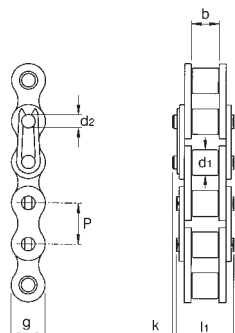


British Standard Precision Roller Chain Conforming to ISO 606 and DIN 8187



Simplex Roller Chains

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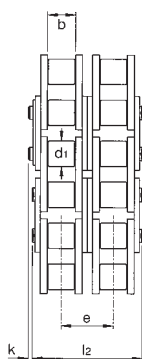


Cat No.†	Pitch P	Inside Width b min mm	Roller Dia. d1 max. mm	Pin Dia. d2 max. mm	Plate Depth g mm	Pin Length l1 max. mm	Con Pin Ext. k mm	Transverse Pitch e mm	Bearing Area cm ²	Tensile Strength N	Approx Weight kg/m
04 B†	6mm	2.80	4.00	1.85	5.0	7.4	2.9		0.07	3,000	0.12
05 B-1	8mm	3.00	5.00	2.31	7.1	8.6	3.1		0.11	4,600	0.18
06 B-1	3/8 inch	5.72	6.35	3.28	8.3	12.8	2.2		0.28	9,100	0.41
08 B-1	1/2 inch	7.75	8.51	4.45	11.8	16.2	2.1		0.50	18,200	0.70
081-1	1/2 inch	3.30	7.75	3.66	9.9	10.2	1.5		0.21	8,200	0.28
083-1	1/2 inch	4.88	7.75	4.09	10.3	12.9	1.5		0.32	12,000	0.42
084-1	1/2 inch	4.88	7.75	4.09	11.1	14.8	1.5		0.35	16,000	0.59
08L †	1/2 inch	6.40	7.75	3.97	11.5	15.1	2.0		0.38	16,000	0.53
08N †	1/2 inch	4.88	7.75	3.66	9.9	10.9	2.8		0.28	8,200	0.33
086 †	1/2 inch	5.21	8.51	4.45	11.6	15.0	3.9		0.39	18,200	0.62
101 †	5/8 inch	6.48	10.16	5.08	15.0	16.0	3.5		0.51	22,700	0.80
10 B-1	5/8 inch	9.65	10.16	5.08	14.7	18.6	2.2		0.67	22,700	0.96
12 B-1	3/4 inch	11.68	12.07	5.72	16.1	21.9	2.6		0.89	29,000	1.23
16 B-1	1 inch	17.02	15.88	8.28	21.1	35.6	3.1		2.10	64,000	2.60
20 B-1	1 1/4 inch	19.56	19.05	10.19	26.3	41.0	3.1		2.95	98,000	3.70
24 B-1	1 1/2 inch	25.40	25.40	14.63	33.3	53.4	3.5		5.54	170,000	6.90
28 B-1	1 3/4 inch	30.99	27.94	15.90	37.0	65.8	3.6		7.40	200,000	8.60
32 B-1	2 inch	30.99	29.21	17.78	40.6	64.8	3.8		8.11	260,000	9.50

† Cat No. equates to ISO 606 Chain ref. except where indicated, which are chains to factory std.

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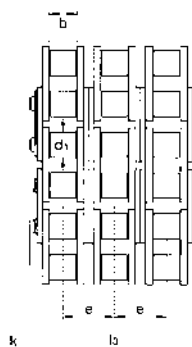
Duplex Roller Chains



Cat No.†	Pitch P	Inside Width b min mm	Roller Dia. d1 max. mm	Pin Dia. d2 max. mm	Plate Depth g mm	Pin Length l2 max. mm	Con Pin Ext. k mm	Transverse Pitch e mm	Bearing Area cm ²	Tensile Strength N	Approx Weight kg/m
05 B-2	8mm	3.0	5.0	2.31	7.1	14.3	3.1	5.64	0.22	8,000	0.36
06 B-2	3/8 inch	5.72	6.35	3.28	8.3	22.9	2.2	10.24	0.55	17,300	0.78
08 B-2	1/2 inch	7.75	8.51	4.45	11.8	30.2	2.1	13.92	1.00	31,800	1.40
10 B-2	5/8 inch	9.65	10.16	5.08	14.7	35.4	2.2	16.59	1.34	45,400	1.80
12 B-2	3/4 inch	11.68	12.07	5.72	16.1	41.4	2.6	19.46	1.78	57,900	2.44
16 B-2	1 inch	17.02	15.88	8.28	21.1	67.6	3.1	31.88	4.21	122,000	5.30
20 B-2	1 1/4 inch	19.56	19.05	10.19	26.3	77.6	3.1	36.45	5.91	187,000	7.45
24 B-2	1 1/2 inch	25.40	25.40	14.63	33.2	101.5	3.5	48.36	11.09	324,000	13.75
28 B-2	1 3/4 inch	30.99	27.94	15.90	37.0	125.2	3.6	59.56	14.81	380,000	17.30
32 B-2	2 inch	30.99	29.21	17.78	40.6	123.0	3.8	58.55	16.23	495,000	18.80

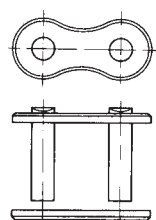
Tel +44(0) 121 360 0155

Triplex Roller Chains



Cat No.†	Pitch P	Inside Width b min mm	Roller Dia. d1 max. mm	Pin Dia. d2 max. mm	Plate Depth g mm	Pin Length l2 max. mm	Con Pin Ext. k mm	Transverse Pitch e mm	Bearing Area cm ²	Tensile Strength N	Approx Weight kg/m
06 B-3	3/8 inch	5.72	6.35	3.28	8.3	32.8	2.2	10.24	0.83	25,400	1.18
08 B-3	1/2 inch	7.75	8.51	4.45	11.8	44.1	2.1	13.92	1.50	45,400	2.10
10 B-3	5/8 inch	9.65	10.16	5.08	14.7	51.9	2.2	16.59	2.02	68,100	2.85
12 B-3	3/4 inch	11.68	12.07	5.72	16.1	60.8	2.6	19.46	2.68	86,500	3.63
16 B-3	1 inch	17.02	15.88	8.28	21.1	99.4	3.1	31.88	6.32	182,000	7.80
20 B-3	1 1/4 inch	19.56	19.05	10.19	26.3	114.9	3.1	36.45	8.86	280,000	11.4
24 B-3	1 1/2 inch	25.40	25.40	14.63	33.2	149.5	3.5	48.36	16.64	485,000	20.5
28 B-3	1 3/4 inch	30.99	27.94	15.90	37.0	184.8	3.6	59.56	22.21	570,000	25.8
32 B-3	2 inch	30.99	29.21	17.78	40.6	181.2	3.8	58.55	24.34	743,000	27.9

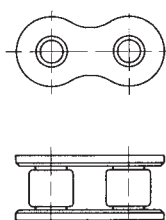
Spares for Std. Chains



Pin Unit (Rivetting Outer Links)

Available all sizes of chain. Press fit unit to connect chains for maximum performance

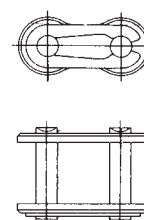
Part Ref. 79



Roller Unit (Inner Link)

Available all sizes of chain to extend chain length or manufacture of special build chains.

Part Ref. 77



Connecting Link (Spring Clip Type)

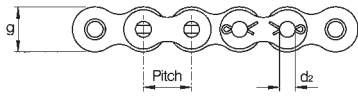
Standard all chains to 1 inch pitch. Should be assembled with open end away from running direction of chain.

Part Ref. 76

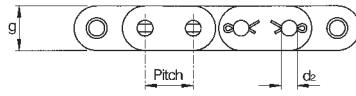
American Standard Precision Roller Chains Simplex (Single Strand) Construction



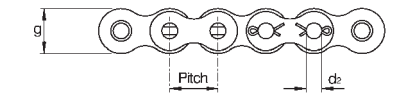
Conforming to ANSI B29.1 and ISO 606*



Standard Roller Chains



Straight Sideplate Roller Chains



Bush (Rollerless) Chains

*ISO 606 covers Standard Series Chains only

ANSI No.	Pitch P inches	Inside Width b min mm	Roller Ø d1 max. mm	Pin Ø d2 max. mm	Plate Depth g mm	Rivet Pin Length l max. mm	Length to Cotter Pin m mm	Length to Rivet Pin n mm	Bearing Area cm ²	Tensile Strength N	Approx Weight kg/m
*25	1/4	3.18	3.30 ¹⁾	2.29	5.9	7.9	4.9	3.9	0.11	3,500	0.13
*35	3/8	4.77	5.08 ¹⁾	3.58	9.0	12.0	8.7	6.0	0.27	8,400	0.31
41	1/2	6.35	7.77	3.58	9.9	13.2	9.4	6.6	0.32	8,000	0.42
40	1/2	7.85	7.95	3.96	11.8	16.6	10.7	8.3	0.44	14,800	0.62
50	5/8	9.40	10.16	5.08	15.0	20.2	14.3	10.1	0.70	24,400	1.04
60	3/4	12.60	11.91	5.94	18.0	25.0	16.3	12.5	1.06	34,400	1.48
80	1	15.80	15.88	7.92	24.0	32.6	18.8	16.3	1.79	64,500	2.50
100	1 1/4	19.00	19.05	9.53	30.0	39.2	23.2	19.6	2.62	100,000	3.76
120	1 1/2	25.25	22.23	11.10	36.0	49.4	29.0	24.7	3.94	130,000	5.50
140	1 3/4	25.25	25.40	12.70	42.0	53.0	31.0	26.5	4.72	177,000	7.20
160	2	31.55	28.58	14.27	48.0	63.2	37.1	31.6	6.50	227,000	9.80
180	2 1/4	31.55	35.71	17.45	54.5	71.5	44.2	35.8	8.87	320,000	13.0
200	2 1/2	37.85	39.68	19.85	59.5	77.0	47.3	38.5	10.90	360,000	16.3
240	3	47.35	47.63	23.80	72.0	95.5	57.7	47.8	16.15	520,000	25.3

Standard Series Chains (complying to ANSI b29.1)

Can be supplied also to full A.P.I. Specification with certified approval

• ANSI 25 and 35 are Bush Chains to ISO 1395

1) Bush Diameter

Heavy Series and High Endurance Chains

Morse High Strength Roller Chains are designed to meet the instantaneous peak loading requirements of all applications ranging from rugged construction equipment to elevated personnel carriers.

There are two series of chains, both operate on standard ANSI sprocket. The 'H' series have link plates of increased thickness to resist fatigue failure from shock and pulsating loads. Chains prefixed '8' have through hardened pins for additional strength where very high shock loads are encountered.

60H	3/4	12.60	11.91	5.94	18.0	28.3	16.6	14.2	1.15	34,000	1.70
80H	1	15.80	15.88	7.92	24.0	35.9	20.4	18.0	1.92	64,500	2.88
100H	1 1/4	19.00	19.05	9.53	30.0	42.5	25.0	21.3	2.77	100,000	4.55
120H	1 1/2	25.25	22.23	11.10	36.0	52.7	30.8	26.4	4.12	130,000	6.62
140H	1 3/4	25.25	25.40	12.70	42.0	56.0	32.6	28.0	4.93	177,000	8.45
160H	2	31.55	28.58	14.27	48.0	66.2	38.7	33.1	6.69	227,000	10.9
180H	2 1/4	35.50	35.71	17.45	54.5	75.0	44.5	37.5	9.14	320,000	13.6
200H	2 1/2	37.85	39.68	19.85	59.5	92.4	51.3	46.2	11.54	360,000	20.1

8-60H	3/4	12.60	11.91	5.94	18.0	28.3	16.6	14.2	1.15	40,000	1.70
8-80H	1	15.80	15.88	7.92	24.0	35.9	20.4	18.0	1.92	84,000	2.88
8-100H	1 1/4	19.00	19.05	9.53	30.0	42.5	25.0	21.3	2.77	120,500	4.55
8-120H	1 1/2	25.25	22.23	11.10	36.0	52.7	30.8	26.4	4.12	168,000	6.62
8-140H	1 3/4	25.25	25.40	12.70	42.0	56.0	32.6	28.0	4.93	224,000	8.45
8-160H	2	31.55	28.58	14.27	48.0	66.2	38.7	33.1	6.69	280,000	10.9
8-180H	2 1/4	35.50	35.71	17.45	54.5	75.0	44.5	37.5	9.14	380,000	13.6
8-200H	2 1/2	37.85	39.68	19.85	59.5	92.4	51.3	46.2	11.54	415,000	20.1

Straight Side Plate Chains

Provide increased bearing area for conveying applications, when sliding on guides. Operate on std. ANSI sprockets.

C40	1/2	7.85	7.95	3.96	11.7	16.6	10.7	8.3	0.44	14,800	0.67
C60	3/4	12.60	11.91	5.94	17.3	24.9	16.3	12.5	1.06	34,000	1.57
C80	1	15.80	15.88	7.92	24.2	32.6	18.8	16.3	1.79	64,500	2.79
C100	1 1/4	19.00	19.05	9.53	28.7	39.2	23.2	19.6	2.62	100,000	4.42
C120	1 1/2	25.25	22.23	11.10	36.1	49.4	29.0	24.7	3.94	130,000	6.55

Bush Chains

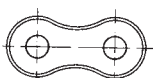
Standard ANSI Simplex chains assembled without rollers for reduced weight. Used on slow speed drives and lifting equipment such as, fork lift trucks.

ANSI No.	Pitch P inches	Inside Width b min mm	Roller Ø d1 max. mm	Pin Ø d2 max. mm	Plate Depth g mm	Rivet Pin Length l max. mm	Length to Cotter Pin m mm	Length to Rivet Pin n mm	Bearing Area cm ²	Tensile Strength N	Approx Weight kg/m
65	3/4	12.60	8.36	5.94	18.0	25.0	16.3	12.5	1.06	34,000	1.10
85	1	15.80	11.23	7.92	24.0	32.6	18.8	16.3	1.79	64,500	1.95
105	1 1/4	19.00	13.49	9.53	30.0	39.2	23.2	19.6	2.62	100,000	3.10
125	1 1/2	25.25	15.82	11.10	36.0	49.4	29.0	24.7	3.94	130,000	4.40

Detachable Chains

Detachable Chain can be supplied for chains of 3/4" pitch and above, in standard series, heavy series and high endurance series, add suffix 'C' to Part No. - e.g. 2" Pitch Triplex Detachable Chain - Ref. 160 - 3C.

Spares for Std. Chains



Pin Unit
(Rivetting Outer Links)

Available all sizes of chain. Press fit unit to connect chains for maximum performance

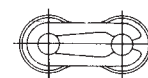
Part Ref. 79



Roller Unit
(Inner Link)

Available all sizes of chain to extend chain length or manufacture of special build chains.

Part Ref. 77



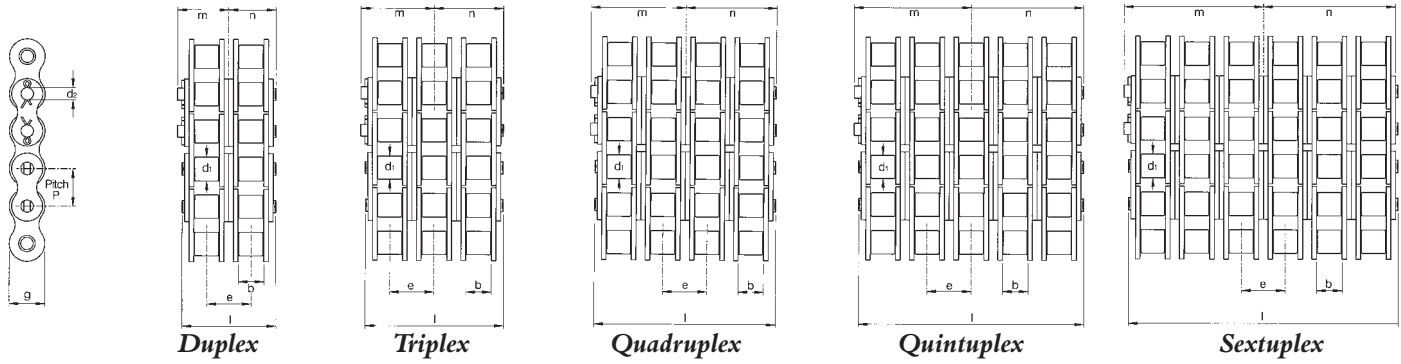
Connecting Link
(Spring Clip Type)

Standard all chains to 3/4" inch pitch. Should be assembled with open end away from running direction of chain.

Part Ref. 76

American Standard Precision Roller Chains Multi-Strand Constructions

Conforming to ANSI B29.1 and ISO 606*



All chains available to full A.P.I. specifications with certified approval. *ISO 606 covers Duplex and Triplex construction only.

Duplex Chains

• 25-2 & 35-2 Bush Chains to ISO 1395

1) Bush diameter.

Triplex Chains

• 25-3 & 35-3 Bush Chains to ISO 1395

1) Bush diameter.

Quadruplex Chains

Quintuplex Chains

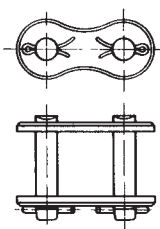
Sextuplex Chains

All dimensions in mm.

ANSI No.	Pitch P inches	Inside Width b min. mm	Roller Ø d1 max. mm	Pin Ø d2 max. mm	Plate Depth g mm	Transverse Pitch e mm	Rivet Pin Length l max. mm	Length to Cotter Pin m mm	Length to Rivet Pin n mm	Bearing Area cm ²	Tensile Strength N	Weight Approx. kg/m
•25-2	3/4	3.18	3.30 ₁₁	2.29	5.9	6.40	14.3	7.9	7.2	0.22	6,800	0.26
•35-2	3/8	4.77	5.08 ₁₁	3.59	9.0	10.13	22.0	11.9	11.0	0.54	16,800	0.65
40-2	1/2	7.85	7.95	3.96	11.8	14.38	30.9	16.8	15.2	0.88	29,600	1.22
50-2	5/8	9.40	10.16	5.08	15.0	18.11	38.3	21.2	19.2	1.40	48,800	2.00
60-2	3/4	12.60	11.91	5.94	18.0	22.78	48.1	26.4	24.1	2.12	68,000	2.85
80-2	1	15.80	15.88	7.92	24.0	29.29	61.8	33.6	30.9	3.58	129,000	5.00
100-2	1 1/4	19.00	19.05	9.53	30.0	35.76	75.3	41.3	37.7	5.24	200,000	7.60
120-2	1 1/2	25.25	22.23	11.10	36.0	45.44	95.3	52.0	47.6	7.88	260,000	10.8
140-2	1 3/4	25.25	25.40	12.70	42.0	48.87	102.6	55.6	51.3	9.44	354,000	14.2
160-2	2	31.55	28.58	14.27	48.0	58.55	122.6	66.7	61.4	13.00	454,000	19.0
180-2	2 1/4	35.50	35.71	17.48	54.5	65.84	137.2	74.7	68.6	17.75	640,000	26.2
200-2	2 1/2	37.85	39.68	19.84	59.5	71.55	150.9	83.4	75.4	21.80	720,000	32.0
240-2	3	47.35	47.63	23.80	72.0	87.83	184.1	99.5	92.1	32.30	1,040,000	49.5
•25-3	3/4	3.18	3.30 ₁₁	2.29	5.9	6.40	20.6	11.2	10.4	0.33	10,200	0.39
•35-3	3/8	4.77	5.08 ₁₁	3.59	9.0	10.13	32.2	17.9	16.1	0.80	25,200	0.97
40-3	1/2	7.85	7.95	3.96	11.8	14.38	45.2	24.6	22.4	1.32	44,500	1.83
50-3	5/8	9.40	10.16	5.08	15.0	18.11	56.4	30.6	28.2	2.10	73,300	2.97
60-3	3/4	12.60	11.91	5.94	18.0	22.78	70.9	38.1	35.5	3.18	102,100	4.35
80-3	1	15.80	15.88	7.92	24.0	29.29	91.1	48.4	45.6	5.73	193,600	7.90
100-3	1 1/4	19.00	19.05	9.53	30.0	35.76	111.1	59.2	55.6	7.86	300,000	11.4
120-3	1 1/2	25.25	22.23	11.10	36.0	45.44	140.7	74.7	70.4	11.82	390,000	15.8
140-3	1 3/4	25.25	25.40	12.70	42.0	48.87	151.6	80.2	75.8	14.16	531,000	21.5
160-3	2	31.55	28.58	14.27	48.0	58.55	181.2	96.1	90.6	19.50	681,000	26.3
180-3	2 1/4	35.50	35.71	17.48	54.5	65.84	203.0	107.2	101.6	26.63	960,000	39.6
200-3	2 1/2	37.85	39.68	19.84	59.5	71.55	222.4	119.5	111.2	32.70	1,080,000	47.7
240-3	3	47.35	47.63	23.80	72.0	87.83	272.0	143.4	136.0	48.45	1,560,000	73.8
40-4	1/2	7.85	7.95	3.96	11.8	14.38	59.6	31.8	29.6	1.76	59,300	2.44
60-4	3/4	12.60	11.91	5.94	18.0	22.78	93.7	49.3	46.9	4.24	136,000	5.86
80-4	1	15.80	15.88	7.92	24.0	29.29	120.4	62.8	60.2	7.16	232,000	10.07
100-4	1 1/4	19.00	19.05	9.53	30.0	35.76	146.8	77.0	73.4	10.48	384,000	15.0
120-4	1 1/2	25.25	22.23	11.10	36.0	45.44	186.1	97.3	93.1	15.76	520,000	22.6
140-4	1 3/4	25.25	25.40	12.70	42.0	48.87	200.4	104.8	100.2	18.88	705,000	29.9
160-4	2	31.55	28.58	14.27	48.0	58.55	239.7	125.5	119.9	26.00	908,000	38.8
200-4	2 1/2	37.85	39.68	19.84	59.5	71.55	293.9	155.2	147.0	43.60	1,440,000	63.3
240-4	3	47.35	47.63	23.80	72.0	87.83	359.8	187.3	179.9	64.60	2,080,000	98.5
60-5	3/4	12.60	11.91	5.94	18.0	22.78	116.5	60.6	58.3	5.30	170,000	7.32
80-5	1	15.80	15.88	7.92	24.0	29.29	149.7	77.5	74.8	9.31	290,000	12.6
100-5	1 1/4	19.00	19.05	9.53	30.0	35.76	182.6	95.0	91.3	13.10	480,000	18.8
120-5	1 1/2	25.25	22.23	11.10	36.0	45.44	231.6	120.1	115.8	19.70	680,000	28.2
140-5	1 3/4	25.25	25.40	12.70	42.0	48.87	249.3	128.6	124.7	23.60	920,000	36.2
160-5	2	31.55	28.58	14.27	48.0	58.55	298.3	154.0	149.2	32.50	1,160,000	52.9
60-6	3/4	12.60	11.91	5.94	18.0	22.78	139.3	81.9	79.5	6.36	204,000	8.78
80-6	1	15.80	15.88	7.92	24.0	29.29	178.9	102.0	99.4	11.46	348,000	15.10
100-6	1 1/4	19.00	19.05	9.53	30.0	35.76	218.4	122.9	119.2	15.72	576,000	22.5
120-6	1 1/2	25.25	22.23	11.10	36.0	45.44	277.0	153.1	148.8	23.64	816,000	33.9
140-6	1 3/4	25.25	25.40	12.70	42.0	48.87	318.1	163.0	159.0	28.32	1,105,000	43.4
160-6	2	31.55	28.58	14.27	48.0	58.55	376.8	193.2	188.4	39.00	1,395,000	58.1

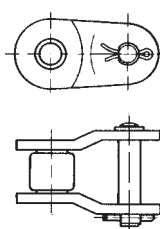
Detachable Chains

Detachable Chain can be supplied for chains 3/4" pitch and above. Add suffix 'C' to Part No. e.g. Ref 160-3C for 2" pitch Triplex Detachable Chain



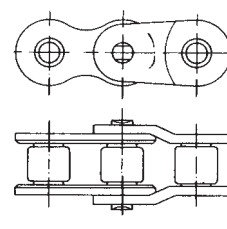
Connecting Link (Cottered Type)

For chains 3/4" Pitch and over for easy assembly of chains. Normally fitted slip fit plate except high endurance chains which are interference fit. Part Ref. 75



Single Crank Link

Used to make chains of Odd Pitch Lengths - Standard on all size ANSI Chains. Part Ref. 87



Double Crank Link

Preferred to Single Crank Link for small pitch chains. Available Chains to 3/4" pitch. Part Ref. 86