

Premium Standard Roller Chain

ANSI | Single Pitch | Standard | SBR

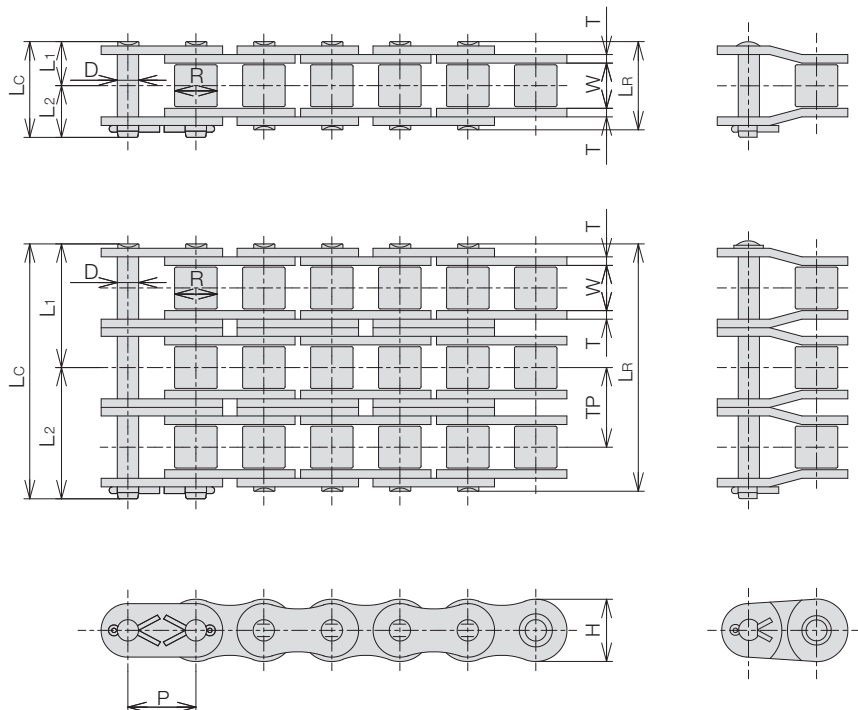
BS Single Pitch

ANSI Single Pitch

ANSI Double Pitch

ENGL. 81X

Technical Information

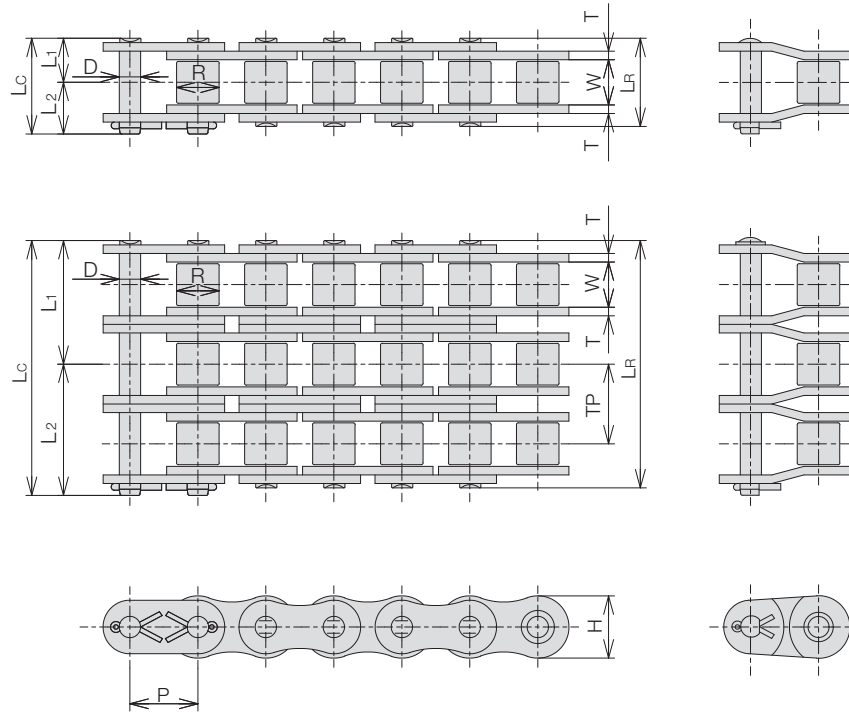


SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch P	Roller		Dia. D	Pin				Plate		Trans. Pitch			
		Width W	Dia. R		Dia. L _R	Length L _C	L ₁	L ₂	Height H	Thickness T				
SY 80-1	25.40	15.88	15.88	7.93	33.0	35.5	16.4	19.1	23.4	3.2	29.3	78.50	19.10	2.52
SY 80-2					61.6	64.5	30.8	33.7				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	35.8	118.00	29.40	3.91
SY 100-2					75.1	78.8	37.6	41.2				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	45.4	167.00	39.50	5.76
SY 120-2					94.9	98.8	47.5	51.3				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	48.9	216.00	52.30	7.41
SY 140-2					102.9	107.2	51.5	55.7				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.

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SY Chain No.	Dimension - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight	
	Pitch P	Roller		Dia. D	Pin				Plate		Trans. Pitch				
		Width W	Dia. R		Height	Thickness	Length	H	T						
					L _R	L _C	L ₁	L ₂							
SY 160-1	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					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				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	65.8	-	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				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	71.6	-	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				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	87.8	-	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				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.

Technical Information