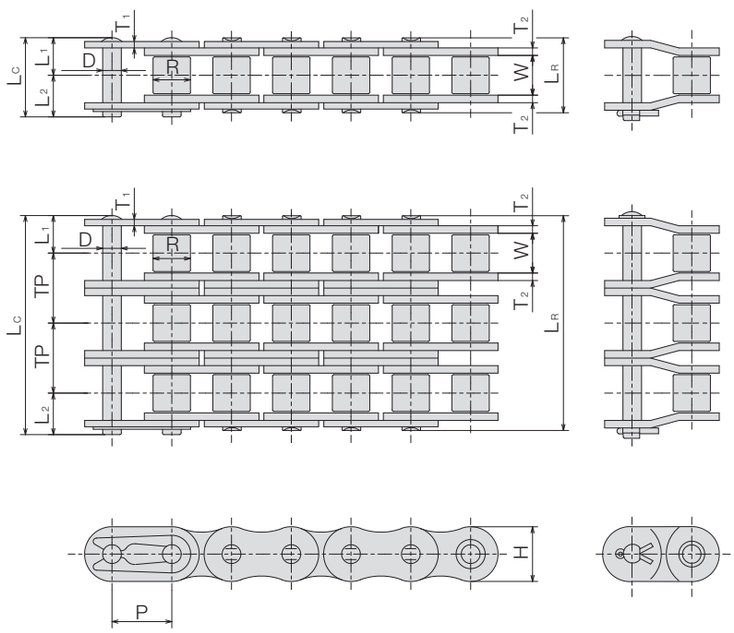
SUGIYAMA

Premium Standard Roller Chain

BS | Single Pitch | Standard | SBR

"SBR" (Solid Bushing & Roller) is the product type of SUGIYAMA premium standard roller chain. Our Premium roller chains are made with solid bushings and solid rollers, specially treated pins and bushings, and a stringently controlled heat treatment process. These are only a few of the many features built into SY branded chains. Manufactured in accordance with ISO 606, our premium standard roller chains are perfectly interchangeable with British standard BS 228 and German standard DIN 8187 roller chains. Learn more about SBR.



SY Chain No.	Dimension - mm												Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate			Trans. Pitch			
		Width W	Dia. R	Dia. D	Length				Height	Thickness					
					L_R	L_C	L_1	L_2	H	T_1	T_2	TP	kN	kN	kg/m
SY 06B-1					12.6	13.4							9.90	1.70	0.41
SY 06B-2	9.525	5.72	6.35	3.28	22.9	23.7	6.3	7.1	8.2	1.0	1.25	10.24	18.80	2.90	0.78
SY 06B-3					33.2	33.7							27.70	4.20	1.18
SY 08B-1					16.7	18.2							19.60	3.14	0.61
SY 08B-2	12.70	7.75	8.51	4.45	30.6	31.9	8.4	9.8	11.8	1.5		13.92	34.60	5.35	1.26
SY 08B-3					44.5	45.8							49.40	7.85	1.88
SY 10B-1					19.4	20.7							24.60	4.90	0.89
SY 10B-2	15.875	9.65	10.16	5.08	36.0	37.3	9.7	11.0	14.7	1.65		16.59	49.40	8.33	1.79
SY 10B-3					52.6	54.4							74.10	12.20	2.66
SY 12B-1					22.0	23.6							32.20	7.06	1.14
SY 12B-2	19.05	11.68	12.07	5.72	41.6	43.2	11.0	12.6	16.1	1.8		19.46	64.40	12.00	2.28
SY 12B-3					61.1	62.7							96.60	17.60	3.36
SY 16B-1					35.2	38.2							66.60	16.40	2.59
SY 16B-2	25.40	17.02	15.88	8.26	67.2	70.1	17.6	20.6	21.0	3.2	4.0	31.88	117.80	21.40	5.13
SY 16B-3					99.5	102.5							177.80	31.50	7.68
SY 20B-1					40.2	44.0							105.00	25.50	3.76
SY 20B-2	31.75	19.56	19.05	10.16	76.8	80.6	20.1	23.9	26.4	3.5	4.5	36.45	188.90	33.30	7.26
SY 20B-3					113.3	117.2							277.80	49.00	10.86
SY 24B-1					53.4	58.1							177.80	35.70	7.29
SY 24B-2	38.10	25.40	25.40	14.63	101.8	106.5	26.7	31.4	33.4	5.0	5.9	48.36	311.10	46.80	14.53
SY 24B-3					150.2	154.9							472.20	68.80	21.76
SY 28B-1					65.1	70.5							222.20	44.50	9.26
SY 28B-2	44.45	31.00	27.94	15.88	124.7	130.0	32.6	37.9	37.0	6.3	7.4	59.56	400.00	58.30	18.45
SY 28B-3					184.2	189.6							588.90	85.80	27.65
SY 32B-1					65.0	71.1							275.00	51.00	9.92
SY 32B-2	50.80	31.00	29.21	17.81	123.4	129.7	32.5	38.6	42.2	6.3	6.9	58.55	500.00	66.60	19.76
SY 32B-3					182.0	188.3							744.40	98.00	29.61

06B chains have straight shaped link plates and use split bushings. The intermediate plate of the multiple strand 06B chain is a single plate, and the thickness is 1.6mm. The thickness of the intermediate plate of the multiple strand 08B chain is 1.25mm. onnecting links are "cotter" style for size 16B-3 SBR and all sizes above 20B SBR. Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used.

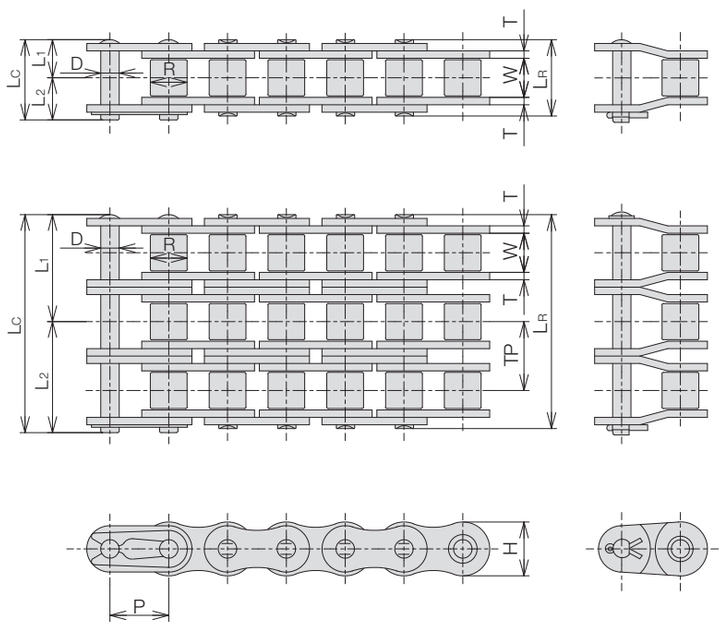
02

SUGIYAMA

Premium Standard Roller Chain

ANSI | Single Pitch | Standard | SBR

"SBR" (Solid Bushing & Roller) is the product type of SUGIYAMA premium standard roller chain. Our Premium roller chains are made with solid bushings and solid rollers, specially treated pins and bushings, and a stringently controlled heat treatment process. These are only a few of the many features built into SY branded chains. They meet or exceed ANSI roller chain standard B29.1, making it the most suitable selection for almost any application. Learn more about SBR.



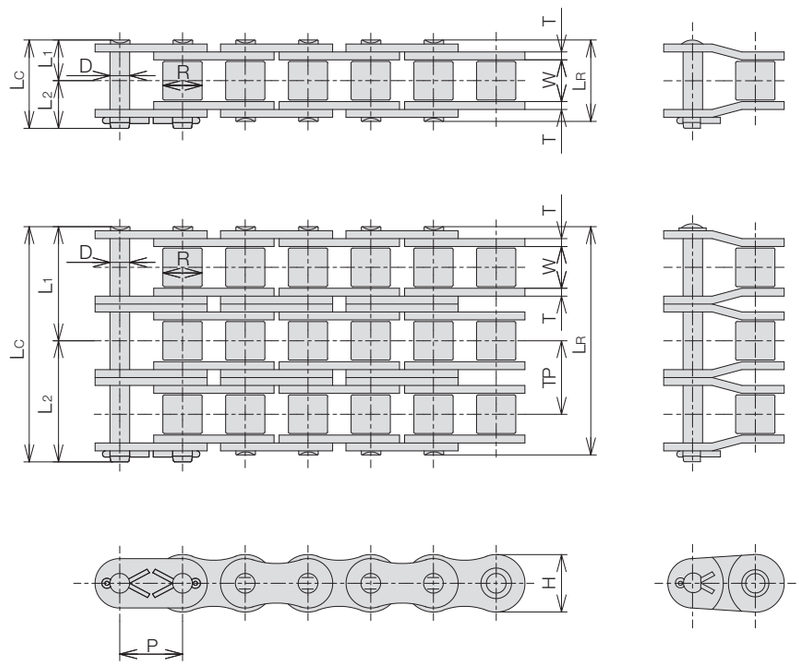
SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate		Trans. Pitch			
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					L_R	Lc	L_1	L_2	H	T	TP	kN	kN	kg/m
SY 35-1	9.525	4.78	※5.08	3.58	12.0	12.9	6.0	6.9	9.0	1.25	-	10.80	2.48	0.34
SY 35-2					22.1	23.0	11.1	11.9				21.60	3.67	0.63
SY 35-3					32.2	33.1	16.1	17.0			10.1	32.40	5.40	0.92
SY 35-4					42.3	43.2	21.2	22.0				43.20	7.13	1.22
SY 35-5					52.4	53.2	26.2	27.0				54.00	8.42	1.56
SY 35-6					62.5	63.5	31.3	32.2				64.80	9.94	1.89
SY 40-1	12.70	7.95	7.92	3.96	16.6	17.7	8.3	9.4	11.7	1.5	-	19.10	4.17	0.60
SY 40-2					30.8	32.2	15.4	16.8				38.20	6.17	1.22
SY 40-3					45.4	46.6	22.7	23.9				57.30	9.08	1.85
SY 40-4					60.0	60.9	30.0	30.9			14.4	76.40	12.00	2.46
SY 40-5					74.6	75.6	37.3	38.3				95.50	14.20	3.14
SY 40-6					89.0	89.9	44.5	45.4				115.00	16.70	3.31
SY 50-1	15.875	9.53	10.16	5.08	20.5	22.0	10.2	11.8	14.6	2.0	-	31.90	7.22	0.98
SY 50-2					38.4	40.0	19.2	20.8				63.80	10.70	2.00
SY 50-3					56.7	58.2	28.4	29.8				95.70	15.70	3.07
SY 50-4					75.0	76.3	37.5	38.8			18.1	128.00	20.70	3.97
SY 50-5					93.2	94.4	46.6	47.8				160.00	24.50	5.02
SY 50-6					111.4	112.5	55.7	56.8				191.00	28.90	6.01
SY 60-1	19.05	12.70	11.91	5.95	25.7	26.9	12.8	14.1	17.5	2.4	-	43.10	10.70	1.46
SY 60-2					48.2	49.7	24.0	25.7				86.20	14.70	2.95
SY 60-3					71.2	72.6	35.2	37.4				129.00	21.60	4.43
SY 60-4					94.4	95.4	47.2	48.2			22.8	172.00	28.50	5.92
SY 60-5					117.0	118.2	58.5	59.7				216.00	33.70	7.41
SY 60-6					140.0	140.9	70.1	70.8				259.00	39.70	8.90
SY 60-8					185.0	186.6	92.5	94.1				345.00	53.50	13.36

※ Chain is rollerless. Dimension shown is bushing diameter.

Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used.

Premium Standard Roller Chain

ANSI | Single Pitch | Standard | SBR

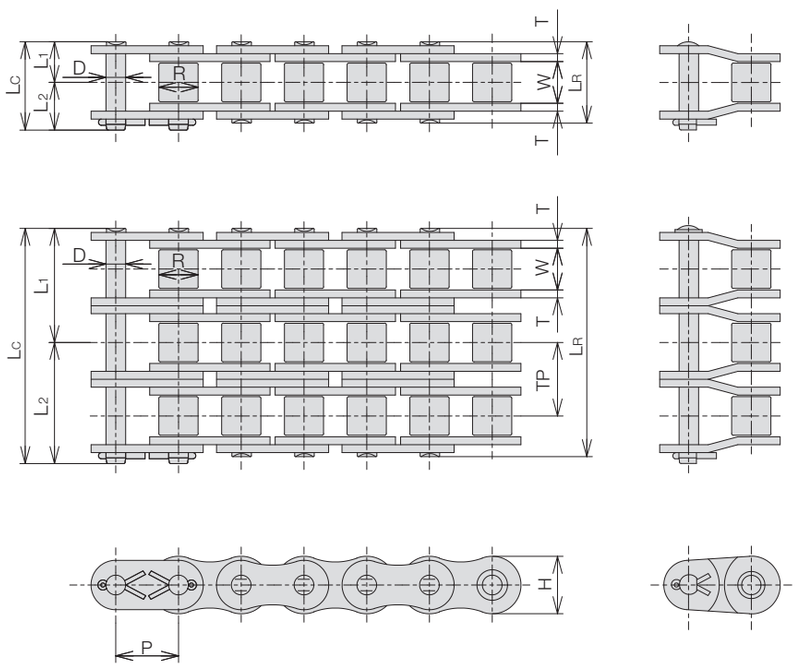


SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate		Trans. Pitch			
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					L_R	L_C	L_1	L_2	H	T	TP	kN	kN	kg/m
SY 80-1	25.40	15.88	15.88	7.93	33.0	35.5	16.4	19.1	23.4	3.2	-	78.50	19.10	2.52
SY 80-2					61.6	64.5	30.8	33.7			29.3	157.00	25.00	5.10
SY 80-3					90.9	94.1	45.5	48.6				236.00	36.80	7.68
SY 80-4					120.4	123.5	60.2	63.3				314.00	48.50	10.25
SY 80-5					149.8	152.8	74.9	77.9				393.00	57.30	12.84
SY 80-6					179.1	182.1	89.6	92.5				471.00	67.60	15.42
SY 80-8					237.6	240.6	118.8	121.8				628.00	91.10	20.58
SY 100-1	31.75	19.05	19.05	9.53	39.6	43.0	19.7	23.3	29.3	4.0	-	118.00	29.40	3.91
SY 100-2					75.1	78.8	37.6	41.2			35.8	236.00	38.40	7.74
SY 100-3					110.9	114.6	55.5	59.1				354.00	56.50	11.58
SY 100-4					147.4	150.8	73.7	77.1				472.00	74.60	15.40
SY 100-5					183.0	186.6	91.5	95.1				590.00	88.10	19.26
SY 100-6					218.8	222.4	109.4	113.0				708.00	104.00	23.10
SY 100-8					290.4	294.1	145.2	148.9				944.00	140.00	30.81
SY 120-1	38.10	25.40	22.23	11.10	49.7	53.4	24.8	28.6	35.1	4.8	-	167.00	39.50	5.76
SY 120-2					94.9	98.8	47.5	51.3			45.4	334.00	51.70	11.49
SY 120-3					140.3	144.2	70.2	74.0				501.00	76.00	17.20
SY 120-4					186.1	190.0	93.1	96.9				668.00	100.00	22.92
SY 120-5					231.5	235.4	115.8	119.6				835.00	119.00	28.65
SY 120-6					276.9	280.8	138.5	142.3				1,002.00	140.00	34.36
SY 120-8					367.5	371.7	183.8	187.9				1,336.00	188.00	45.81
SY 140-1	44.45	25.40	25.40	12.70	54.0	58.3	27.0	31.3	40.9	5.6	-	216.00	52.30	7.41
SY 140-2					102.9	107.2	51.5	55.7			48.9	432.00	68.30	14.63
SY 140-3					151.7	156.3	75.9	80.4				648.00	101.00	21.91
SY 140-4					201.2	205.5	100.6	104.9				864.00	133.00	29.17
SY 140-5					250.1	254.4	125.1	129.3				1,080.00	157.00	36.45
SY 140-6					299.0	303.3	149.5	153.8				1,296.00	185.00	43.72

Connecting links are "clip" style for size 80-1 SBR and size 80-2 SBR. Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used.

Premium Standard Roller Chain

ANSI | Single Pitch | Standard | SBR



SY Chain No.	Dimension - mm										Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin	Length				Plate		Trans. Pitch			
		Width W	Dia. R	Dia. D	LR	LC	L1	L2	Height H	Thickness T	TP	kN	kN	kg/m
SY 160-1	50.80	31.75	28.58	14.28	64.3	68.7	32.2	36.5	46.7	6.4	-	275.00	69.00	9.79
SY 160-2					122.8	127.2	61.4	65.8				550.00	90.10	19.45
SY 160-3					181.3	185.7	90.7	95.0				825.00	133.00	29.17
SY 160-4					240.3	244.7	120.2	124.5			58.5	1,100.00	175.00	38.77
SY 160-5					298.8	303.3	149.4	153.9				1,375.00	207.00	48.43
SY 160-6					357.4	361.7	178.7	183.0				1,650.00	244.00	58.08
SY 180-1	57.15	35.70	35.70	17.45	72.5	78.4	36.3	42.1	52.5	7.2	-	353.00	79.00	13.39
SY 180-2					138.2	144.0	69.1	74.9				706.00	98.40	26.62
SY 180-3					204.5	210.2	102.3	107.9				1,059.00	145.00	39.85
SY 180-4					270.2	275.9	135.1	140.8			65.8	1,412.00	191.00	53.08
SY 180-5					336.0	341.6	167.9	173.7				1,765.00	226.00	66.31
SY 180-6					401.8	407.3	200.9	206.4				2,118.00	266.00	79.54
SY 200-1	63.50	38.10	39.67	19.83	78.5	87.0	39.3	47.7	59.8	8.0	-	451.00	93.00	16.93
SY 200-2					150.2	158.7	75.1	83.6				902.00	122.00	33.73
SY 200-3					221.7	230.2	110.9	119.3				1,353.00	179.00	50.53
SY 200-4					293.3	302.4	146.7	155.7			71.6	1,804.00	236.00	67.34
SY 200-5					365.5	374.0	182.8	191.2				2,255.00	279.00	84.14
SY 200-6					437.1	445.6	218.6	227.0				2,706.00	329.00	100.94
SY 240-1	76.20	47.63	47.63	23.78	95.5	104.0	47.8	56.2	70.3	9.5	-	677.00	129.00	23.64
SY 240-2					183.4	191.8	91.7	100.1				1,354.00	167.00	47.13
SY 240-3					271.3	279.6	135.7	143.9				2,031.00	245.00	70.61
SY 240-4					359.8	367.4	179.9	187.5			87.8	2,708.00	324.00	94.09
SY 240-5					447.3	455.2	223.8	231.4				3,385.00	383.00	117.56
SY 240-6					534.9	543.1	267.5	275.6				4,062.00	451.00	141.06

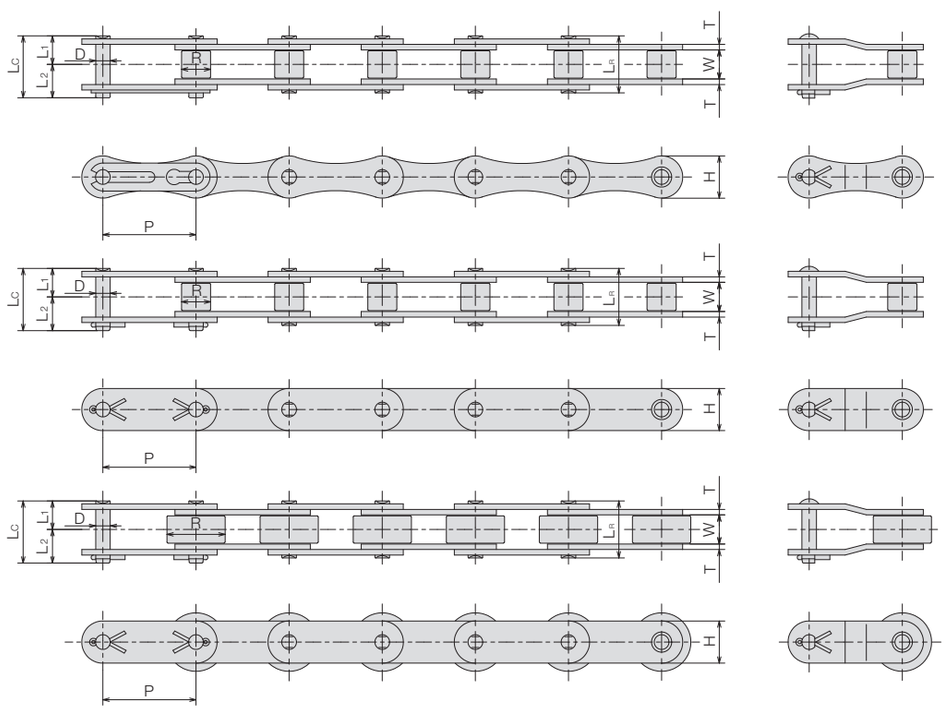
Connecting links are "through S pin" style for all sizes above 200 SBR. Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used.

03

Premium Standard Roller Chain

ANSI | Double Pitch | Standard | SBR

"SBR" (Solid Bushing & Roller) is the product type of SUGIYAMA premium standard roller chain. SUGIYAMA offers two different plate shapes of double pitch roller chains. One has a figure-eight shaped link plates; the other has straight edged link plates. The straight edged type is available with standard rollers or with over-sized carrier rollers. Learn more about SBR.



SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller			Pin					Plate				
		Width W	Roller Type	Dia. R	Dia. D	Length				Height	Thickness			
						L_R	L_C	L_1	L_2	H	T	kN	kN	kg/m
SY A2040	25.40	7.95	S	7.92	3.96	16.6	18.3	8.3	10.0	11.4	1.5	16.90	3.63	0.43
SY A2050	31.75	9.53	S	10.16	5.08	20.5	22.2	10.2	12.0	15.0	2.0	27.50	6.28	0.73
SY A2060	38.10	12.70	S	11.91	5.95	25.7	27.6	12.8	14.8	17.0	2.4	40.20	8.63	1.03
SY A2080	50.80	15.88	S	15.88	7.93	33.0	35.5	16.4	19.1	22.6	3.2	68.60	14.70	1.71
SY C2040	25.40	7.95	S	7.92	3.96	16.6	18.3	8.3	10.0	11.4	1.5	16.90	3.63	0.48
SY C2042			R	15.88										0.82
SY C2050	31.75	9.53	S	10.16	5.08	20.5	22.2	10.2	12.0	15.0	2.0	27.50	6.28	0.82
SY C2052			R	19.05										1.26
SY C2060H	38.10	12.70	S	11.91	5.95	28.8	31.0	14.4	16.6	17.0	3.2	40.20	8.63	1.38
SY C2062H			R	22.23										2.08
SY C2080H	50.80	15.88	S	15.88	7.93	36.4	38.8	17.8	21.0	22.6	4.0	68.60	14.70	2.32
SY C2082H			R	28.58										3.36
SY C2100H	63.50	19.05	S	19.05	9.53	42.4	46.0	21.2	24.8	28.6	4.8	107.90	22.60	3.46
SY C2102H			R	39.67										5.64
SY C2120H	76.20	25.40	S	22.23	11.10	52.8	57.2	26.4	30.8	34.9	5.6	151.00	30.40	4.92
SY C2122H			R	44.45										7.87
SY C2160H	101.60	31.75	S	28.58	14.28	67.9	73.1	34.0	39.1	47.6	7.2	257.90	53.00	8.02
SY C2162H			R	57.15										12.77

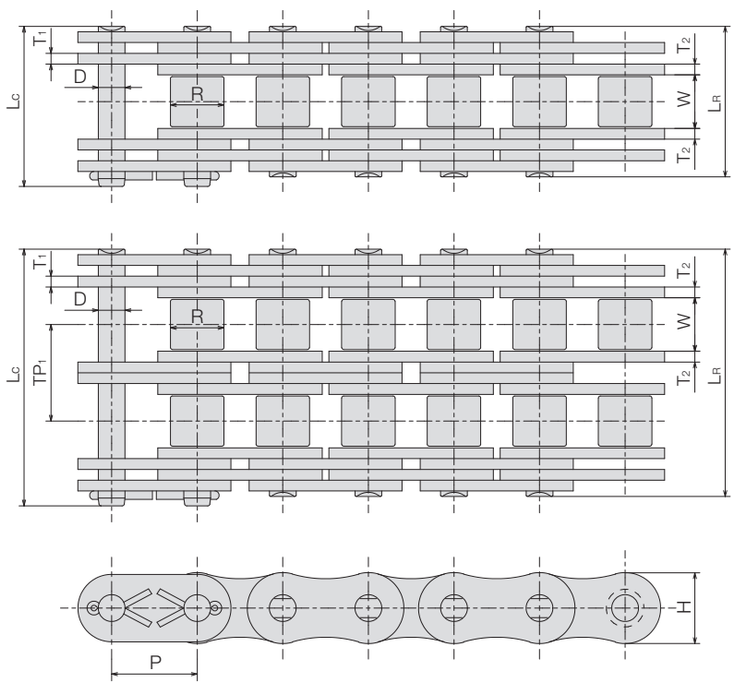
The figure-eight shaped link plates are for drive chains. Roller Type "S" indicates a standard roller. Roller Type "R" indicates an oversized carrier roller. Roller Type "R" can be manufactured with plastic oversized carrier rollers.

04

Double Capacity Roller Chain & Triple Capacity Roller Chain

BS | Single Pitch | Heavy Duty | DC & TC

"DC" type roller chains consist of twice the number of side plates as the single strand chain, and its working load is close to the standard double strand chain. "DC" type and "TC" type roller chains run on standard roller chain sprockets, and the ideal chain speed is less than 50 m/min.



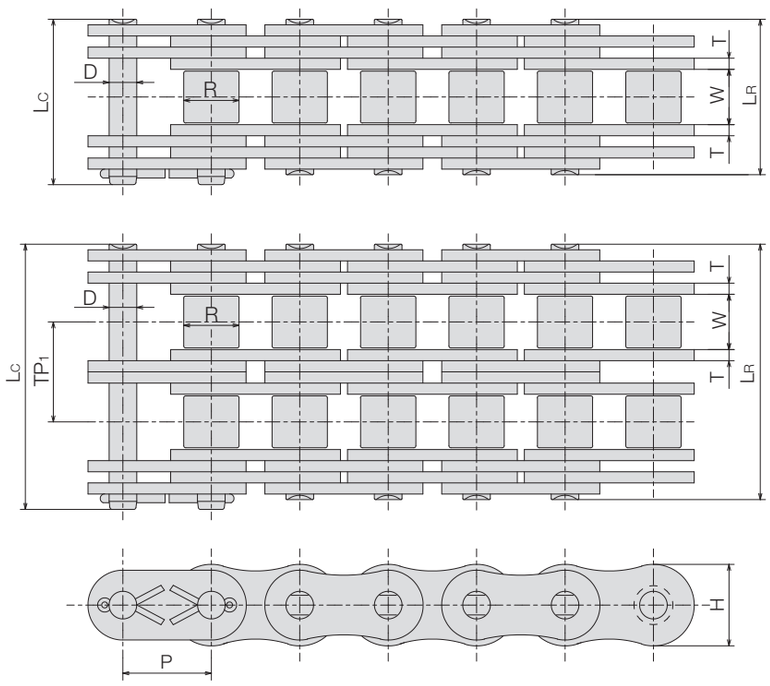
SY Chain No.	Dimension - mm										Average Tensile Strength	Average Chain Weight
	Pitch P	Roller		Pin			Plate			Trans. Pitch		
		Width W	Dia. R	Dia. D	Length		Height	Thickness	Thickness			
					LR	LC	H	T1	T2	TP1	kN	kg/m
SY 16B-1 DC	25.40	17.02	15.88	8.26	48.8	51.8	21.0	3.2	4.0	-	130.00	4.43
SY 16B-2 TC					82.0	85.2				31.9	195.00	7.20
SY 20B-1 DC	31.75	19.56	19.05	10.16	56.2	60.0	26.4	3.5	4.5	-	201.00	6.35
SY 20B-2 TC					92.7	96.5				36.5	301.00	10.14
SY 24B-1 DC	38.10	25.40	25.40	14.63	73.2	77.8	33.4	5.0	5.9	-	340.00	10.82
SY 24B-2 TC					122.2	126.8				48.4	510.00	17.71
SY 28B-1 DC	44.45	31.00	27.94	15.88	92.6	97.8	37.0	6.3	7.4	-	424.00	14.61
SY 28B-2 TC					152.2	157.4				59.6	636.00	23.64
SY 32B-1 DC	50.80	31.00	29.21	17.81	93.6	99.6	42.2	6.3	6.9	-	520.00	15.22
SY 32B-2 TC					152.0	158.0				58.6	780.00	24.26

Offset links are not available. DC type and TC type chains are designed to be used with standard sprockets.

Double Capacity Roller Chain & Triple Capacity Roller Chain

ANSI | Single Pitch | Heavy Duty | DC & TC

"DC" type roller chains consist of twice the number of side plates as the single strand chain. Its working load is close to the standard double strand chain. "DC" and "TC" type roller chains run on standard roller chain sprockets, and the ideal chain speed is less than 50 m/min.



SY Chain No.	Dimension - mm									Average Tensile Strength	Average Chain Weight
	Pitch P	Roller		Pin			Plate		Trans. Pitch		
		Width W	Dia. R	Dia. D	Length		Height	Thickness			
					LR	Lc	H	T	TP	kN	kg/m
SY 80-1 DC	25.40	15.88	15.88	7.93	45.6	48.7	23.4	3.2	-	149.00	4.33
SY 80-2 TC					74.9	78.0			29.3	223.00	6.92
SY 100-1 DC	31.75	19.05	19.05	9.53	55.8	59.5	29.3	4.0	-	224.00	6.44
SY 100-2 TC					91.5	95.3			35.8	336.00	10.26
SY 120-1 DC	38.10	25.40	22.23	11.10	69.0	73.3	35.1	4.8	-	317.00	9.37
SY 120-2 TC					114.2	118.7			45.4	475.00	15.00
SY 140-1 DC	44.45	25.40	25.40	12.70	76.4	81.1	40.9	5.6	-	410.00	12.19
SY 140-2 TC					125.2	130.0			48.9	615.00	19.40
SY 160-1 DC	50.80	31.75	28.58	14.28	90.0	95.1	46.7	6.4	-	522.00	16.43
SY 160-2 TC					148.5	153.6			58.5	783.00	26.10
SY 180-1 DC	57.15	35.70	35.70	17.45	101.6	107.7	52.5	7.2	-	670.00	21.39
SY 180-2 TC					167.4	173.5			65.8	1,005.00	34.91
SY 200-1 DC	63.50	38.10	39.67	19.83	111.2	120.0	59.8	8.0	-	857.00	27.50
SY 200-2 TC					182.8	191.6			71.6	1,285.00	44.05
SY 240-1 DC	76.20	47.63	47.63	23.78	135.4	143.2	70.3	9.5	-	1,286.00	40.31
SY 240-2 TC					223.4	231.0			87.8	1,929.00	64.43

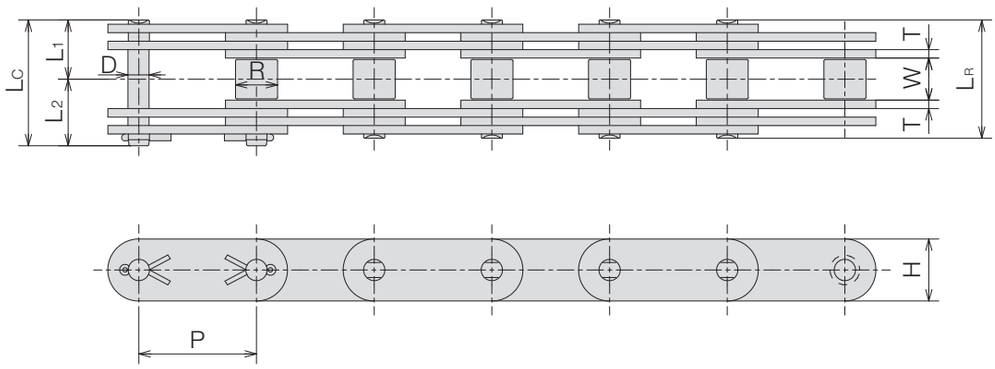
Connecting links are "clip" style for size 80-1 DC and size 80-2 TC. Connecting links are "through S pin" style for all sizes above 200 DC. Connecting links are "through S pin" style for all sizes above 200-2 TC. Offset links are not available. DC type and TC type chains are designed to be used with standard sprockets.

06

Double Capacity Roller Chain

ANSI | Double Pitch | Heavy Duty | DC

"DC" type roller chains consist of twice the number of side plates as the single strand chain, and its working load is close to the standard double strand chain. "DC" type roller chains run on standard roller chain sprockets, and the ideal chain speed is less than 50 m/min.



SY Chain No.	Dimension - mm										Average Tensile Strength	Average Chain Weight
	Pitch P	Roller		Pin					Plate			
		Width W	Dia. R	Dia. D	Length				Height	Thickness		
					LR	LC	L1	L2	H	T	kN	kg/m
SY C2040 DC	25.40	7.95	7.92	3.96	23.0	24.7	11.5	13.2	11.4	1.5	38.20	0.50
SY C2050 DC	31.75	9.53	10.16	5.08	28.8	30.5	14.4	16.1	15.0	2.0	63.80	0.85
SY C2060H DC	38.10	12.70	11.91	5.95	42.2	44.2	21.1	23.1	17.0	3.2	109.80	1.46
SY C2080H DC	50.80	15.88	15.88	7.93	52.0	55.1	26.0	29.1	22.6	4.0	180.40	2.50
SY C2100H DC	63.50	19.05	19.05	9.53	62.0	65.6	31.0	34.6	28.6	4.8	274.00	3.81
SY C2120H DC	76.20	25.40	22.23	11.10	77.8	82.1	38.9	43.2	34.9	5.6	372.00	5.50
SY C2160H DC	101.60	31.75	28.58	14.28	97.4	102.6	48.7	53.9	47.6	7.2	612.00	9.27

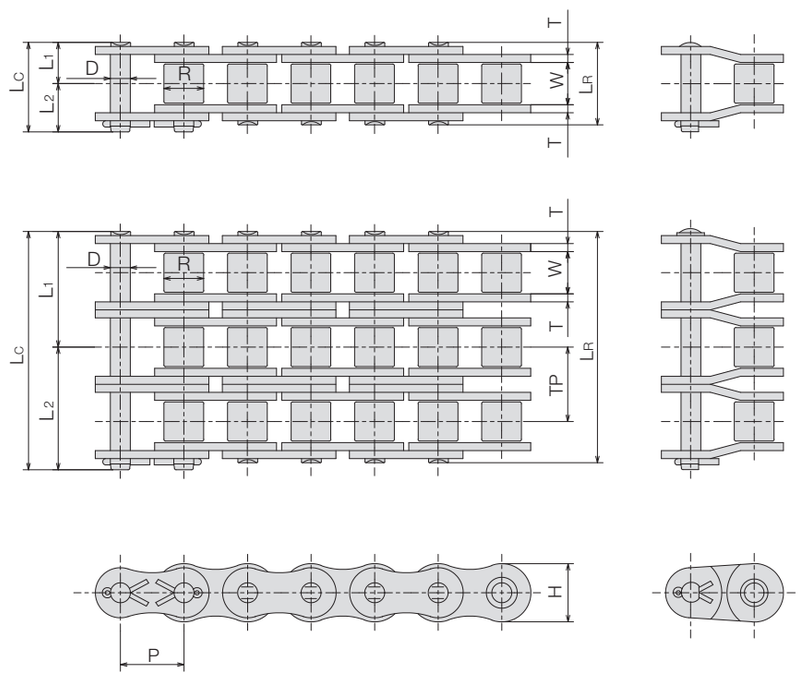
Offset links are not available. DC type chains are designed to be used with standard sprockets.

07

Heavy Roller Chain

ANSI | Single Pitch | Heavy Duty | H

"H" type roller chains have increased link plate thickness to provide greater capacity without fatigue failure. The link plate thickness is that of the next larger size chain. Single strand roller chains of "H" type run on standard roller chain sprockets.



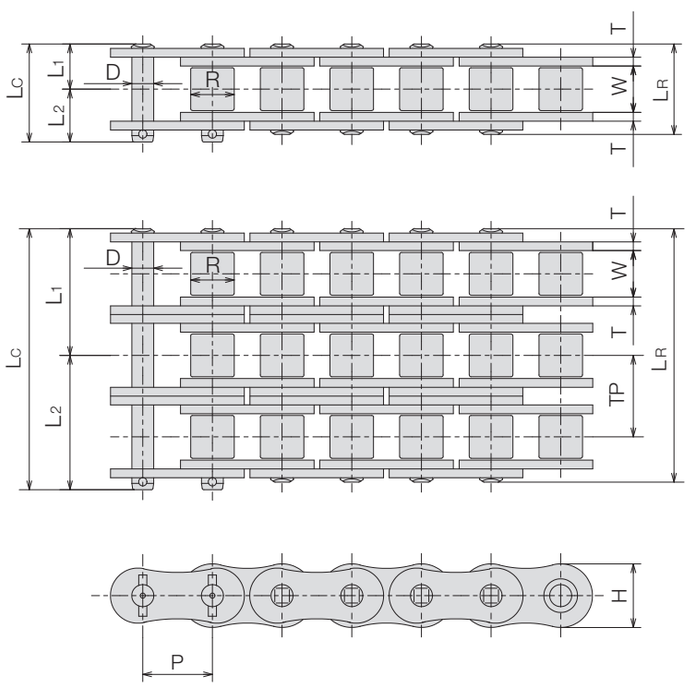
SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate		Trans. Pitch			
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					L_R	L_C	L_1	L_2	H	T	TP	kN	kN	kg/m
SY 50-1 H					21.9	23.6	11.0	12.6			-	36.30	7.22	1.20
SY 50-2 H	15.875	9.53	10.16	5.08	41.7	43.5	20.9	22.6	14.6	2.4	19.8	72.60	10.70	2.40
SY 50-3 H					61.5	63.2	30.8	32.4				108.90	15.70	3.60
SY 60-1 H					28.8	31.0	14.4	16.6			-	54.90	10.70	1.80
SY 60-2 H	19.05	12.70	11.91	5.95	54.7	57.0	27.4	29.6	17.5	3.2	26.1	110.00	15.20	3.59
SY 60-3 H					80.6	83.1	40.3	42.8				165.00	22.30	5.39
SY 80-1 H					36.4	38.8	17.8	21.0			-	90.20	18.40	2.81
SY 80-2 H	25.40	15.88	15.88	7.93	68.4	71.3	34.2	37.1	23.4	4.0	32.6	180.00	25.80	5.54
SY 80-3 H					101.0	104.0	50.5	53.5				271.00	38.00	8.26
SY 100-1 H					42.4	46.0	21.2	24.8			-	137.00	28.30	4.14
SY 100-2 H	31.75	19.05	19.05	9.53	81.6	85.0	40.8	44.2	29.3	4.8	39.1	274.00	39.10	8.20
SY 100-3 H					120.7	124.4	60.4	64.0				414.00	57.50	12.26
SY 120-1 H					52.8	57.2	26.4	30.8			-	186.00	38.00	5.83
SY 120-2 H	38.10	25.40	22.23	11.10	102.0	106.1	51.0	55.1	35.1	5.6	48.9	372.00	53.40	11.56
SY 120-3 H					150.8	155.2	75.4	79.8				558.00	78.50	17.29
SY 140-1 H					57.2	61.9	28.6	33.3			-	241.00	50.30	8.41
SY 140-2 H	44.45	25.40	25.40	12.70	109.4	114.0	54.7	59.3	40.9	6.4	52.2	482.00	70.00	16.59
SY 140-3 H					161.8	166.4	80.9	85.5				723.00	103.00	24.77
SY 160-1 H					67.9	73.1	34.0	39.1			-	306.00	66.30	10.86
SY 160-2 H	50.80	31.75	28.58	14.28	129.8	134.9	64.9	70.0	46.7	7.2	61.9	612.00	93.30	21.21
SY 160-3 H					191.8	196.8	95.9	100.9				918.00	137.00	31.54
SY 180-1 H					75.6	81.5	37.8	43.7			-	373.00	70.60	15.18
SY 180-2 H	57.15	35.70	35.70	17.45	144.2	149.8	72.1	77.7	52.5	8.0	68.6	746.00	102.00	31.06
SY 180-3 H					212.8	218.7	106.4	112.3				1,119.00	149.00	44.94
SY 200-1 H					84.8	93.4	42.4	51.0			-	520.00	82.30	17.85
SY 200-2 H	63.50	38.10	39.67	19.83	163.1	172.0	81.6	90.4	59.8	9.5	78.3	1,040.00	127.00	35.20
SY 200-3 H					241.4	250.3	120.7	129.6				1,560.00	186.00	62.53
SY 240-1 H					109.8	118.2	54.9	63.3			-	726.00	112.80	32.29
SY 240-2 H	76.20	47.63	47.63	23.78	211.0	219.4	105.5	113.9	72.4	12.7	101.2	1,452.00	173.00	62.06
SY 240-3 H					312.2	320.6	156.1	164.5				2,178.00	255.00	91.82

Connecting links are "clip" style for sizes 50 H, 60 H, 80-1 H, 80-2 H. Connecting links are "through S pin" style for all sizes above 200 H. H type chains are designed to be used with standard sprockets. H type multiple strand chains are not designed to be used standard sprockets. Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used.

Super Roller Chain

ANSI | Single Pitch | Heavy Duty | SUP

"SUP" type roller chains are designed to provide longer chain life under severe loads. Enhanced plate configuration and ball milling plate holes ensure greater tensile strength and resistance to fatigue failure. High-grade alloy steel and four point riveting provide higher shock load capacities.



SY Chain No.	Dimension - mm										Trans. Pitch	Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate					
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					L_R	L_C	L_1	L_2	H	T		κN	κN	kg/m
SY 80-1 SUP					32.6	35.5	16.3	19.2			-	84.30	18.60	2.81
SY 80-2 SUP	25.40	15.88	15.88	7.93	62.0	64.9	31.0	33.9	24.1	3.2	29.3	169.00	31.60	5.63
SY 80-3 SUP					91.3	94.2	45.7	48.5				253.00	46.50	8.41
SY 100-1 SUP					39.8	43.2	19.9	23.3			-	127.00	30.40	4.26
SY 100-2 SUP	31.75	19.05	19.05	9.53	75.4	79.0	37.7	41.3	30.1	4.0	35.8	254.00	51.70	8.38
SY 100-3 SUP					111.2	114.8	55.6	59.2				381.00	76.00	12.57
SY 120-1 SUP					49.7	53.7	24.9	28.8			-	186.00	39.20	6.30
SY 120-2 SUP	38.10	25.40	22.23	11.10	95.4	99.4	47.7	51.7	36.2	4.8	45.4	372.00	66.60	12.44
SY 120-3 SUP					140.8	144.8	70.4	74.4				558.00	98.00	18.65
SY 140-1 SUP					54.0	58.3	27.0	31.3			-	245.00	53.90	8.04
SY 140-2 SUP	44.45	25.40	25.40	12.70	103.3	107.6	51.7	55.9	42.2	5.6	48.9	490.00	91.60	15.92
SY 140-3 SUP					152.2	156.5	76.1	80.4				735.00	135.00	23.84
SY 160-1 SUP					64.4	69.0	32.2	36.8			-	314.00	70.60	10.8
SY 160-2 SUP	50.80	31.75	28.58	14.28	123.2	127.8	61.6	66.2	48.2	6.4	58.5	628.00	120.00	21.44
SY 160-3 SUP					181.7	186.3	90.9	95.4				942.00	177.00	32.10
SY 200-1 SUP					78.6	86.2	39.3	46.9			-	490.00	94.10	17.6
SY 200-2 SUP	63.50	38.10	39.67	19.83	150.6	158.2	75.3	82.9	60.3	8.0	71.6	980.00	160.00	34.91
SY 200-3 SUP					222.2	229.8	111.1	118.7				1,470.00	235.00	52.44
SY 240-1 SUP					96.4	103.4	48.2	55.2			-	726.00	132.00	25.6
SY 240-2 SUP	76.20	47.63	47.63	23.78	184.2	191.2	92.1	99.1	72.4	9.5	87.8	1,452.00	224.00	50.88
SY 240-3 SUP					272.0	279.0	136.0	143.0				2,178.00	330.00	76.12

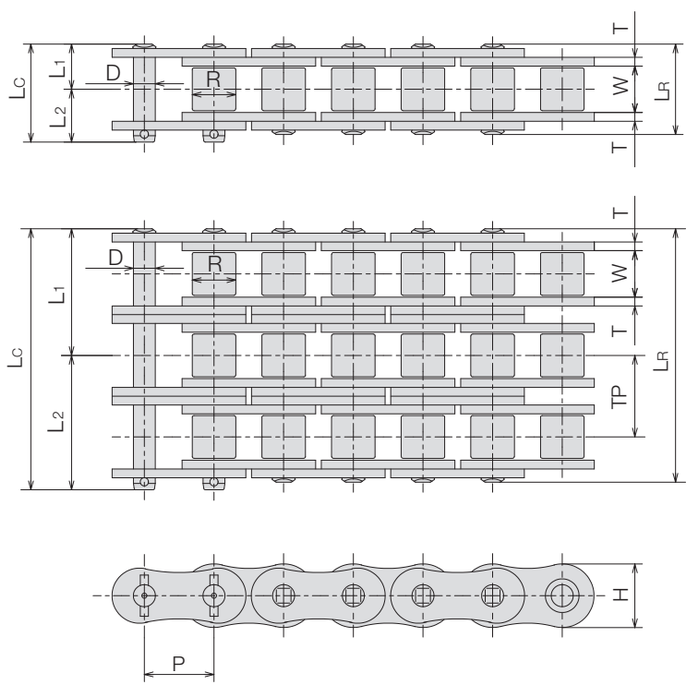
Connecting links for SUP type are "semi press-fit" style. SUP type multiple strand chains are standardly designed for semi press-fit center plate construction. BCL connecting links are standardly equipped for SUP type mutiple strand chains. Offset links are not available. SUP type chains are also available in the cottered type design. Contact SUGIAYAMA for further information. SUP type both single and mutiple strand chains are designed to be used with standard sprockets.

09

Super H Roller Chain

ANSI | Single Pitch | Heavy Duty | SUP H

"SUP H" type roller chains have the same link plates thickness as the next larger chain size. Enhanced plate configuration and ball milling plate holes ensure greater tensile strength and resistance to fatigue failure. High-grade alloy steel and four point riveting provide higher shock load capacities.



SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate		Trans. Pitch			
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					L_R	L_C	L_1	L_2	H	T	TP	kN	kN	kg/m
SY 80-1 SUP H					36.4	38.9	18.0	20.9			-	98.10	20.60	3.33
SY 80-2 SUP H	25.40	15.88	15.88	7.93	68.6	71.6	34.3	37.3	24.1	4.0	32.6	196.20	35.02	6.67
SY 80-3 SUP H					101.2	104.2	50.6	53.6				294.30	51.50	9.96
SY 100-1 SUP H					42.6	46.2	21.3	24.9			-	145.00	32.40	4.88
SY 100-2 SUP H	31.75	19.05	19.05	9.53	81.6	85.4	40.8	44.6	30.1	4.8	39.1	290.00	55.08	9.6
SY 100-3 SUP H					120.7	124.5	60.4	64.1				435.00	81.00	14.4
SY 120-1 SUP H					52.8	57.3	26.4	30.9			-	196.00	42.20	6.94
SY 120-2 SUP H	38.10	25.40	22.23	11.10	102.0	106.4	51.0	55.4	36.2	5.6	48.9	392.00	71.74	13.71
SY 120-3 SUP H					150.9	155.4	75.5	79.9				588.00	105.50	20.55
SY 140-1 SUP H					57.2	61.9	28.6	33.3			-	255.00	56.90	8.87
SY 140-2 SUP H	44.45	25.40	25.40	12.70	109.6	114.2	54.8	59.4	42.2	6.4	52.2	510.00	96.73	17.56
SY 140-3 SUP H					161.8	166.5	80.9	85.6				765.00	142.25	26.3
SY 160-1 SUP H					67.9	72.8	34.0	38.8			-	324.00	73.50	11.7
SY 160-2 SUP H	50.80	31.75	28.58	14.28	130.0	134.8	65.0	69.8	48.2	7.2	61.9	648.00	124.95	23.15
SY 160-3 SUP H					192.0	196.8	96.0	100.8				972.00	183.75	34.67

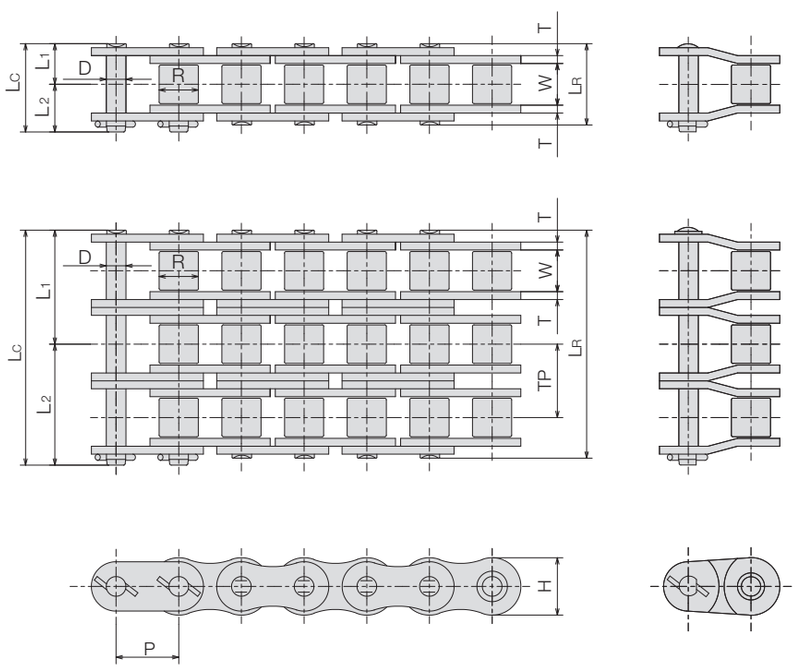
Connecting links for SUP H type are "semi press-fit" style. SUP H type multiple strand chains are standardly designed for semi press-fit center plate construction. BCL connecting links are standardly equipped for SUP H type mutiple strand chains. Offset links are not available. SUP H type chains are also available in the cottered type design. Contact SUGIYAMA for further information. SUP H type chains are designed to be used with standard sprockets. SUP H type mutiple strand chains are not designed to be used with standard sprockets.

10

E Roller Chain

ANSI | Single Pitch | Heavy Duty | E

"E" type roller chains are made using high quality alloys and through-hardened pins to better resist fatigue failure in applications that are subject to high shock loads. Please specify if the chain is being utilized in oil field applications.



SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate		Trans. Pitch			
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					L_R	L_C	L_1	L_2	H	T	TP	kN	kN	kg/m
SY 80-1 E					33.0	35.5	16.4	19.1			-	79.40	18.40	2.52
SY 80-2 E	25.40	15.88	15.88	7.93	61.6	64.5	30.8	33.7	23.4	3.2	29.3	159.00	26.70	5.10
SY 80-3 E					90.9	94.1	45.5	48.6				238.00	39.30	7.68
SY 100-1 E					39.4	43.0	19.7	23.3			-	119.00	28.30	3.91
SY 100-2 E	31.75	19.05	19.05	9.53	75.1	78.8	37.6	41.2	29.3	4.0	35.8	238.00	40.80	7.74
SY 100-3 E					110.9	114.6	55.5	59.1				357.00	60.00	11.58
SY 120-1 E					49.5	53.4	24.8	28.6			-	174.00	38.00	5.76
SY 120-2 E	38.10	25.40	22.23	11.10	94.9	98.8	47.5	51.3	35.1	4.8	45.4	348.00	54.20	11.49
SY 120-3 E					140.3	144.2	70.2	74.0				522.00	79.80	17.20
SY 140-1 E					54.0	58.3	27.0	31.3			-	227.00	50.30	7.41
SY 140-2 E	44.45	25.40	25.40	12.70	102.9	107.2	51.5	55.7	40.9	5.6	48.9	454.00	73.20	14.63
SY 140-3 E					151.7	156.3	75.9	80.4				681.00	108.00	21.91
SY 160-1 E					64.3	68.7	32.2	36.5			-	294.00	66.30	9.79
SY 160-2 E	50.80	31.75	28.58	14.28	122.8	127.2	61.4	65.8	46.7	6.4	58.5	588.00	95.00	19.45
SY 160-3 E					181.3	185.7	90.7	95.0				882.00	140.00	29.17
SY 180-1 E					72.5	78.4	36.3	42.1			-	363.00	70.60	13.39
SY 180-2 E	57.15	35.70	35.70	17.45	138.2	144.0	69.1	74.9	52.5	7.2	65.8	726.00	102.00	26.62
SY 180-3 E					204.5	210.2	102.3	107.9				1,089.00	150.00	39.85
SY 200-1 E					78.5	87.0	39.3	47.7			-	470.00	82.30	16.93
SY 200-2 E	63.50	38.10	39.67	19.83	150.2	158.7	75.1	83.6	59.8	8.0	71.6	940.00	130.00	33.73
SY 200-3 E					221.7	230.2	110.9	119.3				1,410.00	191.00	50.53
SY 240-1 E					95.5	104.0	47.8	56.2			-	677.00	112.80	23.64
SY 240-2 E	76.20	47.63	47.63	23.78	183.4	191.8	91.7	100.1	70.3	9.5	87.8	1,354.00	179.00	47.13
SY 240-3 E					271.3	279.6	135.7	143.9				2,031.00	263.00	70.61

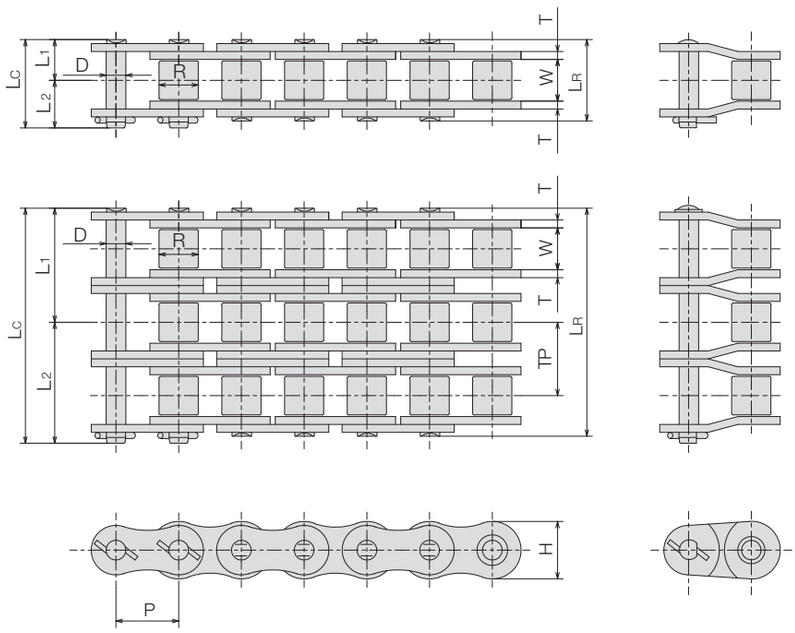
Connecting links are "cotter" style for size 80 E. E type multiple strand chains are standardly designed for loose-fit center plate construction. E type multiple strand chains can be constructed with semi press-fit center plates upon request. BCL connecting links are standardly equipped for E type mutiple strand chains with semi press-fit center plate construction. Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used.

11

HE Roller Chain

ANSI | Single Pitch | Heavy Duty | HE

"HE" type roller chains are designed with thicker link plates to ensure greater capacity for absorbing shock loads without fatigue failure of side plates. They are also made with high quality alloys and through-hardened pins to better resist fatigue failure. Please specify if the chain is being utilized in oil field applications.



SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate		Trans. Pitch			
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					L_R	L_C	L_1	L_2	H	T	TP	kN	kN	kg/m
SY 80-1 HE					36.4	38.8	17.8	21.0			-	93.20	18.40	2.80
SY 80-2 HE	25.40	15.88	15.88	7.93	68.4	71.3	34.2	37.1	23.4	4.0	32.6	186.00	28.40	5.54
SY 80-3 HE					101.0	104.0	50.5	53.5				280.00	41.80	8.26
SY 100-1 HE					42.4	45.9	21.2	24.7			-	142.00	28.30	4.14
SY 100-2 HE	31.75	19.05	19.05	9.53	81.6	85.0	40.8	44.2	29.3	4.8	39.1	284.00	45.10	8.20
SY 100-3 HE					120.7	124.4	60.4	64.0				426.00	66.30	12.26
SY 120-1 HE					52.8	57.2	26.4	30.8			-	191.00	38.00	5.83
SY 120-2 HE	38.10	25.40	22.23	11.10	102.0	106.1	51.0	55.1	35.1	5.6	48.9	382.00	58.30	11.56
SY 120-3 HE					150.8	155.2	75.4	79.8				573.00	85.80	17.29
SY 140-1 HE					57.2	61.8	28.6	33.2			-	252.00	50.30	7.41
SY 140-2 HE	44.45	25.40	25.40	12.70	109.4	114.0	54.7	59.3	40.9	6.4	52.2	504.00	76.70	16.59
SY 140-3 HE					161.8	166.4	80.9	85.5				756.00	113.00	24.77
SY 160-1 HE					67.9	73.0	34.0	39.0			-	319.00	66.30	10.86
SY 160-2 HE	50.80	31.75	28.58	14.28	129.8	134.9	64.9	70.0	46.7	7.2	61.9	638.00	100.00	21.21
SY 160-3 HE					191.8	196.8	95.9	100.9				957.00	147.00	31.54
SY 180-1 HE					75.6	81.5	37.8	43.7			-	441.00	70.60	15.18
SY 180-2 HE	57.15	35.70	35.70	17.45	144.2	149.8	72.1	77.7	52.5	8.0	68.6	882.00	121.00	30.06
SY 180-3 HE					212.8	218.7	106.4	112.3				1,323.00	179.00	44.94
SY 200-1 HE					84.8	93.4	42.4	51.0			-	559.00	82.30	17.85
SY 200-2 HE	63.50	38.10	39.67	19.83	163.1	172.0	81.6	90.4	59.8	9.5	78.3	1,118.00	138.00	35.20
SY 200-3 HE					241.4	250.3	120.7	129.6				1,677.00	204.00	52.53
SY 240-1 HE					109.8	118.2	54.9	63.3			-	883.00	112.80	32.29
SY 240-2 HE	76.20	47.63	47.63	23.78	211.0	219.4	105.5	113.9	72.4	12.7	101.2	1,766.00	192.00	62.06
SY 240-3 HE					312.2	320.6	156.1	164.5				2,649.00	283.00	91.82

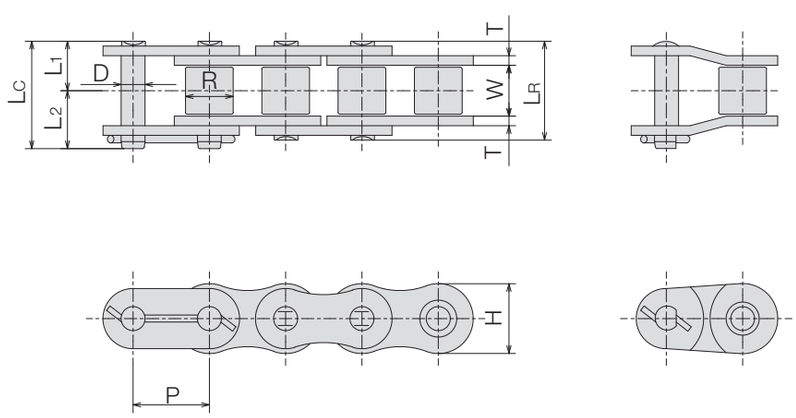
Connecting links are "cotter" style for size 80 HE. HE type multiple strand chains are standardly designed for loose-fit center plate construction. HE type multiple strand chains can be constructed with semi press-fit center plates upon request. BCL connecting links are standardly equipped for HE type mutiple strand chains with semi press-fit center plate construction. HE type chains are designed to be used with standard sprockets. HE type mutiple strand chains are not designed to be used with standard sprockets. Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used.

12

S Roller Chain

ANSI | Single Pitch | Heavy Duty | S

"S" type roller chains are designed to meet the requirements of greater break resistance and maximum endurance. The through hardened pins with a larger diameter than standard provide greater shock load resistance. The link plate thickness of "S" type roller chain is the same as that of the next larger sizes of corresponding pitch chain. They can fit perfectly on standard sprockets.



SY Chain No.	Pitch P	Dimension - mm									Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
		Roller		Pin					Plate				
		Width W	Dia. R	Dia. D	Length				Height	Thickness			
					L_R	L_C	L_1	L_2	H	T	kN	kN	kg/m
SY 251S-1	50.80	31.75	28.58	15.88	67.9	73.2	34.0	39.2	46.7	7.2	333.00	58.80	11.31
SY 264S-1	63.50	38.10	39.67	22.22	85.8	94.5	42.9	51.6	59.8	9.5	556.00	81.40	19.27

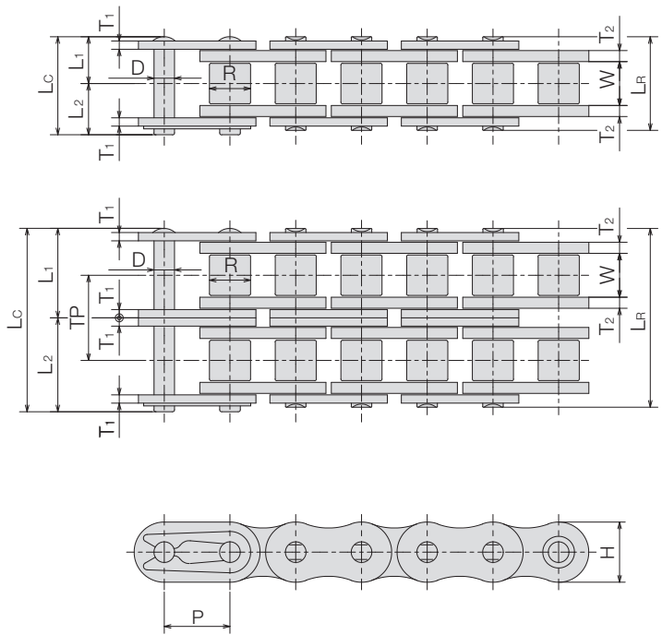
Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used.

13

Self Lube Roller Chain

BS | Single Pitch | Lube Free | SLR

"SLR" type roller chains carry its own high quality lubricant in an impregnated bushing. The sintered bushing keeps the lubrication in the critical bearing area of the pin and bushing where it is needed most. The plates are black-oxide coated for extra protection. "SLR" type roller chain is lubricated prior to delivery.



SY Chain No.	Dimension - mm												Average Tensile Strength	Average Chain Weight
	Pitch P	Roller		Pin					Plate			Trans. Pitch		
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					L_R	L_C	L_1	L_2	H	T_1	T_2	TP	kN	kg/m
SY 08B-1 SLR	12.70	7.75	8.51	4.45	16.7	18.0	8.4	9.6	11.8	1.5		-	16.80	0.6
SY 08B-2 SLR					30.6	31.9	15.3	16.6				13.92	33.60	1.3
SY 10B-1 SLR	15.875	9.65	10.16	5.08	19.4	20.7	9.7	11.0	14.5	1.65		-	24.60	0.9
SY 10B-2 SLR					36.0	37.3	18.0	19.3				16.59	49.20	1.8
SY 12B-1 SLR	19.05	11.68	12.07	5.72	22.0	23.6	11.0	12.6	17.4	1.8		-	32.40	1.1
SY 12B-2 SLR					41.6	43.2	20.8	22.4				19.46	64.80	2.9
SY 16B-1 SLR	25.40	17.02	15.87	8.26	35.2	38.2	17.6	20.6	21.0	3.2	4.0	-	74.60	2.6
SY 16B-2 SLR					67.2	70.1	33.6	36.5				31.88	149.20	5.1
SY 20B-1 SLR	31.75	19.56	19.05	10.16	41.0	44.0	20.5	23.5	29.3	3.5	4.7	-	128.30	3.8
SY 20B-2 SLR					76.8	80.6	38.4	42.2				36.45	256.60	7.3
SY 24B-1 SLR	38.10	25.40	25.40	14.63	53.4	58.1	26.7	31.4	35.1	5.0	5.9	-	195.60	7.3
SY 24B-2 SLR					101.8	106.5	50.9	55.6				48.36	391.20	14.5
SY 28B-1 SLR	44.45	31.00	27.94	15.88	65.1	70.5	32.6	37.9	37.0	6.3	7.4	-	215.70	9.3
SY 28B-2 SLR					124.7	130.0	62.4	67.6				59.56	431.40	18.5
SY 32B-1 SLR	50.80	31.00	29.21	15.88	64.2	69.6	32.1	37.5	42.2	6.3	6.9	-	274.60	9.9
SY 32B-2 SLR					123.8	128.2	61.9	66.3				58.55	549.20	19.8

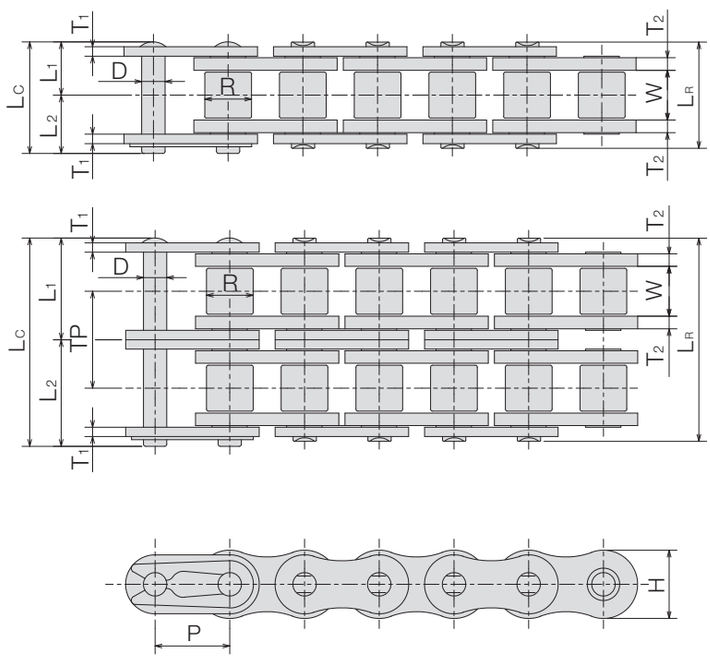
The thickness of the intermediate plate of the multiple strand 08B SLR chain is 1.25mm. Connecting links are "cotter" style for all sizes above 20B SLR. Consult SUGIYAMA for offset links. Service life decreases dramatically if the lubricant in the oil-impregnated bushings is depleted. The lubrication in the oil-impregnated bushings will seep out rapidly when the operating temperature exceeds 70℃. A wet or dusty environment may lead to premature wearing. It is not recommeded for applications which are exposed to chemicals or water, or associated with a shock load.

14

Self Lube Roller Chain for Drive

ANSI | Single Pitch | Lube Free | SLR-TS

"SLR-TS" type roller chains are designed for drive chains. It carries its own high quality lubricant in the impregnated bushing and has increased roller link plate thickness to provide the same strength as the standard carbon steel roller chain. The plates are black-oxide coated for extra protection. "SLR-TS" type roller chain is lubricated prior to delivery.



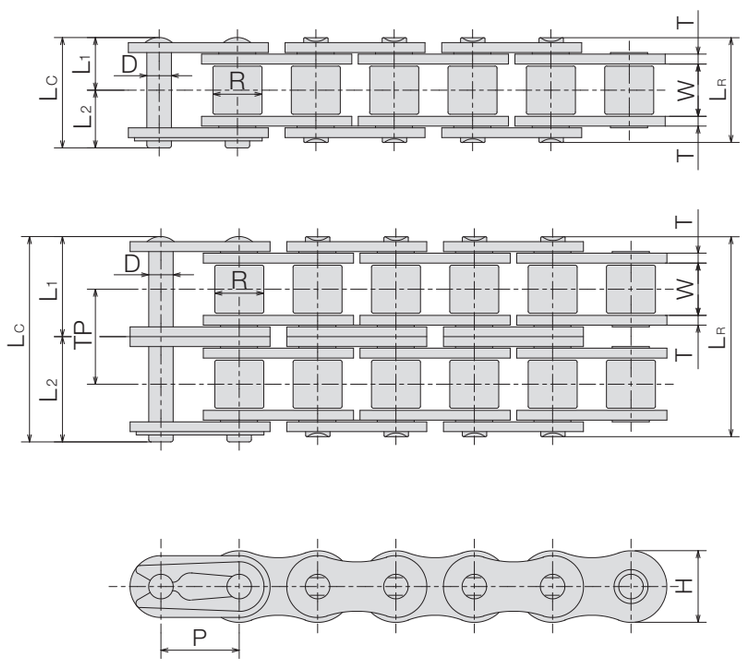
SY Chain No.	Dimension - mm												Average Tensile Strength	Average Chain Weight
	Pitch P	Roller		Pin					Plate			Trans. Pitch		
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					L_R	L_C	L_1	L_2	H	T_1	T_2	TP	κN	kg/m
SY 40-1 SLR-TS	12.70	7.95	7.92	3.96	17.5	19.6	8.8	10.8	11.7	1.5	2.0	-	19.10	0.7
SY 40-2 SLR-TS					33.1	35.2	16.6	18.6				15.6	38.20	1.3
SY 50-1 SLR-TS	15.875	9.53	10.16	5.08	21.3	23.3	10.7	12.6	14.6	2.0	2.4	-	31.90	1.1
SY 50-2 SLR-TS					40.5	42.5	20.3	22.2				19.2	63.80	2.0
SY 60-1 SLR-TS	19.05	12.70	11.91	5.95	27.4	29.8	13.7	16.1	17.5	2.4	3.2	-	43.10	1.7
SY 60-2 SLR-TS					52.3	54.8	26.2	28.6				24.9	86.20	3.3
SY 80-1 SLR-TS	25.40	15.88	15.88	7.93	34.1	37.4	17.1	20.3	23.4	3.2	4.0	-	78.50	2.7
SY 80-2 SLR-TS					65.2	68.5	35.6	35.9				31.1	157.00	5.1
SY 100-1 SLR-TS	31.75	19.05	19.05	9.53	41.0	44.8	20.5	24.3	29.3	4.0	4.8	-	118.00	4.3
SY 100-2 SLR-TS					78.6	82.4	39.3	43.1				37.6	236.00	8.2
SY 120-1 SLR-TS	38.10	25.40	22.23	11.10	51.1	55.2	25.6	29.6	35.1	4.8	5.6	-	167.00	6.0
SY 120-2 SLR-TS					99.1	103.2	49.6	53.6				48.0	334.00	11.7

SLR-TS type roller chains have a longer pin length than the SBR type roller chain. Make sure there will be no interference with equipment. SLR-TS type mutiple strand chains are not designed to be used with standard sprockets. Connecting links are "cotter" style for all sizes above 100 SLR-TS. Consult SUGIYAMA for offset links. Service life decreases dramatically if the lubricant in the oil-impregnated bushings is depleted. The lubrication in the oil-impregnated bushings will seep out rapidly when the operating temperature exceeds 70℃. A wet or dusty environment may lead to premature wearing. It is not recommeded for applications which are exposed to chemicals or water, or associated with a shock load.

Self Lube Roller Chain for Conveyor

ANSI | Single Pitch | Lube Free | SLR-CS

"SLR-CS" type roller chains are designed for conveyor chains. It carries its own high quality lubricant in the impregnated bushing. The sintered bushing keeps lubrication in the critical bearing area of the pin and bushing where it is most needed. The plates are black-oxide coated for extra protection. "SLR-CS" type roller chain is lubricated prior to delivery.



SY Chain No.	Dimension - mm											Average Tensile Strength	Average Chain Weight
	Pitch P	Roller		Pin					Plate		Trans. Pitch		
		Width W	Dia. R	Dia. D	Length				Height	Thickness			
					L_R	L_C	L_1	L_2	H	T	TP	kN	kg/m
SY 40-1 SLR-CS	12.70	7.95	7.92	3.96	16.5	18.6	8.3	10.3	11.7	1.5	-	15.70	0.6
SY 40-2 SLR-CS					31.1	33.2	15.6	17.6			14.4	31.40	1.1
SY 50-1 SLR-CS	15.875	9.53	10.16	5.08	20.5	22.5	10.3	12.2	14.6	2.0	-	25.50	1.0
SY 50-2 SLR-CS					39.1	40.9	19.6	21.3			18.1	51.00	1.9
SY 60-1 SLR-CS	19.05	12.70	11.91	5.95	25.9	28.3	13.7	14.6	17.5	2.4	-	37.30	1.5
SY 60-2 SLR-CS					49.3	51.8	24.7	27.1			22.8	74.60	2.8
SY 80-1 SLR-CS	25.40	15.88	15.88	7.93	33.0	35.9	16.5	19.4	23.4	3.2	-	63.70	2.5
SY 80-2 SLR-CS					62.2	65.5	31.1	34.4			29.3	127.00	4.9
SY 100-1 SLR-CS	31.75	19.05	19.05	9.53	39.8	43.1	19.9	23.2	29.3	4.0	-	100.00	3.9
SY 100-2 SLR-CS					75.4	79.1	37.7	41.4			35.8	200.00	7.6
SY 120-1 SLR-CS	38.10	25.40	22.23	11.10	49.8	53.2	24.9	28.3	35.1	4.8	-	157.00	5.8
SY 120-2 SLR-CS					95.4	99.6	47.7	51.9			45.4	314.00	11.1

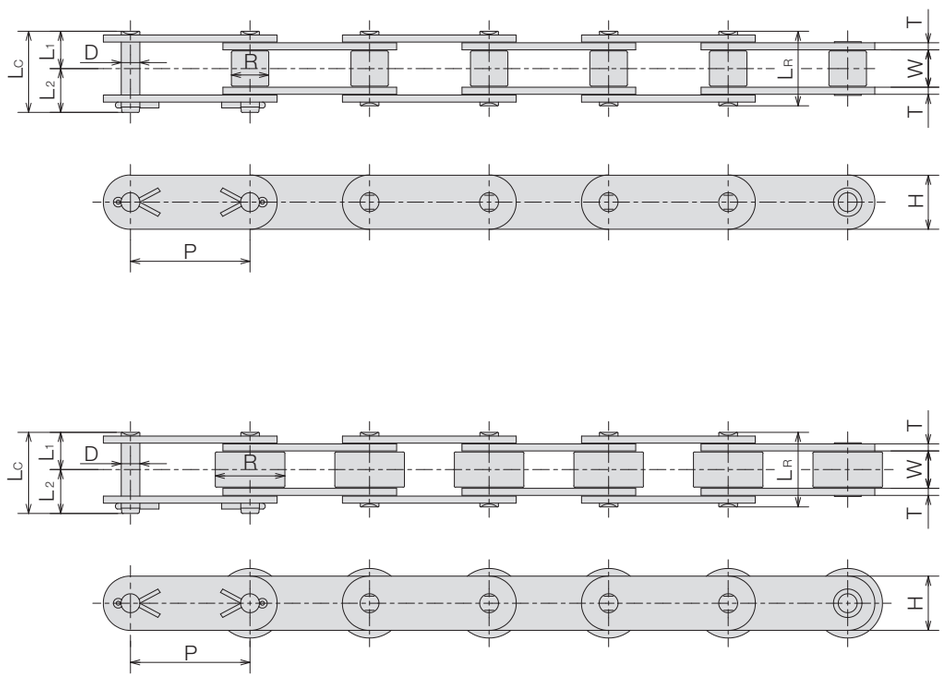
SLR-CS type mutiple strand chains are designed to be used with standard sprockets. Connecting links are "cotter" style for all sizes above 100 SLR-CS. Consult SUGIYAMA for offset links. Service life decreases dramatically if the lubricant in the oil-impregnated bushings is depleted. The lubrication in the oil-impregnated bushings will seep out rapidly when the operating temperature exceeds 70℃. A wet or dusty environment may lead to premature wearing. It is not recommeded for applications which are exposed to chemicals or water, or associated with a shock load.

16

Self Lube Roller Chain

ANSI | Double Pitch | Lube Free | SLR

"SLR" type roller chains carry its own high quality lubricant in impregnated bushing. The sintered bushing keeps lubrication in the critical bearing area of the pin and bushing where it is needed most. The plates are black-oxide coated for extra protection. "SLR" type roller chain is lubricated prior to delivery.



SY Chain No.	Dimension - mm											Average Tensile Strength	Average Chain Weight
	Pitch P	Roller			Pin					Plate			
		Width W	Roller Type	Dia. R	Dia. D	Length				Height	Thickness		
						L_R	L_C	L_1	L_2	H	T	kN	kg/m
SY C2040 SLR	25.40	7.95	S	7.92	3.96	16.6	18.5	8.3	10.2	11.4	1.5	15.70	0.50
SY C2042 SLR			R	15.88									0.82
SY C2050 SLR	31.75	9.53	S	10.16	5.08	20.5	22.5	10.2	12.3	15.0	2.0	25.50	0.8
SY C2052 SLR			R	19.05									1.26
SY C2060H SLR	38.10	12.70	S	11.91	5.95	29.1	31.5	14.6	16.9	17.0	3.2	37.30	1.4
SY C2062H SLR			R	22.23									2.08
SY C2080H SLR	50.80	15.88	S	15.88	7.93	35.8	39.0	17.9	21.1	22.6	4.0	63.70	2.40
SY C2082H SLR			R	28.58									3.36
SY C2100H SLR	63.50	19.05	S	19.05	9.53	42.7	46.6	21.4	25.2	28.6	4.8	100.00	3.5
SY C2102H SLR			R	39.67									5.64

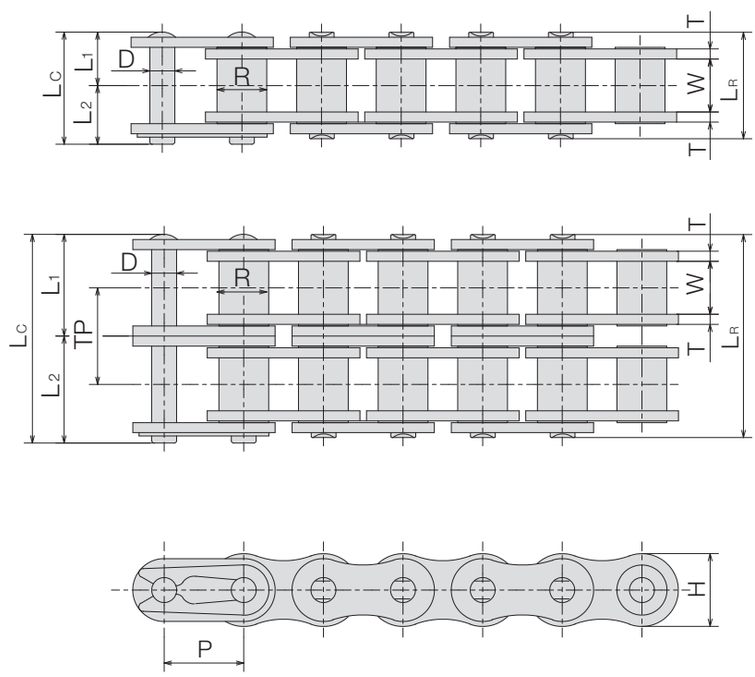
Roller Type "S" indicates a standard roller. Roller Type "R" indicates an oversized carrier roller. Roller Type "R" can be manufactured with plastic oversized carrier rollers. Consult SUGIYAMA for offset links. Service life decreases dramatically if the lubricant in the oil-impregnated bushings is depleted. The lubrication in the oil-impregnated bushings will seep out rapidly when the operating temperature exceeds 70℃. A wet or dusty environment may lead to premature wearing. It is not recommeded for applications which are exposed to chemicals or water, or associated with a shock load.

17

Self Lube Rollerless Chain

ANSI | Single Pitch | Lube Free | SL

"SL" type rollerless chains are made with a one-piece oversized sintered bushing. The sintered bushing has extra volume of oil and keeps lubrication in the critical bearing area of the pin and bushing where it is needed most. "SL" type rollerless chain is lubricated prior to delivery.



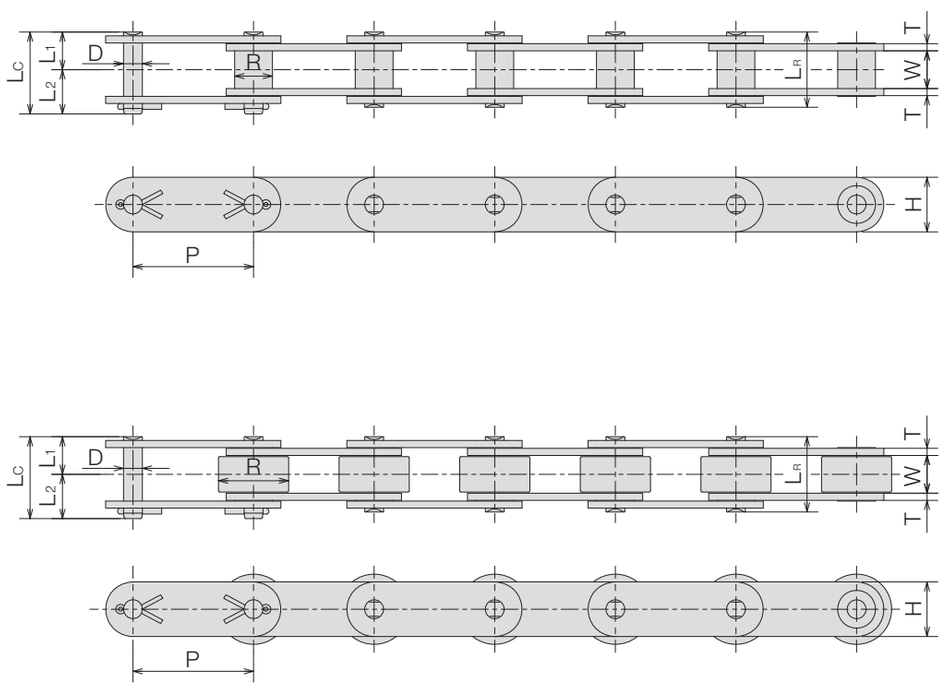
SY Chain No.	Dimension - mm											Average Tensile Strength	Average Chain Weight
	Pitch P	Bushing		Pin					Plate		Trans. Pitch		
		Width W	Dia. R	Dia. D	Length				Height	Thickness			
					LR	Lc	L1	L2	H	T	TP	kN	kg/m
SY 40-1 SL	12.70	7.7	7.92	3.96	16.5	17.9	8.3	9.6	12.0	1.5	-	12.70	0.63
SY 40-2 SL					30.8	32.2	15.4	16.8			14.4	25.40	1.3
SY 50-1 SL	15.875	9.4	10.16	5.08	20.4	22.0	10.2	11.8	15.1	2.0	-	19.60	1.03
SY 50-2 SL					38.4	40.0	19.2	20.8			18.1	39.20	2.1
SY 60-1 SL	19.05	12.5	11.91	5.95	25.5	26.9	12.8	14.1	18.2	2.4	-	28.40	1.46
SY 60-2 SL					48.2	49.7	24.0	25.7			22.8	56.80	3.0
SY 80-1 SL	25.40	15.8	15.88	7.93	32.8	35.5	16.4	19.1	24.1	3.2	-	51.00	2.60
SY 80-2 SL					61.6	64.5	30.8	33.7			29.3	102.00	5.20
SY 100-1 SL	31.75	19.0	19.05	9.53	39.4	43.0	19.7	23.3	30.2	4.0	-	82.40	3.79
SY 100-2 SL					75.1	78.8	37.6	41.2			35.8	164.80	7.9
SY 120-1 SL	38.10	25.40	22.23	11.10	49.5	53.4	24.8	28.6	36.2	4.8	-	118.00	5.58
SY 120-2 SL					94.9	98.8	47.5	51.3			45.4	236.00	11.5
SY 140-1 SL	44.45	25.40	25.40	12.70	54.0	58.3	27.0	31.3	42.2	5.6	-	162.00	7.59
SY 140-2 SL					102.9	107.2	51.5	55.7			48.9	324.00	14.7
SY 160-1 SL	50.80	31.8	28.58	14.28	64.3	68.7	32.2	36.5	48.3	6.4	-	211.00	9.82
SY 160-2 SL					122.8	127.2	61.4	65.8			58.5	422.00	19.5

SL type chains are a bushed chain which made without rollers. Connecting links are "cotter" style for all sizes above 100 SL. Consult SUGIYAMA for offset links. Service life decreases dramatically if the lubricant in the oil-impregnated bushings is depleted. The lubrication in the oil-impregnated bushings will seep out rapidly when the operating temperature exceeds 70℃. A wet or dusty environment may lead to premature wearing. It is not recommeded for applications which are exposed to chemicals or water, or associated with a shock load.

Self Lube Rollerless Chain

ANSI | Double Pitch | Lube Free | SL

"SL" type rollerless chains are made with a one-piece oversized sintered bushing. The sintered bushing has extra volume of oil and keeps lubrication in the critical bearing area of the pin and bushing where it is needed most. "SL" type rollerless chain is lubricated prior to delivery.



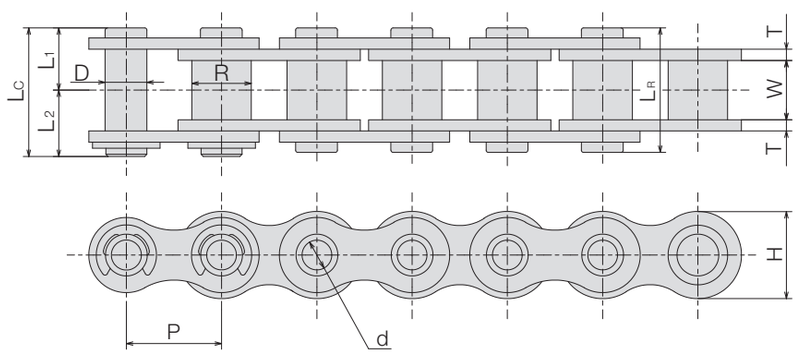
SY Chain No.	Dimension - mm											Average Tensile Strength	Average Chain Weight
	Pitch P	Bushed Roller			Pin					Plate			
		Width W	Roller Type	Dia. R	Dia. D	Length				Height	Thickness		
						L_R	L_C	L_1	L_2	H	T	kN	kg/m
SY C2040 SL	25.40	7.95	S	7.92	3.96	16.6	18.3	8.3	10.0	12.0	1.5	12.70	0.48
SY C2042 SL			R	15.88									0.82
SY C2050 SL	31.75	9.53	S	10.16	5.08	20.5	22.2	10.2	12.0	15.0	2.0	19.60	0.82
SY C2052 SL			R	19.05									1.26
SY C2060 SL	38.10	12.70	S	11.91	5.95	25.7	27.6	12.8	14.8	18.1	2.4	28.40	1.2
SY C2062 SL			R	22.23									1.78
SY C2080 SL	50.80	15.88	S	15.88	7.93	33.0	35.5	16.4	19.1	24.1	3.2	51.00	1.99
SY C2082 SL			R	28.58									3.03

Roller Type "S" indicates a bushed chain which made without rollers. Roller Type "R" indicates an oversized carrier roller. Roller Type "R" can be manufactured with plastic oversized carrier rollers. Consult SUGIYAMA for offset links. Service life decreases dramatically if the lubricant in the oil-impregnated bushings is depleted. The lubrication in the oil-impregnated bushings will seep out rapidly when the operating temperature exceeds 70℃. A wet or dusty environment may lead to premature wearing. It is not recommeded for applications which are exposed to chemicals or water, or associated with a shock load.

Self Lube Hollow Pin Chain

ANSI | Single Pitch | Lube Free | Miscellaneous | SL HP

"SL HP" type chains are constructed with a one-piece sintered bushing. The sintered bushing has a hollow center that is perfectly cylindrical all the way through allowing for easy insertion of a cross rod. It is ideal for applications that are difficult to lubricate or located in areas that are inaccessible. "SL HP" type chain is lubricated prior to delivery.



SY Chain No.	Dimension - mm											Average Tensile Strength	Average Chain Weight
	Pitch P	Roller		Pin		Length				Plate			
		Width W	Dia. R	Out Dia. D	Inside d	LR	Lc	L1	L2	Height H	Thickness T	kN	kg/m
SY 40-1 SL HP	12.70	7.95	7.92	5.63	4.03	16.7	17.6	8.4	9.2	12.0	1.5	12.70	0.6
SY 50-1 SL HP	15.875	9.53	10.16	7.09	5.13	20.1	21.5	10.1	11.4	15.0	2.0	19.60	1.0
SY 60-1 SL HP	19.05	12.70	11.91	8.29	6.04	26.0	27.2	13.0	14.2	18.1	2.4	28.40	1.5
SY 80-1 SL HP	25.40	15.88	15.88	11.34	8.08	32.4	34.3	16.2	18.1	24.1	3.2	51.00	2.5

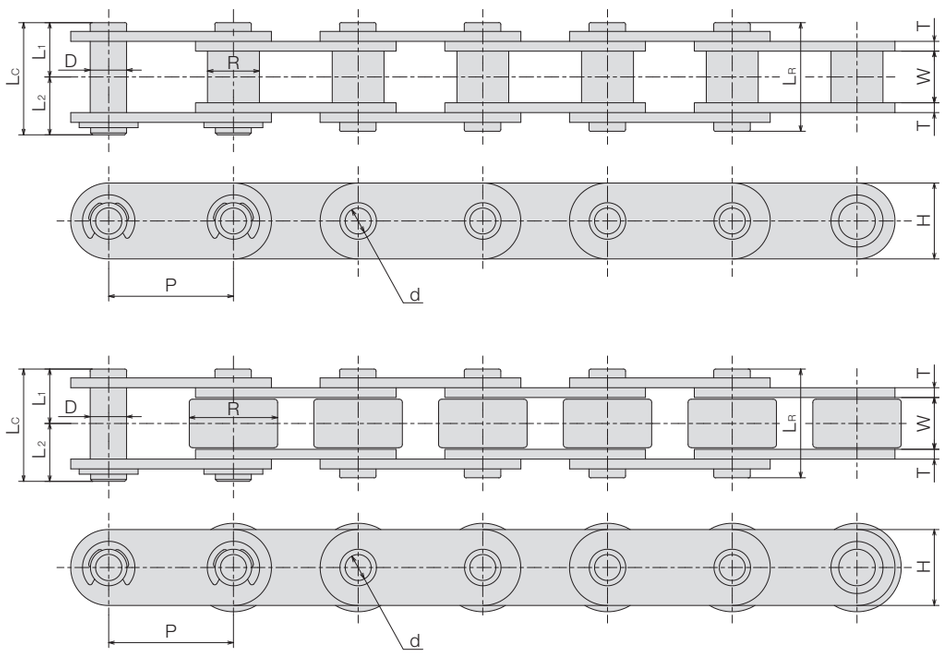
SL HP type chains are a bushed chain which made without rollers. Consult SUGIYAMA for offset links. Service life decreases dramatically if the lubricant in the oil-impregnated bushings is depleted. The lubrication in the oil-impregnated bushings will seep out rapidly when the operating temperature exceeds 70℃. A wet or dusty environment may lead to premature wearing. It is not recommeded for applications which are exposed to chemicals or water, or associated with a shock load.

20

Self Lube Hollow Pin Chain

ANSI | **Double Pitch** | **Lube Free** | **Miscellaneous** | **SL HP**

"SL HP" type chains are constructed with a one-piece sintered bushing. The sintered bushing has a hollow center that is perfectly cylindrical all the way through allowing for easy insertion of a cross rod. It is ideal for applications that are difficult to lubricate or located in areas that are inaccessible. "SL HP" type chain is lubricated prior to delivery.



SY Chain No.	Dimension - mm												Average Tensile Strength	Average Chain Weight
	Pitch P	Roller			Pin						Plate			
		Width W	Roller Type	Dia. R	Out Dia. D	In Dia. d	Length				Height	Thickness		
							L_R	L_C	L_1	L_2	H	T	kN	kg/m
SY C2040 SL HP	25.40	7.95	S	7.92	5.63	4.03	16.7	17.6	8.4	9.2	12.0	1.5	12.70	0.5
SY C2042 SL HP			R	15.88										0.8
SY C2050 SL HP	31.75	9.53	S	10.16	7.09	5.13	20.1	21.5	10.1	11.4	15.0	2.0	19.60	0.8
SY C2052 SL HP			R	19.05										1.3
SY C2060 SL HP	38.10	12.70	S	11.91	8.29	6.04	26.0	27.2	13.0	14.2	18.1	2.4	28.40	1.1
SY C2062 SL HP			R	22.23										1.8
SY C2080 SL HP	50.80	15.88	S	15.88	11.34	8.08	32.4	34.3	16.2	18.1	24.1	3.2	51.00	2.0
SY C2082 SL HP			R	28.58										3.2

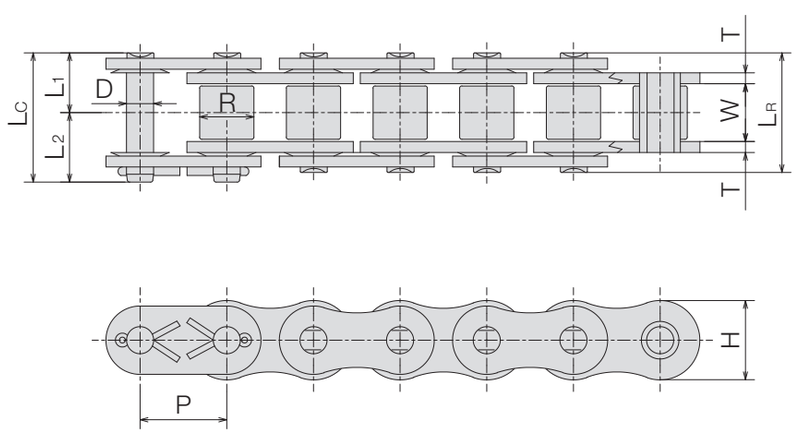
Roller Type "S" indicates a bushed chain which made without rollers. Roller Type "R" indicates an oversized carrier roller. Roller Type "R" can be manufactured with plastic oversized carrier rollers. Consult SUGIYAMA for offset links. Service life decreases dramatically if the lubricant in the oil-impregnated bushings is depleted. The lubrication in the oil-impregnated bushings will seep out rapidly when the operating temperature exceeds 70℃. A wet or dusty environment may lead to premature wearing. It is not recommeded for applications which are exposed to chemicals or water, or associated with a shock load.

21

Maintenance Free Roller Chain

ANSI | Single Pitch | Lube Free | MF

"MF" type roller chains are designed to hold high quality bearing lubricant between the pin and bushing with seals. Expanded applications are now possible from low to high speeds, light to heavy loads, and where lubrication is not possible. "MF" type roller chain can drive for many hours without re-lubrication.



SY Chain No.	Dimension - mm										Average Tensile Strength	Average Chain Weight
	Pitch P	Roller		Pin					Plate			
		Width W	Dia. R	Dia. D	Length				Height	Thickness		
					LR	LC	L1	L2	H	T	kN	kg/m
SY 80-1 MF	25.40	15.88	15.88	7.93	36.4	38.7	17.8	20.9	23.4	3.2	73.00	2.6
SY 100-1 MF	31.75	19.05	19.05	9.53	42.4	45.8	21.2	24.6	29.3	4.0	116.00	3.9
SY 120-1 MF	38.10	25.40	22.23	11.10	52.2	56.4	26.1	30.3	35.1	4.8	164.00	5.8
SY 140-1 MF	44.45	25.40	25.40	12.70	56.7	61.3	28.4	32.9	40.9	5.6	216.00	7.5
SY 160-1 MF	50.80	31.75	28.58	14.28	67.0	72.2	33.5	38.7	46.7	6.4	275.00	9.8
SY 200-1 MF	63.50	38.10	39.67	19.83	80.7	89.7	40.4	49.3	59.8	8.0	451.00	16.9
SY 240-1 MF	76.20	47.63	47.63	23.78	98.6	107.2	49.3	57.9	70.3	9.5	677.00	23.6

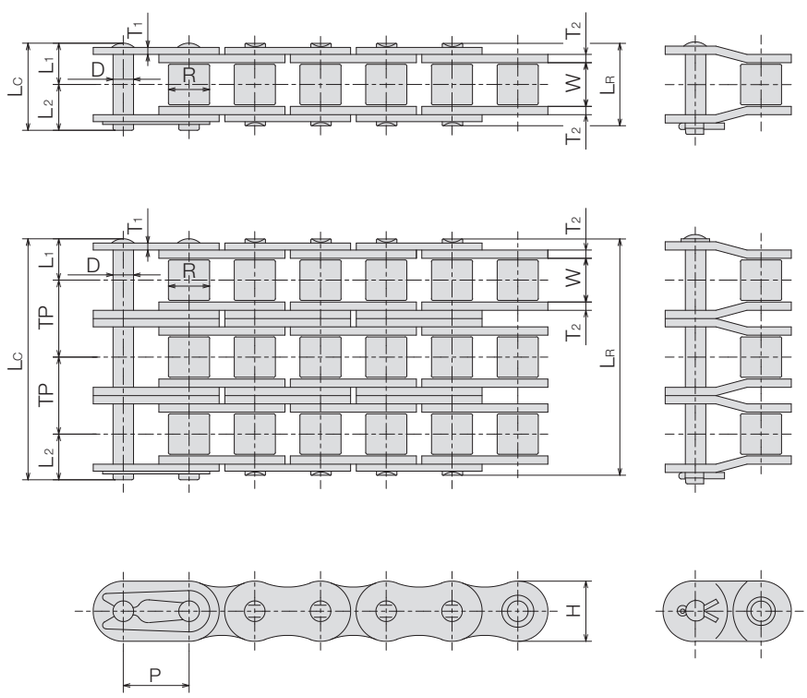
MF type chains are designed to be used with standard sprockets. MF type roller chains have a longer pin than the SBR type roller chain. Make sure there will be no interference with equipment. Connecting links for MF type are "semi press-fit" style. Check that each pin and bushing is well lubricated and has a seal in each joint before connecting link is assembled with the chain itself. Service life decreases dramatically if the lubricant between the pin and bushing is depleted. It is not recommeded for applications which are exposed to chemicals or water, or associated with a shock load. Due to friction between the plate and the seal, the stiff joint is tighter than the standard roller chain. Offset links are not available. MF type chians are only avaiable with a riveted type design.

22

Aqua-Proof Roller Chain

BS | Single Pitch | Anti Corrosion | AP

"AP" type roller chains comply with the RoHS Directive. Its corrosion resistance is far superior to nickel or zinc plated chains, yet it maintains the strength and durability of the SUGIYAMA carbon steel roller chain. "AP" type roller chains are the perfect choice when both corrosion resistance and high strength are needed.



SY Chain No.	Dimension - mm												Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate			Trans. Pitch			
		Width W	Dia. R	Dia. D	Length				Height	Thickness					
					L_R	L_C	L_1	L_2	H	T_1	T_2	TP	kN	kN	kg/m
SY 08B-1 AP					16.7	18.2							19.60	3.14	0.61
SY 08B-2 AP	12.70	7.75	8.51	4.45	30.6	31.9	8.4	9.8	11.8	1.5		13.92	34.60	5.35	1.26
SY 08B-3 AP					44.5	45.8							49.40	7.85	1.88
SY 10B-1 AP					19.4	20.7							24.60	4.90	0.89
SY 10B-2 AP	15.875	9.65	10.16	5.08	36.0	37.3	9.7	11.0	14.7	1.65		16.59	49.40	8.33	1.79
SY 10B-3 AP					52.6	54.4							74.10	12.20	2.66
SY 12B-1 AP					22.0	23.6							32.20	7.06	1.14
SY 12B-2 AP	19.05	11.68	12.07	5.72	41.6	43.2	11.0	12.6	16.1	1.8		19.46	64.40	12.00	2.28
SY 12B-3 AP					61.1	62.7							96.60	17.60	3.36
SY 16B-1 AP					35.2	38.2							66.60	16.40	2.59
SY 16B-2 AP	25.40	17.02	15.88	8.26	67.2	70.1	17.6	20.6	21.0	3.2	4.0	31.88	117.80	21.40	5.13
SY 16B-3 AP					99.5	102.5							177.80	31.50	7.68
SY 20B-1 AP					40.2	44.0							105.00	25.50	3.76
SY 20B-2 AP	31.75	19.56	19.05	10.16	76.8	80.6	20.1	23.9	26.4	3.5	4.5	36.45	188.90	33.30	7.26
SY 20B-3 AP					113.3	117.2							277.80	49.00	10.86
SY 24B-1 AP					53.4	58.1							177.80	35.70	7.29
SY 24B-2 AP	38.10	25.40	25.40	14.63	101.8	106.5	26.7	31.4	33.4	5.0	5.9	48.36	311.10	46.80	14.53
SY 24B-3 AP					150.2	154.9							472.20	68.80	21.76
SY 28B-1 AP					65.1	70.5							222.20	44.50	9.26
SY 28B-2 AP	44.45	31.00	27.94	15.88	124.7	130.0	32.6	37.9	37.0	6.3	7.4	59.56	400.00	58.30	18.45
SY 28B-3 AP					184.2	189.6							588.90	85.80	27.65
SY 32B-1 AP					65.0	71.1							275.00	51.00	9.92
SY 32B-2 AP	50.80	31.00	29.21	17.81	123.4	129.7	32.5	38.6	42.2	6.3	6.9	58.55	500.00	66.60	19.76
SY 32B-3 AP					182.0	188.3							744.40	98.00	29.61

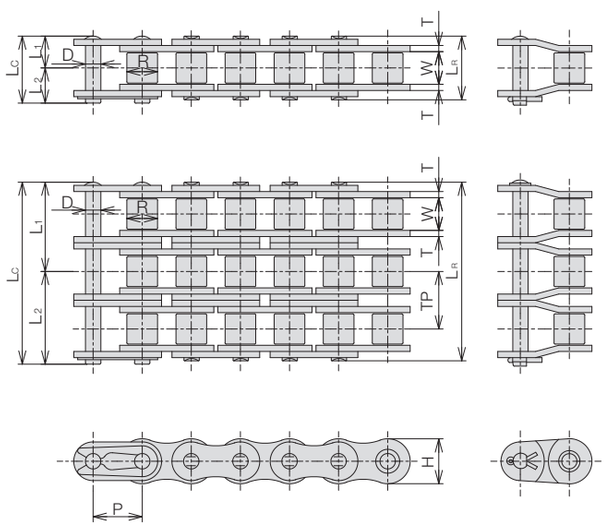
The thickness of the intermediate plate of the multiple strand 08B AP chain is 1.25mm. Connecting links are "cotter" style for size 16B-3 AP and all sizes above 20B AP. Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used. Do not use Aqua-Proof chains in applications where chain may come in direct contact with food or where coating flakes or wear dust can contaminate food.

23

Aqua-Proof Roller Chain

ANSI | Single Pitch | Anti Corrosion | AP

"AP" type roller chains comply with the RoHS Directive. Its corrosion resistance is far superior to nickel or zinc plated chains, yet it maintains the strength and durability of the SUGIYAMA carbon steel roller chain. "AP" type roller chains are the perfect choice when both corrosion resistance and high strength are needed.



SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate		Trans. Pitch			
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					L_R	L_C	L_1	L_2	H	T	TP	kN	kN	kg/m
SY 35-1 AP	9.525	4.78	5.08	3.58	12.0	12.9	6.0	6.9	9.0	1.25	10.1	10.80	2.48	0.34
SY 35-2 AP					22.1	23.0	11.1	11.9				21.60	3.67	0.63
SY 35-3 AP					32.2	33.1	16.1	17.0				32.40	5.40	0.92
SY 40-1 AP	12.70	7.95	7.92	3.96	16.6	17.7	8.3	9.4	11.7	1.5	14.4	19.10	4.17	0.60
SY 40-2 AP					30.8	32.2	15.4	16.8				38.20	6.17	1.22
SY 40-3 AP					45.4	46.6	22.7	23.9				57.30	9.08	1.85
SY 50-1 AP	15.875	9.53	10.16	5.08	20.5	22.0	10.2	11.8	14.6	2.0	18.1	31.90	7.22	0.98
SY 50-2 AP					38.4	40.0	19.2	20.8				63.80	10.70	2.00
SY 50-3 AP					56.7	58.2	28.4	29.8				95.70	15.70	3.07
SY 60-1 AP	19.05	12.70	11.91	5.95	25.7	26.9	12.8	14.1	17.5	2.4	22.8	43.10	10.70	1.46
SY 60-2 AP					48.2	49.7	24.0	25.7				86.20	14.70	2.95
SY 60-3 AP					71.2	72.6	35.2	37.4				129.00	21.60	4.43
SY 80-1 AP	25.40	15.88	15.88	7.93	33.0	35.5	16.4	19.1	23.4	3.2	29.3	78.50	19.10	2.52
SY 80-2 AP					61.6	64.5	30.8	33.7				157.00	25.00	5.10
SY 80-3 AP					90.9	94.1	45.5	48.6				236.00	36.80	7.68
SY 100-1 AP	31.75	19.05	19.05	9.53	39.6	43.0	19.7	23.3	29.3	4.0	35.8	118.00	29.40	3.91
SY 100-2 AP					75.1	78.8	37.6	41.2				236.00	38.40	7.74
SY 100-3 AP					110.9	114.6	55.5	59.1				354.00	56.50	11.58
SY 120-1 AP	38.10	25.40	22.23	11.10	49.7	53.4	24.8	28.6	35.1	4.8	45.4	167.00	39.50	5.76
SY 120-2 AP					94.9	98.8	47.5	51.3				334.00	51.70	11.49
SY 120-3 AP					140.3	144.2	70.2	74.0				501.00	76.00	17.20
SY 140-1 AP	44.45	25.40	25.40	12.70	54.0	58.3	27.0	31.3	40.9	5.6	48.9	216.00	52.30	7.41
SY 140-2 AP					102.9	107.2	51.5	55.7				432.00	68.30	14.63
SY 140-3 AP					151.7	156.3	75.9	80.4				648.00	101.00	21.91
SY 160-1 AP	50.80	31.75	28.58	14.28	64.3	68.7	32.2	36.5	46.7	6.4	58.5	275.00	69.00	9.79
SY 160-2 AP					122.8	127.2	61.4	65.8				550.00	90.10	19.45
SY 160-3 AP					181.3	185.7	90.7	95.0				825.00	133.00	29.17
SY 180-1 AP	57.15	35.70	35.70	17.45	72.5	78.4	36.3	42.1	52.5	7.2	65.8	353.00	79.00	13.39
SY 180-2 AP					138.2	144.0	69.1	74.9				706.00	98.40	26.62
SY 180-3 AP					204.5	210.2	102.3	107.9				1,059.00	145.00	39.85
SY 200-1 AP	63.50	38.10	39.67	19.83	78.5	87.0	39.3	47.7	59.8	8.0	71.6	451.00	93.00	16.93
SY 200-2 AP					150.2	158.7	75.1	83.6				902.00	122.00	33.73
SY 200-3 AP					221.7	230.2	110.9	119.3				1,353.00	179.00	50.53
SY 240-1 AP	76.20	47.63	47.63	23.78	95.5	104.0	47.8	56.2	70.3	9.5	87.8	677.00	129.00	23.64
SY 240-2 AP					183.4	191.8	91.7	100.1				1,354.00	167.00	47.13
SY 240-3 AP					271.3	279.6	135.7	143.9				2,031.00	245.00	70.61

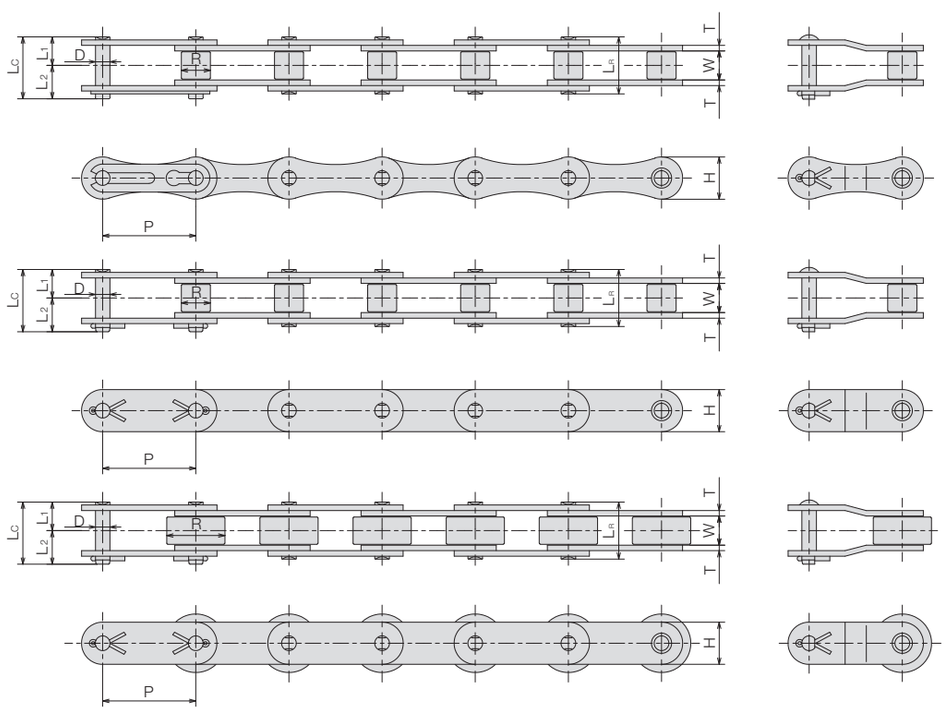
Connecting links are "clip" style for size 80-3 AP and all sizes 100 AP to 180 AP. Connecting links are "through S pin" style for all sizes above 200 AP. Do not use Aqua-Proof chains in applications where chain may come in direct contact with food or where coating flakes or wear dust can contaminate food. Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used.

24

Aqua-Proof Roller Chain

ANSI | Double Pitch | Anti Corrosion | AP

"AP" type roller chains comply with the RoHS Directive. Its corrosion resistance is far superior to nickel or zinc plated chains, yet maintains the strength and durability of the SUGIYAMA carbon steel roller chain. "AP" type roller chains are the perfect choice when both corrosion resistance and high strength are needed.



SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller			Pin					Plate				
		Width W	Roller Type	Dia. R	Dia. D	Length				Height	Thickness			
						L_R	L_C	L_1	L_2	H	T	kN	kN	kg/m
SY A2040 AP	25.40	7.95	S	7.92	3.96	16.6	18.3	8.3	10.0	11.4	1.5	16.90	3.60	0.43
SY A2050 AP	31.75	9.53	S	10.16	5.08	20.5	22.2	10.2	12.0	15.0	2.0	27.50	6.28	0.73
SY A2060 AP	38.10	12.70	S	11.91	5.95	25.7	27.6	12.8	14.8	17.0	2.4	40.20	8.63	1.03
SY A2080 AP	50.80	15.88	S	15.88	7.93	33.0	35.5	16.4	19.1	22.6	3.2	68.60	14.70	1.71
SY C2040 AP	25.40	7.95	S	7.92	3.96	16.6	18.3	8.3	10.0	11.4	1.5	16.90	3.63	0.48
SY C2042 AP			R	15.88										0.82
SY C2050 AP	31.75	9.53	S	10.16	5.08	20.5	22.2	10.2	12.0	15.0	2.0	27.50	6.28	0.82
SY C2052 AP			R	19.05										1.26
SY C2060H AP	38.10	12.70	S	11.91	5.95	28.8	31.0	14.4	16.6	17.0	3.2	40.20	8.63	1.38
SY C2062H AP			R	22.23										2.08
SY C2080H AP	50.80	15.88	S	15.88	7.93	36.4	38.8	17.8	21.0	22.6	4.0	68.60	14.70	2.32
SY C2082H AP			R	28.58										3.36
SY C2100H AP	63.50	19.05	S	19.05	9.53	42.4	46.0	21.2	24.8	28.6	4.8	107.90	22.60	3.46
SY C2102H AP			R	39.67										5.64
SY C2120H AP	76.20	25.40	S	22.23	11.10	52.8	57.2	26.4	30.8	34.9	5.6	151.00	30.40	4.92
SY C2122H AP			R	44.45										7.87
SY C2160H AP	101.60	31.75	S	28.58	14.28	67.9	73.1	34.0	39.1	47.6	7.2	257.90	53.00	8.02
SY C2162H AP			R	57.15										12.77

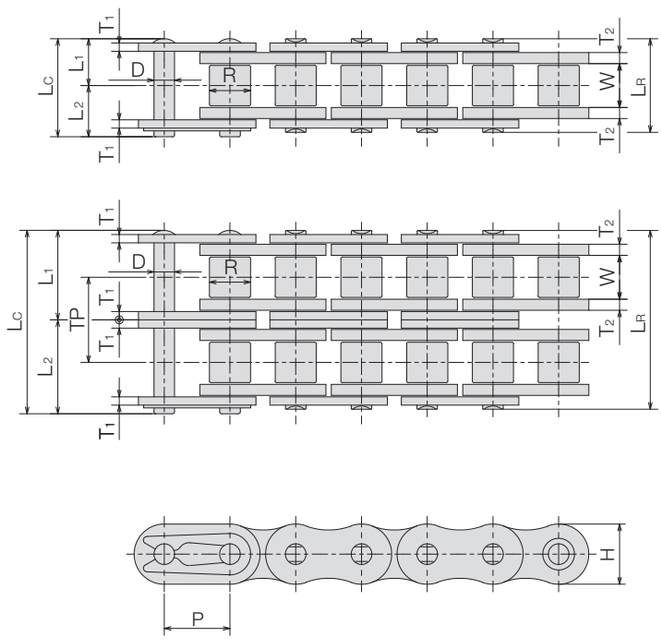
The figure-eight shaped link plates are for drive chains. Roller Type "S" indicates a standard roller. Roller Type "R" indicates an oversized carrier roller. Roller Type "R" can be manufactured with plastic oversized carrier rollers. Do not use Aqua-Proof chains in applications where chain may come in direct contact with food or where coating flakes or wear dust can contaminate food.

25

Aqua-Proof Self Lube Roller Chain

BS | Single Pitch | Anti Corrosion | Lube Free | AP SLR

"AP SLR" type roller chains are designed to ensure both corrosion resistance and self lubrication. All of the components except the oil-impregnated bushings are treated with the dual layer coat treatment process before the chain is assembled to insure maximum protection. "AP SLR" type roller chain is lubricated prior to delivery.



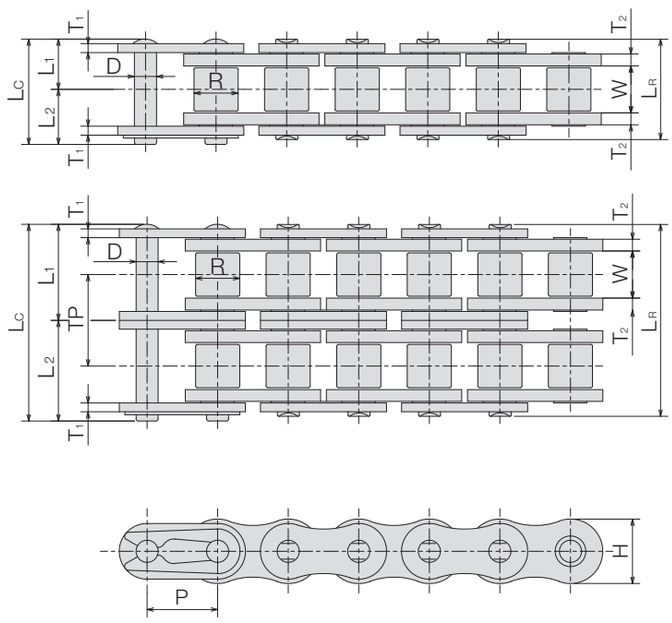
SY Chain No.	Dimension - mm												Average Tensile Strength	Average Chain Weight
	Pitch P	Roller		Pin					Plate			Trans. Pitch		
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					LR	LC	L1	L2	H	T1	T2	TP	kN	kg/m
SY 08B-1 AP SLR	12.70	7.75	8.51	4.45	16.7	18.0	8.4	9.6	11.8	1.5		-	16.80	0.6
SY 08B-2 AP SLR					30.6	31.9	15.3	16.6				13.92	33.60	1.3
SY 10B-1 AP SLR	15.875	9.65	10.16	5.08	19.4	20.7	9.7	11.0	14.5	1.65		-	24.60	0.9
SY 10B-2 AP SLR					36.0	37.3	18.0	19.3				16.59	49.20	1.8
SY 12B-1 AP SLR	19.05	11.68	12.07	5.72	22.0	23.6	11.0	12.6	17.4	1.8		-	32.40	1.1
SY 12B-2 AP SLR					41.6	43.2	20.8	22.4				19.46	64.80	2.9
SY 16B-1 AP SLR	25.40	17.02	15.87	8.26	35.2	38.2	17.6	20.6	21.0	3.2	4.0	-	74.60	2.6
SY 16B-2 AP SLR					67.2	70.1	33.6	36.5				31.88	149.20	5.1
SY 20B-1 AP SLR	31.75	19.56	19.05	10.16	41.0	44.0	20.5	23.5	29.3	3.5	4.7	-	128.30	3.8
SY 20B-2 AP SLR					76.8	80.6	38.4	42.2				36.45	256.60	7.3
SY 24B-1 AP SLR	38.10	25.40	25.40	14.63	53.4	58.1	26.7	31.4	35.1	5.0	5.9	-	195.60	7.3
SY 24B-2 AP SLR					101.8	106.5	50.9	55.6				48.36	391.20	14.5
SY 28B-1 AP SLR	44.45	31.00	27.94	15.88	65.1	70.5	32.6	37.9	37.0	6.3	7.4	-	215.70	9.3
SY 28B-2 AP SLR					124.7	130.0	62.4	67.6				59.56	431.40	18.5
SY 32B-1 AP SLR	50.80	31.00	29.21	15.88	64.2	69.6	32.1	37.5	42.2	6.3	6.9	-	274.60	9.9
SY 32B-2 AP SLR					123.8	128.2	61.9	66.3				58.55	549.20	19.8

The thickness of the intermediate plate of the multiple strand 08B AP SLR chain is 1.25mm. Connecting links are "cotter" style for all sizes above 20B AP SLR. Consult SUGIYAMA for offset links. Service life decreases dramatically if the lubricant in the oil-impregnated bushings is depleted. The lubrication in the oil-impregnated bushings will seep out rapidly when the operating temperature exceeds 70℃. A wet or dusty environment may lead to premature wearing. It is not recommeded for applications which are exposed to chemicals or water, or associated with a shock load. Do not use Aqua-Proof chains in applications where chain may come in direct contact with food or where coating flakes or wear dust can contaminate food.

Aqua-Proof Self Lube Roller Chain for Drive

ANSI | Single Pitch | Anti Corrosion | Lube Free | AP SLR-TS

"AP SLR-TS" type roller chains are designed for drive chains with the same strength of carbon steel roller chains and with corrosion resistance and self lubrication. All components, except the oil-impregnated bushings, are treated with a dual layer coat treatment process before the chain is assembled to insure maximum protection. "AP SLR-TS" type roller chain is lubricated prior to delivery.



SY Chain No.	Dimension - mm												Average Tensile Strength	Average Chain Weight
	Pitch P	Roller		Pin					Plate			Trans. Pitch		
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					L_R	L_C	L_1	L_2	H	T_1	T_2	TP	kN	kg/m
SY 40-1 AP SLR-TS	12.70	7.95	7.92	3.96	17.5	19.6	8.8	10.8	11.7	1.5	2.0	-	19.10	0.7
SY 40-2 AP SLR-TS					33.1	35.2	16.6	18.6				15.6	38.20	1.3
SY 50-1 AP SLR-TS	15.875	9.53	10.16	5.08	21.3	23.3	10.7	12.6	14.6	2.0	2.4	-	31.90	1.1
SY 50-2 AP SLR-TS					40.5	42.5	20.3	22.2				19.2	63.80	2.0
SY 60-1 AP SLR-TS	19.05	12.70	11.91	5.95	27.4	29.8	13.7	16.1	17.5	2.4	3.2	-	43.10	1.7
SY 60-2 AP SLR-TS					52.3	54.8	26.2	28.6				24.9	86.20	3.3
SY 80-1 AP SLR-TS	25.40	15.88	15.88	7.93	34.1	37.4	17.1	20.3	23.4	3.2	4.0	-	78.50	2.7
SY 80-2 AP SLR-TS					65.2	68.5	35.6	35.9				31.1	157.00	5.1
SY 100-1 AP SLR-TS	31.75	19.05	19.05	9.53	41.0	44.8	20.5	24.3	29.3	4.0	4.8	-	118.00	4.3
SY 100-2 AP SLR-TS					78.6	82.4	39.3	43.1				37.6	236.00	8.2
SY 120-1 AP SLR-TS	38.10	25.40	22.23	11.10	51.1	55.2	25.6	29.6	35.1	4.8	5.6	-	167.00	6.0
SY 120-2 AP SLR-TS					99.1	103.2	49.6	53.6				48.0	334.00	11.7

AP SLR-TS type roller chains have a longer pin length than the SBR type roller chain. Make sure there will be no interference with equipment. AP SLR-TS type mutiple strand chains are not designed to be used with standard sprockets. Connecting links are "cotter" style for all sizes above 100 AP SLR-TS. Consult SUGIYAMA for offset links. Service life decreases dramatically if the lubricant in the oil-impregnated bushings is depleted. The lubrication in the oil-impregnated bushings will seep out rapidly when the operating temperature exceeds 70℃. A wet or dusty environment may lead to premature wearing. It is not recommeded for applications which are exposed to chemicals or water, or associated with a shock load. Do not use Aqua-Proof chains in applications where chain may come in direct contact with food or where coating flakes or wear dust can contaminate food.

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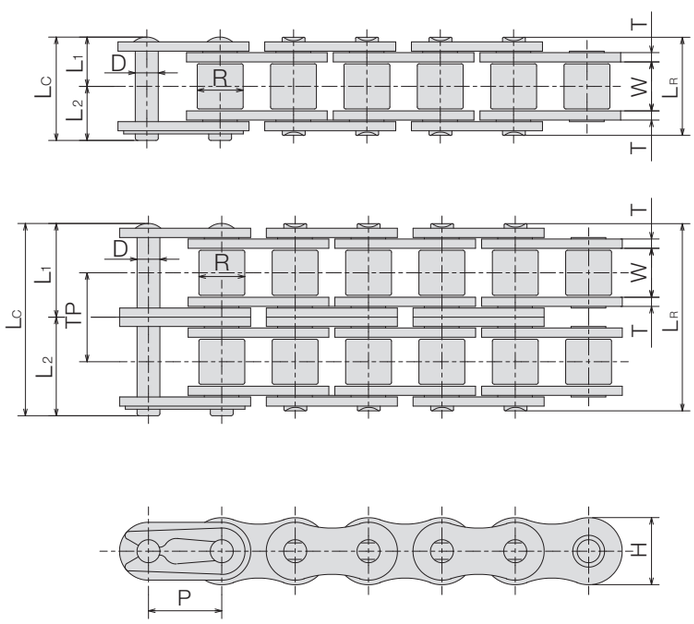
Aqua-Proof Self Lube Roller Chain for Conveyor

ANSI | Single Pitch | Anti Corrosion | Lube Free | AP SLR-CS

"AP SLR-CS" type roller chains are designed for both corrosion resistance and self lubrication. All components, except the oil-impregnated bushings, are treated with a dual layer coat treatment process before the chain is assembled to insure maximum protection. "AP SLR-CS" type roller chain is lubricated prior to delivery.



SY Chain No.	Dimension - mm										Average Tensile Strength	Average Chain Weight
	Pitch P	Roller		Pin					Plate		Trans. Pitch		
		Width W	Dia. R	Dia. D	Length				Height	Thickness			
					L_R	L_C	L_1	L_2	H	T	TP	kN	kg/m
SY 40-1 AP SLR-CS	12.70	7.95	7.92	3.96	16.5	18.6	8.3	10.3	11.7	1.5	-	15.70	0.6
SY 40-2 AP SLR-CS					31.1	33.2	15.6	17.6			14.4	31.40	1.1
SY 50-1 AP SLR-CS	15.875	9.53	10.16	5.08	20.5	22.5	10.3	12.2	14.6	2.0	-	25.50	1.0
SY 50-2 AP SLR-CS					39.1	40.9	19.6	21.3			18.1	51.00	1.9
SY 60-1 AP SLR-CS	19.05	12.70	11.91	5.95	25.9	28.3	13.7	14.6	17.5	2.4	-	37.30	1.5
SY 60-2 AP SLR-CS					49.3	51.8	24.7	27.1			22.8	74.60	2.8
SY 80-1 AP SLR-CS	25.40	15.88	15.88	7.93	33.0	35.9	16.5	19.4	23.4	3.2	-	63.70	2.5
SY 80-2 AP SLR-CS					62.2	65.5	31.1	34.4			29.3	127.00	4.9
SY 100-1 AP SLR-CS	31.75	19.05	19.05	9.53	39.8	43.1	19.9	23.2	29.3	4.0	-	100.00	3.9
SY 100-2 AP SLR-CS					75.4	79.1	37.7	41.4			35.8	200.00	7.6
SY 120-1 AP SLR-CS	38.10	25.40	22.23	11.10	49.8	53.2	24.9	28.3	35.1	4.8	-	157.00	5.8
SY 120-2 AP SLR-CS					95.4	99.6	47.7	51.9			45.4	314.00	11.1

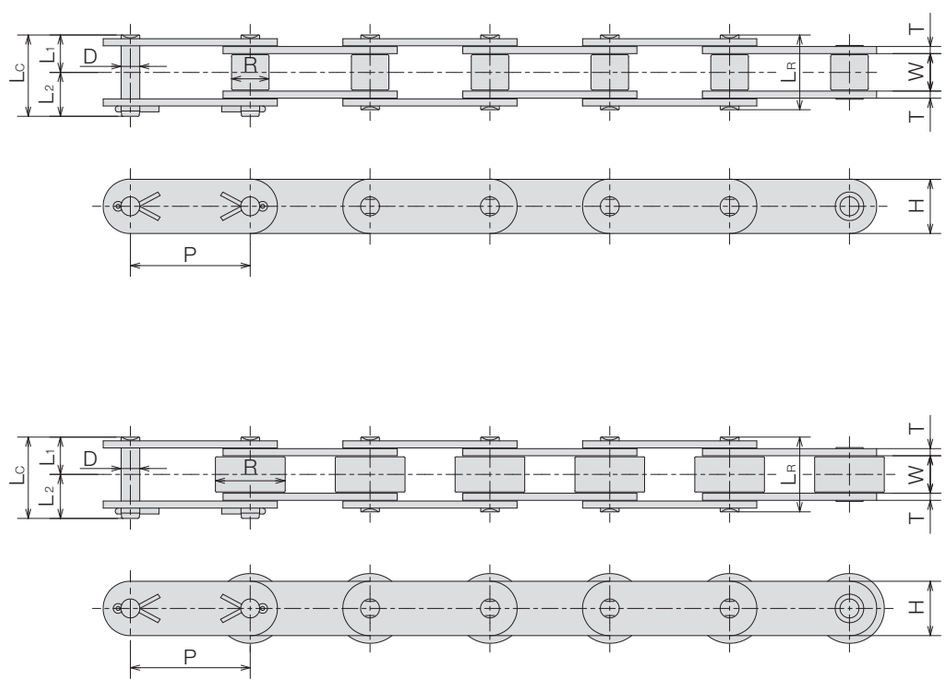
AP SLR-CS type mutiple strand chains are designed to be used with standard sprockets. Connecting links are "cotter" style for all sizes above 100 AP SLR-CS. Consult SUGIYAMA for offset links. Service life decreases dramatically if the lubricant in the oil-impregnated bushings is depleted. The lubrication in the oil-impregnated bushings will seep out rapidly when the operating temperature exceeds 70℃. A wet or dusty environment may lead to premature wearing. It is not recommeded for applications which are exposed to chemicals or water, or associated with a shock load. Do not use Aqua-Proof chains in applications where chain may come in direct contact with food or where coating flakes or wear dust can contaminate food.

28

Aqua-Proof Self Lube Roller Chain

ANSI | Double Pitch | Anti Corrosion | Lube Free | AP SLR

"AP SLR" type roller chains are designed to provide corrosion resistance and self lubrication. All components, except the oil-impregnated bushings, are treated with a dual layer coat treatment process before the chain is assembled to insure maximum protection. "AP SLR" type roller chain is lubricated prior to delivery.



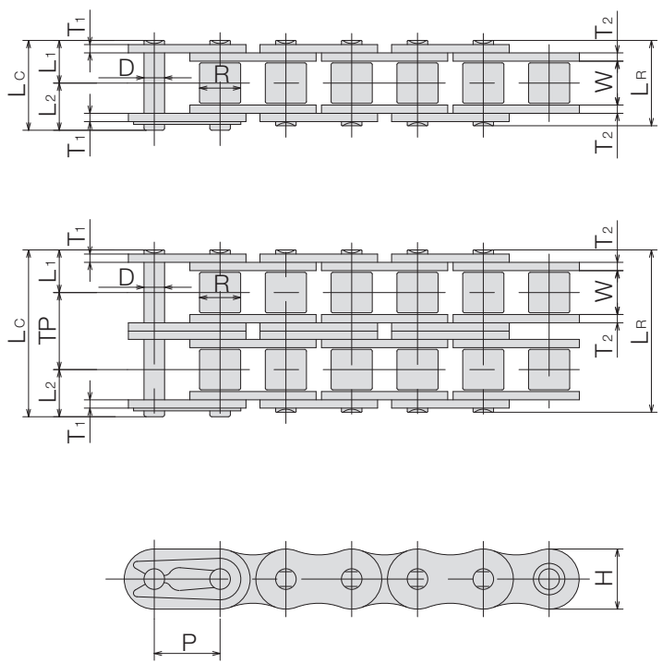
SY Chain No.	Dimension - mm											Average Tensile Strength	Average Chain Weight
	Pitch P	Roller			Pin					Plate			
		Width W	Roller Type	Dia. R	Dia. D	Length				Height	Thickness		
						L_R	L_C	L_1	L_2	H	T	kN	kg/m
SY C2040 AP SLR	25.40	7.95	S	7.92	3.96	16.6	18.5	8.3	10.2	11.4	1.5	15.70	0.50
SY C2042 AP SLR			R	15.88									0.82
SY C2050 AP SLR	31.75	9.53	S	10.16	5.08	20.5	22.5	10.2	12.3	15.0	2.0	25.50	0.8
SY C2052 AP SLR			R	19.05									1.26
SY C2060H AP SLR	38.10	12.70	S	11.91	5.95	29.1	31.5	14.6	16.9	17.0	3.2	37.30	1.4
SY C2062H AP SLR			R	22.23									2.08
SY C2080H AP SLR	50.80	15.88	S	15.88	7.93	35.8	39.0	17.9	21.1	22.6	4.0	63.70	2.40
SY C2082H AP SLR			R	28.58									3.36
SY C2100H AP SLR	63.50	19.05	S	19.05	9.53	42.7	46.6	21.4	25.2	28.6	4.8	100.00	3.5
SY C2102H AP SLR			R	39.67									5.64

Roller Type "S" indicates a standard roller. Roller Type "R" indicates an oversized carrier roller. Roller Type "R" can be manufactured with plastic oversized carrier rollers. Consult SUGIYAMA for offset links. Service life decreases dramatically if the lubricant in the oil-impregnated bushings is depleted. The lubrication in the oil-impregnated bushings will seep out rapidly when the operating temperature exceeds 70℃. A wet or dusty environment may lead to premature wearing. It is not recommeded for applications which are exposed to chemicals or water, or associated with a shock load. Do not use Aqua-Proof chains in applications where chain may come in direct contact with food or where coating flakes or wear dust can contaminate food.

Nickel Plated Roller Chain

BS | Single Pitch | Anti Corrosion | NP

"NP" type roller chains are ideal for outdoor operations and in situations where machinery and equipment must be run in a lightly corrosive atmosphere or where good chain appearance may be desired. All components are plated before assembly to ensure complete protection of all parts. "NP" type roller chain is not lubricated prior to delivery unless otherwise specified. Please consult SUGIYAMA if lubrication is necessary before delivery.



SY Chain No.	Dimension - mm												Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate			Trans. Pitch			
		Width W	Dia. R	Dia. D	Length				Height	Thickness					
					L_R	L_C	L_1	L_2	H	T_1	T_2	TP	kN	kN	kg/m
SY 08B-1 NP	12.70	7.75	8.51	4.45	16.7	18.2	8.4	9.8	11.8	1.5		13.92	19.60	3.14	0.61
SY 08B-2 NP					30.6	31.9	15.3	16.6					34.60	5.35	1.26
SY 10B-1 NP	15.875	9.65	10.16	5.08	19.4	20.7	9.7	11.0	14.7	1.65		16.59	24.60	4.90	0.89
SY 10B-2 NP					36.0	37.3	18.0	19.3					49.40	8.33	1.79
SY 12B-1 NP	19.05	11.68	12.07	5.72	22.0	23.6	11.0	12.6	16.1	1.8		19.46	32.20	7.06	1.14
SY 12B-1 NP					41.6	43.2	20.8	22.4					64.40	12.00	2.28
SY 16B-1 NP	25.40	17.02	15.88	8.26	35.2	38.2	17.6	20.6	20.6	3.2	4.0	31.88	66.60	12.60	2.59
SY 16B-2 NP					67.2	70.1	33.6	36.5					117.80	21.40	5.13
SY 20B-1 NP	31.75	19.56	19.05	10.16	40.2	44.0	20.1	23.9	26.4	3.5	4.5	36.45	105.00	19.60	3.76
SY 20B-2 NP					76.8	80.6	38.4	42.2					188.90	33.30	7.26

The thickness of the intermediate plate of the multiple strand 08B NP chain is 1.25mm.Connecting links are "cotter" style for size 20B NP. Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used. Do not use nickel plated chains in environments where coating flakes and wear dust can present problems.

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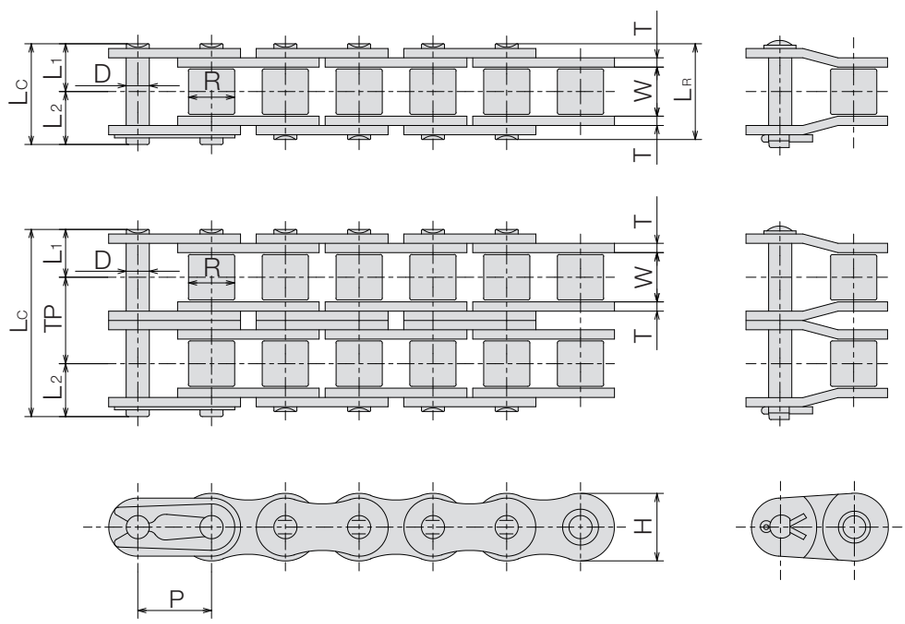
Nickel Plated Roller Chain

ANSI | Single Pitch | Anti Corrosion | NP

"NP" type roller chains are ideal for outdoor operations and in situations where machinery and equipment must be run in a lightly corrosive atmosphere or where good chain appearance may be desired. All components are plated before assembly to ensure complete protection of all parts. "NP" type roller chain is not lubricated prior to delivery unless otherwise specified. Please consult SUGIYAMA if lubrication is necessary before delivery.



SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate		Trans. Pitch			
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					L_R	L_C	L_1	L_2	H	T	TP	kN	kN	kg/m
SY 35-1 NP	9.525	4.78	5.08	3.58	12.0	12.9	6.0	6.9	9.0	1.25	-	10.80	1.86	0.34
SY 35-2 NP					22.1	23.0	11.1	11.9			10.1	21.60	3.16	1.63
SY 40-1 NP	12.70	7.95	7.92	3.96	16.6	17.7	8.3	9.4	11.7	1.5	-	19.10	3.04	0.60
SY 40-2 NP					30.8	32.2	15.4	16.8			14.4	38.20	5.17	1.22
SY 50-1 NP	15.875	9.53	10.16	5.08	20.5	22.0	10.2	11.8	14.6	2.0	-	31.90	5.39	0.98
SY 50-2 NP					38.4	40.0	19.2	20.8			18.1	63.80	9.06	2.00
SY 60-1 NP	19.05	12.70	11.91	5.95	25.7	26.9	12.8	14.1	17.5	2.4	-	43.10	7.26	1.46
SY 60-2 NP					48.2	49.7	24.0	25.7			22.8	86.20	12.30	2.95
SY 80-1 NP	25.40	15.88	15.88	7.93	33.0	35.5	16.4	19.1	23.4	3.2	-	78.50	12.70	2.52
SY 80-2 NP					61.6	64.5	30.8	33.7			29.3	157.00	21.60	5.10
SY 100-1 NP	31.75	19.05	19.05	9.53	39.6	43.0	19.7	23.3	29.3	4.0	-	118.00	19.10	3.91
SY 100-2 NP					75.1	78.8	37.6	41.2			35.8	236.00	32.50	7.74

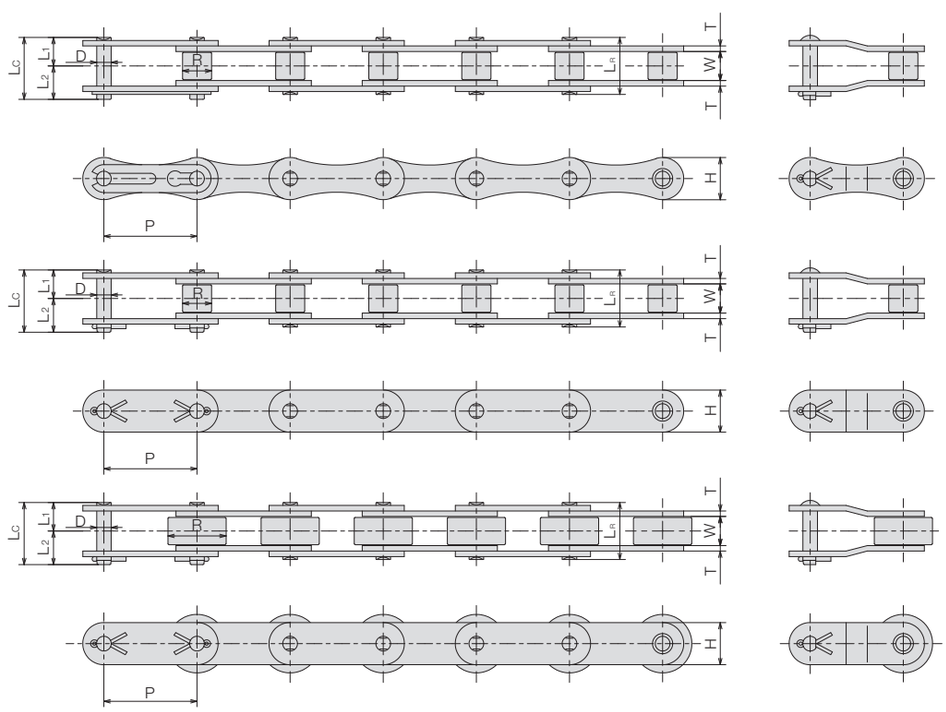
Connecting links are "cotter" style for all sizes above 100 NP. Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used. Do not use nickel plated chains in environments where coating flakes and wear dust can present problems.

31

Nickel Plated Roller Chain

ANSI | Double Pitch | Anti Corrosion | NP

"NP" type roller chains are ideal for outdoor operations and in situations where machinery and equipment must be run in a lightly corrosive atmosphere or where good chain appearance may be desired. All components are plated before assembly to ensure complete protection of all parts. "NP" type roller chain is not lubricated prior to delivery unless otherwise specified. Please consult SUGIYAMA if lubrication is necessary before delivery.



SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller			Pin					Plate				
		Width W	Roller Type	Dia. R	Dia. D	Length				Height	Thickness			
						L_R	L_C	L_1	L_2	H	T	kN	kN	kg/m
SY A2040 NP	25.40	7.95	S	7.92	3.96	16.6	18.3	8.3	10.0	11.4	1.5	16.90	2.65	0.43
SY A2050 NP	31.75	9.53	S	10.16	5.08	20.5	22.2	10.2	12.0	15.0	2.0	27.50	4.31	0.73
SY A2060 NP	38.10	12.70	S	11.91	5.95	25.7	27.6	12.8	14.8	17.0	2.4	40.20	6.23	1.03
SY A2080 NP	50.80	15.88	S	15.88	7.93	33.0	35.5	16.4	19.1	22.6	3.2	68.60	10.70	1.71
SY C2040 NP	25.40	7.95	S	7.92	3.96	16.6	18.3	8.3	10.0	11.4	1.5	16.90	2.65	0.48
SY C2042 NP			R	15.88										0.82
SY C2050 NP	31.75	9.53	S	10.16	5.08	20.5	22.2	10.2	12.0	15.0	2.0	27.50	4.31	0.82
SY C2052 NP			R	19.05										1.26
SY C2060H NP	38.10	12.70	S	11.91	5.95	28.8	31.0	14.4	16.6	17.0	3.2	40.20	8.29	1.38
SY C2062H NP			R	22.23										2.08
SY C2080H NP	50.80	15.88	S	15.88	7.93	36.4	38.8	17.8	21.0	22.6	4.0	68.60	15.20	2.32
SY C2082H NP			R	28.58										3.36
SY C2100H NP	63.50	19.05	S	19.05	9.53	42.4	46.0	21.2	24.8	28.6	4.8	107.90	23.00	3.46
SY C2102H NP			R	39.67										5.64

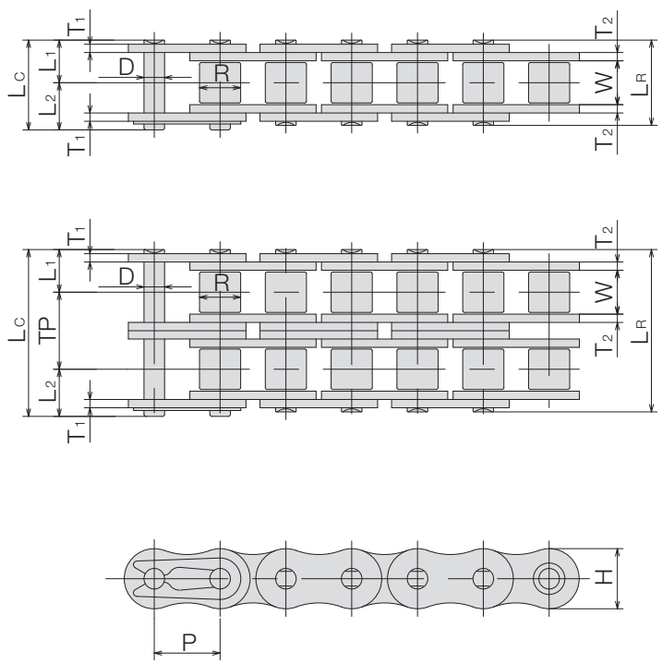
The figure-eight shaped link plates are for drive chains. Roller Type "S" indicates a standard roller. Roller Type "R" indicates an oversized carrier roller. Roller Type "R" can be manufactured with plastic oversized carrier rollers. Do not use nickel plated chains in environments where coating flakes and wear dust can present problems.

32

Stainless Steel Roller Chain

BS | Single Pitch | Anti Corrosion | SS

"SS" type roller chains are used in highly corrosive and extreme temperature environments. All component parts of SUGIYAMA stainless steel roller chains are made of 304 stainless steel to achieve the utmost corrosion and temperature resistance. 316 and 600 stainless steel roller chains are also available upon request.



SY Chain No.	Dimension - mm												Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate			Trans. Pitch		
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					L_R	L_C	L_1	L_2	H	T_1	T_2	TP	kN	kg/m
SY 08B-1 SS	12.70	7.75	8.51	4.45	16.7	18.2	8.4	9.8	11.8	1.5		13.92	0.52	0.61
SY 08B-2 SS					30.6	31.9	15.3	16.6					1.04	1.26
SY 10B-1 SS	15.875	9.65	10.16	5.08	19.4	20.7	9.7	11.0	14.7	1.65		16.59	0.68	0.89
SY 10B-2 SS					36.0	37.3	18.0	19.3					1.36	1.79
SY 12B-1 SS	19.05	11.68	12.07	5.72	22.0	23.6	11.0	12.6	16.1	1.8		19.46	0.88	1.14
SY 12B-2 SS					41.6	43.2	20.8	22.4					1.76	2.28
SY 16B-1 SS	25.40	17.02	15.88	8.26	35.2	38.2	17.6	20.6	20.3	3.2	4.0	31.88	2.06	2.59
SY 16B-2 SS					67.2	70.1	33.6	36.5					4.12	5.13

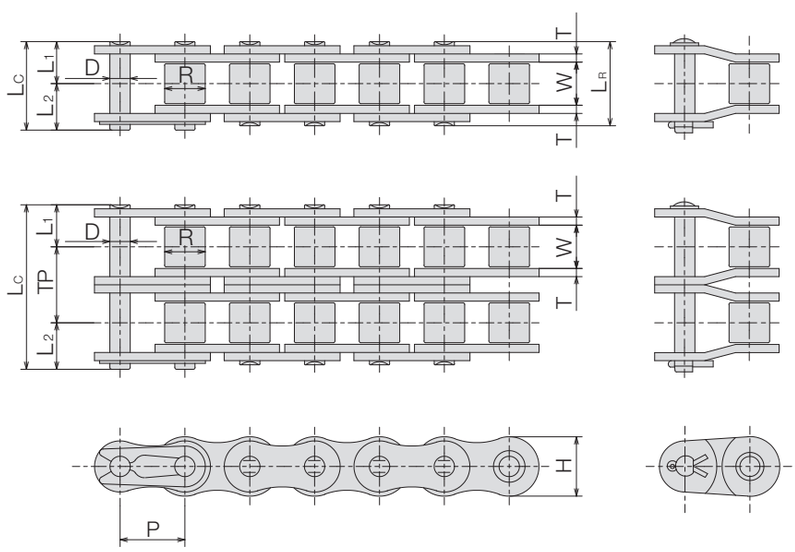
The thickness of the intermediate plate of the multiple strand 08B SS chain is 1.25mm. Stainless steel chains are not lubricated prior to delivery. It is recommended to lubricate stainless steel chains before use except when the chain is exposed to water. Stainless steel chains may suffer articulation problems in early stages if they are used without lubrication. Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used.

33

Stainless Steel Roller Chain

ANSI | Single Pitch | Anti Corrosion | SS

"SS" type roller chains are used in highly corrosive or extreme temperature environments. All component parts of SUGIYAMA stainless steel roller chains are made of 304 stainless steel to achieve the utmost corrosion and temperature resistance. 316 and 600 stainless steel roller chains are also available upon request.



SY Chain No.	Dimension - mm											Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate		Trans. Pitch		
		Width W	Dia. R	Dia. D	Length				Height	Thickness			
					L_R	L_C	L_1	L_2	H	T	TP	kN	kg/m
SY 35-1 SS	9.525	4.78	※5.08	3.58	12.0	12.9	6.0	6.9	9.0	1.25	-	0.26	0.34
SY 35-2 SS					22.1	23.0	11.1	11.9			10.1	0.52	0.63
SY 40-1 SS	12.70	7.95	7.92	3.96	16.9	17.7	8.3	9.4	11.7	1.5	-	0.44	0.60
SY 40-2 SS					30.8	32.2	15.4	16.8			14.4	0.88	1.22
SY 50-1 SS	15.875	9.53	10.16	5.08	20.5	22.0	10.2	11.8	14.6	2.0	-	0.68	0.98
SY 50-2 SS					38.4	40.0	19.2	20.8			18.1	1.36	2.00
SY 60-1 SS	19.05	12.70	11.91	5.95	25.7	26.9	12.8	14.1	17.5	2.4	-	1.03	1.46
SY 60-2 SS					48.2	49.7	24.0	25.7			22.8	2.06	2.95
SY 80-1 SS	25.40	15.88	15.88	7.93	33.0	35.5	16.4	19.1	23.4	3.2	-	1.77	2.52
SY 80-2 SS					61.6	64.5	30.8	33.7			29.3	3.54	5.10
SY 100-1 SS	31.75	19.05	19.05	9.53	39.6	43.0	19.7	23.3	29.3	4.0	-	2.55	3.91
SY 100-2 SS					75.1	78.8	37.6	41.2			35.8	5.10	7.74
SY 120-1 SS	38.10	25.40	22.23	11.10	49.7	53.4	24.8	28.6	35.1	4.8	-	3.92	5.76
SY 120-2 SS					94.9	98.8	47.5	51.3			45.4	7.84	11.49
SY 140-1 SS	44.45	25.40	25.40	12.70	54.0	58.3	27.0	31.3	40.9	5.6	-	4.66	7.41
SY 140-2 SS					102.9	107.2	51.5	55.7			48.9	9.32	14.63
SY 160-1 SS	50.80	31.75	28.58	14.28	64.3	68.7	32.2	36.5	46.7	6.4	-	6.37	9.79
SY 160-2 SS					122.8	127.2	61.4	65.8			58.5	12.74	19.45

※Chain is rollerless. Dimension shown is bushing diameter.

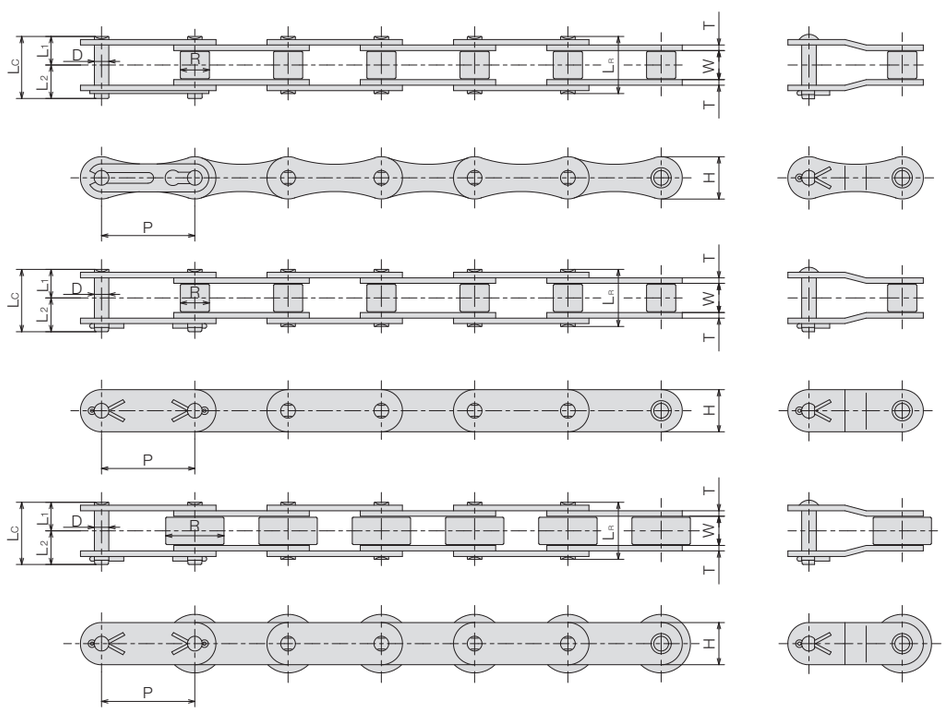
Connecting links are "cotter" style for all sizes above 100 SS. Stainless steel chains are not lubricated prior to delivery. It is recommended to lubricate stainless steel chains before use except when the chain is exposed to water. Stainless steel chains may suffer articulation problems in early stages if they are used without lubrication. Takes account of a 35% reduction of fatigue strength when a single pitch offset link is used.

34

Stainless Steel Roller Chain

ANSI | Double Pitch | Anti Corrosion | SS

"SS" type roller chains are used in highly corrosive or extreme temperature environments. All component parts of SUGIYAMA stainless steel roller chains are made of 304 stainless steel to achieve the utmost corrosion and temperature resistance. 316 and 600 stainless steel roller chains are also available upon request.



SY Chain No.	Dimension - mm											Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller			Pin					Plate			
		Width W	Roller Type	Dia. R	Dia. D	Length				Height	Thickness		
						L_R	L_C	L_1	L_2	H	T	κN	kg/m
SY A2040 SS	25.40	7.95	S	7.92	3.96	16.9	18.3	8.3	10.0	11.4	1.5	0.44	0.43
SY A2050 SS	31.75	9.53	S	10.16	5.08	20.5	22.2	10.2	12.0	15.0	2.0	0.68	0.73
SY A2060 SS	38.10	12.70	S	11.91	5.95	25.7	27.6	12.8	14.8	17.0	2.4	1.03	1.03
SY A2080 SS	50.80	15.88	S	15.88	7.93	33.0	35.5	16.4	19.1	22.6	3.2	1.77	1.71
SY C2040 SS	25.40	7.95	S	7.92	3.96	16.9	18.3	8.3	10.0	11.4	1.5	0.44	0.48
SY C2042 SS			R	15.88									0.82
SY C2050 SS	31.75	9.53	S	10.16	5.08	20.5	22.2	10.2	12.0	15.0	2.0	0.68	0.82
SY C2052 SS			R	19.05									1.26
SY C2060H SS	38.10	12.70	S	11.91	5.95	28.8	31.0	14.4	16.6	17.0	3.2	1.03	1.38
SY C2062H SS			R	22.23									2.08
SY C2080H SS	50.80	15.88	S	15.88	7.93	35.7	38.8	17.8	21.0	22.6	4.0	1.77	2.32
SY C2082H SS			R	28.58									3.36
SY C2100H SS	63.50	19.05	S	19.05	9.53	42.4	46.0	21.2	24.8	28.6	4.8	2.55	3.46
SY C2102H SS			R	39.67									5.64
SY C2120H SS	76.20	25.40	S	22.23	11.10	52.8	57.2	26.4	30.8	34.9	5.6	3.92	4.92
SY C2122H SS			R	44.45									7.87
SY C2160H SS	101.60	31.75	S	28.58	14.28	67.9	73.1	34.0	39.1	47.6	7.2	6.37	8.02
SY C2162H SS			R	57.15									12.77

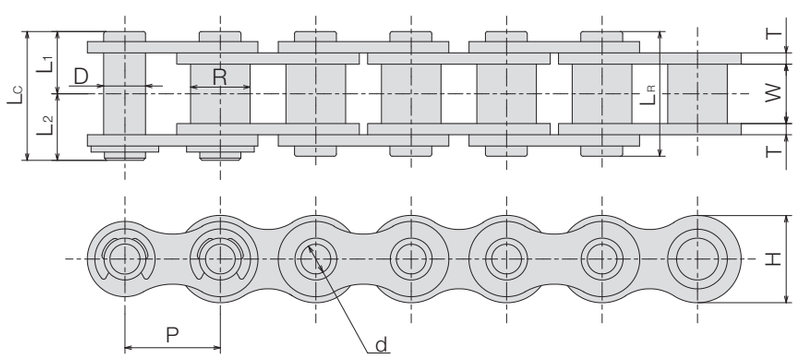
The figure-eight shaped link plates are for drive chains. Roller Type "S" indicates a standard roller. Roller Type "R" indicates an oversized carrier roller. Roller Type "R" can be manufactured with plastic oversized carrier rollers. Stainless steel chains are not lubricated prior to delivery. It is recommended to lubricate stainless steel chains before use except when the chain is exposed to water. Stainless steel chains may suffer articulation problems in early stages if they are used without lubrication.

35

Stainless Steel Hollow Pin Chain

ANSI | **Single Pitch** | **Anti Corrosion** | Miscellaneous | **SS HP**

"SS HP" type chains are used in highly corrosive or extreme temperature environments. All component parts of SUGIYAMA stainless steel hollow pin chains are made of 304 stainless steel to achieve the utmost corrosion and temperature resistance.



SY Chain No.	Dimension - mm											Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin		Length				Plate			
		Width W	Dia. R	Out-Dia. D	In-Dia. d	L_R	L_C	L_1	L_2	Height H	Thickness T	kN	kg/m
SY 40-1 SS HP	12.70	7.95	7.92	5.63	4.03	16.7	17.6	8.4	9.2	12.0	1.5	0.44	0.58
SY 50-1 SS HP	15.875	9.53	10.16	7.09	5.13	20.1	21.5	10.1	11.4	15.0	2.0	0.69	0.97
SY 60-1 SS HP	19.05	12.70	11.91	8.29	6.04	26.0	27.2	13.0	14.2	18.1	2.4	1.03	1.46
SY 80-1 SS HP	25.40	15.88	15.88	11.34	8.08	32.4	34.3	16.2	18.1	24.1	3.2	1.77	2.47

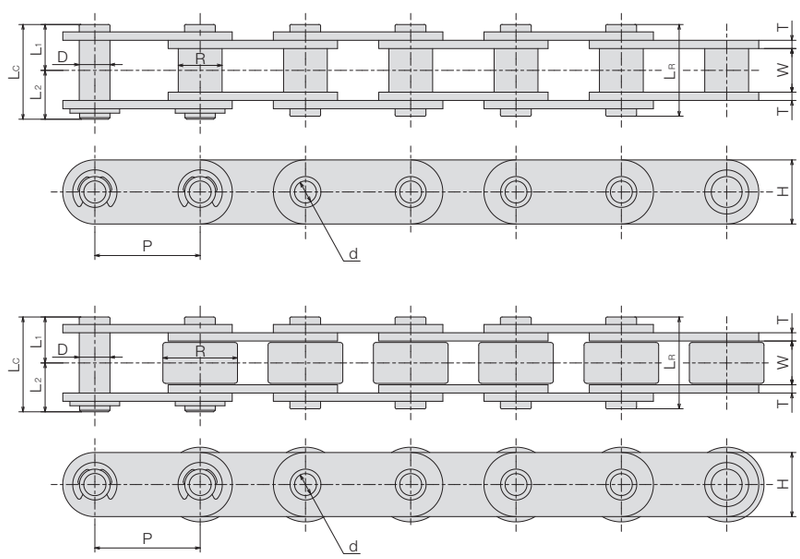
R refers bushing dia.

SS HP type chains are a bushed chain which made without rollers. Stainless steel chains are not lubricated prior to delivery. It is recommended to lubricate stainless steel chains before use except when the chain is exposed to water. Stainless steel chains may suffer articulation problems in early stages if they are used without lubrication. Offset links are not available.

Stainless Steel Hollow Pin Chain

ANSI | **Double Pitch** | **Anti Corrosion** | Miscellaneous | **SS HP**

"SS HP" type chains are used in highly corrosive or extreme temperature environments. All component parts of SUGIYAMA stainless steel hollow pin chains are made of 304 stainless steel to achieve the utmost corrosion and temperature resistance.



SY Chain No.	Dimension - mm												Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller			Pin						Plate			
		Width W	Roller Type	Dia. R	Out-Dia. D	In-Dia. d	Length				Height	Thickness		
							L_R	L_C	L_1	L_2	H	T	kN	kg/m
SY C2040 SS HP	25.40	7.95	S	7.92	5.63	4.03	16.7	17.6	8.4	9.2	12.0	1.5	0.44	0.46
SY C2042 SS HP			R	15.88										0.81
SY C2050 SS HP	31.75	9.53	S	10.16	7.09	5.13	20.1	21.5	10.1	11.4	15.0	2.0	0.69	0.76
SY C2052 SS HP			R	19.05										1.25
SY C2060 SS HP	38.10	12.70	S	11.91	8.29	6.04	26.0	27.2	13.0	14.2	18.1	2.4	1.03	1.12
SY C2062 SS HP			R	22.23										1.79
SY C2080 SS HP	50.80	15.88	S	15.88	11.34	8.08	32.4	34.3	16.2	18.1	24.1	3.2	1.77	1.98
SY C2082 SS HP			R	28.58										3.17
SY C2082H SS HP							35.6	37.5	17.8	19.7		4.0		3.22

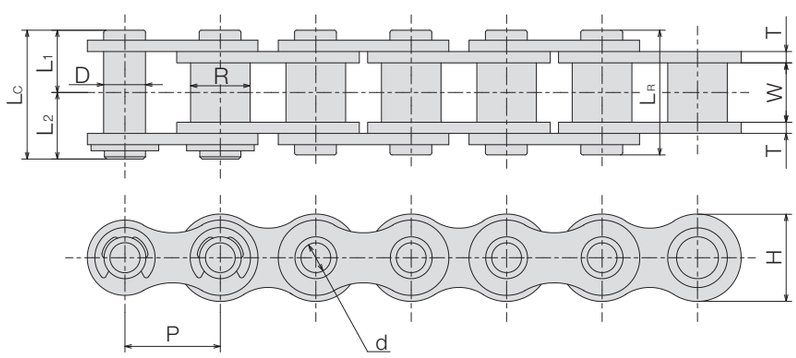
Roller Type "S" indicates a bushed chain which made without rollers. Roller Type "R" indicates an oversized carrier roller. Roller Type "R" can be manufactured with plastic oversized carrier rollers. Stainless steel chains are not lubricated prior to delivery. It is recommended to lubricate stainless steel chains before use except when the chain is exposed to water. Stainless steel chains may suffer articulation problems in early stages if they are used without lubrication.

37

Hollow Pin Chain

ANSI | Single Pitch | Miscellaneous | HP

"HP" type chains are constructed with cold-forged solid bushings. This process assures that the inside diameter of the bushing's hollow center is completely cylindrical all the way through. This unique hollow pin feature allows for easy insertion of cross rods without damaging the chain or rods.



SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin		Length				Plate				
		Width W	Dia. R	Out-Dia. D	In-Dia. d	L_R	L_C	L_1	L_2	Height H	Thickness T	kN	kN	kg/m
SY 40-1 HP	12.70	7.95	7.92	5.63	4.03	16.7	17.6	8.4	9.2	12.0	1.5	12.70	1.77	0.58
SY 50-1 HP	15.875	9.53	10.16	7.09	5.13	20.1	21.5	10.1	11.4	15.0	2.0	19.60	3.14	0.97
SY 60-1 HP	19.05	12.70	11.91	8.29	6.04	26.0	27.2	13.0	14.2	18.1	2.4	28.40	4.22	1.46
SY 80-1 HP	25.40	15.88	15.88	11.34	8.08	32.4	34.3	16.2	18.1	24.1	3.2	51.00	7.65	2.47

R refers bushing dia.

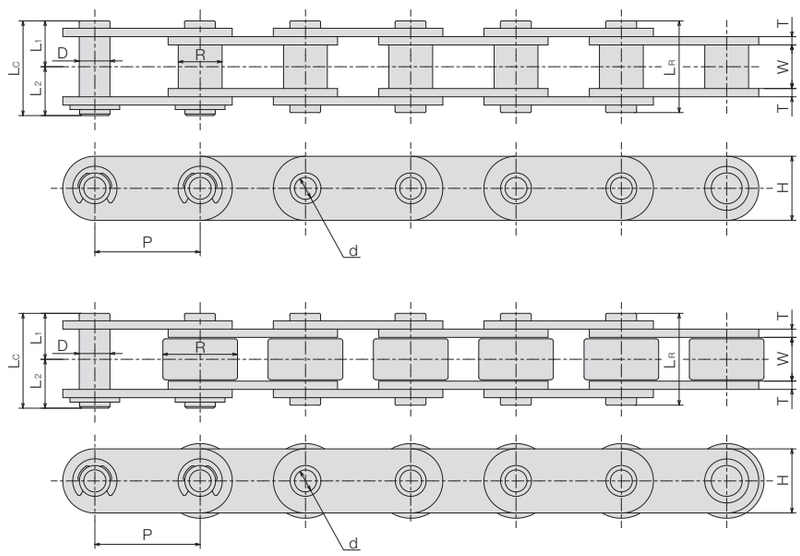
HP type chains are a bushed chain which made without rollers. Offset links are not available.

38

Hollow Pin Chain

ANSI | Double Pitch | Miscellaneous | HP

"HP" type chains are constructed with cold-forged solid bushings. This process assures that the inside diameter of the bushing's hollow center is completely cylindrical all the way through. This unique hollow pin feature allows for easy insertion of cross rods without damaging the chain or rods.



SY Chain No.	Dimension - mm												Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller			Pin						Plate				
		Width W	Roller Type	Dia. R	Out Dia. D	In Dia. d	Length				Height	Thickness			
							L_R	L_C	L_1	L_2	H	T	kN	kN	kg/m
SY C2040 HP	25.40	7.95	S	7.92	5.63	4.03	16.7	17.6	8.4	9.2	12.0	1.5	12.70	1.77	0.46
SY C2042 HP			R	15.88											0.81
SY C2050 HP	31.75	9.53	S	10.16	7.09	5.13	20.1	21.5	10.1	11.4	15.0	2.0	19.60	3.14	0.76
SY C2052 HP			R	19.05											1.25
SY C2060 HP	38.10	12.70	S	11.91	8.29	6.04	26.0	27.2	13.0	14.2	18.1	2.4	28.40	4.22	1.12
SY C2062 HP			R	22.23											1.79
SY C2080 HP	50.80	15.88	S	15.88	11.34	8.08	32.4	34.3	16.2	18.1	24.1	3.2	51.00	7.65	1.98
SY C2082 HP			R	28.58											3.17
SY C2082H HP							35.6	37.5	17.8	19.7		4.0	58.00		3.22

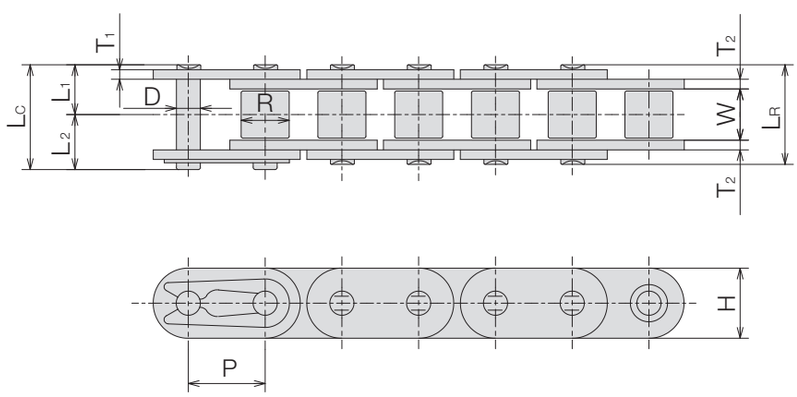
Roller Type "S" indicates a bushed chain which made without rollers. Roller Type "R" indicates an oversized carrier roller. Roller Type "R" can be manufactured with plastic oversized carrier rollers.

39

Flat Sidebar Roller Chain

BS | Single Pitch | Miscellaneous | F

"F" type roller chains offer high fatigue resistance and are suited for conveyor based products and/or sliding on a surface.



SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate					
		Width W	Dia. R	Dia. D	Length				Height	Thickness				
					L_R	L_C	L_1	L_2	H	T_1	T_2	kN	kN	kg/m
SY 08B-1 F	12.70	7.75	8.51	4.45	16.7	18.2	8.4	9.8	11.8	1.5		19.60	3.14	0.68
SY 10B-1 F	15.875	9.65	10.16	5.08	19.4	20.7	9.7	11.0	14.7	1.65		24.60	4.90	0.99
SY 12B-1 F	19.05	11.68	12.07	5.72	22.0	23.6	11.0	12.6	16.1	1.8		32.20	7.06	1.27
SY 16B-1 F	25.40	17.02	15.88	8.26	35.2	38.2	17.6	20.6	20.3	3.2	4.0	66.60	12.60	2.9
SY 20B-1 F	31.75	19.56	19.05	10.16	40.2	44.0	20.1	23.9	26.0	3.5	4.5	105.00	19.60	4.21
SY 24B-1 F	38.10	25.40	25.40	14.63	53.4	58.1	26.7	31.4	32.7	5.0	5.9	177.80	27.50	8.16
SY 28B-1 F	44.45	31.00	27.94	15.88	65.1	70.5	32.6	37.9	36.6	6.3	7.4	222.20	34.30	10.37
SY 32B-1 F	50.80	31.00	29.21	17.81	65.0	71.1	32.5	38.6	41.7	6.3	6.9	275.00	39.20	11.11

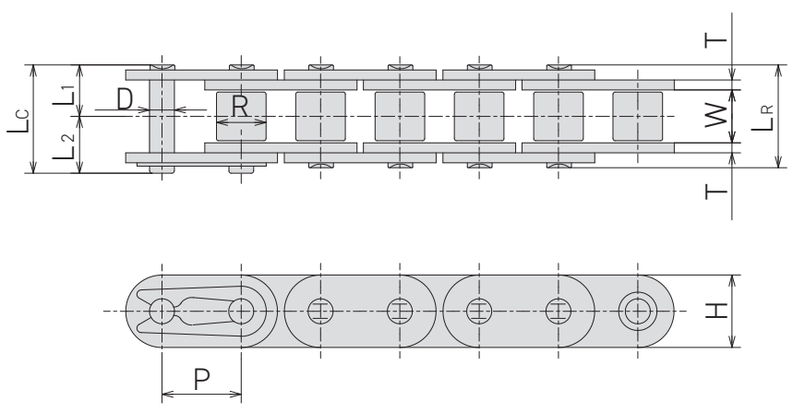
Connecting links are "cotter" style for all sizes above 20B F. Offset links are not available.

40

Flat Sidebar Roller Chain

ANSI | Single Pitch | Miscellaneous | F

"F" type roller chains offer high fatigue resistance and are suited for conveyor based products and/or sliding on a surface.



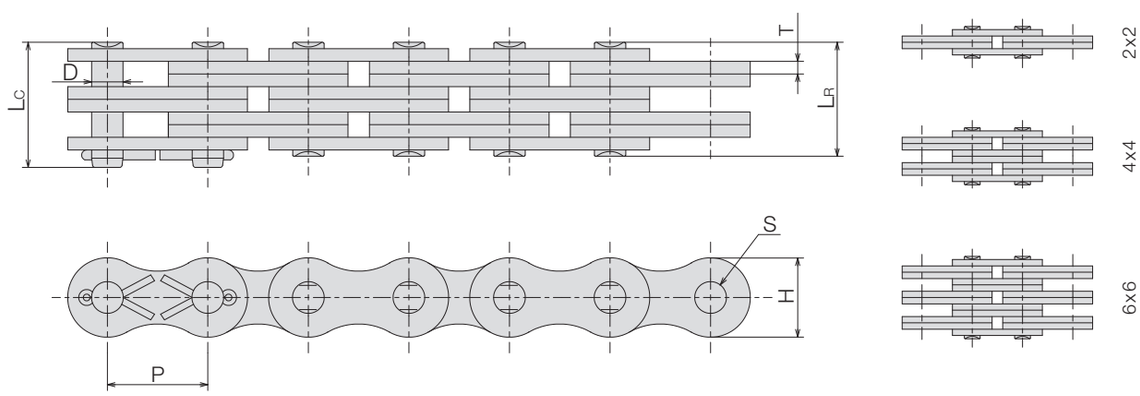
SY Chain No.	Dimension - mm										Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate				
		Width	Dia.	Dia.	Length				Height	Thickness			
		W	R	D	L_R	L_C	L_1	L_2	H	T	kN	kN	kg/m
SY 35-1 F	9.525	4.78	5.08	3.58	12.0	12.9	6.0	6.9	9.0	1.25	10.80	2.23	0.38
SY 40-1 F	12.70	7.95	7.92	3.96	16.6	17.7	8.3	9.4	11.7	1.5	19.10	4.17	0.67
SY 50-1 F	15.875	9.53	10.16	5.08	20.5	22.0	10.2	11.8	14.6	2.0	31.90	7.22	1.10
SY 60-1 F	19.05	12.70	11.91	5.95	25.7	26.9	12.8	14.1	17.5	2.4	43.10	10.70	1.63
SY 80-1 F	25.40	15.88	15.88	7.93	33.0	35.5	16.4	19.1	23.4	3.2	78.50	18.40	2.82
SY 100-1 F	31.75	19.05	19.05	9.53	39.6	43.0	19.7	23.3	29.3	4.0	118.00	28.30	4.37
SY 120-1 F	38.10	25.40	22.23	11.10	49.7	53.4	24.8	28.6	35.1	4.8	167.00	38.00	6.45
SY 140-1 F	44.45	25.40	25.40	12.70	54.0	58.3	27.0	31.3	40.9	5.6	216.00	50.30	8.29
SY 160-1 F	50.80	31.75	28.58	14.28	64.3	68.7	32.2	36.5	46.7	6.4	275.00	66.30	10.96
SY 200-1 F	63.50	38.10	39.67	19.83	78.5	87.0	39.3	47.7	59.8	8.0	451.00	82.30	18.96
SY 240-1 F	76.20	47.63	47.63	23.78	95.5	104.0	47.8	56.2	70.3	9.5	677.00	112.80	26.47

Connecting links are "cotter" style for all sizes 100 F to 160 F. Connecting links are "through S pin" style for sizes 200 F and 240 F. Offset links are not available.

LL Leaf Chain

BS | Single Pitch | Miscellaneous | LL

"LL" type leaf chains consist of link plates of the same contour and thickness as the pin link plate of BS standard roller chain with the same pitch. The first number in the leaf chains identifies the chain pitch, and the last two numbers identify the chain's lacing.



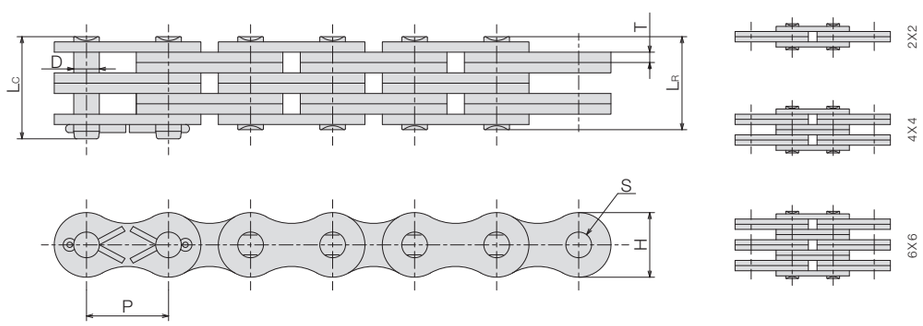
SY Chain No.	Lacing	Dimensions - mm							Average Tensile Strength	Average Chain Weight
		Pitch P	Pin			Plate		Hole Dia		
			Dia. D	Length		Height	Thickness			
				LR	Lc	H	T	S	kN	kg/m
SY LL0822	2x2			7.6	9.4				17.80	0.31
SY LL0844	4x4	12.70	4.45	13.0	14.8	10.9	1.25	4.46	31.10	0.60
SY LL0866	6x6			18.4	20.2				44.50	0.89
SY LL1022	2x2			9.3	11.0				22.20	0.48
SY LL1044	4x4	15.875	5.08	16.1	18.0	13.7	1.65	5.09	44.50	0.94
SY LL1066	6x6			22.9	24.6				66.70	1.40
SY LL1222	2x2			10.7	13.0				28.90	0.63
SY LL1244	4x4	19.05	5.72	18.5	20.8	16.1	1.8	5.73	57.80	1.22
SY LL1266	6x6			25.9	28.3				86.70	1.82
SY LL1622	2x2			17.2	20.2				58.00	1.48
SY LL1644	4x4	25.40	8.26	30.2	33.2	21.0	3.2	8.30	116.00	2.90
SY LL1666	6x6			43.2	46.2				174.00	4.31
SY LL2022	2x2			20.1	23.8				95.00	2.17
SY LL2044	4x4	31.75	10.16	35.1	38.8	26.4	3.5	10.21	190.00	4.24
SY LL2066	6x6			50.1	53.8				285.00	6.30
SY LL2422	2x2			28.4	33.0				170.00	4.02
SY LL2444	4x4	38.10	14.63	49.4	54.0	33.4	4.8	14.65	340.00	7.79
SY LL2466	6x6			70.4	75.0				510.00	11.55
SY LL2822	2x2			34.0	39.2				200.00	5.42
SY LL2844	4x4	44.45	15.88	57.8	63.0	37.0	6.3	15.92	400.00	10.56
SY LL2866	6x6			86.0	91.2				600.00	15.71
SY LL3222	2x2			35.0	41.1				260.00	5.92
SY LL3244	4x4	50.80	17.81	58.6	64.6	42.2	6.3	17.83	520.00	11.50
SY LL3266	6x6			85.0	90.6				780.00	17.06

42

AL Leaf Chain

ANSI | Single Pitch | Miscellaneous | AL

"AL" type leaf chains consist of link plates of the same contour and thickness as the pin link plate of the SUGIYAMA standard roller chain of the same pitch. It is mainly used for relatively constant, low, medium load with less shock.



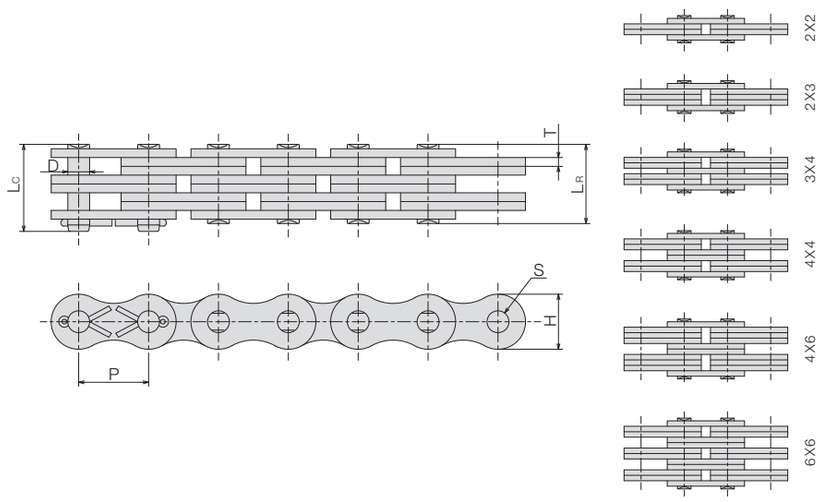
SY Chain No.	Lacing	Dimensions - mm							Average Tensile Strength	Average Chain Weight
		Pitch P	Pin			Plate		Hole Dia		
			Dia. D	Length		Height	Thickness			
				LR	Lc	H	T	S	kN	kg/m
SY AL422	2x2			8.4	10.4				18.60	0.36
SY AL444	4x4	12.70	3.96	14.6	16.6	10.3	1.5	4.03	37.30	0.70
SY AL466	6x6			21.2	23.1				55.90	1.04
SY AL522	2x2			10.5	12.5				30.40	0.58
SY AL544	4x4	15.875	5.08	19.0	21.0	12.7	2.0	5.15	60.80	1.16
SY AL566	6x6			27.6	29.5				94.10	1.73
SY AL622	2x2			12.4	14.8				43.10	0.81
SY AL644	4x4	19.05	5.95	22.2	24.6	15.2	2.4	6.04	86.30	1.68
SY AL666	6x6			32.6	34.7				129.00	2.46
SY AL822	2x2			16.6	19.8				72.60	1.42
SY AL844	4x4	25.40	7.93	29.4	32.4	20.2	3.2	8.00	145.00	2.88
SY AL866	6x6			43.0	46.2				218.00	4.23
SY AL1022	2x2			19.6	23.6				108.00	2.46
SY AL1044	4x4	31.75	9.53	36.2	39.9	24.5	4.0	9.59	216.00	4.81
SY AL1066	6x6			53.5	57.1				324.00	7.24
SY AL1222	2x2			24.0	28.3				152.00	3.35
SY AL1244	4x4	38.10	11.10	43.7	47.9	29.2	4.8	11.22	304.00	6.58
SY AL1266	6x6			63.4	67.6				456.00	9.82
SY AL1422	2x2			27.8	32.6				205.00	4.99
SY AL1444	4x4	44.45	12.70	51.2	55.6	34.2	5.6	12.82	410.00	9.56
SY AL1466	6x6			73.6	78.2				615.00	14.13
SY AL1622	2x2			31.8	36.8				269.00	6.35
SY AL1644	4x4	50.80	14.28	58.4	63.3	40.3	6.4	14.40	539.00	12.62
SY AL1666	6x6			84.8	88.8				809.00	18.87

43

BL Leaf Chain

ANSI | Single Pitch | Miscellaneous | BL

"BL" type leaf chains consist of link plates with the next larger pitch size of SUGIYAMA standard roller chains. It is chiefly used for medium loads with greater shock.

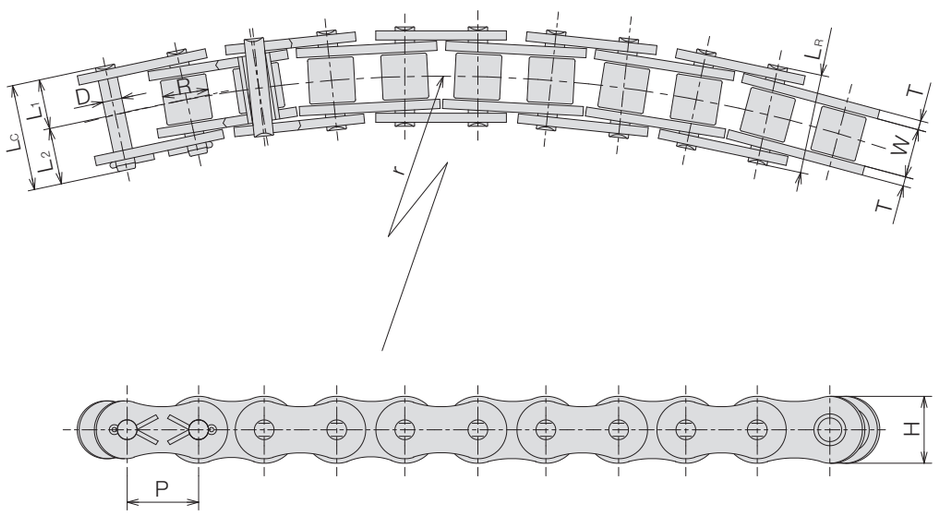


SY Chain No.	Lacing	Dimensions - mm							Average Tensile Strength	Average Chain Weight
		Pitch P	Pin			Plate		Hole Dia		
			Dia. D	Length		Height	Thickness			
				LR	Lc	H	T	S	kN	kg/m
SY BL422	2x2	12.70	5.08	10.5	12.4	11.7	2.0	5.15	27.50	0.64
SY BL423	2x3			12.5	14.5				27.50	0.79
SY BL434	3x4			16.8	18.7				40.70	1.07
SY BL444	4x4			19.0	20.9				54.40	1.22
SY BL446	4x6			23.0	25.0				54.40	1.58
SY BL466	6x6			27.5	29.4				82.50	1.89
SY BL522	2x2	15.875	5.95	12.4	14.7	14.6	2.4	6.04	42.70	1.01
SY BL523	2x3			15.0	17.4				42.70	1.19
SY BL534	3x4			20.0	22.3				64.00	1.61
SY BL544	4x4			22.2	24.5				85.30	1.80
SY BL546	4x6			27.6	29.8				85.30	2.26
SY BL566	6x6			32.4	34.7				127.00	2.65
SY BL622	2x2	19.05	7.93	16.6	19.7	17.5	3.2	8.00	70.60	1.53
SY BL623	2x3			19.5	22.7				70.60	1.89
SY BL634	3x4			26.2	29.3				106.00	2.68
SY BL644	4x4			29.2	32.2				141.00	3.04
SY BL646	4x6			36.5	39.6				141.00	4.15
SY BL666	6x6			43.0	46.2				212.00	4.58
SY BL822	2x2	25.40	9.53	19.6	23.5	24.1	4.0	9.59	114.00	2.57
SY BL823	2x3			23.8	27.5				114.00	3.17
SY BL834	3x4			32.5	35.9				172.00	4.37
SY BL844	4x4			36.2	39.9				228.00	4.95
SY BL846	4x6			45.0	48.7				228.00	6.23
SY BL866	6x6			53.5	57.1				342.00	7.44
SY BL1022	2x2	31.75	11.10	24.0	28.2	29.3	4.8	11.20	157.00	3.73
SY BL1023	2x3			28.6	33.0				157.00	4.64
SY BL1034	3x4			38.7	42.9				236.00	6.50
SY BL1044	4x4			43.7	47.9				314.00	7.41
SY BL1046	4x6			53.4	57.6				314.00	9.21
SY BL1066	6x6			63.4	67.6				471.00	11.07
SY BL1222	2x2	38.10	12.70	27.8	32.6	35.1	5.6	12.82	207.00	4.77
SY BL1223	2x3			34.2	38.8				207.00	6.46
SY BL1234	3x4			45.5	50.1				311.00	9.05
SY BL1244	4x4			51.2	55.6				414.00	10.27
SY BL1246	4x6			62.6	67.2				414.00	11.86
SY BL1266	6x6			73.6	78.2				621.00	14.40
SY BL1422	2x2	44.45	14.28	31.8	36.8	40.9	6.4	14.39	270.00	7.87
SY BL1243	2x3			38.8	43.8				270.00	8.90
SY BL1434	3x4			51.7	56.7				405.00	11.61
SY BL1444	4x4			58.4	63.3				539.00	12.87
SY BL1446	4x6			71.2	76.2				539.00	17.86
SY BL1466	6x6			84.8	88.8				810.00	22.33
SY BL1622	2x2	50.80	17.45	35.8	41.9	46.7	7.2	17.62	362.00	9.77
SY BL1623	2x3			43.7	49.8				362.00	12.08
SY BL1634	3x4			58.9	64.8				543.00	16.85
SY BL1644	4x4			65.9	72.0				724.00	18.85
SY BL1646	4x6			80.2	86.3				724.00	23.94
SY BL1666	6x6			96.2	102.3				1,086.00	28.54

Side Bow Roller Chain

ANSI | Single Pitch | Miscellaneous | SB

"SB" type roller chains provide extra clearance between pins, bushings, and link plates, and give the chain freedom to slightly twist or curve on a horizontal plane.



SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Pin					Plate		Min. Curve Radius			
		Width W	Dia. R	Out Dia. D	Length				Height	Thickness				
					LR	Lc	L1	L2	H	T	r	kN	kN	kg/m
SY 40-1 SB	12.70	7.95	7.92	3.58	16.9	18.9	8.5	10.4	11.7	1.5	350	14.90	1.77	0.63
SY 50-1 SB	15.875	9.53	10.16	4.45	21.1	23.1	10.6	12.5	14.6	2.0	400	22.10	3.14	1.03
SY 60-1 SB	19.05	12.70	11.91	5.08	26.3	28.1	13.2	14.9	17.5	2.4	500	29.40	4.22	1.46
SY 80-1 SB	25.40	15.88	15.88	7.13	33.4	36.4	16.7	19.7	23.4	3.2	600	57.90	7.65	2.42

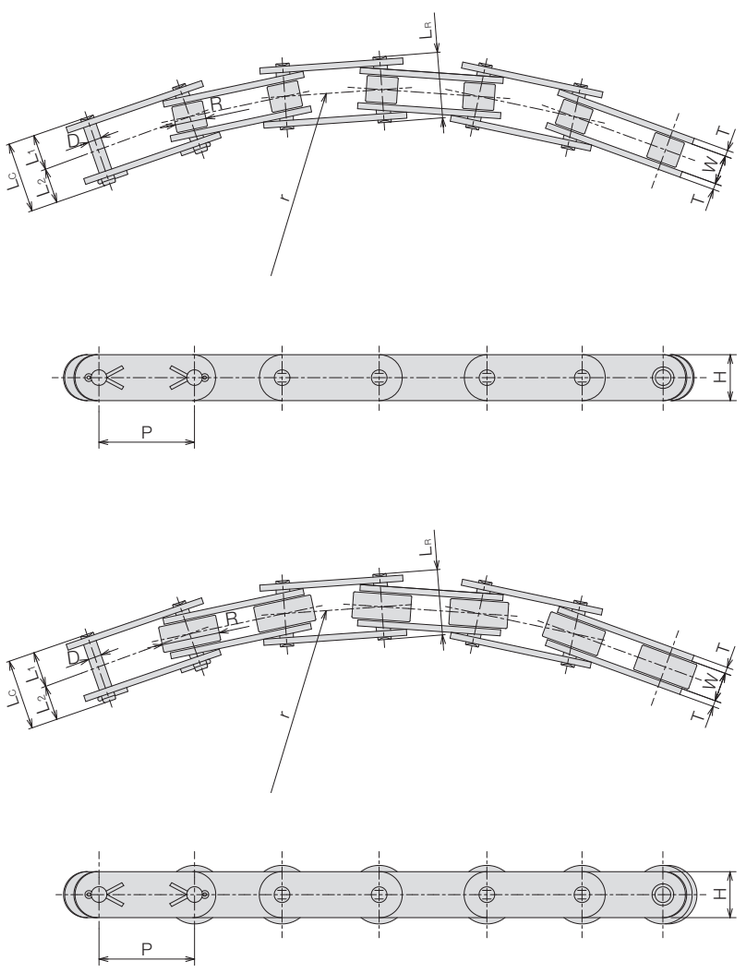
○Stainless steel, nickel plated, and with attachments are supplied on request

Offset links are not available.

Side Bow Roller Chain

ANSI | Double Pitch | Miscellaneous | SB

"SB" type roller chains provide extra clearance between pins, bushings, and link plates, and give the chain freedom to slightly twist or curve on a horizontal plane.



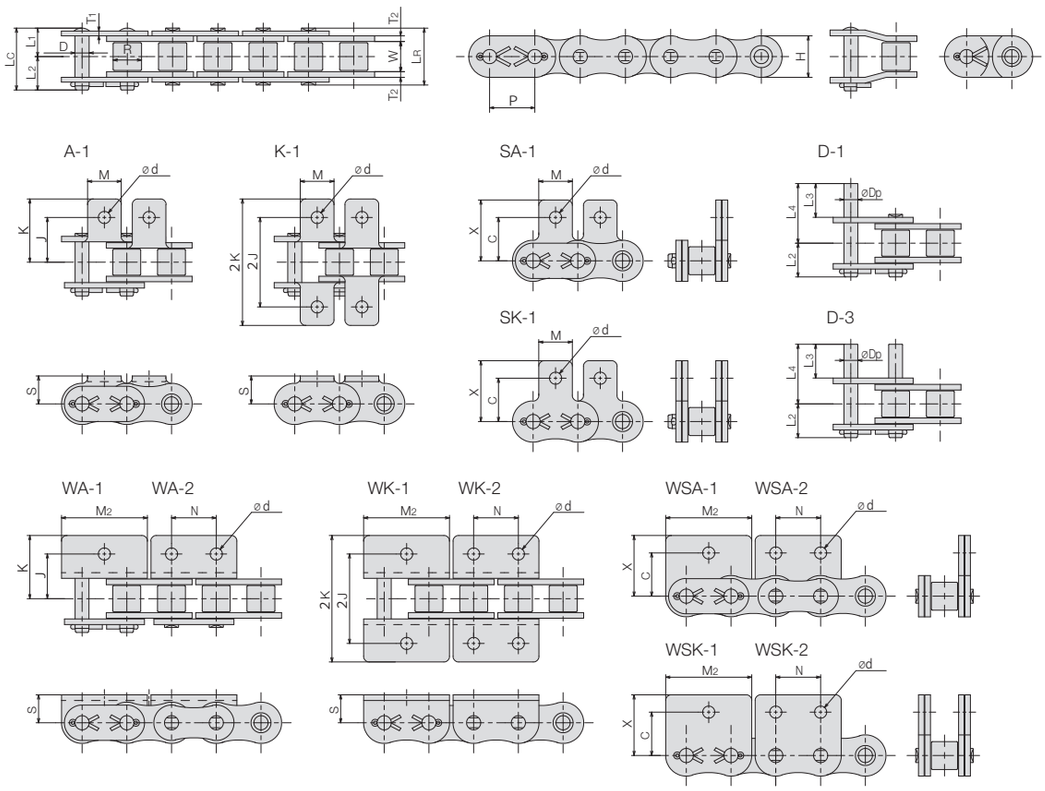
SY Chain No.	Dimension - mm												Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller			Pin					Plate		Min. Curve Radius			
		Width W	Roller Type	Dia. R	Dia. D	Length				Height	Thickness				
						L_R	L_C	L_1	L_2	H	T	r	kN	kN	kg/m
SY C2040 SB	25.40	7.95	S	7.92	3.58	16.9	18.9	8.5	10.4	11.4	1.5	700	14.90	1.77	0.48
SY C2042 SB			R	15.88											0.82
SY C2050 SB	31.75	9.53	S	10.16	4.45	21.1	23.1	10.6	12.5	15.0	2.0	800	22.10	3.14	0.82
SY C2052 SB			R	19.05											1.26
SY C2060 SB	38.10	12.70	S	11.91	5.08	26.3	28.1	13.2	14.9	17.0	2.4	1000	29.40	4.22	1.20
SY C2062 SB			R	22.23											2.01

Roller Type "S" indicates a standard roller. Roller Type "R" indicates an oversized carrier roller. Roller Type "R" can be manufactured with plastic oversized carrier rollers. Offset links are not available.

46

Attachment Roller Chain

BS | Single Pitch | Attachment | ATT



SY Chain No.	Pitch P	Dimension - mm													Average Tensile Strength	Average Chain Weight
		Roller		Pin							Plate			Trans. Pitch		
		Width W	Dia. R	Dia. D	Length						Height	Thickness				
					L_R	L_C	L_1	L_2	L_3	L_4	H	T_1	T_2	TP	κN	kg/m
SY 08B	12.70	7.75	8.51	4.45	16.7	18.2	8.4	9.2	14.8	21.8	11.8	1.5		13.92	19.60	0.61
SY 10B	15.875	9.65	10.16	5.08	19.4	20.7	9.7	11.0	17.6	25.9	14.7	1.65		16.59	24.60	0.89
SY 12B	19.05	11.68	12.07	5.72	22.0	23.6	11.0	12.6	20.7	30.5	16.1	1.8		19.46	32.20	1.14
SY 16B	25.40	17.02	15.88	8.26	35.2	38.2	17.6	20.6	33.3	49.3	21.0	3.2	4.0	31.88	66.60	2.59
SY 20B	31.75	19.56	19.05	10.16	40.2	44.0	20.1	23.9	38.3	56.6	26.4	3.5	4.5	36.45	105.00	3.76

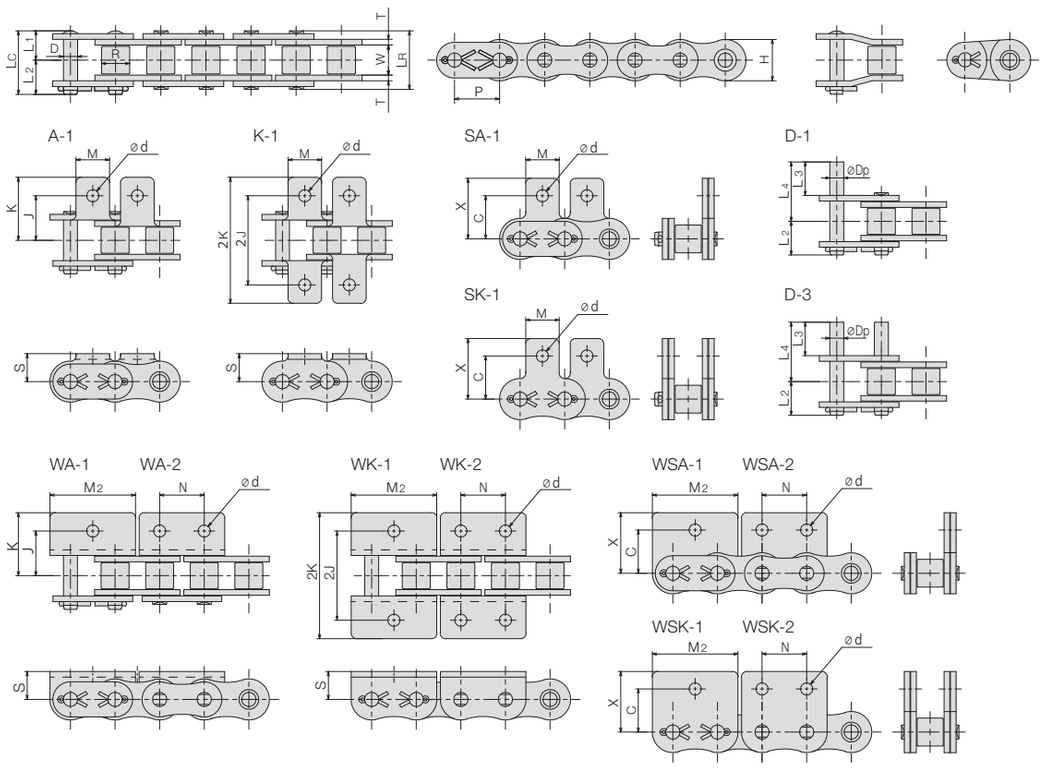
SY Chain No.	Common Dimensions					Original Dimensions						Additional Weight				
	M	M2	N	d	S	A, WA		K, WK		SA, SK, WSA, WSK		A, SA	K, SK	WA, WSA	WK, WSK	D-1
						J	K	2J	2K	C	X	g/pc				
SY 08B	11.0	24.5	12.7	4.3	8.5	13.8	20.9	27.6	41.8	13.7	20.8	2.0	4.0	4.5	9.0	1.8
SY 10B	14.0	30.6	15.9	5.3	10.5	15.8	24.2	31.6	48.4	16.5	24.9	3.2	6.4	7.0	14.0	2.8
SY 12B	18.0	35.2	19.1	6.4	12.2	17.6	27.3	35.2	54.6	18.5	28.1	4.5	9.0	9.5	19.0	4.1
SY 16B	24.0	46.4	25.4	8.4	17.0	29.0	41.9	58.0	83.8	27.4	40.0	20.0	40.0	33.5	67.0	14.0
SY 20B	30.0	58.2	31.8	10.5	21.0	34.5	47.5	69.0	95.0	33.0	47.5	25.0	50.0	53.5	107.0	24.3

Connecting links are "clip" style for all sizes 08B ATT to 16B ATT. Connecting links are "cotter" style for size 20B ATT.

47

Attachment Roller Chain

ANSI | Single Pitch | Attachment | ATT



SY Chain No.	Pitch P	Dimension - mm												Average Tensile Strength	Average Chain Weight
		Roller		Pin							Plate		Trans. Pitch		
		Width W	Dia. R	Dia. D	Length						Height	Thickness			
					L_R	L_C	L_1	L_2	L_3	L_4	H	T	TP	kN	kg/m
SY 35	9.525	4.78	5.08	3.58	12.0	12.9	6.0	6.9	9.5	14.7	9.0	1.25	10.1	10.80	0.34
SY 40	12.70	7.95	7.92	3.96	16.6	17.7	8.3	9.4	9.5	16.8	11.7	1.5	14.4	19.10	0.60
SY 50	15.875	9.53	10.16	5.08	20.5	22.0	10.2	11.8	11.9	21.0	14.6	2.0	18.1	31.90	0.98
SY 60	19.05	12.70	11.91	5.95	25.7	26.9	12.8	14.1	14.3	25.9	17.5	2.4	22.8	43.10	1.46
SY 80	25.40	15.88	15.88	7.93	33.0	35.5	16.4	19.1	19.1	33.9	23.4	3.2	29.3	78.50	2.52
SY 100	31.75	19.05	19.05	9.53	39.6	43.0	19.7	23.3	23.8	41.9	29.3	4.0	35.8	118.00	3.91
SY 120	38.10	25.40	22.23	11.10	49.7	53.4	24.8	28.6	28.6	51.4	35.1	4.8	45.4	167.00	5.76
SY 140	44.45	25.40	25.40	12.70	54.0	58.3	27.0	31.3	33.3	57.5	40.9	5.6	48.9	216.00	7.41
SY 160	50.80	31.75	28.58	14.28	64.3	68.7	32.2	36.5	38.1	67.4	46.7	6.4	58.5	275.00	9.79

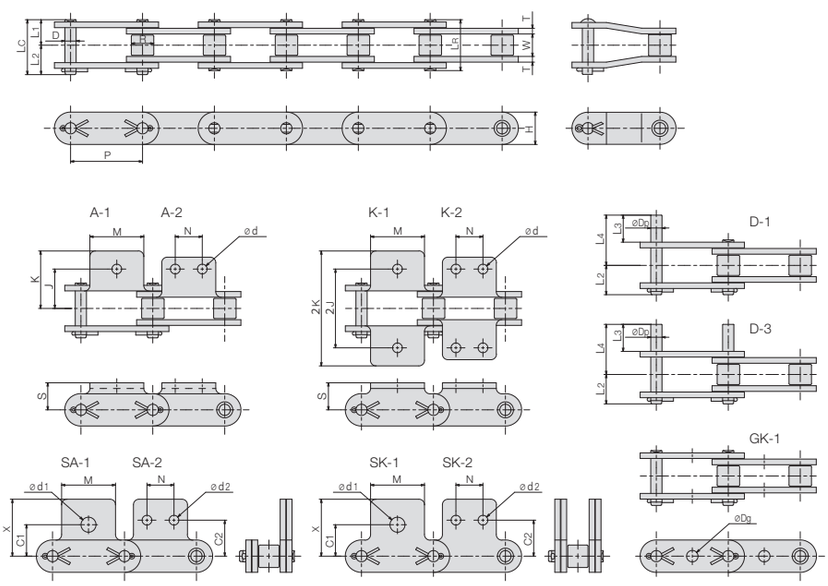
SY Chain No.	Common Dimensions					Original Dimensions												Additional Weight				
	M	M2	N	d	S	A		WA		K		WK		SA, SK		WSA, WSK		A SA	K SK	WA WSA	WK WSK	D-1
						J	K	J	K	2J	2K	2J	2K	C	X	C	X	g/pc				
SY 35	7.9	-	-	3.4	6.4	9.5	14.3	-	-	19.1	28.6	-	-	9.5	14.5	-	-	0.9	1.8	-	-	0.8
SY 40	9.5	24.3	12.7	3.6	8.0	12.7	17.3	12.7	17.7	25.4	34.6	25.4	35.4	12.7	18.5	12.7	17.3	1.2	2.4	3.6	7.2	1
SY 50	12.7	30.4	15.9	5.2	10.3	15.9	23.3	15.9	23.3	31.8	46.6	31.8	46.6	15.9	23.0	15.9	23.1	4	8	7.8	15.6	2
SY 60	15.9	36.5	19.1	5.2	11.9	19.1	28.1	19.1	28.1	38.1	56.2	38.1	56.2	18.3	26.7	18.3	26.7	6.5	13	14.5	29	3
SY 80	19.1	48.6	25.4	6.8	15.9	25.4	35.9	25.4	35.9	50.8	71.8	50.8	71.8	24.6	34.5	24.6	34.5	13	26	34	68	7
SY 100	25.4	57.0	31.8	8.8	19.8	31.8	44.3	31.8	44.3	63.6	88.6	63.6	88.6	31.8	43.2	31.8	43.6	27	54	58.5	117	12
SY 120	28.3	-	-	10.5	23.0	38.1	54.7	-	-	76.2	109.4	-	-	36.6	51.4	-	-	47	94	-	-	20
SY 140	34.7	-	-	12.0	28.6	44.5	63.2	-	-	89.0	126.4	-	-	44.4	63.1	-	-	65	130	-	-	30
SY 160	38.1	-	-	14.0	31.8	50.8	71.9	-	-	101.6	143.8	-	-	50.8	69.5	-	-	88	176	-	-	45

Connecting links are "clip" style for all sizes 35 ATT to 80 ATT. Connecting links are "cotter" style for all sizes above 100 ATT.

48

Attachment Roller Chain

ANSI | Double Pitch | Attachment | ATT



SY Chain No.	Dimension - mm													Average Tensile Strength	Average Chain Weight
	Pitch P	Roller			Pin							Plate			
		Width W	Roller Type	Dia. R	Dia. D	Length						Height	Thickness		
						L_R	L_C	L_1	L_2	L_3	L_4	H	T	kN	kg/m
SY C2040	25.40	7.95	S	7.92	3.96	16.6	18.3	8.3	10.0	9.5	16.8	11.4	1.5	16.90	0.48
SY C2042			R	15.88											0.82
SY C2050	31.75	9.53	S	10.16	5.08	20.5	22.2	10.2	12.0	11.9	21.1	15.0	2.0	27.50	0.82
SY C2052			R	19.05											1.26
SY C2060H	38.10	12.70	S	11.91	5.95	28.8	31.0	14.4	16.6	14.3	27.5	17.0	3.2	40.20	1.38
SY C2062H			R	22.23											2.08
SY C2080H	50.80	15.88	S	15.88	7.93	36.4	38.8	17.8	21.0	19.1	35.6	22.6	4.0	68.60	2.32
SY C2082H			R	28.58											3.36
SY C2100H	63.50	19.05	S	19.05	9.53	42.4	46.0	21.2	24.8	23.8	43.2	28.6	4.8	107.90	3.46
SY C2102H			R	39.67											5.64
SY C2120H	76.20	25.40	S	22.23	11.10	52.8	57.2	26.4	30.8	28.6	53.0	34.9	5.6	151.00	4.92
SY C2122H			R	44.45											7.87
SY C2160H	101.60	31.75	S	28.58	14.28	67.9	73.1	34.0	39.1	38.1	69.0	47.6	7.2	257.90	8.02
SY C2162H			R	57.15											12.77

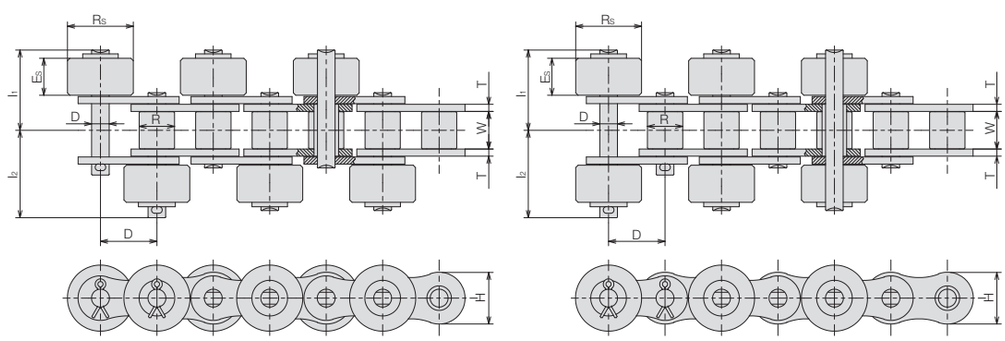
SY Chain No.	Dimensions - mm															Additional Weight
	M	d	N	S	X	A-1, A-2		K-1, K-2		SA-1, SK-1		SA-2, SK-2			GK-1	D-1
						J	K	2J	2K	C1	d1	C2	d2	N	Dg	g/pc
SY C2040	19.1	3.6	9.5	9.1	19.8	12.7	19.1	25.4	38.2	11.1	5.2	13.5	3.6	9.5	4.1	0.9
SY C2042																
SY C2050	23.8	5.2	11.9	11.1	24.6	15.9	24.2	31.8	48.4	14.3	6.8	15.9	5.2	11.9	6.4	1.8
SY C2052																
SY C2060H	28.6	5.2	14.3	14.7	30.6	21.4	31.2	42.8	62.4	17.5	8.7	19.1	5.2	14.3	6.4	3
SY C2062H																
SY C2080H	38.1	6.8	19.1	19.1	40.2	27.8	40.6	55.6	81.2	22.2	10.3	25.4	6.8	19.1	8.1	7
SY C2082H																
SY C2100H	47.6	8.8	23.8	23.4	50.3	33.3	50.0	66.6	100.0	28.6	14.0	31.8	8.8	23.8	10.1	12
SY C2102H																
SY C2120H	57.2	10.5	28.6	27.8	61.1	39.7	61.9	79.4	123.8	33.3	16.0	37.3	10.5	28.6	12.1	20
SY C2122H																
SY C2160H	76.2	14.0	38.1	36.5	76.2	52.4	76.1	104.8	152.2	44.5	21.0	50.8	14.0	38.1	-	44
SY C2162H																

"Cotter" style is standard for ANSI Double Pitch connecting links. Roller Type "S" indicates a standard roller. Roller Type "R" indicates an oversized carrier roller. Roller Type "R" can be manufactured with plastic oversized carrier rollers.

Side Roller Chain

ANSI | Single Pitch | Attachment | SR

"SR" type roller chains are often used on accumulating conveyors. The side rollers may be staggered or parallel, with any spacing configuration. Roller materials are available in carbon steel or low friction plastic.



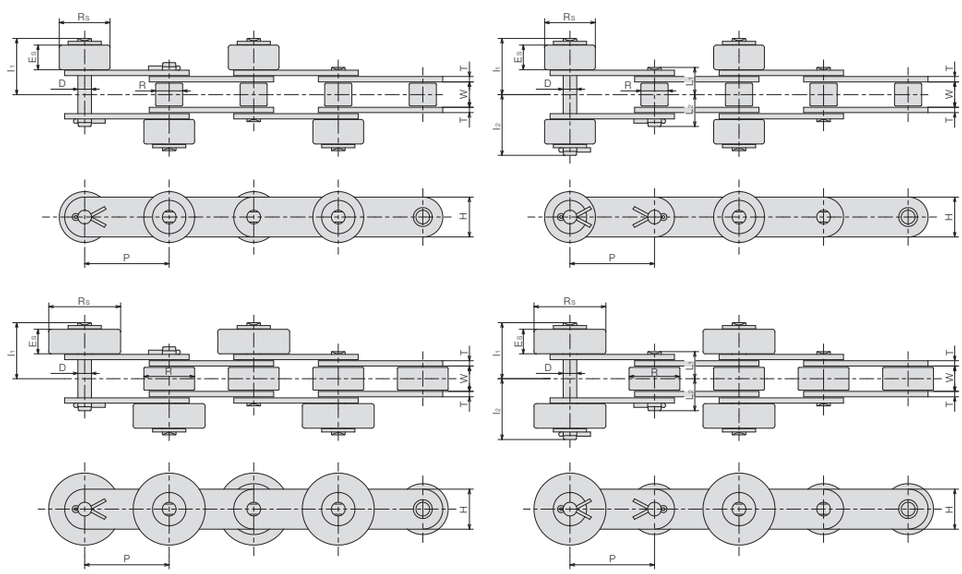
SY Chain No.	Dimensions - mm												Average Chain Weight
	Pitch P	Roller		Pin			Plate		Side Roller				
		Width W	Dia. R	Dia. D	Length		Height	Thick.	Dia.	Width	Pin-Length		
					L_1	L_2	H	T	Rs	Es	l_1	l_2	kg/m
SY 40-1 SR	12.70	7.95	7.92	3.96	8.3	9.4	11.7	1.5	15.88	7.6	17.3	19.1	0.86
SY 50-1 SR	15.875	9.53	10.16	5.08	10.2	11.8	14.6	2.0	19.05	9.2	21.4	23.1	1.40
SY 60-1 SR	19.05	12.70	11.91	5.95	12.8	14.1	17.5	2.4	22.23	12.5	27.9	30.0	1.93
SY 80-1 SR	25.40	15.88	15.88	7.93	16.4	19.1	23.4	3.2	28.58	15.6	34.8	37.8	3.30
SY 100-1 SR	31.75	19.05	19.05	9.53	19.7	23.3	29.3	4.0	39.67	18.5	41.9	45.5	3.57

SR type chain can be manufactured with plastic oversized carrier rollers.

Side Roller Chain

ANSI | Double Pitch | Attachment | SR

"SR" type roller chains are often used on accumulating conveyors. The side rollers may be staggered or parallel, with any spacing configuration. Roller materials are available in carbon steel or low friction plastic.



SY Chain No.	Dimension - mm													Average Chain Weight
	Pitch P	Roller			Pin			Plate		Side Roller				
		Width W	Roller Type	Dia. R	Dia. D	Length		Height	Thickness	Dia.	Width	Pin-Length		
						L_1	L_2	H	T	Rs	Es	l1	l2	kg/m
SY C2040 SR	25.40	7.95	S	7.92	3.96	8.3	10.0	11.4	1.5	15.88	7.6	17.3	19.1	0.61
SY C2042 SR			R	15.88						23.00				1.20
SY C2050 SR	31.75	9.53	S	10.16	5.08	10.2	12.0	15.0	2.0	19.05	9.2	21.4	23.1	1.01
SY C2052 SR			R	19.05						27.00				1.65
SY C2060H SR	38.10	12.70	S	11.91	5.95	14.4	16.6	17.0	3.2	22.23	12.5	29.5	31.6	1.65
SY C2062H SR			R	22.23						30.00				2.60
SY C2080H SR	50.80	15.88	S	15.88	7.93	17.8	21.0	22.6	4.0	28.58	15.6	36.5	39.5	2.74
SY C2100H SR	63.50	19.05	R	19.05	9.53	21.2	24.8	28.6	4.8	39.67	18.5	43.4	47.0	4.15

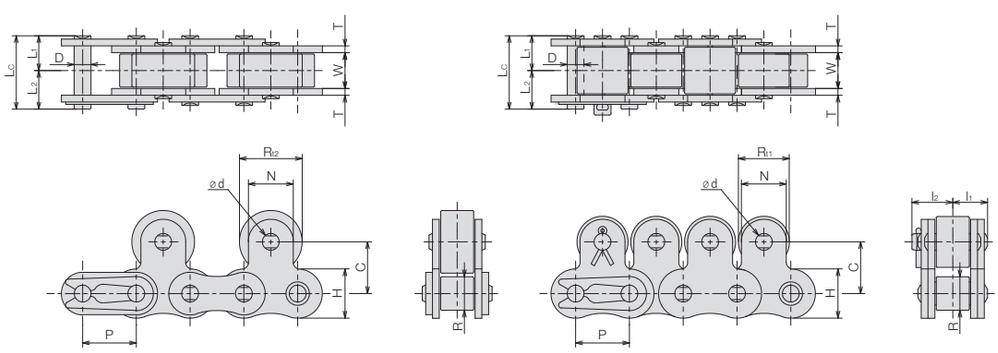
Roller Type "S" indicates a standard roller. Roller Type "R" indicates an oversized carrier roller. Roller Type "R" can be manufactured with plastic oversized carrier rollers.

51

Top Roller Chain

ANSI | Single Pitch | Attachment | TR

"TR" type roller chains are based on SUGIYAMA standard roller chains with extra rollers mounted on top of the chain. Top rollers are installed on the pins that connect SK-1 extended attachment plates. The rollers are available in carbon steel, stainless steel, or low friction plastic.



SY Chain No.	Dimension - mm											Average Chain Weight
	Pitch P	Roller		Pin			Plate		Top-Roller			
		Width W	Dia. R	Dia. D	Length		Height	Thickness	Position	Dia.		
					L_1	L_2	H	T	C	R_{t1}	R_{t2}	kg/m
SY 40-1 TR	12.70	7.95	7.92	3.96	8.3	9.4	11.7	1.5	12.7	11.00	15.88	1.10
SY 50-1 TR	15.875	9.53	10.16	5.08	10.2	11.8	14.6	2.0	15.9	15.00	19.05	1.61
SY 60-1 TR	19.05	12.70	11.91	5.95	12.8	14.1	17.5	2.4	18.3	18.00	22.23	2.80
SY 80-1 TR	25.40	15.88	15.88	7.93	16.4	19.1	23.4	3.2	24.6	24.00	28.58	4.60

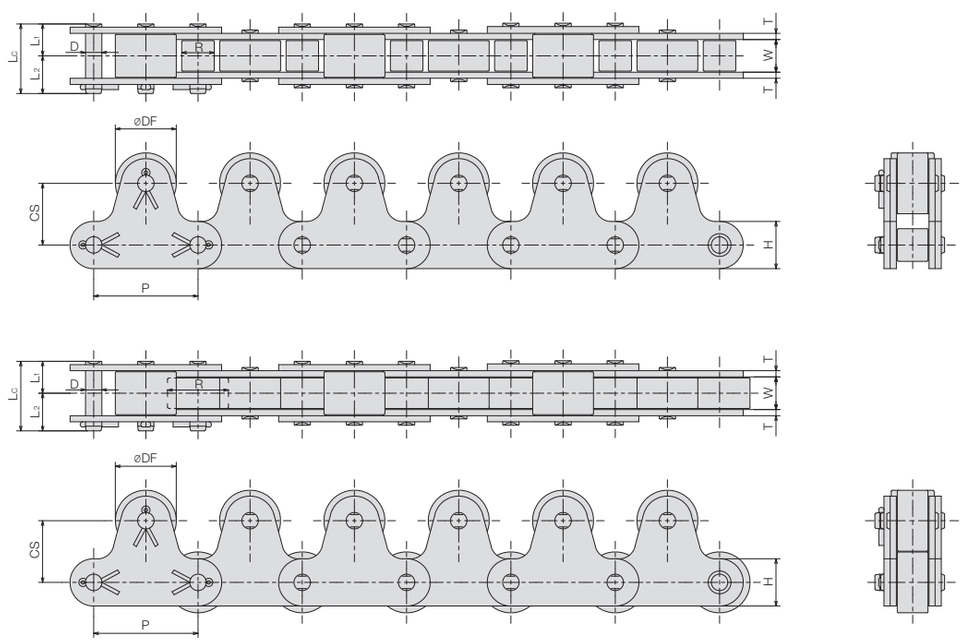
TR type chain can be manufactured with plastic oversized carrier rollers.

52

Top Roller Chain

ANSI | Double Pitch | Attachment | TR

"TR" type roller chains are based on SUGIYAMA standard roller chains with extra rollers mounted on top of the chain. Top rollers are installed on the pins that connect SK-1 extended attachment plates. The rollers are available in carbon steel, stainless steel, or low friction plastic.



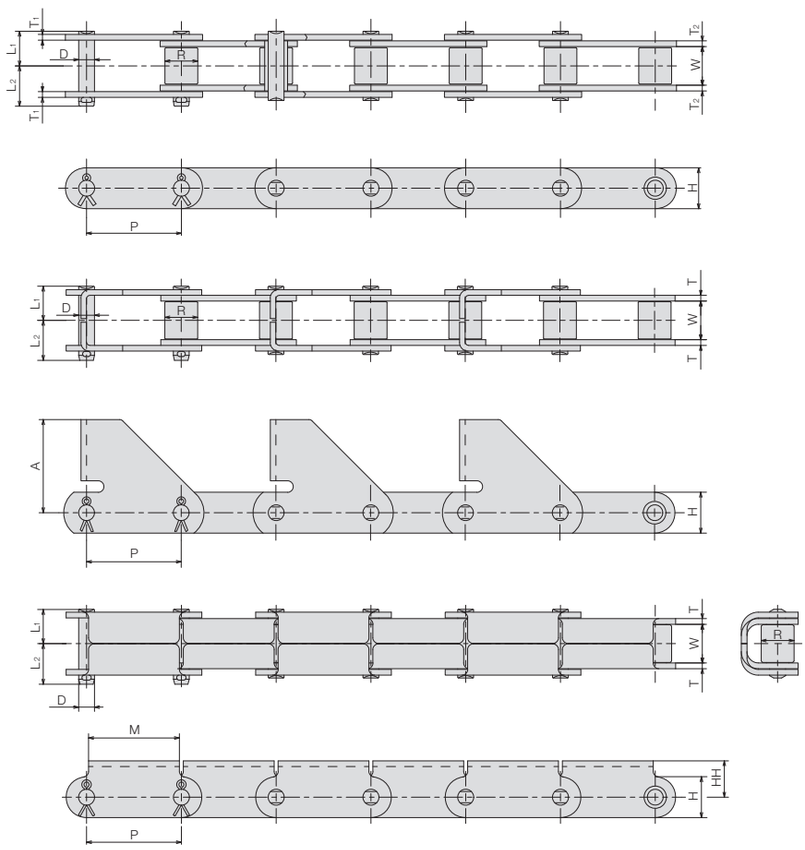
SY Chain No.	Dimension - mm											Average Chain Weight
	Pitch P	Roller			Pin			Plate		Top-Roller		
		Width W	Roller Type	Dia. R	Dia. D	Length		Height	Thickness	Position	Dia.	
						L_1	L_2	H	T	CS	DF	kg/m
SY C2040 TR	25.40	7.95	S	7.92	3.96	8.3	10.0	11.4	1.5	15.0	15.88	1.29
SY C2042 TR	25.40	7.95	R	15.88	3.96	8.3	10.0	11.4	1.5	15.0	15.88	1.61
SY C2050 TR	31.75	9.53	S	10.16	5.08	10.2	12.0	15.0	2.0	19.0	19.05	1.99
SY C2052 TR	31.75	9.53	R	19.05	5.08	10.2	12.0	15.0	2.0	19.0	19.05	2.50
SY C2060H TR	38.10	12.70	S	11.91	5.95	14.4	16.6	17.0	3.2	23.0	22.23	3.50
SY C2062H TR	38.10	12.70	R	22.23	5.95	14.4	16.6	17.0	3.2	23.0	22.23	4.30
SY C2080H TR	50.80	15.88	S	15.88	7.93	17.8	21.0	22.6	4.0	29.0	28.58	5.30
SY C2082H TR	50.80	15.88	R	28.58	7.93	17.8	21.0	22.6	4.0	29.0	28.58	6.50
SY C2100H TR	63.50	19.05	S	19.05	9.53	21.2	24.8	28.6	4.8	35.4	39.67	8.60
SY C2102H TR	63.50	19.05	R	39.67	9.53	21.2	24.8	28.6	4.8	35.4	39.67	10.70

Roller Type "S" indicates a standard roller. Roller Type "R" indicates an oversized carrier roller. Roller Type "R" can be manufactured with plastic oversized carrier rollers.

53

Engineering Chain

- | - | Speciality | 81X



SY Chain No.	Dimension - mm									Average Tensile Strength	Approx. Weight
	Pitch P	Roller		Pin			Plate				
		Width W	Dia. R	Dia. D	Length		Height	Thickness			
					L_1	L_2	H	T_1	T_2	kN	kg/m
81X					24.0	28.4	28.6	3.9	3.9	110.00	3.9
81XH	66.27	27.0	23.0	11.10	30.2	34.1	32.1	5.5	8.0	187.00	5.8
81XH-S					32.0	36.3	32.1	8.0	8.0	187.00	6.8

SY Chain No.	Dimension - mm									Average Tensile Strength	Approx. Weight
	Pitch P	Roller		Pin			Plate				
		Width W	Dia. R	Dia. D	Length		Height		Thickness		
					L_1	L_2	H	A	T	kN	kg/m
81X Pusher	66.27	27.0	23.0	11.10	24.0	28.4	28.6	65.1	3.9	110.00	5.5

SY Chain No.	Dimension - mm										Average Tensile Strength	Approx. Weight
	Pitch P	Roller		Pin			Plate		Roof Width	Roof Height		
		Width W	Dia. R	Dia. D	Length		Height	Thickness				
					L_1	L_2	H	T	M	HH	kN	kg/m
81X Roof Top	66.27	27.0	23.0	11.10	24.0	28.4	28.6	3.9	63.5	25.4	110.00	5.5