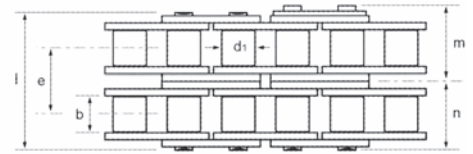
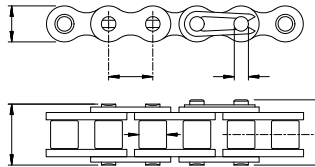


British Standard Stainless Steel and Corrosion Resistant Roller Chains



Cross+Morse SS – Stainless Steel chain has been designed with a higher allowable load than other makes of stainless steel chain and is suitable for use in the most demanding applications. Where WATER, ACIDS, ALKALIS, CHEMICALS, HIGH HUMIDITY AND EXTREMES OF TEMPERATURE are encountered – conditions potentially destructive to ordinary transmission chain, SS chain provide the answer. SS chain completely overcomes corrosion and wear problems normally encountered with standard chain used in such harsh conditions.

Remaining impervious to even the most severe chemicals required for cleaning and hygiene maintenance within food and pharmaceutical processing, SS chain offers proven high-performance and maintenance-free life time performance.



Cat No.	Pitch P	Inside Width b mm	Roller Diameter d ₁ mm	Pin Diameter d ₂ mm	Plate Depth q mm	Pin Lengths			Transverse Pitch e mm	Bearing Area cm²	Tensile Strength kN	Maximum Working Load N	Approx Weight kg/M
						l mm	m mm	n mm					
BS Series Simplex Chains													
04B-1SS	6 mm	2.80	4.00	1.85	5.0	6.8	4.4	3.4		0.07	2.0	80	0.12
05B-1SS	8 mm	3.00	5.00	2.31	7.1	8.2	5.8	4.1		0.11	3.5	110	0.18
06B-1SS+	¾ inch	5.72	6.35	3.28	8.3	13.2	7.6	6.6		0.28	6.2	300	0.41
08B-1SS	½ inch	7.75	8.51	4.45	11.8	16.7	9.9	8.4		0.50	12.0	525	0.70
10B-1SS	¾ inch	9.65	10.16	5.08	14.7	19.5	11.2	9.8		0.67	14.5	710	0.96
12B-1SS	¾ inch	11.68	12.07	5.72	16.1	22.5	13.0	11.3		0.89	18.5	940	1.23
16B-1SS	1 inch	17.02	15.88	8.28	21.1	36.1	19.4	18.1		2.10	40.0	2220	2.60
20B-1SS	1¼ inch	19.56	19.05	10.19	26.3	41.3	24.4	20.7		2.95	59.0	3100	3.70
BS Series Duplex Chains													
06B-2SS+	¾ inch	5.72	6.35	3.28	8.3	23.4	12.7	11.7	10.24	0.55	8.5	570	0.78
08B-2SS	½ inch	7.75	8.51	4.45	11.8	31.2	16.6	15.6	13.92	1.00	16.0	1050	1.40
10B-2SS	¾ inch	9.65	10.16	5.08	14.7	36.1	19.5	18.1	16.59	1.34	22.3	1380	1.80
12B-2SS	¾ inch	11.68	12.07	5.72	16.1	42.0	22.6	21.0	19.46	1.78	29.0	1820	2.44
16B-2SS	1 inch	17.02	15.88	8.28	21.1	68.0	35.3	34.0	31.88	4.21	53.0	4300	5.30
20B-2SS	1¼ inch	19.56	19.05	10.19	26.3	77.8	41.8	38.9	36.45	5.90	85.0	6000	7.45

The chains above are from stock. Other constructions, including triplex chains, can be supplied to special order. Standard chain components are all manufactured in 304 (18-8) nickel chrome stainless steel. The chains are suitable for temperatures up to 350°C, with intermittent peaks of 500°C and also for the sub-zero conditions involved in food packaging. + This is a straight-sided plate chain.

Stock BS Simplex Chains in 316 Stainless Steel

Chains can also be supplied in 316 grade stainless steel for applications involving strong acids, or where a totally non-magnetic chain is required. Temperatures of 500°C, with intermittent peaks of 650°C are possible with these chains. These chains should only be used where conditions demand as they do not have the same wear life properties as the standard chain, and for this reason it is recommended that working loads should not exceed half those recommended for standard stainless steel chain. + This is a straight-sided plate chain.

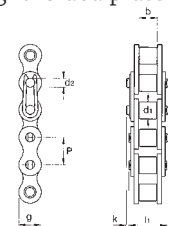
Cat No.	Pitch P	Inside Width b mm	Roller Diameter d ₁ mm	Pin Diameter d ₂ mm	Plate Depth g mm	Pin Lengths			Bearing Area cm ²	Tensile Strength kN	Maximum Working Load N	Approx. Weight kg/M
						l mm	m mm	n mm				
06B-1SS+	1/2 inch	5.72	6.35	3.28	8.3	13.2	7.6	6.6	0.28	6.2	200	0.41
08B-1SS	3/4 inch	7.75	8.51	4.45	11.8	16.7	9.9	8.4	0.50	12.0	400	0.70
10B-1SS	1 inch	9.65	10.16	5.08	14.7	19.5	11.2	9.8	0.67	14.5	510	0.96
12B-1SS	1 1/4 inch	11.68	12.07	5.72	16.1	22.5	13.0	11.3	0.89	18.5	660	1.23
16B-1SS	1 1/2 inch	17.02	15.88	8.28	21.1	36.1	19.4	18.1	2.10	40.0	1500	2.60

Corrosion Resistant Roller Chains

Nickel Plated BS Simplex Roller Chains

Electroless nickel plating is applied to all components of our standard carbon steel roller chains, providing protection to surfaces subject to mild corrosion. The plated chain retains all the properties of the base chain. + This is a straight-sided plate chain.

Cat No.	Pitch P	Inside Width b mm	Roller Diameter d ₁ mm	Pin Diameter d ₂ mm	Plate Depth g mm	Pin Length l ₁ mm	Conn Pin Ext. k mm	Bearing Area cm ²	Tensile Strength kN	Approx. Weight kg/M
06 B-1N+	1/2 inch	5.72	6.35	3.28	8.3	13.1	1.0	0.28	9.0	0.41
08 B-1N	3/4 inch	7.75	8.51	4.45	11.8	16.7	1.5	0.50	18.0	0.70
10 B-1N	1 inch	9.65	10.16	5.08	14.7	19.5	1.4	0.67	22.4	0.93
12 B-1N	1 1/4 inch	11.68	12.07	5.72	16.1	22.5	1.7	0.89	29.0	1.15
16 B-1N	1 1/2 inch	17.02	15.88	8.28	21.1	36.1	1.3	2.10	60.0	2.71
20 B-1N	2 inch	19.56	19.05	10.19	26.3	41.3	2.7	2.95	95.0	3.70



Aqua Proof BS Simplex Roller Chains

A special coating applied to chain components gives excellent corrosion resistance without the hydrogen embrittlement problems encountered with some plating processes. Chains are suitable for all outside environments and seawater applications. + This is a straight-sided plate chain.

Cat No.	Pitch P	Inside Width b mm	Roller Diameter d ₁ mm	Pin Diameter d ₂ mm	Plate Depth g mm	Pin Length l ₁ mm	Conn Pin Ext. k mm	Bearing Area cm ²	Tensile Strength kN	Approx. Weight kg/M
06 B-1AP+	1/2 inch	5.72	6.35	3.28	8.3	12.6	0.8	0.28	8.9	0.41
08 B-1AP	3/4 inch	7.75	8.51	4.45	11.8	16.7	1.3	0.50	17.8	0.70
10 B-1AP	1 inch	9.65	10.16	5.08	14.7	19.0	1.7	0.67	22.2	0.93
12 B-1AP	1 1/4 inch	11.68	12.07	5.72	16.1	22.0	1.6	0.89	29.0	1.15
16 B-1AP	1 1/2 inch	17.02	15.88	8.28	21.1	35.1	3.1	2.10	60.0	2.71



Standard Stainless Steel Sprockets for 3/8" to 1" Pitch British Standard Chains



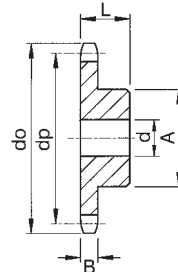
Conforming to ISO Std 606

A standard stock range of pilot bore Sprockets manufactured in type 304L Stainless Steel for high corrosion resistance. These Sprockets are suitable for corrosive environments, including the high temperature and moisture conditions found in many food process and packaging operations. They will also withstand many alkaline and acidic fluids even at elevated temperatures.

These Sprockets are the ideal choice to operate with Stainless Steel Chains or Plated Chains.

Sprockets for 06B-1 Chains

Cat No.	No of Teeth	Pitch Circle Ø dp	Outside Ø do	Min Bore d	Max. Bore d	L.T.B. L	Hub Ø A	Approx Weight kg
06S1-12	12	36.80	40.0	8	16	25	25	0.10
06S1-13	13	39.80	43.0	10	19	25	28	0.12
06S1-14	14	42.81	46.3	10	20	25	31	0.15
06S1-15	15	45.81	49.3	10	23	25	34	0.18
06S1-16	16	48.83	52.3	10	25	28	37	0.24
06S1-17	17	51.83	55.3	10	27	28	40	0.28
06S1-18	18	54.85	58.3	10	29	28	43	0.32
06S1-19	19	57.87	61.3	10	30	28	45	0.36
06S1-20	20	60.89	64.3	10	31	28	46	0.38
06S1-21	21	63.91	68.0	12	32	28	48	0.42
06S1-22	22	66.93	71.0	12	34	28	50	0.45
06S1-23	23	69.95	73.5	12	35	28	52	0.49
06S1-24	24	72.97	77.0	12	36	28	54	0.54
06S1-25	25	76.00	80.0	12	38	28	57	0.60
06S1-30	30	91.13	94.7	12	40	28	60	0.77



Chain No	Pitch Inches	Tooth Width B
06B-1	3/8	5.3
08B-1	1/2	7.2
10B-1	5/8	9.2
ANSI 50	3/4	9.2
12B-1	7/8	11.2
16B-1	1	16.2

Sprockets for 08B-1 Chains

Cat No.	No of Teeth	Pitch Circle Ø dp	Outside Ø do	Min Bore d	Max. Bore d	L.T.B. L	Hub Ø A	Approx Weight kg
08S1-12	12	49.07	53.0	10	22	28	33	0.20
08S1-13	13	53.07	57.4	10	25	28	37	0.25
08S1-14	14	57.07	61.8	10	27	28	41	0.31
08S1-15	15	61.08	65.5	10	30	28	45	0.38
08S1-16	16	65.10	69.5	12	34	28	50	0.45
08S1-17	17	69.12	73.6	12	35	28	52	0.50
08S1-18	18	73.14	77.8	12	37	28	56	0.58
08S1-19	19	77.16	81.7	12	40	28	60	0.66
08S1-20	20	81.18	85.8	12	43	28	64	0.75
08S1-21	21	85.21	89.7	14	45	28	68	0.84
08S1-22	22	89.24	93.8	14	46	28	70	0.91
08S1-23	23	93.27	98.2	14	46	28	70	0.93
08S1-24	24	97.30	101.8	14	46	28	70	0.96
08S1-25	25	101.33	105.8	14	46	28	70	0.99
08S1-26	26	105.36	110.0	16	46	30	70	1.08
08S1-27	27	109.40	114.0	16	46	30	70	1.11
08S1-30	30	121.50	126.1	16	54	30	80	1.44
08S1-34	34	137.64	142.6	16	60	30	90	1.86
08S1-38	38	153.79	158.6	20	60	35	90	2.27
08S1-40	40	161.87	166.8	20	60	35	90	2.38

Sprockets for 010B-1 and ANSI 50 Chains

Cat No.	No of Teeth	Pitch Circle Ø dp	Outside Ø do	Min Bore d	Max. Bore d	L.T.B. L	Hub Ø A	Approx Weight kg
10S1-10	10	51.37	57.5	10	24	25	35	0.22
10S1-11	11	56.35	63.0	12	25	30	37	0.30
10S1-12	12	61.34	68.0	12	28	30	42	0.38
10S1-13	13	66.33	73.0	12	31	30	47	0.47
10S1-14	14	71.34	78.0	12	35	30	52	0.57
10S1-15	15	76.35	83.0	12	38	30	57	0.67
10S1-16	16	81.37	88.0	14	40	30	60	0.76
10S1-17	17	86.39	93.0	14	40	30	60	0.80
10S1-18	18	91.42	98.3	14	46	30	70	1.01
10S1-19	19	96.45	103.3	14	46	30	70	1.06
10S1-20	20	101.48	108.4	14	50	30	75	1.21
10S1-21	21	106.51	113.4	16	50	30	75	1.25
10S1-22	22	111.55	118.0	16	54	30	80	0.63
10S1-23	23	116.59	123.4	16	54	30	80	1.47
10S1-24	24	121.62	128.3	16	54	30	80	1.53
10S1-25	25	126.66	134.0	16	54	30	80	1.61
10S1-26	26	131.70	139.0	20	57	35	85	1.97
10S1-30	30	151.87	158.8	20	60	35	90	2.41
10S1-35	35	177.10	184.1	20	63	35	95	3.01

Sprockets for 012B-1 Chains

Cat No.	No of Teeth	Pitch Circle Ø dp	Outside Ø do	Min Bore d	Max. Bore d	L.T.B. L	Hub Ø A	Approx Weight kg
12S1-11	11	67.62	75.0	14	31	35	46	0.52
12S1-12	12	73.60	81.5	14	35	35	52	0.67
12S1-13	13	79.60	87.5	14	38	35	58	0.82
12S1-14	14	85.61	93.6	14	43	35	64	0.99
12S1-15	15	91.63	99.8	14	46	35	70	1.18
12S1-16	16	97.65	105.5	16	50	35	75	1.34
12S1-17	17	103.67	111.5	16	54	35	80	1.54
12S1-18	18	109.70	118.0	16	54	35	80	1.63
12S1-19	19	115.74	124.2	16	54	35	80	1.72
12S1-20	20	121.78	129.7	16	54	35	80	1.80
12S1-21	21	127.82	136.0	20	60	40	90	2.36
12S1-22	22	133.86	141.8	20	60	40	90	2.46
12S1-23	23	139.90	149.0	20	60	40	90	2.59
12S1-24	24	145.95	153.9	20	60	40	90	1.26
12S1-25	25	151.99	160.0	20	60	40	90	2.80
12S1-27	27	164.09	172.3	20	63	40	95	3.22
12S1-30	30	182.25	190.5	20	63	40	95	3.63

Sprockets for 016B-1 Chains

Cat No.	No of Teeth	Pitch Circle Ø dp	Outside Ø do	Min. Bore d	Max. Bore d	L.T.B. L	Hub Ø A	Approx Weight kg
16S1-12	12	98.14	109.0	16	46	40	69	1.46
16S1-13	13	106.14	117.0	16	52	40	78	1.80
16S1-14	14	114.15	125.0	16	56	40	84	2.11
16S1-15	15	122.17	133.0	16	61	40	92	2.49
16S1-16	16	130.20	141.0	20	67	45	100	3.16
16S1-17	17	138.23	149.0	20	67	45	100	3.36
16S1-18	18	146.27	157.0	20	67	45	100	3.58
16S1-19	19	154.32	165.2	20	67	45	100	3.81
16S1-20	20	162.37	173.2	20	67	45	100	4.05
16S1-21	21	170.42	181.2	20	74	50	110	5.03
16S1-22	22	178.48	189.3	20	74	50	110	5.30
16S1-23	23	186.54	197.5	20	74	50	110	5.59
16S1-24	24	194.60	205.5	20	74	50	110	5.88
16S1-25	25	202.66	213.5	20	74	50	110	6.18
16S1-30	30	243.00	254.0	20	80	50	120	8.40