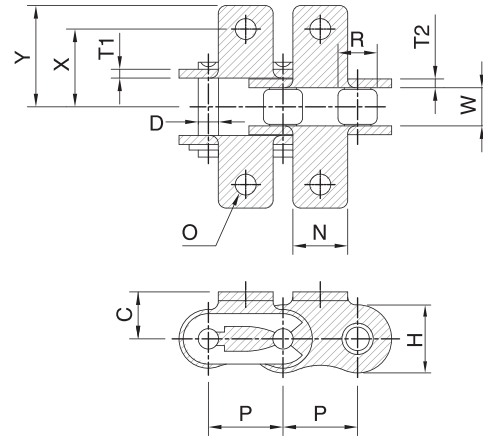
SK1



A1



K1

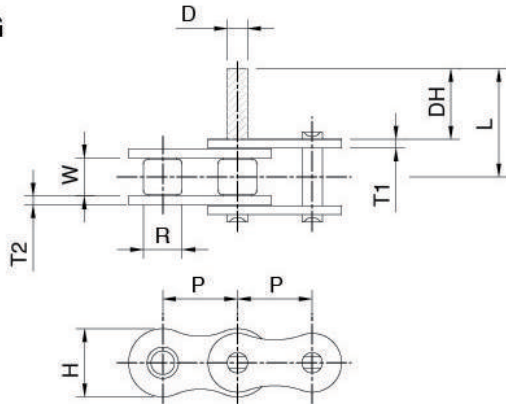


CHAIN NO.	Pitch		Width	Roller	Plate			Pin	Attachment								Ultimate
	P		W	Dia	Height	Thick.		Dia		SA-1 SK-1	A-1 K-1	A-1,K-1			SA-1,SK-1		Strength
	inch	mm	(min)	R(max)	H(max)	T1	T2	D(max)	N	O(min)		C	X	Y	S	Z	kgf(min)
08B	0.5"	12.70	7.75	8.51	11.81	1.50	1.50	4.45	11.00	4.30		---	---	---	13.70	20.80	1816
D08B	0.5"	12.70	7.75	8.51	11.81	1.50	1.50	4.45	11.00	4.30		---	---	---	13.00	20.80	1816
K08B	0.5"	12.70	7.75	8.51	11.81	1.50	1.50	4.45	11.00	4.30		8.90	13.80	20.85	---	---	1816
10B	0.625"	15.875	9.65	10.16	14.73	1.65	1.65	5.08	14.00	5.30		10.30	15.90	24.80	16.50	24.90	2265
12B	0.75"	19.05	11.68	12.07	16.13	1.80	1.80	5.72	18.00	6.60		12.20	17.60	26.35	18.50	28.20	2949
D12B	0.75"	19.05	11.68	12.07	16.13	1.80	1.80	5.72	18.00	6.40	---	---	---	---	21.00	28.20	2949
16B	1"	25.40	17.02	15.88	21.08	3.20	4.00	8.28	24.00	8.40		17.00	29.00	41.90	27.40	39.70	6122
D16B	1"	25.40	17.02	15.88	21.08	3.20	4.00	8.28	24.00	6.60	---	---	---	---	23.00	39.70	6122
K16B	1"	25.40	17.02	15.88	21.08	3.20	4.00	8.28	24.00	---	8.40	17.00	29.00	42.80	---	---	6122

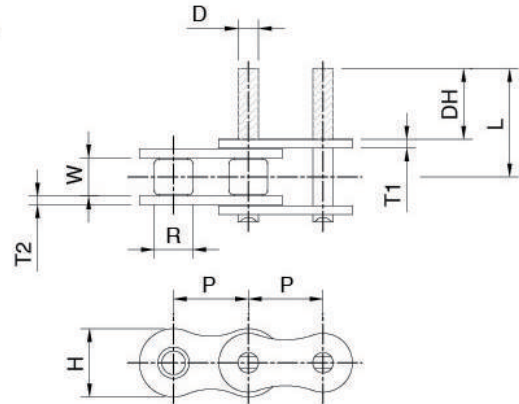
Any special specifications, please feel free to contact us.

Attachments Chains ● D1&D3 Attachments

D1/AG

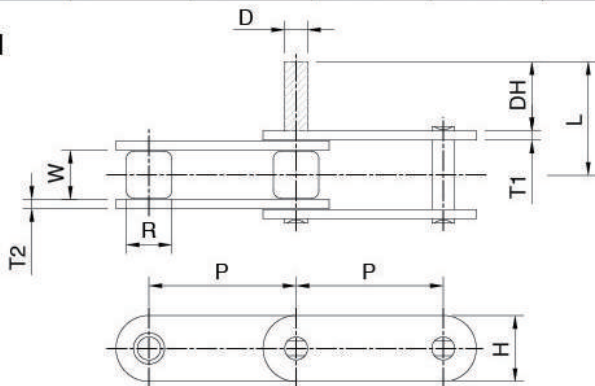


D3

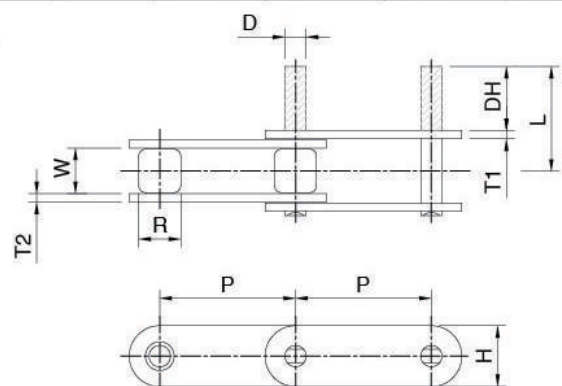


CHAIN NO.	Pitch		Width	Roller	Plate			Pin			Ultimate Strength kgf(min)
	P		W	Dia	Height	Thickness		Dia	Length		
	inch	mm	(min)	R(max)	H(max)	T1	T2	D(max)	*DH	L	
35	3/8"	9.525	4.68	5.08	9.05	1.25	1.25	3.60	9.52	14.52	806
40	1/2"	12.70	7.85	7.92	12.07	1.50	1.50	3.98	9.52	16.72	1418
41	1/2"	12.70	6.25	7.77	9.91	1.25	1.25	3.60	9.52	15.40	684
50AG	5/8"	15.875	9.40	10.16	15.09	2.00	2.00	5.09	8.03	17.08	2224
50	5/8"	15.875	9.40	10.16	15.09	2.00	2.00	5.09	11.91	20.96	2224
60	3/4"	19.05	12.57	11.91	18.10	2.40	2.40	5.96	14.27	25.60	3194
80	1"	25.40	15.75	15.88	24.13	3.20	3.20	7.94	19.05	33.48	5673
100	1-1/4"	31.75	18.90	19.05	30.17	4.00	4.00	9.54	23.83	41.83	8878
120	1-1/2"	38.10	25.22	22.23	36.20	4.80	4.80	11.11	28.60	51.25	12755
140	1-3/4"	44.45	25.22	25.40	42.23	5.60	5.60	12.71	33.30	57.70	17347
160	2"	50.80	31.55	28.58	48.26	6.40	6.40	14.29	38.10	67.35	22755

D1



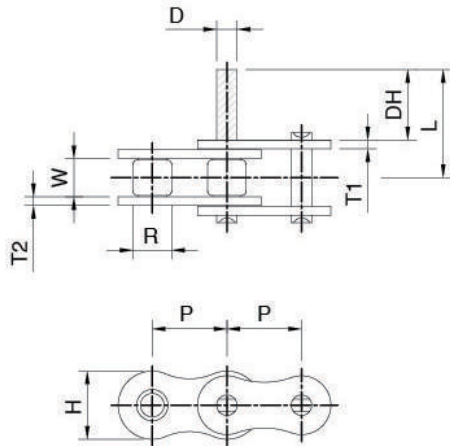
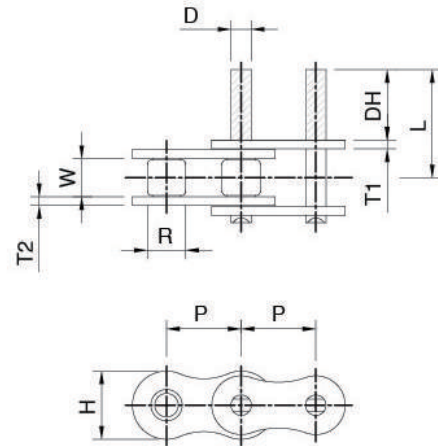
D3



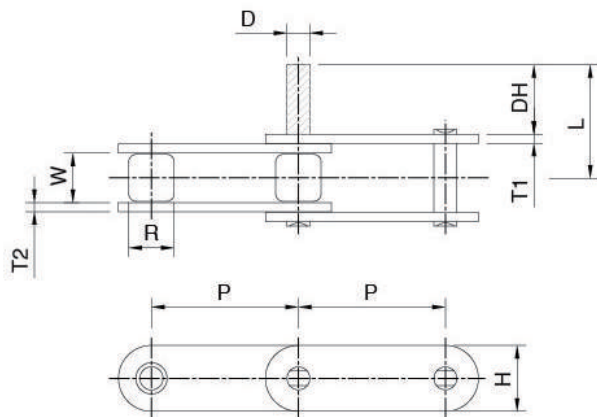
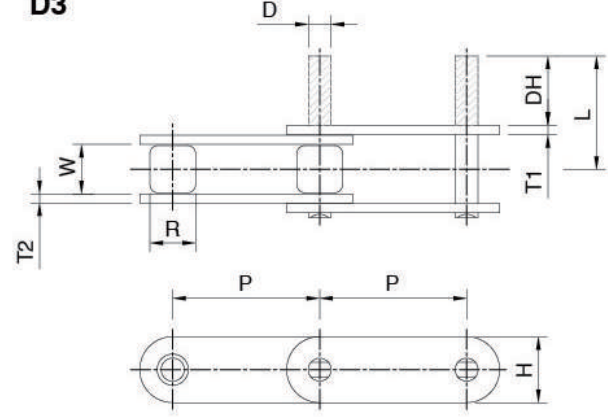
CHAIN NO.	Pitch		Width	Roller	Plate			Pin			Ultimate Strength kgf(min)
	P		W	Dia	Height	Thickness		Dia	Length		
	inch	mm	(min)	R(max)	H(max)	T1	T2	D(max)	*DH	L	
A2040	1"	25.40	7.85	7.92	12.0	1.50	1.50	3.98	9.52	16.72	1418
A2050	1-1/4"	31.75	9.40	10.16	15.0	2.00	2.00	5.09	11.91	20.96	2224
C2040	1"	25.40	7.85	7.92	12.0	1.50	1.50	3.98	9.52	16.72	1418
C2042	1"	25.40	7.85	15.88	12.0	1.50	1.50	3.98	9.52	16.72	1418
C2050	1-1/4"	31.75	9.40	10.16	15.0	2.00	2.00	5.09	11.91	20.96	2224
C2052	1-1/4"	31.75	9.40	19.05	15.0	2.00	2.00	5.09	11.91	20.96	2224
C2060H	1-1/2"	38.10	12.57	11.91	18.0	3.20	3.20	5.96	14.27	27.07	3194
C2062H	1-1/2"	38.10	12.57	22.23	18.0	3.20	3.20	5.96	14.27	27.07	3194
C2080H	2"	50.80	15.75	15.88	24.1	4.00	4.00	7.94	19.05	35.18	5673
C2082H	2"	50.80	15.75	28.58	24.1	4.00	4.00	7.94	19.05	35.18	5673
C2100H	2-1/2"	63.50	18.90	19.05	30.1	4.80	4.80	9.54	23.80	43.40	8878
C2102H	2-1/2"	63.50	18.90	39.67	30.1	4.80	4.80	9.54	23.80	43.40	8878
C2120H	3"	76.20	25.22	22.23	36.20	5.60	5.60	11.11	28.60	53.08	12755
C2122H	3"	76.20	25.22	44.45	36.20	5.60	5.60	11.11	28.60	53.08	12755

* DH length (Pin extension) per requested

Attachments Chains ● D1&D3 Attachments

D1**D3**

CHAIN NO.	Pitch		Width	Roller	Plate			Pin			Allowable Load
	P		W	Dia	Height	Thickness		Dia	Length		
	inch	mm	(min)	R(max)	H(max)	T1	T2	D(max)	*DH	L	kgf(max)
06BSS	0.375"	9.525	5.72	6.35	8.26	1.00	1.30	3.28	11.30	16.63	27
08BSS	0.5"	12.70	7.75	8.51	11.81	1.50	1.50	4.45	14.80	22.05	50
10BSS	0.625"	15.875	9.65	10.16	14.73	1.65	1.65	5.08	17.60	26.05	66
12BSS	0.75"	19.05	11.68	12.07	16.13	1.80	1.80	5.72	20.70	30.48	90
16BSS	1"	25.40	17.02	15.88	21.80	3.20	4.00	8.28	33.30	49.33	209

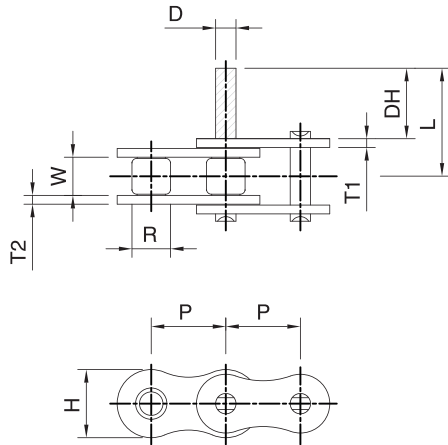
D1**D3**

CHAIN NO.	Pitch		Width	Roller	Plate			Pin			Allowable
	P		W	Dia	Height	Thickness		Dia	Length		Load
	inch	mm	(min)	R(max)	H(max)	T1	T2	D(max)	*DH	L	kgf(max)
A2040SS	1"	25.40	7.85	7.92	12.0	1.50	1.50	3.98	9.52	16.72	45
A2050SS	1-1/4"	31.75	9.40	10.16	15.0	2.00	2.00	5.09	11.91	20.96	70
C2040SS	1"	25.40	7.85	7.92	12.0	1.50	1.50	3.98	9.52	16.72	45
C2042SS	1"	25.40	7.85	15.88	12.0	1.50	1.50	3.98	9.52	16.72	45
C2050SS	1-1/4"	31.75	9.40	10.16	15.0	2.00	2.00	5.09	11.91	20.96	70
C2052SS	1-1/4"	31.75	9.40	19.05	15.0	2.00	2.00	5.09	11.91	20.96	70
C2060HSS	1-1/2"	38.10	12.57	11.91	18.0	3.20	3.20	5.96	14.27	27.07	105
C2062HSS	1-1/2"	38.10	12.57	22.23	18.0	3.20	3.20	5.96	14.27	27.07	105
C2080HSS	2"	50.80	15.75	15.88	24.10	4.00	4.00	7.94	19.05	35.18	180
C2082HSS	2"	50.80	15.75	28.58	24.10	4.00	4.00	7.94	19.05	35.18	180

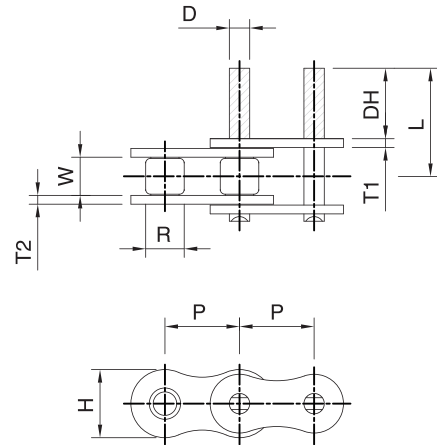
* DH length (Pin extension) per requested

Attachments Chains ● D1&D3 Attachments

D1



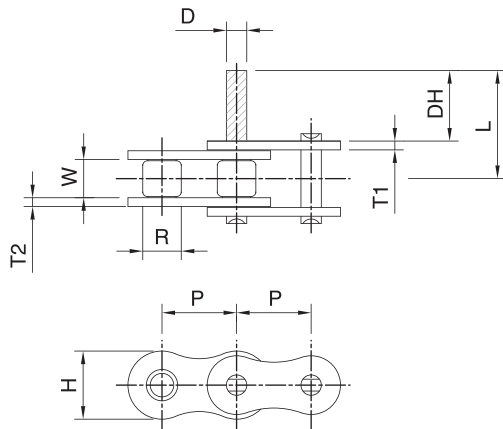
D3



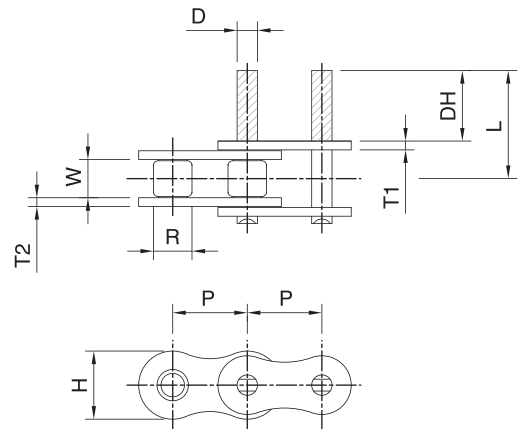
CHAIN NO.	Pitch		Width	Roller	Plate			Pin			Ultimate
	P		W	Dia	Height	Thickness		Dia	Length		Strength
	inch	mm	(min)	R(max)	H(max)	T1	T2	D(max)	*DH	L	kgf(min)
06B	0.375"	9.525	5.72	6.35	8.26	1.00	1.30	3.28	11.30	16.63	908
08B	0.5"	12.70	7.75	8.51	11.81	1.50	1.50	4.45	14.80	22.05	1816
10B	0.625"	15.875	9.65	10.16	14.73	1.65	1.65	5.08	17.60	26.05	2265
12B	0.75"	19.05	11.68	12.07	16.13	1.80	1.80	5.72	20.70	30.48	2949
16B	1"	25.40	17.02	15.88	21.08	3.20	4.00	8.28	33.30	49.33	6122
20B	1.25"	31.75	19.56	19.05	26.42	3.50	4.50	10.19	38.30	56.50	9694
24B	1.5"	38.10	25.40	25.40	33.40	5.20	6.00	14.63	50.30	74.65	16327

*DH length(Pin extension) per requested

D1



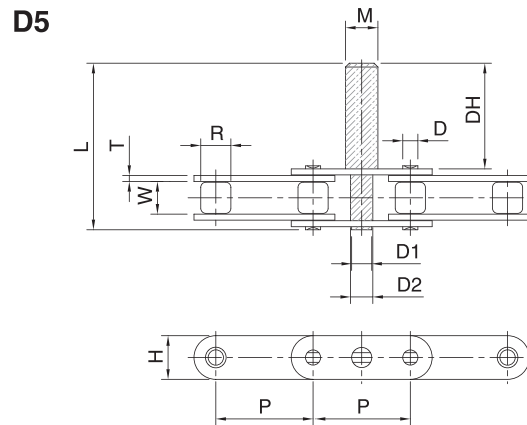
D3



CHAIN NO.	Pitch		Width	Roller	Plate			Pin			Allowable
	P		W	Dia	Height	Thickness		Dia	Length		Load
	inch	mm	(min)	R(max)	H(max)	T1	T2	D(max)	*DH	L	kgf(max)
35SS	3/8"	9.525	4.68	5.08	9.05	1.25	1.25	3.60	9.52	14.52	27
40SS	1/2"	12.70	7.85	7.92	12.07	1.50	1.50	3.98	9.52	16.72	45
50SS	5/8"	15.875	9.40	10.16	15.09	2.00	2.00	5.09	11.91	20.96	70
60SS	3/4"	19.05	12.57	11.91	18.10	2.40	2.40	5.96	14.27	25.60	105
80SS	1"	25.40	15.75	15.88	24.13	3.20	3.20	7.94	19.05	33.48	180
100SS	1-1/4"	31.75	18.90	19.05	30.17	4.00	4.00	9.54	23.83	41.83	260

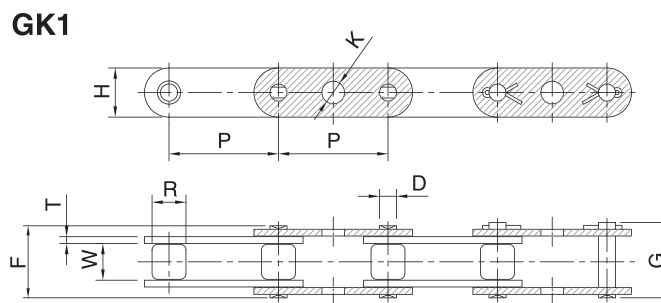
* DH length (Pin extension) per requested

Attachments Chains ● D5 Attachments



CHAIN NO.	Type	Pitch		Width	Roller	Plate		Pin						Ultimate
		P		W	Dia	Height	Thick.	Dia			Length		Strength	
		inch	mm	(min)	R(max)	H(max)	T	D(max)	D1	D2	M	DH	L	kgf(min)
C2060H	A	1-1/2"	38.10	12.57	11.91	18.0	3.20	5.96	7.90	8.72	12.70	41.28	69.00	3194
	B										14.30			
C2080H		2"	50.80	15.75	15.88	24.1	4.00	7.94	10.24	11.00	15.88	41.40	75.80	5673

Attachments Chains ● GK1 Attachments



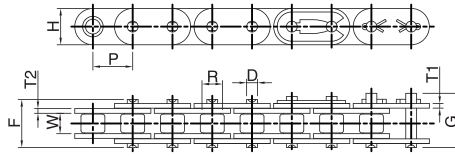
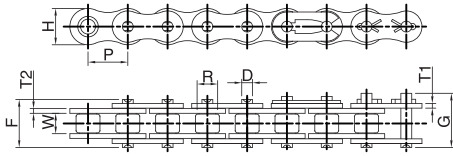
CHAIN NO.	Pitch		Width	Roller	Plate				Pin			Ultimate
	P		W	Dia	Height	Thick.	ØK (min.)		Dia	Length		Strength
	inch	mm	(min)	R(max)	H(max)	T	STD	OPTIONAL	D(max)	F	G	kgf(min)
C2040	1"	25.40	7.85	7.92	12.0	1.50	4.15	6.08	3.98	17.8	21.7	1418
C2042	1"	25.40	7.85	15.88	12.0	1.50			3.98	17.8	21.7	1418
C2050	1-1/4"	31.75	9.40	10.16	15.0	2.00	6.50	5.50/8.10/8.25	5.09	21.8	25.9	2224
C2052	1-1/4"	31.75	9.40	19.05	15.0	2.00			5.09	21.8	25.9	2224
C2060H	1-1/2"	38.10	12.57	11.91	18.0	3.20	8.20	6.45/6.50/8.30	5.96	30.2	34.8	3194
C2062H	1-1/2"	38.10	12.57	22.23	18.0	3.20			5.96	30.2	34.8	3194
C2080H	2"	50.80	15.75	15.88	24.1	4.0	10.10	11.10/12.10	7.94	37.4	42.8	5673
C2082H	2"	50.80	15.75	28.58	24.1	4.0			7.94	37.4	42.8	5673

SPECIAL ENVIRONMENT CHAINS



Stainless Steel Chain

Stainless Steel Chain



F TYPE



CHAIN NO.	Pitch		Width	Roller	Plate			Pin			Allowable	Approx
	P		W	Dia	Height	Thickness		Dia	Length		Load	Weight
	inch	mm	(min)	R(max)	H(max)	T1	T2	D(max)	F(max)	G(max)	kgf(max)	kg/m
25SS	1/4"	6.35	3.10	3.30	6.02	0.75	0.75	2.31	9.1	11.6	12	0.13
35SS	3/8"	9.525	4.68	5.08	9.05	1.25	1.25	3.60	13.2	16.5	27	0.34
40SS	1/2"	12.70	7.85	7.92	12.07	1.50	1.50	3.98	17.8	21.7	45	0.61
50SS	5/8"	15.875	9.40	10.16	15.09	2.00	2.00	5.09	21.8	25.9	70	1.03
60SS	3/4"	19.05	12.57	11.91	18.10	2.40	2.40	5.96	26.9	31.5	105	1.48
80SS	1"	25.40	15.75	15.88	24.13	3.20	3.20	7.94	33.5	38.9	180	2.58
100SS	1-1/4"	31.75	18.90	19.05	30.17	4.00	4.00	9.54	41.1	47.2	260	3.86
120SS	1-1/2"	38.10	25.22	22.23	36.20	4.80	4.80	11.11	50.8	57.4	390	5.70
C2040SS	1"	25.40	7.85	7.92	12.0	1.50	1.50	3.98	17.8	21.7	45	0.50
C2042SS	1"	25.40	7.85	15.88	12.0	1.50	1.50	3.98	17.8	21.7	45	0.84
A2040SS	1"	25.40	7.85	7.92	12.0	1.50	1.50	3.98	17.8	21.7	45	0.41
C2050SS	1-1/4"	31.75	9.40	10.16	15.0	2.00	2.00	5.09	21.8	25.9	70	0.80
C2052SS	1-1/4"	31.75	9.40	19.05	15.0	2.00	2.00	5.09	21.8	25.9	70	1.26
A2050SS	1-1/4"	31.75	9.40	10.16	15.0	2.00	2.00	5.09	21.8	25.9	70	0.65
C2060HSS	1-1/2"	38.10	12.57	11.91	18.0	3.20	3.20	5.96	30.2	34.8	105	1.37
C2062HSS	1-1/2"	38.10	12.57	22.23	18.0	3.20	3.20	5.96	30.2	34.8	105	2.07
C2080HSS	2"	50.80	15.75	15.88	24.1	4.00	4.00	7.94	37.4	42.8	180	2.38
C2082HSS	2"	50.80	15.75	28.58	24.1	4.00	4.00	7.94	37.4	42.8	180	3.39
C2100HSS	2-1/2"	63.50	18.90	19.05	30.1	4.80	4.80	9.54	44.5	50.6	275	3.56
C2102HSS	2-1/2"	63.50	18.90	39.67	30.1	4.80	4.80	9.54	44.5	50.6	275	5.70
05BSS	0.315"	8.00	3.00	5.00	7.11	0.75	0.75	2.31	8.6	11.7	11	0.15
06BSS	0.375"	9.525	5.72	6.35	8.26	1.00	1.30	3.28	13.5	16.8	26	0.39
08BSS	0.5"	12.70	7.75	8.51	11.81	1.50	1.50	4.45	17.0	20.9	50	0.66
10BSS	0.625"	15.875	9.65	10.16	14.73	1.65	1.65	5.08	19.6	23.7	67	0.92
12BSS	0.75"	19.05	11.68	12.07	16.13	1.80	1.80	5.72	22.7	27.3	90	1.26
16BSS	1"	25.40	17.02	15.88	21.08	3.20	4.00	8.28	36.1	41.5	210	2.74
20BSS	1.25"	31.75	19.56	19.05	26.42	3.50	4.50	10.19	43.2	49.3	295	3.93
24BSS	1.5"	38.10	25.40	25.40	33.40	5.20	6.00	14.63	53.4	60.0	550	7.32
40FSS	1/2"	12.70	7.85	7.92	12.07	1.50	1.50	3.98	17.8	21.7	45	0.68
50FSS	5/8"	15.875	9.40	10.16	15.09	2.00	2.00	5.09	21.8	25.9	70	1.16
60FSS	3/4"	19.05	12.57	11.91	18.10	2.40	2.40	5.96	26.9	31.5	105	1.69
80FSS	1"	25.40	15.75	15.88	24.13	3.20	3.20	7.94	33.5	38.9	180	2.95

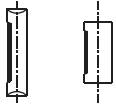
Recommended Oil

Only high quality oil should be used to lubricate the roller chain. Neither heavy oil nor grease is suitable. The viscosity of the oil used will depend on the chain size, chain speed and ambient temperature. The lubricants recommended for specific temperature ranges are given in the following table :

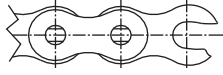
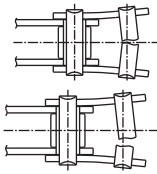
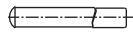
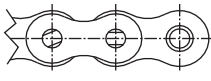
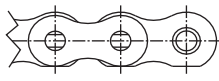
Chain No.	Temperature [°C]							
	-10~0	0~40	40~50	50~60	-10~0	0~40	40~50	50~60
Lubrication Type	TYPE A.B				TYPE C			
50 or less	SAE 10	SAE 20	SAE 30	SAE 40	SAE 10	SAE 20	SAE 30	SAE 40
60 ~ 80	SAE 20	SAE 30	SAE 40	SAE 50	SAE 10	SAE 20	SAE 30	SAE 40
100	SAE 20	SAE 30	SAE 40	SAE 50	SAE 20	SAE 30	SAE 40	SAE 50
120 or more	SAE 30	SAE 40	SAE 50	SAE 50	SAE 20	SAE 30	SAE 40	SAE 50

Trouble Shooting Hints

Possible caused of troubles are summarized below. The solution hints are answers to trouble-free operations and optimum drives you would need.

Problem	Possible Causes	Suggested Remedy
Excessive Noise	● Mis-alignment of sprockets ● Too little or too much slack ● Chain obstruction ● Loose chain guard or bearing ● Inadequate lubrication or non-lubrication ● Chain pitch size too large	● Re-align sprockets and shafts ● Adjust centers or take-up ● Inspect and remove obstruction ● Tighten bolts and check bearings ● Lubricate properly ● Check chain drive recommendation
Chain Vibration	● Excessive chain slack ● Center distance too long ● Stiff links	● Adjust chain tensioner ● Install idler ● Lubricate or replace chain
Wear inside link plate and one side of sprocket teeth	● Mis-alignment	● Realign sprockets and shafts ● Replace chain and sprockets if necessary
 Pin Bushing Galling	● Overload ● Inadequate lubrication	● Proper lubrication ● Replace chain when elongation exceeds functional limits

Trouble Shooting Hints

Problem	Possible Causes	Suggested Remedy
Chain gets stiff	● Inadequate lubrication ● Corrosion ● Excessive load ● Mis-alignment	● Clean and establish correct lubrication ● Replace with anti-corrosion chain ● Reduce load or replace with suitable strength chain ● Re-align sprockets and shafts
Chain climb sprockets	● Excessive chain slack ● Inadequate lubrication ● Overload	● Install tensioner if necessary ● Reduce load or replace with suitable strength chain
 Fractured Plate	● Extreme overload	● Inspect the drive to determine the cause of high load
 Broken Pins	● Extreme overload	● Inspect the drive to determine the cause of high load
 Broken Offset Link Pins	● Overload	● One-pitch offset-links are not recommended ● Redesign drive using a higher capacity chain
 Turn Pins	● Overload ● Inadequate lubrication	● Replace chain as soon as possible ● Reduce shock load or install stronger chain ● Lubricate properly
 Fatigue Failure	● Extreme overload	● Inspect the drive to determine the cause of high load ● Redesign drive using a higher capacity chain
 Cracking	● Stress corrosion cracking	● Protect the chain from corrosion ● Install anti-corrosive chains
 Broken Rollers	● Foreign material between chain and sprocket tooth ● Fatigue failure	● Shield drive from foreign matter ● Redesign chain speed and load
 Worn Plates	● Bottom of plates worn due to rubbing on guides	● Chain should be replaced when wear over 5% of the plates height