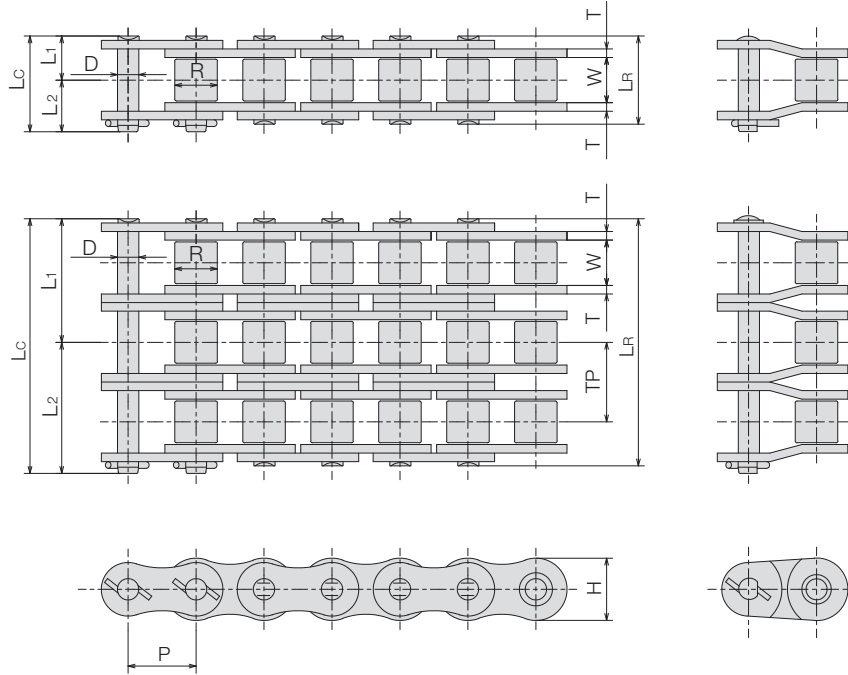


HE Roller Chain

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.



BS Single Pitch

ANSI Single Pitch

ANSI Double Pitch

ENGL. 81X

Technical Information

SY Chain No.	Pitch P	Dimension - mm										Average Tensile Strength κN	Maximum Allowable Load κN	Average Chain Weight kg/m
		Roller		Pin				Plate		Trans. Pitch TP				
		Width W	Dia. R	Dia. D	Length				Height H		Thickness T			
			LR	LC	L1	L2								
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 multiple strand chains with semi press-fit center plate construction. HE type chains are designed to be used with standard sprockets. HE type multiple 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.