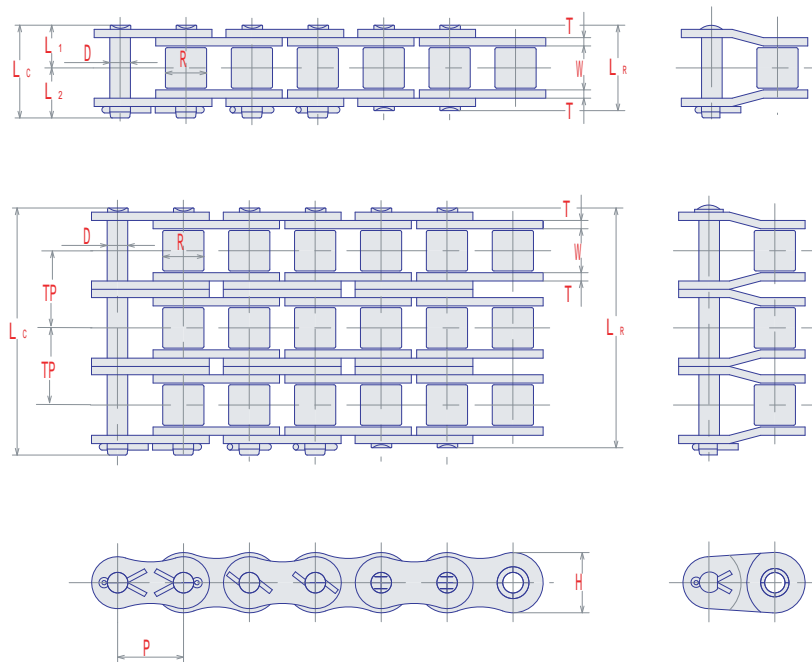


# Heavy Series Roller Chains (H Series)

SY H-series roller chains are provided with greater shock and wear resistance and high breaking strength for general purpose applications. The side plate thickness is equal to the next larger ANSI roller chains and through-hardened high-tensile structural steel pins realize strong power transmission in limited equipment space, showing excellent shock absorption and fatigue strength and high ultimate strength of as much as 110-120 percent.

Single roller chains of this series run on standard single roller chain sprockets.



## SINGLE STRANDS

SY Chain No.	Dimensions - mm										Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight	Type of Conn Link
	Pitch	Roller		Pin				Plate						
		Width	Dia.	Dia.	Length		Height	Thick.						
P	W	R	D	LR	LC	L1	L2	H	T	kN	kN	kg/m		
SY 60H	19.05	12.70	11.91	5.95	28.8	30.8	14.4	16.4	17.5	3.2	54.9	10.7	1.80	C
SY 80H	25.40	15.88	15.88	7.93	35.7	38.7	17.9	20.8	23.4	4.0	90.2	18.4	2.81	
SY100H	31.75	19.05	19.05	9.53	42.4	45.9	21.2	24.7	29.3	4.8	137	28.3	4.14	
SY120H	38.10	25.40	22.23	11.10	52.8	57.2	26.4	30.8	35.1	5.6	186	38.0	5.83	
SY140H	44.45	25.40	25.40	12.70	57.2	61.8	28.6	33.2	40.9	6.4	241	50.3	8.41	
SY160H	50.80	31.75	28.58	14.28	67.9	73.0	34.0	39.0	46.7	7.2	306	66.3	10.86	
SY180H	57.15	35.70	35.70	17.45	75.6	81.5	37.8	43.7	52.5	8.0	373	70.6	15.18	
SY200H	63.50	38.10	39.67	19.83	84.8	93.4	42.4	51.0	59.8	9.5	520	82.3	17.85	
SY240H	76.20	47.63	47.63	23.78	109.8	118.2	54.9	63.3	70.3	12.7	726	112.8	32.29	

Refer to page 80. " Selection of offset link "

MULTIPLE STRANDS

SY Chain No.	Dimensions - mm											Average Ultimate Strength kN	Maximum Allowable Load kN	Average Chain Weight kg/m
	Pitch	Roller		Pin				Plate		Trans. Pitch				
		Width	Dia.	Dia.	Length			Height	Thick.					
	P	W	R	D	LR	LC	L1	L2	H	T	TP			
SY 60H-2	19.05	12.70	11.91	5.95	54.9	57.0	27.4	29.6	17.5	3.2	26.1	110	15.2	3.59
SY 60H-3					80.6	83.1	40.3	42.8				165	22.3	5.39
SY 60H-4					107.1	109.3	53.6	55.7				220	29.4	7.18
SY 80H-2	25.40	15.88	15.88	7.93	68.4	71.3	34.2	37.1	23.4	4.0	32.6	180	25.8	5.54
SY 80H-3					101.0	104.0	50.5	53.5				271	38.0	8.26
SY 80H-4					133.6	136.7	66.8	69.9				361	50.2	10.98
SY 80H-5					166.2	169.3	83.1	86.2				451	59.3	13.71
SY 80H-6					198.8	201.9	99.4	102.5				541	69.9	16.43
SY 80H-8					264.0	267.1	132.0	135.1				722	94.2	21.88
SY100H-2	31.75	19.05	19.05	9.53	81.6	85.0	40.8	44.2	29.3	4.8	39.1	274	39.1	8.20
SY100H-3					120.7	124.4	60.4	64.0				414	57.5	12.26
SY100H-4					159.4	163.2	79.7	83.5				548	75.9	16.33
SY100H-5					198.5	202.3	99.3	103.0				685	89.7	20.39
SY100H-6					238.2	241.8	119.1	122.7				822	106	24.45
SY100H-8					316.4	320.0	158.2	161.8				1096	143	32.58
SY100H-10					394.6	398.2	197.3	200.9				1370	173	40.70
SY120H-2	38.10	25.40	22.23	11.10	102.0	106.1	51.0	55.1	35.1	5.6	48.9	372	53.4	11.56
SY120H-3					150.6	154.6	75.3	79.3				558	78.5	17.29
SY120H-4					199.2	203.2	99.6	103.6				744	104	23.02
SY120H-5					247.8	252.6	123.9	128.7				930	123	28.75
SY120H-6					297.6	301.9	148.8	153.1				1116	144	34.48
SY120H-8					395.4	399.7	197.7	202.0				1488	195	45.94
SY120H-10					493.2	497.5	246.6	250.9				1860	236	57.40
SY140H-2	44.45	25.40	25.40	12.70	109.4	114.0	54.7	59.3	40.9	6.4	52.2	482	70.0	16.59
SY140H-3					161.8	166.4	80.9	85.5				723	103	24.77
SY140H-4					214.0	218.7	107.0	111.7				964	136	32.96
SY140H-5					266.2	270.9	133.1	137.8				1205	161	41.15
SY140H-6					318.4	323.1	159.2	163.9				1446	190	49.33
SY140H-8					422.8	427.5	211.4	216.1				1928	255	65.78
SY160H-2	50.8	31.75	28.58	14.28	129.8	134.9	64.9	70.0	46.7	7.2	61.9	612	93.3	21.21
SY160H-3					191.8	196.8	95.9	100.9				918	137	31.54
SY160H-4					253.7	258.8	126.9	131.9				1224	181	41.89
SY160H-6					377.5	382.6	188.8	193.8				1836	253	62.58
SY180H-2	57.15	35.70	35.70	17.45	144.2	149.8	72.1	77.7	52.5	8.0	68.6	746	102	31.06
SY180H-3					212.8	218.7	106.4	112.3				1119	149	44.94
SY180H-4					281.4	287.4	140.7	146.7				1492	197	59.83
SY200H-2	63.50	38.10	39.67	19.84	163.1	172.0	81.6	90.4	59.8	9.5	78.3	1040	127	35.20
SY200H-3					241.4	250.3	120.7	129.6				1560	186	62.53
SY200H-4					319.8	328.4	159.9	168.7				2080	246	69.94
SY240H-2	76.20	47.63	47.63	23.78	211.0	219.4	105.5	113.9	70.3	12.7	101.2	1452	173	62.06
SY240H-3					312.2	320.6	156.1	164.5				2178	255	91.82
SY240H-4					413.4	421.8	206.7	215.1				2904	336	121.58