



# ROLLER CHAIN

HIGH QUALITY CHAIN

PRE-STRESSED

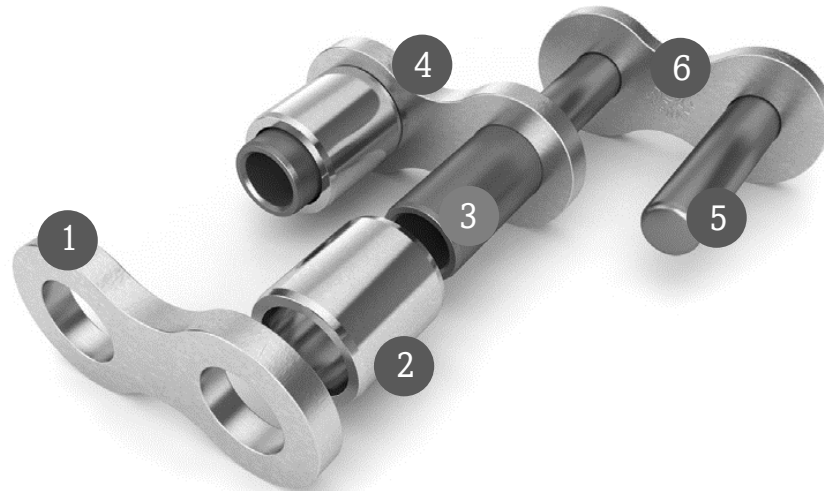
FATIGUE RESISTANT

WEAR RESISTANT



# PRODUCT OVERVIEW

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1. Outer Plate
2. Roller
3. Bush
4. Inner Plate
5. Pin
6. Outer Plate

### **Plate**

The plate bears the tension placed on the chain. Because the accuracy of the holes into which pins or bushes are fit affects chain quality, plates are manufactured with particular precision and finished into tough plates with high fatigue strength and impact resistance.

### **Pin**

The two ends of the pin are inserted into holes in the outer plates and riveted in place. For Hollow Pin Chain and Poly Steel Chain, they are inserted only. Because the pins are subject to shearing and bending forces via the plates, and because the bushes rotate and slide along the pins as the chain articulates, they are manufactured with an emphasis on strength and abrasion resistance.

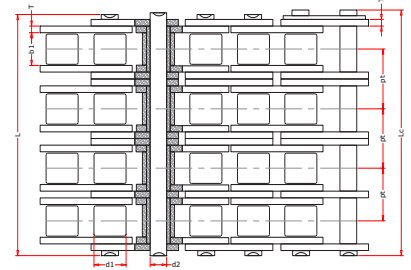
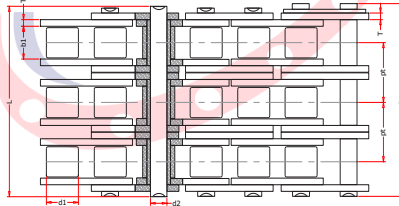
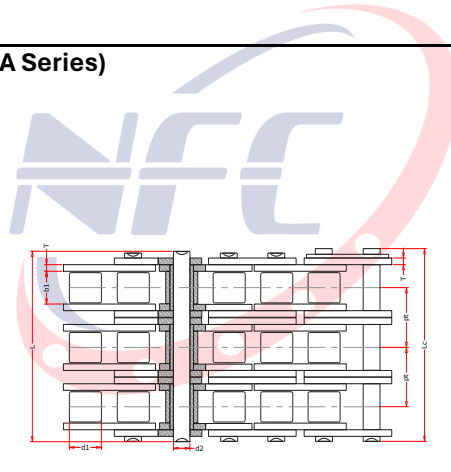
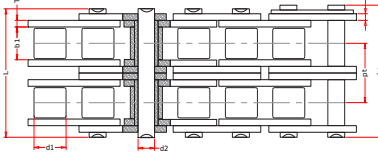
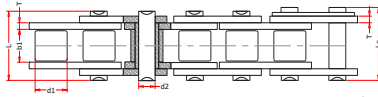
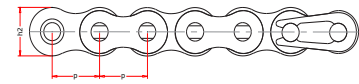
### **Bush**

The two ends of the bushes are inserted into the inner plate and function as bearings for the pins and rollers. They are subject to complex forces through the various parts, and are finished to specifications having high wear resistance.

### **Roller**

Rollers are slip fit onto the bushes, and lighten mechanical shock when the chain engages the sprocket. In addition, they serve to reduce running resistance by turning while the chain is in motion, making the chain run smoothly. Abrasion resistance is important.

Part Name	Heat Treatment	Material	Chemical Components
Plate	Quenching and Tempering	GB 40Mn AISI/SAE 1039 BS 150M36 DIN 40Mn4	C: 0.37~0.44 Si: 0.17 ~ 0.37 Mn: 0.70 ~ 1.00 S : ≤0.035 P : ≤0.035 Cr: ≤0.25 Ni: ≤0.30 Cu: ≤0.25
Pin	Carburizing and Quenching	GB 40Cr JIS SCr440 ASTM 5140 ISO 41Cr4	C:0.37~0.44 Si:0.17~0.37 Mn:0.50~0.80 Cr:0.80~1.10 Ni:≤0.30 P:≤0.035 S:≤0.035 Cu:≤0.030 Mo:≤0.10
Bush	Carburizing and Quenching	GB 20Cr AISI 5120 JIS SCr420 GB 20Cr DIN 20Cr4	C: 0.18 ~ 0.24 Si: 0.17 ~ 0.37 Mn: 0.50 ~ 0.80 Cr: 0.70 ~ 1.00 S: ≤0.035 P: ≤0.035 Ni: ≤0.30 Cu: ≤0.30 Mo: ≤0.15
Roller	Carburizing and Quenching	GB 40Cr JIS SCr440 ASTM 5140 ISO 41Cr4	C:0.37~0.44 Si:0.17~0.37 Mn:0.50~0.80 Cr:0.80~1.10 Ni:≤0.30 P:≤0.035 S:≤0.035 Cu:≤0.030 Mo:≤0.10

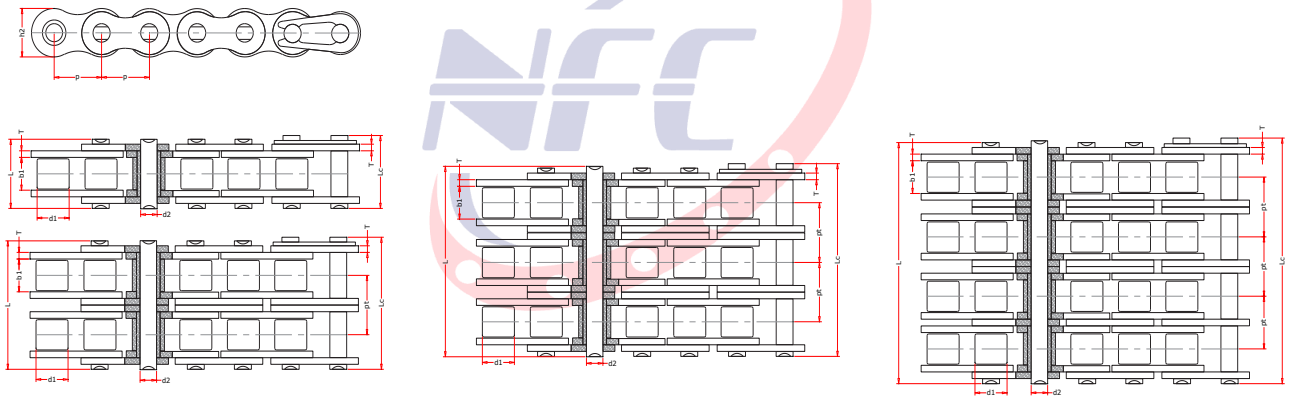


Chain No.		Pitch	Roller diameter	Width between inner plates	Pin diameter	Width over bearing pins	Width over connecting pins	Inner plates depth	Transverse pitch	Plate thickness	Ultimate tensile strength	Average tensile strength	Mass per meter
GB ISO DIN	ANSI	p mm	d1 max mm	b1 min mm	d2 max mm	L max mm	Lc max mm	h2 max mm	pt mm	T mm	Fu min Kn	Fua kN	q <sup>2</sup> kg/m
*04C-1	*25	6.35	3.30	3.10	2.31	9.10	11.60	6.02		0.76	3.50	4.40	0.15
*06C-1	*35	9.53	5.08	4.68	3.60	13.20	16.50	9.05		1.27	7.90	10.30	0.33
08A-1	40	12.70	7.92	7.85	3.98	17.80	21.70	12.07		1.52	13.90	17.00	0.60
085-1	41	12.70	7.77	6.25	3.60	14.00	16.00	9.91		1.30	6.70	12.00	0.41
10A-1	50	15.88	10.16	9.40	5.09	21.80	25.90	15.09		2.03	21.80	28.00	1.00
12A-1	60	19.05	11.91	12.57	5.96	26.90	31.50	18.10		2.39	31.30	40.00	1.50
16A-1	80	25.40	15.88	15.75	7.94	33.50	38.90	24.13		3.18	55.60	66.00	2.60
20A-1	100	31.75	19.05	18.90	9.54	41.10	47.20	30.17		3.96	87.00	104.00	3.70
24A-1	120	38.10	22.23	25.22	11.11	50.80	57.40	36.20		4.75	125.00	148.00	5.50
28A-1	140	44.45	25.40	25.22	12.71	54.90	62.30	42.23		5.56	170.00	201.00	7.50
32A-1	160	50.80	28.58	31.55	14.29	65.50	73.40	48.26		6.35	223.00	265.00	9.70
36A-1	180	57.15	35.71	35.48	17.46	73.90	83.00	54.30		7.14	281.00	325.00	13.45
40A-1	200	63.50	39.68	37.85	19.85	80.30	90.50	60.33		7.92	347.00	410.00	15.60
48A-1	240	76.20	47.63	47.35	23.81	95.50	106.00	72.39		9.52	500.00	591.00	22.60
*04C-2	*25-2	6.35	3.30	3.10	2.31	15.50	18.00	6.02	6.40	0.76	7.00	8.20	0.28
*06C-2	*35-2	9.53	5.08	4.68	3.60	23.40	26.70	9.05	10.13	1.27	15.80	18.70	0.63
08A-2	40-2	12.70	7.92	7.85	3.98	32.30	36.20	12.07	14.38	1.52	27.80	34.00	1.20
10A-2	50-2	15.88	10.16	9.40	5.09	39.90	44.00	15.09	18.11	2.03	43.60	55.00	1.90
12A-2	60-2	19.05	11.91	12.57	5.96	49.80	54.40	18.10	22.78	2.39	62.60	80.00	2.90
16A-2	80-2	25.40	15.88	15.75	7.94	62.70	68.10	24.13	29.29	3.18	111.20	135.00	5.00
20A-2	100-2	31.75	19.05	18.90	9.54	77.00	83.10	30.17	35.76	3.96	174.00	208.00	7.30
24A-2	120-2	38.10	22.23	25.22	11.11	96.30	102.90	36.20	45.44	4.75	250.00	299.00	10.90
28A-2	140-2	44.45	25.40	25.22	12.71	103.60	111.00	42.23	48.87	5.56	340.00	406.00	14.40
32A-2	160-2	50.80	28.58	31.55	14.29	124.20	132.10	48.26	58.55	6.35	446.00	534.00	19.00
36A-2	180-2	57.15	35.71	35.48	17.46	140.00	149.10	54.30	65.84	7.14	562.00	660.00	26.52
40A-2	200-2	63.50	39.68	37.85	19.85	151.90	162.10	60.33	71.55	7.92	694.00	834.00	32.00
48A-2	240-2	76.20	47.63	47.35	23.81	183.40	193.90	72.39	87.83	9.52	1,000.00	1,193.00	44.00
*04C-3	*25-3	6.35	3.30	3.10	2.31	21.80	24.30	6.02	6.40	0.76	10.50	12.00	0.44
*06C-3	*35-3	9.53	5.08	4.68	3.60	33.50	36.80	9.05	10.13	1.27	23.70	27.20	1.05
08A-3	40-3	12.70	7.92	7.85	3.98	46.70	50.60	12.07	14.38	1.52	41.70	47.50	1.80
10A-3	50-3	15.88	10.16	9.40	5.09	57.90	62.00	15.09	18.11	2.03	65.40	74.00	2.90
12A-3	60-3	19.05	11.91	12.57	5.96	72.60	77.20	18.10	22.78	2.39	93.90	106.00	4.30
16A-3	80-3	25.40	15.88	15.75	7.94	91.90	97.30	24.13	29.29	3.18	166.80	188.50	7.50
20A-3	100-3	31.75	19.05	18.90	9.54	113.00	119.10	30.17	35.76	3.96	261.00	294.00	11.00
24A-3	120-3	38.10	22.23	25.22	11.11	141.70	148.30	36.20	45.44	4.75	375.00	415.00	16.50
28A-3	140-3	44.45	25.40	25.22	12.71	152.40	159.80	42.23	48.87	5.56	510.00	564.00	21.70
32A-3	160-3	50.80	28.58	31.55	14.29	182.90	190.80	48.26	58.55	6.35	669.00	742.00	28.30
36A-3	180-3	57.15	35.71	35.48	17.46	206.00	215.10	54.30	65.84	7.14	843.00	934.00	38.22
40A-3	200-3	63.50	39.68	37.85	19.85	223.50	233.70	60.33	71.55	7.92	1,041.00	1,157.00	48.00
48A-3	240-3	76.20	47.63	47.35	23.81	271.30	281.80	72.39	87.83	9.52	1,500.00	1,699.00	66.00
16A-4	80-4	25.40	15.88	15.75	7.94	121.40	126.80	24.13	29.29	3.18	222.40	237.00	10.50
16A-5	80-5	25.40	15.88	15.75	7.94	150.70	156.10	24.13	29.29	3.18	278.00	296.00	13.11
16A-6	80-6	25.40	15.88	15.75	7.94	180.00	185.40	24.13	29.29	3.18	333.60	356.00	15.73
20A-4	100-4	31.75	19.05	18.90	9.54	148.40	154.50	30.17	35.76	3.96	348.00	370.00	15.70
20A-5	100-5	31.75	19.05	18.90	9.54	184.10	190.20	30.17	35.76	3.96	435.00	462.00	19.53
20A-6	100-6	31.75	19.05	18.90	9.54	219.90	226.00	30.17	35.76	3.96	522.00	555.00	23.48
24A-4	120-4	38.10	22.23	25.22	11.11	187.10	193.70	36.20	45.44	4.75	500.00	531.00	23.36
24A-5	120-5	38.10	22.23	25.22	11.11	232.60	239.20	36.20	45.44	4.75	625.00	664.00	29.16
24A-6	120-6	38.10	22.23	25.22	11.11	278.00	284.60	36.20	45.44	4.75	750.00	796.00	34.96

# NFC Roller Chain

## Short Pitch Precision Roller Chain (A Series)

ANSI B29.1, ISO R606, DIN 8188



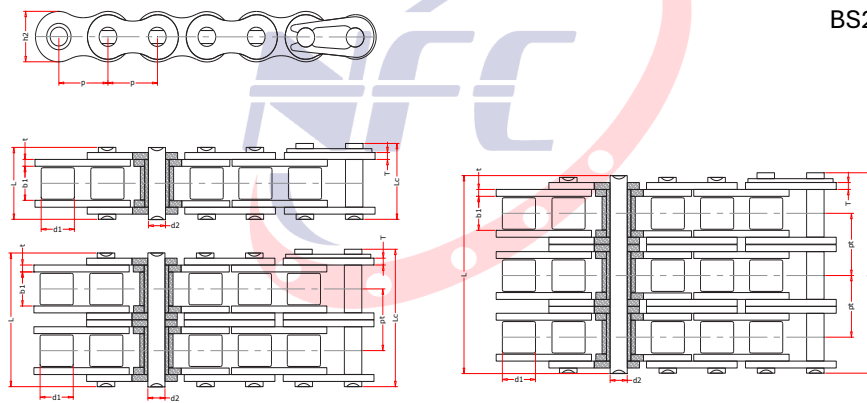
Chain No.		Pitch	Roller diameter	Width between inner plates	Pin diameter	Width over bearing pins	Width over connecting pins	Inner plates depth	Transverse pitch	Plate thickness	Ultimate tensile strength	Average tensile strength	Mass per meter
GB ISO DIN	ANSI	p mm	d1 max mm	b1 min mm	d2 max mm	L max mm	Lc max mm	h2 max mm	pt mm	T mm	Fu min Kn	Fua kN	q <sup>2</sup> kg/m
28A-4	140-4	44.45	25.40	25.22	12.71	201.50	208.90	42.23	48.87	5.56	680.00	720.00	28.52
28A-5	140-5	44.45	25.40	25.22	12.71	250.40	257.80	42.23	48.87	5.56	850.00	900.00	36.97
28A-6	140-6	44.45	25.40	25.22	12.71	299.30	306.70	42.23	48.87	5.56	1,020.00	1,081.00	44.30
32A-4	160-4	50.80	28.58	31.55	14.29	241.20	249.10	48.26	58.55	6.35	892.00	945.50	40.06
32A-5	160-5	50.80	28.58	31.55	14.29	299.70	307.60	48.26	58.55	6.35	1,115.00	1,182.00	49.89
32A-6	160-6	50.80	28.58	31.55	14.29	358.30	366.20	48.26	58.55	6.35	1,338.00	1,418.00	59.93

\*Bushing chain: d1 in the table indicates the external diameter of the bushing.

Also available with customized applications

**Short Pitch Precision Roller Chain (B Series)**

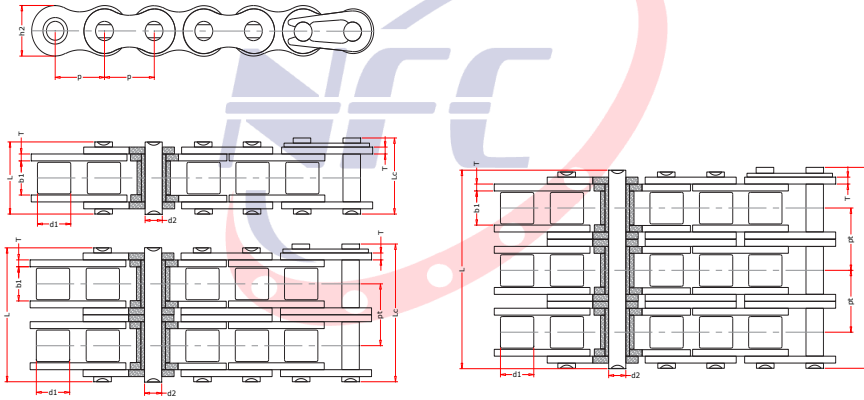
BS228, ISO R606, DIN 8187



Chain No.		Pitch	Roller diameter	Width between inner plates	Pin diameter	Width over bearing pins	Width over connecting pins	Inner plates depth	Transverse pitch	Plate thickness	Ultimate tensile strength	Average tensile strength	Mass per meter
GB ISO DIN	BS	p mm	d1 max mm	b1 min mm	d2 max mm	L max mm	Lc max mm	h2 max mm	pt mm	t/T mm	Fu min Kn	Fua kN	q <sub>≈</sub> kg/m
05B-1	05B-1	8.00	5.00	3.00	2.31	8.60	11.70	7.11		0.80	4.40	5.60	0.18
*06B-1	*06B-1	9.53	6.35	5.72	3.28	13.50	16.80	8.26		1.30	8.90	9.90	0.41
08B-1	08B-1	12.70	8.51	7.75	4.45	17.00	20.90	11.81		1.60	17.80	18.40	0.70
10B-1	10B-1	15.88	10.16	9.65	5.08	19.60	23.70	14.73		1.70	22.20	26.10	0.95
12B-1	12B-1	19.05	12.07	11.68	5.72	22.70	27.30	16.13		1.85	28.90	30.60	1.25
16B-1	16B-1	25.40	15.88	17.02	8.28	36.10	41.50	21.08		4.15/3.1	60.00	69.20	2.70
20B-1	20B-1	31.75	19.05	19.56	10.19	43.20	49.30	26.42		4.5/3.5	95.00	101.00	3.60
24B-1	24B-1	38.10	25.40	25.40	14.63	53.40	60.00	33.40		6.0/4.8	160.00	169.00	6.70
28B-1	28B-1	44.45	27.94	30.99	15.90	65.10	72.50	37.08		7.5/6.0	200.00	211.00	8.30
32B-1	32B-1	50.80	29.21	30.99	17.81	67.40	75.30	42.29		7.0/6.0	250.00	263.00	10.50
40B-1	40B-1	63.50	39.37	38.10	22.89	82.60	92.80	52.96		8.5/8.0	355.00	374.00	16.00
48B-1	48B-1	76.20	48.26	45.72	29.24	99.10	109.60	63.88		12.0/10.0	560.00	418.00	25.00
08B-2	08B-2	12.70	8.51	7.75	4.45	31.00	34.90	11.81	13.92	1.60	31.10	36.80	1.35
10B-2	10B-2	15.88	10.16	9.65	5.08	36.20	40.30	14.73	16.59	1.70	44.50	53.40	1.80
12B-2	12B-2	19.05	12.07	11.68	5.72	42.20	46.80	16.13	19.46	1.85	57.80	62.80	2.50
16B-2	16B-2	25.40	15.88	17.02	8.28	68.00	73.40	21.08	31.88	4.15/3.1	106.00	126.00	5.40
20B-2	20B-2	31.75	19.05	19.56	10.19	79.70	85.80	26.42	36.45	4.5/3.5	170.00	200.00	7.20
24B-2	24B-2	38.10	25.40	25.40	14.63	101.80	108.40	33.40	48.36	6.0/4.8	280.00	303.00	13.50
28B-2	28B-2	44.45	27.94	30.99	15.90	124.70	132.10	37.08	59.56	7.5/6.0	360.00	386.00	16.60
32B-2	32B-2	50.80	29.21	30.99	17.81	126.00	133.00	42.29	58.55	7.0/6.0	450.00	483.00	21.00
40B-2	40B-2	63.50	39.37	38.10	22.89	154.90	165.10	52.96	72.29	8.5/8.0	630.00	676.00	32.00
48B-2	48B-2	76.20	48.26	45.72	29.24	190.40	200.90	63.88	91.21	12.0/10.0	1,000.00	1,073.00	50.00
*06B-3	*06B-3	9.53	6.35	5.72	3.28	34.00	37.30	8.26	10.24	1.30	24.90	28.60	1.18
08B-3	08B-3	12.70	8.51	7.75	4.45	44.90	48.80	11.81	13.92	1.60	44.50	54.90	2.00
10B-3	10B-3	15.88	10.16	9.65	5.08	52.80	56.90	14.73	16.59	1.70	66.70	80.30	2.80
12B-3	12B-3	19.05	12.07	11.68	5.72	61.70	66.30	16.13	19.46	1.85	86.70	96.70	3.80
16B-3	16B-3	25.40	15.88	17.02	8.28	99.90	105.30	21.08	31.88	4.15/3.1	160.00	193.00	8.00
20B-3	20B-3	31.75	19.05	19.56	10.19	116.10	122.20	26.42	36.45	4.5/3.5	250.00	275.00	11.00
24B-3	24B-3	38.10	25.40	25.40	14.63	150.20	156.80	33.40	48.36	6.0/4.8	425.00	468.00	21.00
28B-3	28B-3	44.45	27.94	30.99	15.90	184.30	191.70	37.08	59.56	7.5/6.0	530.00	579.00	25.00
32B-3	32B-3	50.80	29.21	30.99	17.81	184.50	191.50	42.29	58.55	7.0/6.0	670.00	732.00	32.00
40B-3	40B-3	63.50	39.37	38.10	22.89	227.20	237.40	52.96	72.29	8.5/8.0	950.00	1,038.00	48.00
48B-3	48B-3	76.20	48.26	45.72	29.24	281.60	292.10	63.88	91.21	12.0/10.0	1,500.00	1,624.00	75.00

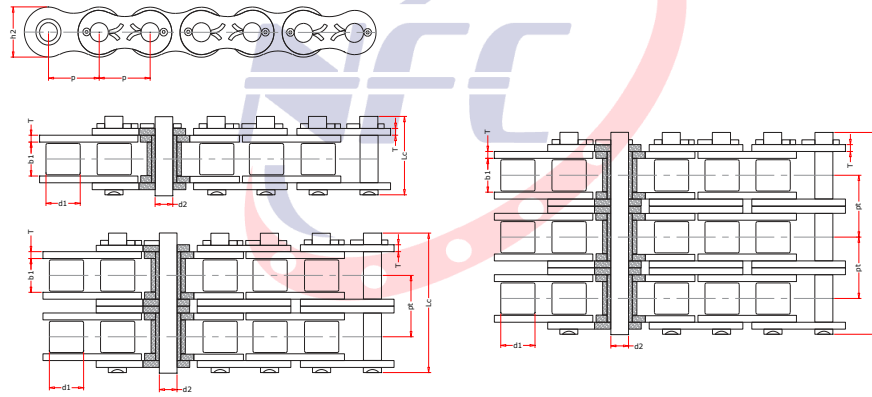
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\*Straight side plates  
Also available with customized applications



Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Width over bearing pins	Width over connecting pins	Inner plates depth	Transverse pitch	Plate thickness	Ultimate tensile strength	Average tensile strength	Mass per meter
GB ISO ANSI	p	d1 max	b1 min	d2 max	L max	Lc max	h2 max	pt	T	Fu min	Fua	q≈
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
60H	19.05	11.91	12.57	5.96	30.20	34.80	38.10	-	3.18	31.30	40.60	1.87
60H-2	19.05	11.91	12.57	5.96	56.30	60.90	18.10	26.11	3.18	62.60	80.30	3.71
60H-3	19.05	11.91	12.57	5.96	82.40	87.00	18.10	26.11	3.18	93.90	108.20	5.54
80H	25.40	15.88	15.75	7.94	37.40	42.80	24.13	-	3.96	55.60	67.80	3.10
80H-2	25.40	15.88	15.75	7.94	70.00	75.40	24.13	32.59	3.96	111.20	138.00	6.15
80H-3	25.40	15.88	15.75	7.94	102.60	108.00	24.13	32.59	3.96	166.80	193.00	9.42
100H	31.75	19.05	18.90	9.54	44.50	50.60	30.17	-	4.75	87.00	106.80	4.52
100H-2	31.75	19.05	18.90	9.54	83.60	89.70	30.17	39.09	4.75	174.00	214.00	9.03
100H-3	31.75	19.05	18.90	9.54	122.70	128.80	30.17	39.09	4.75	261.00	299.00	12.96
120H	38.10	22.23	25.22	11.11	55.00	61.60	36.20	-	5.56	125.00	153.00	6.60
120H-2	38.10	22.23	25.22	11.11	103.90	110.50	36.20	48.87	5.56	250.00	306.00	13.13
120H-3	38.10	22.23	25.22	11.11	152.80	159.40	36.20	48.87	5.56	375.00	422.00	19.64
140H	44.45	25.40	25.22	12.71	59.00	66.40	42.23	-	6.35	170.00	206.00	8.30
140H-2	44.45	25.40	25.22	12.71	111.20	118.60	42.23	52.20	6.35	340.00	416.00	16.60
140H-3	44.45	25.40	25.22	12.71	163.40	170.80	42.23	52.20	6.35	510.00	568.00	24.90
160H	50.80	28.58	31.55	14.29	69.40	77.30	48.26	-	7.14	223.00	272.00	11.20
160H-2	50.80	28.58	31.55	14.29	131.30	139.20	48.26	61.90	7.14	446.00	543.00	22.30
160H-3	50.80	28.58	31.55	14.29	193.20	201.10	48.26	61.90	7.14	669.00	748.00	33.50
180H	57.15	35.71	35.48	17.46	77.30	86.40	54.30	-	7.92	281.00	325.00	14.83
180H-2	57.15	35.71	35.48	17.46	146.50	155.60	54.30	69.16	7.92	562.00	643.00	29.60
180H-3	57.15	35.71	35.48	17.46	215.70	224.70	54.30	69.16	7.92	843.00	890.00	44.40
200H	63.50	39.68	37.85	19.85	87.10	97.30	60.33	-	9.52	347.00	422.00	19.16
200H-2	63.50	39.68	37.85	19.85	165.40	175.60	60.33	78.31	9.52	694.00	850.00	38.30
200H-3	63.50	39.68	37.85	19.85	243.70	253.90	60.33	78.31	9.52	1,041.00	1,167.00	57.46
240H	76.20	47.63	47.35	23.81	111.40	121.90	72.39	-	12.70	500.00	591.00	30.40
240H-2	76.20	47.63	47.35	23.81	212.60	223.10	72.39	101.22	12.70	1,000.00	1,167.00	60.80
240H-3	76.20	47.63	47.35	23.81	313.80	324.30	72.39	101.22	12.70	1,500.00	1,620.00	91.10

Also available with customized applications



Chain No.		Pitch	Roller diameter	Width between inner plates	Pin diameter	Width over bearing pins	Inner plates depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Mass per meter
GB ISO DIN	ANSI	p mm	d1 max mm	b1 min mm	d2 max mm	L max mm	h2 max mm	T mm	Fu min kN	Fua kN	q≈ kg/m
10A-1	50	15.88	10.16	9.40	5.09	25.90	15.09	2.03	21.80	28.00	1.02
10A-2	50-2	15.88	10.16	9.40	5.09	44.00	15.09	2.03	43.60	55.00	2.00
10A-3	50-3	15.88	10.16	9.40	5.09	62.00	15.09	2.03	65.40	74.00	3.09
12A-1	60	19.05	11.91	12.57	5.96	31.50	18.10	2.39	31.30	40.00	1.50
12A-2	60-2	19.05	11.91	12.57	5.96	54.40	18.10	2.39	62.60	80.00	2.92
12A-3	60-3	19.05	11.91	12.57	5.96	77.20	18.10	2.39	93.90	106.00	4.54
16A-1	80	25.40	15.88	15.75	7.94	38.90	24.13	3.18	55.60	66.00	2.60
16A-2	80-2	25.40	15.88	15.75	7.94	68.10	24.13	3.18	111.20	135.00	5.15
16A-3	80-3	25.40	15.88	15.75	7.94	97.30	24.13	3.18	166.80	188.50	7.89
20A-1	100	31.75	19.05	18.90	9.54	47.20	30.17	3.96	87.00	104.00	3.91
20A-2	100-2	31.75	19.05	18.90	9.54	83.10	30.17	3.96	174.00	208.00	7.80
20A-3	100-3	31.75	19.05	18.90	9.54	119.10	30.17	3.96	261.00	294.00	11.77
24A-1	120	38.10	22.23	25.22	11.11	57.40	36.20	4.75	125.00	148.00	5.62
24A-2	120-2	38.10	22.23	25.22	11.11	102.90	36.20	4.75	250.00	299.00	11.70
24A-3	120-3	38.10	22.23	25.22	11.11	148.30	36.20	4.75	375.00	415.00	17.53
28A-1	140	44.45	25.40	25.22	12.71	62.30	42.23	5.56	170.00	201.00	7.50
28A-2	140-2	44.45	25.40	25.22	12.71	111.00	42.23	5.56	340.00	406.00	15.14
28A-3	140-3	44.45	25.40	25.22	12.71	159.80	42.23	5.56	510.00	564.00	22.20
32A-1	160	50.80	28.58	31.55	14.29	73.40	48.26	6.35	223.00	265.00	10.10
32A-2	160-2	50.80	28.58	31.55	14.29	132.10	48.26	6.35	446.00	534.00	20.14
32A-3	160-3	50.80	28.58	31.55	14.29	190.80	48.26	6.35	669.00	742.00	30.02
36A-1	180	57.15	35.71	35.48	17.46	83.00	54.30	7.14	281.00	325.00	13.95
36A-2	180-2	57.15	35.71	35.48	17.46	149.10	54.30	7.14	562.00	660.00	27.62
36A-3	180-3	57.15	35.71	35.48	17.46	215.10	54.30	7.14	843.00	934.00	38.22
40A-1	200	63.50	39.68	37.85	19.85	90.50	60.33	7.92	347.00	410.00	16.86
40A-2	200-2	63.50	39.68	37.85	19.85	162.10	60.33	7.92	694.00	834.00	33.42
40A-3	200-3	63.50	39.68	37.85	19.85	233.70	60.33	7.92	1,041.00	1,157.00	50.05
48A-1	240	76.20	47.63	47.35	23.81	106.00	72.39	9.52	500.00	591.00	23.60
48A-2	240-2	76.20	47.63	47.35	23.81	193.90	72.39	9.52	1,000.00	1,193.00	47.35
48A-3	240-3	76.20	47.63	47.35	23.81	281.80	72.39	9.52	1,500.00	1,669.00	72.04

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**ROLLER CHAIN**