



Martin SPROCKETS

Metric Sprockets

Engineering Class Sprockets

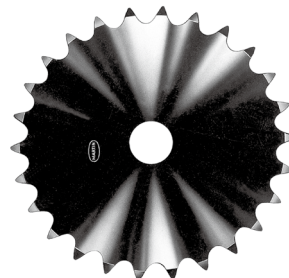


SECTION E SPROCKETS

Martin

Sprocket & Gear, Inc.

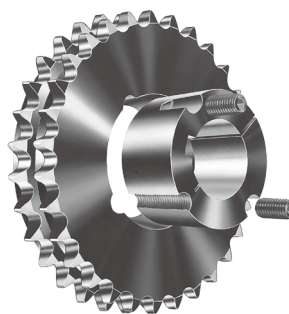
Catalog 2001—I



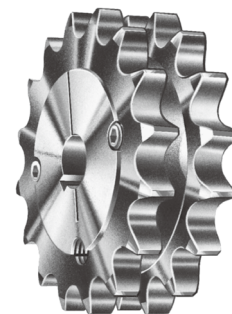
**TYPE A
SIMPLEX**



**TYPE C
TRIPLEX**



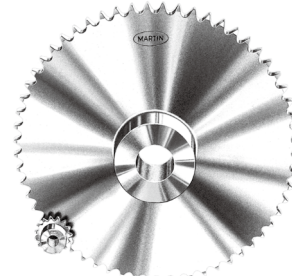
**TAPER BUSHED
DUPLEX**



**TAPER BUSHED
HARDENED TEETH
DOUBLE SIMPLEX**



**QD
SIMPLEX
"QD" SPROCKETS**



**TYPE B
SIMPLEX
STAINLESS STEEL**

Warning & Safety Reminder



WARNING & SAFETY REMINDER

Safety must be considered a basic factor in machinery operation at all times. Most accidents are the result of carelessness or negligence. All rotating power transmission products are potentially dangerous and must be guarded by the contractor, installer, purchaser, owner, and user as required by applicable laws, regulations, standards, and good safety practice. Additional specific information must be obtained from other sources including the latest editions of American Society of Mechanical Engineers; Standard A.N.S.I. B15.1. A copy of this standard may be obtained from the American Society of Mechanical Engineers at 345 East 47th Street, New York, NY 10017 (212-705-7722).

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate the parts or components manufactured and supplied by *Martin* Sprocket & Gear, Inc., in such a manner as to comply with the Williams-Steiger Occupational Safety Act and with all state and local laws, ordinances, regulations, and the American National Standard Institute Safety Code.

CAUTION

Guards, access doors, and covers must be securely fastened before operating any equipment.

If parts are to be inspected, cleaned, observed, or general maintenance performed, **the motor driving the part or components is to be locked out electrically in such a manner that it cannot be started by anyone**, however remote from the area. Failure to follow these instructions may result in personal injury or property damage.

WARNING

NOTE: CATALOGUE DIMENSIONS

Every effort is made to keep all catalogue dimensions and styles current in the catalog, however from time to time, it is necessary because of manufacturing changes to alter stock products dimensionally.

If any stock product dimension or style shown in this catalogue is critical to your application please consult factory for certification.

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ENGINEERED CLASS SPROCKETS

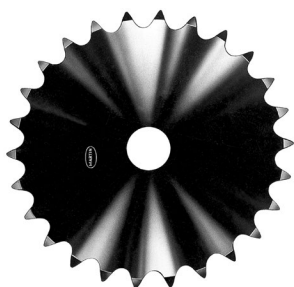
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ENGINEERED CLASS SPROCKETS

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Metric Sprockets ISO STANDARDS

Types A - B & C Stock Sprockets



**TYPE A
SIMPLEX**



**TYPE B
SIMPLEX**



**TYPE C
TRIPLEX**



**TYPE B
DUPLEX**



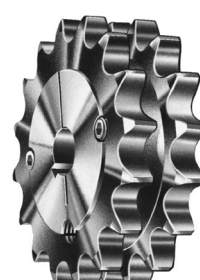
**Taper Bushed
SIMPLEX**



**Taper Bushed
DUPLEX**



**INSTANT
SPLIT SPROCKET**



**Taper Bushed
DOUBLE SIMPLEX
HARDENED TEETH**

Made-to-Order



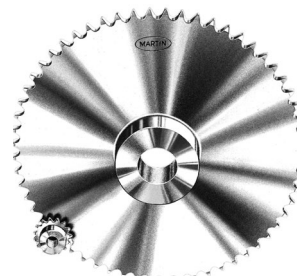
**QD
SIMPLEX**

" QD " Sprockets



**Idler
BALL BEARING**

Idler Sprockets



**TYPE B
SIMPLEX
STAINLESS**

STAINLESS Steel

ISO 05B-1

0.315 INCH (8MM) PITCH SIMPLEX

CHAIN DATA:

BS 228/3

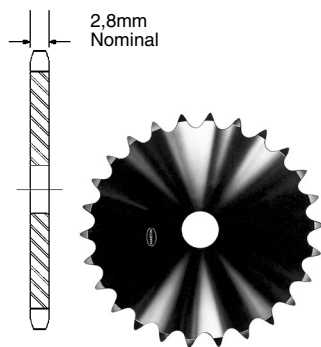
ISO 05B-1

PITCH: 8mm (0.315 IN.)

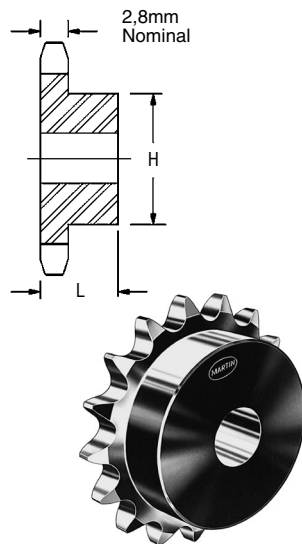
ROLLER DIAMETER: 5mm (0.197 IN.)

ROLLER WIDTH: 3mm (0.118 IN.)

TENSILE: 910 kilos (2000 lbs.)



TYPE A



TYPE B

Simplex-Type B — Steel/Cast

Simplex-Type A — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos	Catalog Number	Bore Stock MM	Weight (Approx.) Kilos
			Stock	Max.	H	L				
8	20.90	05B8	6	8	13	12	0.02	05A8	6	0.01
9	23.39	05B9	6	10	15	12	0.02	05A9	6	0.01
10	25.89	05B10	8	11	17	12	0.02	05A10	8	0.01
11	28.39	05B11	8	12	18	13	0.03	05A11	8	0.01
12	30.91	05B12	8	13	20	13	0.03	05A12	8	0.01
13	33.42	05B13	8	14	23	13	0.05	05A13	8	0.01
14	35.95	05B14	8	16	25	13	0.05	05A14	8	0.02
15	38.48	05B15	8	20	28	13	0.07	05A15	8	0.02
16	41.01	05B16	8	21	30	14	0.08	05A16	8	0.02
17	43.53	05B17	8	21	30	14	0.08	05A17	8	0.03
18	46.07	05B18	8	21	30	14	0.09	05A18	8	0.03
19	48.61	05B19	8	21	30	14	0.10	05A19	8	0.03
20	51.14	05B20	8	21	30	14	0.10	05A20	8	0.04
21	53.67	05B21	8	24	35	14	0.13	05A21	8	0.04
22	56.21	05B22	8	24	35	14	0.13	05A22	8	0.05
23	58.75	05B23	8	24	35	14	0.13	05A23	8	0.05
24	61.29	05B24	8	24	35	14	0.15	05A24	8	0.06
25	63.83	05B25	8	24	35	14	0.15	05A25	8	0.06
26	66.37	05B26	10	27	40	16	0.17	05A26	10	0.07
27	68.91	05B27	10	27	40	16	0.19	05A27	10	0.07
28	71.45	05B28	10	27	40	16	0.20	05A28	10	0.08
29	73.99	05B29	10	27	40	16	0.21	05A29	10	0.08
30	76.53	05B30	10	27	40	16	0.22	05A30	10	0.09
31	79.08	05B31	10	27	40	16	0.23	05A31	10	0.10
32	81.61	05B32	10	27	40	16	0.23	05A32	10	0.11
33	84.16	05B33	10	27	40	16	0.24	05A33	10	0.12
34	86.70	05B34	10	27	40	16	0.25	05A34	10	0.12
35	89.24	05B35	10	27	40	16	0.25	05A35	10	0.12
36	91.79	05B36	10	27	40	16	0.26	05A36	10	0.13
37	94.33	05B37	10	27	40	16	0.26	05A37	10	0.14
38	96.88	05B38	10	27	40	16	0.27	05A38	10	0.15
39	99.42	05B39	10	27	40	16	0.28	05A39	10	0.16
40	101.97	05B40	10	27	40	16	0.28	05A40	10	0.16
41	104.51	05B41	10	27	40	16	0.29	05A41	12	0.17
42	107.05	05B42	10	27	40	16	0.30	05A42	12	0.18
43	109.60	05B43	10	27	40	16	0.30	05A43	12	0.19
44	112.14	05B44	10	27	40	16	0.31	05A44	12	0.20
45	114.69	05B45	12	40	60	20	0.31	05A45	12	0.21
46	117.23	05B46	12	40	60	20	0.32	05A46	12	0.21
47	119.77	05B47	12	40	60	20	0.33	05A47	12	0.32
48	122.32	05B48	12	40	60	20	0.69	05A48	12	0.34
54	137.59	05B54	12	40	60	20	0.79	05A54	14	0.69
57	145.22	05B57	14	55	80	20	1.12	05A57	14	1.47
60	152.85	05B60	14	55	80	20	1.17	05A60	16	1.53
64	163.04	05B64	14	55	80	20	1.25	05A64	20	1.62
70	178.31	05B70	14	55	80	20	1.38	05A70	20	1.74
72	183.41	05B72	14	55	80	20	1.42	05A72	20	1.79
76	193.59	05B76	20	55	80	25	1.68	05A76	20	1.87
80	203.77	05B80	20	55	80	25	1.78	05A80	20	1.95
84	213.95	05B84	20	55	80	25	1.88	05A84	20	2.04
90	229.23	05B90	20	55	80	25	2.06	05A90	20	2.16
95	241.96	05B95	20	55	80	25	2.19	05A95	20	2.27
96	244.50	05B96	20	55	80	25	2.22	05A96	20	2.29
114	290.33	05B114	20	55	80	25	2.85	05A114	20	2.67
120	305.61	05B120	20	55	80	25	3.05	05A120	20	2.95

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

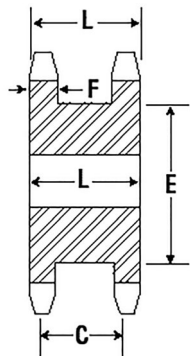
+ Has a recessed groove in hub for chain clearance.

Metric Sprockets

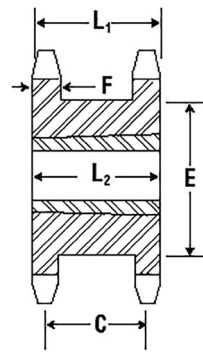
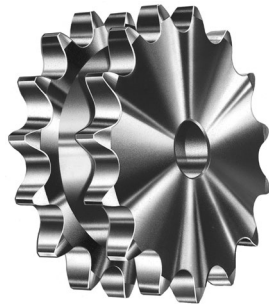
Martin

0.375 INCH (9.525MM) PITCH **Double Single**

ISO **06B-1**



TYPE A



TYPE ATB



Double Simplex - Type A Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	F (Nom.)	
14	DS06A14	46.30	42.80	A	10	20	23.5	18.17	31.0	5.31	0.17
15	DS06A15	49.30	45.81	A	10	23	23.5	18.17	34.0	5.31	0.20
16	DS06A16	52.30	48.82	A	10	25	23.5	18.17	37.0	5.31	0.23
17	DS06A17	55.30	51.83	A	10	27	23.5	18.17	40.0	5.31	0.27
18	DS06A18	58.30	54.85	A	10	29	23.5	18.17	43.0	5.31	0.30
19	DS06A19	61.30	57.87	A	10	31	23.5	18.17	46.0	5.31	0.35
20	DS06A20	64.30	60.89	A	10	33	23.5	18.17	48.0	5.31	0.39
21	DS06A21	68.00	63.91	A	10	35	23.5	18.17	52.0	5.31	0.44
22	DS06A22	71.00	66.93	A	12	36	23.5	18.17	55.0	5.31	0.50
23	DS06A23	73.50	69.95	A	12	38	23.5	18.17	58.0	5.31	0.55
24	DS06A24	77.00	72.97	A	12	40	23.5	18.17	62.0	5.31	0.61
25	DS06A25	80.00	76.02	A	12	43	23.5	18.17	65.0	5.31	0.67

Double Simplex - Taper Bushed - Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	L ₁	Dimensions				Wt. Rim Only
			Outside Diameter	Pitch Diameter					C	E	L ₂	F (Nom.)	
18	DS06ATB18H	1008	58.30	54.85	9	25	ATB	23.5	18.17	43.0	22.2	5.31	0.19
19	DS06ATB19H	1008	61.30	57.87	9	25	ATB	23.5	18.17	46.0	22.2	5.31	0.23
20	DS06ATB20H	1108	64.30	60.89	9	28	ATB	23.5	18.17	49.0	22.2	5.31	0.25
21	DS06ATB21H	1108	68.00	63.91	9	28	ATB	23.5	18.17	52.0	22.2	5.31	0.31
22	DS06ATB22H	1108	71.00	66.93	9	28	ATB	23.5	18.17	55.0	22.2	5.31	0.36
23	DS06ATB23H	1108	73.50	69.95	9	28	ATB	23.5	18.17	58.0	22.2	5.31	0.41
24	DS06ATB24H	1108	77.00	72.97	9	28	ATB	23.5	18.17	61.0	22.2	5.31	0.47
25	DS06ATB25H	1108	80.00	76.02	9	28	ATB	23.5	18.17	64.0	22.2	5.31	0.53

ISO 06B-1

0.375 INCH (9.525MM) PITCH Bored-to-Size

CHAIN DATA:

BS 228/3

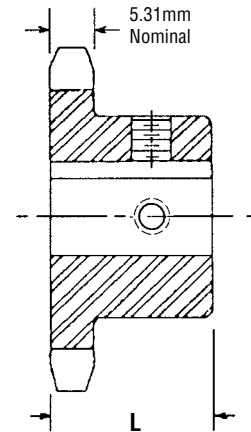
ISO 06B-1

PITCH: 9.525mm (0.375 IN.)

ROLLER DIAMETER: 6.35mm (0.250 IN.)

ROLLER WIDTH: 5.72mm (0.225 IN.)

TENSILE: 11,100 Newtons.



TYPE BS

#06B-1 CHAIN

No. Teeth	Catalog Number	Pitch Diam.	Length Thru Bore	Approx. Wt. (Kilos)	Stock Finished Bores (mm) Included Keyway and Setscrew							
10	06BS10	30.82	22	.05	*10	†12	†14	†16				
11	06BS11	33.80	25	.07	*10	†12	†14	16	19			
12	06BS12	36.80	25	.08	*10	*12	14	16	19			
13	06BS13	39.79	25	.09	*10	*12	14	16	19			
14	06BS14	42.80	25	.10		*12	14	16	19			
15	06BS15	45.81	25	.11		*12	14	16	19	20	22	24
16	06BS16	48.82	28	.13		*12	14	16	19	20	22	24
17	06BS17	51.83	28	.16		*12	14	16	19	20	22	24
18	06BS18	54.85	28	.18		*12	14	16	19	20	22	24
19	06BS19	57.87	28	.20		*12	14	16	19	20	22	24
20	06BS20	60.89	28	.23		*12	14	16	19	20	22	24
21	06BS21	63.91	28	.34				16	19	20	22	24
22	06BS22	66.93	28	.35				16	19	20	22	24
23	06BS23	69.95	28	.35				16	19	20	22	24
24	06BS24	72.97	28	.36				16	19	20	22	24
25	06BS25	76.00	28	.36				16	19	20	22	24
26	06BS26	79.02	28	.38				16	19	20	22	24
27	06BS27	82.05	28	.38				16	19	20	22	24
28	06BS28	82.07	28	.39				16	19	20	22	24
29	06BS29	88.10	28	.40				16	19	20	22	24
30	06BS30	91.12	28	.41				16	19	20	22	24

* Indicates no Keyway. (2) M6 Setscrews only in 10mm Bore & 12mm Bore.

† Keyway with Setscrew at 90° & 180°.

Hub diameters vary to suit different Bore Sizes.

KEYWAY IS ON CENTER LINE OF TOOTH.

Metric Sprockets

Martin

0.375 INCH (9.525MM) PITCH **SIMPLEX**

ISO **06B-1**

CHAIN DATA:

BS 228/3

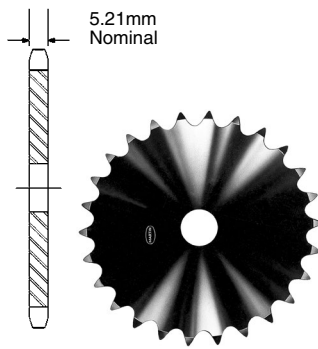
ISO 06B-1

PITCH: 9.525mm (0.375 in.)

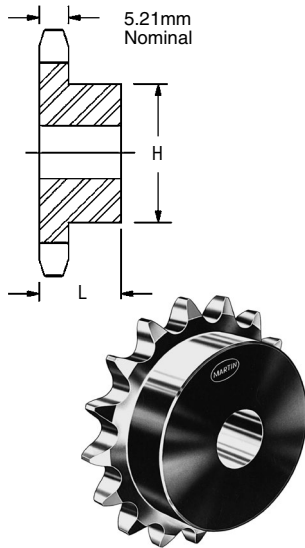
ROLLER DIAMETER: 6.35mm (0.250 in.)

ROLLER WIDTH: 5.72mm (0.225 in.)

TENSILE: 11,100 Newtons.



TYPE A



TYPE B

Simplex-Type B — Steel/Cast

Simplex-Type A — Steel

No. Teeth	Pitch Diameter	Catalog Number	Bore		Hub		Weight (Approx.) Kilos	Catalog Number	Bore Stock MM	Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM				
8	24.89	06B8	6	10	15+	22	0.03	06A8	6	0.02
9	27.85	06B9	8	12	18+	22	0.04	06A9	8	0.02
10	30.82	06B10	8	13	20	22	0.06	06A10	8	0.02
11	33.80	06B11	8	14	22	25	0.08	06A11	8	0.03
12	36.80	06B12	8	16	25	25	0.10	06A12	8	0.04
13	39.79	06B13	10	20	28	25	0.12	06A13	8	0.05
14	42.80	06B14	10	21	31	25	0.15	06A14	8	0.05
15	45.81	06B15	10	23	34	25	0.19	06A15	8	0.06
16	48.82	06B16	10	25	37	28	0.24	06A16	10	0.07
17	51.83	06B17	10	27	40	28	0.29	06A17	10	0.07
18	54.85	06B18	10	29	43	28	0.33	06A18	10	0.08
19	57.87	06B19	10	30	45	28	0.37	06A19	10	0.09
20	60.89	06B20	10	30	46	28	0.39	06A20	10	0.10
21	63.91	06B21	12	32	48	28	0.42	06A21	10	0.11
22	66.93	06B22	12	33	50	28	0.46	06A22	10	0.13
23	69.95	06B23	12	34	52	28	0.50	06A23	10	0.14
24	72.97	06B24	12	35	54	28	0.54	06A24	10	0.15
25	76.00	06B25	12	38	57	28	0.60	06A25	10	0.17
26	79.02	06B26	12	40	60	28	0.67	06A26	10	0.18
27	82.05	06B27	12	40	60	28	0.68	06A27	10	0.19
28	85.07	06B28	12	40	60	28	0.70	06A28	10	0.21
29	88.09	06B29	12	40	60	28	0.72	06A29	10	0.23
30	91.12	06B30	12	40	60	30	0.77	06A30	10	0.25
31	94.15	06B31	14	42	65	30	0.88	06A31	12	0.26
32	97.17	06B32	14	42	65	30	0.90	06A32	12	0.28
33	100.20	06B33	14	42	65	30	0.91	06A33	12	0.30
34	103.23	06B34	14	42	65	30	0.94	06A34	12	0.32
35	106.26	06B35	14	42	65	30	0.95	06A35	12	0.34
36	109.29	06B36	16	46	70	30	1.07	06A36	12	0.35
37	112.32	06B37	16	46	70	30	1.09	06A37	12	0.38
38	115.35	06B38	16	46	70	30	1.10	06A38	12	0.39
39	118.37	06B39	16	46	70	30	1.12	06A39	12	0.42
40	121.40	06B40	16	46	70	30	1.16	06A40	12	0.44
41	124.43	06B41	16	46	70	30	1.21	06A41	16	0.46
42	127.46	06B42	16	46	70	30	1.26	06A42	16	0.48
43	130.49	06B43	16	46	70	30	1.31	06A43	16	0.51
44	133.52	06B44	19	46	70	30	1.36	06A44	16	0.54
45•	136.55	06B45	19	46	70	30	1.40	06A45	16	0.56
46	139.58	06B46	19	46	70	30	1.45	06A46	16	0.59
47	142.61	06B47	19	46	70	30	1.50	06A47	16	0.61
48	145.64	06B48	19	50	75	30	1.55	06A48	16	0.63
50	151.69	06B50	19	50	75	30	1.60	06A50	16	0.65
54	163.82	06B54	19	50	75	30	1.65	06A54	16	0.68
57•	172.91	06B57	19	50	75	30	1.70	06A57	16	1.71
60	182.00	06B60	19	50	75	30	1.92	06A60	16	0.91
64	194.12	06B64	19	50	75	30	2.14	06A64	20	0.97
65	197.15	06B65	19	50	75	30	3.12	06A65	20	1.01
70	212.30	06B70	19	50	75	30	2.36	06A70	20	1.06
72	218.37	06B72	19	50	75	30	2.58	06A72	20	1.09
76•	230.49	06B76	19	50	75	30	2.79	06A76	20	1.64
80	242.61	06B80	19	50	75	30	3.08	06A80	20	1.53
84	254.74	06B84	19	50	75	30	3.37	06A84	20	1.60
85	257.77	06B85	19	50	75	30	4.93	06A85	20	1.66
90	272.93	06B90	19	50	75	30	3.66	06A90	20	1.72
92	278.99	06B92	19	50	75	30	5.45	06A92	20	2.16
95	288.08	06B95	19	50	75	30	3.95	06A95	20	2.60
96	291.11	06B96	19	50	75	30	4.10	06A96	20	2.20
114	345.68	06B114	19	50	75	30	5.50	06A114	20	3.13

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

+ Has a recessed groove in hub for chain clearance.

• Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

ISO 06B-1

0.375 INCH (9.525MM) PITCH **SIMPLEX**

CHAIN DATA:

BS 228/3

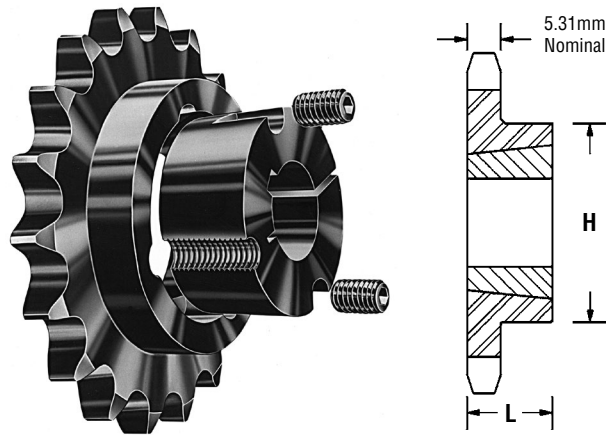
ISO 06B-1

PITCH: 9.525mm (0.375 IN.)

ROLLER DIAMETER: 6.35mm (0.250 IN.)

ROLLER WIDTH: 5.72mm (0.225 IN.)

TENSILE: 11,100 Newtons.



TYPE B

Simplex-Taper Bushed-Steel/Cast

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max.	Dimension		Weight (Approx.)	
					L	H	Rim	Bushing
	MM			MM	MM	MM	Kilos	Kilos
16	48.82	06BTB16	1008	25	22.2	42.0+	0.12	0.09
17	51.83	06BTB17	1008	25	22.2	44.0+	0.13	0.09
18	54.85	06BTB18	1008	25	22.2	45.0	0.14	0.09
19	57.87	06BTB19	1008	25	22.2	46.0	0.16	0.09
20	60.89	06BTB20	1008	25	22.2	46.0	0.18	0.09
21	63.91	06BTB21	1008	25	22.2	46.0	0.20	0.09
22	66.93	06BTB22	1108	28	22.2	52.0	0.24	0.12
23	69.95	06BTB23	1210	32	25.4	63.0+	0.30	0.21
24	72.97	06BTB24	1210	32	25.4	63.0	0.32	0.21
25	76.00	06BTB25	1210	32	25.4	63.0	0.35	0.21
26	79.02	06BTB26	1210	32	25.4	63.0	0.35	0.21
27	82.05	06BTB27	1210	32	25.4	63.0	0.38	0.21
28	85.07	06BTB28	1210	32	25.4	63.0	0.38	0.21
29	88.09	06BTB29	1210	32	25.4	63.0	0.40	0.21
30	91.12	06BTB30	1210	32	25.4	63.0	0.41	0.21
32	97.18	06BTB32	1210	32	25.4	63.0	0.59	0.21
35	106.26	06BTB35	1210	32	25.4	63.0	0.64	0.21
36	109.29	06BTB36	1210	32	25.4	63.0	0.64	0.21
38	115.35	06BTB38	1210	32	25.4	73.0	0.74	0.21
40	121.40	06BTB40	1210	32	25.4	73.0	0.86	0.21
45	136.55	06BTB45	1210	32	25.4	73.0	0.92	0.21
48	145.65	06BTB48	1210	32	25.4	73.0	1.04	0.21
54	163.82	06BTB54	1210	32	25.4	73.0	1.18	0.21
57•	172.90	06BTB57	1210	32	25.4	83.0	1.60	0.21
60	182.00	06BTB60	1210	32	25.4	83.0	1.88	0.21
70	212.30	06BTB70	1210	32	25.4	83.0	2.14	0.21
76•	230.49	06BTB76	1210	32	25.4	83.0	2.43	0.21
95•	288.08	06BTB95	1210	32	25.4	83.0	2.72	0.21
114	345.68	06BTB114	1610	42	25.4	83.0	3.00	0.31

,Has recessed groove in hub for chain clearance.

+ Has a recessed groove in hub for chain clearance.

• Available in Cast or Steel.

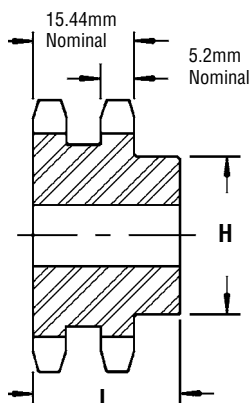
Cast will be shipped unless otherwise specified.

Metric Sprockets

Martin

0.375 INCH (9.525MM) PITCH **DUPLEX**

ISO **06B-2**



TYPE B

CHAIN DATA:

BS 228/3

ISO 06B-2

PITCH: 9.525mm (0.375 in.)

ROLLER DIAMETER: 6.35mm (0.250 in.)

ROLLER WIDTH: 5.72mm (0.225 in.)

TENSILE: 18,500 Newtons.

Duplex-Type B — Steel/Cast

No. Teeth	Pitch Diameter	Catalog Number	Bore		Hub		Weight (Approx.)
			Stock	Max.	H	L	
	MM		MM	MM	MM	MM	
12	36.80	D06B12	10	16	25	25	0.11
13	39.79	D06B13	10	20	28	25	0.14
14	42.80	D06B14	10	21	31	25	0.17
15	45.81	D06B15	10	23	34	25	0.20
16	48.82	D06B16	12	25	37	30	0.26
17	51.83	D06B17	12	27	40	30	0.32
18	54.85	D06B18	12	29	43	30	0.37
19	57.87	D06B19	12	30	46	30	0.42
20	60.89	D06B20	12	33	49	30	0.48
21	63.91	D06B21	12	34	52	30	0.54
22	66.93	D06B22	12	36	55	30	0.61
23	69.95	D06B23	12	38	58	30	0.67
24	72.97	D06B24	12	40	61	30	0.74
25	76.00	D06B25	12	42	64	30	0.81
26	79.02	D06B26	12	43	67	30	0.91
27	82.05	D06B27	12	46	70	30	0.97
28	85.07	D06B28	12	48	73	30	1.07
29	88.09	D06B29	12	50	76	30	1.14
30	91.12	D06B30	12	53	79	30	1.23
32	97.17	D06B32	16	54	80	30	1.30
35	106.26	D06B35	16	54	80	30	1.42
36	109.29	D06B36	16	60	90	30	1.58
38	115.35	D06B38	16	48	90	30	1.82
40	121.40	D06B40	16	60	90	35	1.87
42	127.46	D06B42	19	60	90	35	1.93
45•	136.55	D06B45	19	48	90	35	2.01
48	145.64	D06B48	19	60	90	35	2.12
52	157.75	D06B52	19	60	90	35	2.23
57•	172.91	D06B57	19	48	90	35	2.34
60	182.00	D06B60	19	60	90	35	2.54
68	206.24	D06B68	19	60	90	35	2.74
70	212.30	D06B70	19	60	90	35	2.94
72	218.37	D06B72	19	60	90	35	3.14
76•	230.49	D06B76	19	48	90	35	3.35
84	254.74	D06B84	19	60	90	38	7.10
95	288.08	D06B95	25	56	95	38	8.64
96	291.11	D06B96	25	63	95	38	8.75
114	345.68	D06B114	25	63	95	38	11.12

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

• Cast iron.

ISO 06B-2

0.375 INCH (9.525MM) PITCH DUPLEX

CHAIN DATA:

BS 228/3

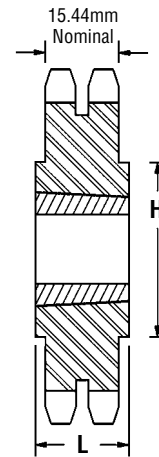
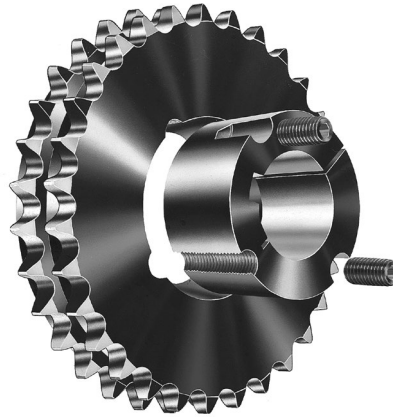
ISO 06B-2

PITCH: 9.525mm (0.375 in.)

ROLLER DIAMETER: 6.35mm (0.250 in.)

ROLLER WIDTH: 5.72mm (0.225 in.)

TENSILE: 18,500 Newtons.



TYPE B

Duplex-Taper Bushed-Steel/Cast

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max.	Dimension		Weight (Approx.)	
					L	H	Rim	Bushing
	MM				MM	MM	Kilos	Kilos
16	48.82	D06BTB16	1008	25	22.2	42+	0.11	0.09
17	51.83	D06BTB17	1008	25	22.2	44+	0.12	0.09
18	54.85	D06BTB18	1008	25	22.2	45	0.18	0.09
19	57.87	D06BTB19	1008	25	22.2	47	0.20	0.09
20	60.89	D06BTB20	1008	25	22.2	48	0.24	0.09
21	63.91	D06BTB21	1008	25	22.2	51	0.29	0.09
22	66.93	D06BTB22	1108	28	22.2	52	0.30	0.12
23	69.95	D06BTB23	1210	32	25.4	59	0.26	0.21
24	72.97	D06BTB24	1210	32	25.4	63	0.34	0.21
25	76.00	D06BTB25	1210	32	25.4	65	0.41	0.21
26	79.02	D06BTB26	1210	32	25.4	65	0.45	0.09
27	82.05	D06BTB27	1210	32	25.4	65	0.50	0.12
28	85.07	D06BTB28	1210	32	25.4	65	0.54	0.21
29	88.09	D06BTB29	1210	32	25.4	65	0.51	0.21
30	91.12	D06BTB30	1210	32	25.4	65	0.61	0.21
32	97.17	D06BTB32	1610	42	25.4	82	0.79	0.31
35	106.26	D06BTB35	1610	42	25.4	82	0.97	0.31
38	115.35	D06BTB38	1610	42	25.4	89	1.16	0.31
40	121.40	D06BTB40	1610	42	25.4	89	1.40	0.31
45	136.55	D06BTB45	1610	42	25.4	89	1.64	0.31
48	145.64	D06BTB48	1610	42	25.4	89	1.67	0.31
54	163.82	D06BTB54	1610	42	25.4	89	1.70	0.31
57•	172.91	D06BTB57	1610	42	25.4	89	1.75	0.31
60	182.00	D06BTB60	1610	42	25.4	92	2.23	0.31
70	212.30	D06BTB70	1610	42	25.4	92	2.71	0.31
76•	230.49	D06BTB76	1610	42	25.4	111	3.19	0.31
95	288.08	D06BTB95	1610	42	25.4	111	6.90	0.31
114	345.68	D06BTB114	2012	50	31.8	111	8.00	0.59

+ Recessed groove for hub clearance.

• Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

Metric Sprockets

Martin

0.375 INCH (9.525MM) PITCH TRIPLEX

ISO **06B-3**

CHAIN DATA:

BS 228/3

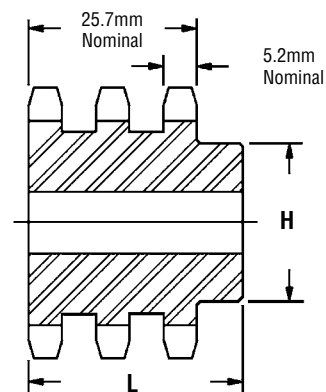
ISO 06B-3

PITCH: 9.525mm (0.375 in.)

ROLLER DIAMETER: 6.35mm (0.250 in.)

ROLLER WIDTH: 5.72mm (0.225 in.)

TENSILE: 27,500 Newtons.



TYPE B

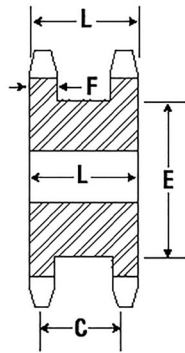
Triplex-Type B-Steel

No. Teeth	Pitch Diameter	Catalog Number	Bore		Hub		Weight (Approx.)
			Stock	Max.	H	L	
	MM		MM	MM	MM	MM	
12	36.80	E06B12	12	16	25	35	0.23
13	39.79	E06B13	12	20	28	35	0.27
14	42.80	E06B14	12	21	31	35	0.32
15	45.81	E06B15	12	23	34	35	0.36
16	48.82	E06B16	12	25	37	35	0.45
17	51.83	E06B17	12	27	40	35	0.54
18	54.85	E06B18	12	29	43	35	0.64
19	57.87	E06B19	12	30	46	35	0.72
20	60.89	E06B20	12	33	49	35	0.77
21	63.91	E06B21	14	34	52	40	0.86
22	66.93	E06B22	14	35	54	40	0.95
23	69.95	E06B23	14	38	58	40	1.04
24	72.97	E06B24	14	40	61	40	1.18
25	76.02	E06B25	14	42	64	40	1.27
26	79.02	E06B26	14	43	67	40	1.31
27	82.05	E06B27	14	46	70	40	1.36
28	85.07	E06B28	14	48	73	40	1.50
29	88.09	E06B29	14	50	76	40	1.68
30	91.12	E06B30	14	54	80	40	1.72
32	97.17	E06B32	16	54	80	40	2.00
35	106.26	E06B35	16	54	80	40	2.25
36	109.29	E06B36	16	60	90	40	2.33
38	115.35	E06B38	16	60	90	40	2.49
40	121.40	E06B40	16	60	90	48	2.65
42	127.46	E06B42	19	60	90	48	2.81
45	136.55	E06B45	19	60	90	48	3.00
48	145.64	E06B48	19	60	90	48	3.20
52	157.75	E06B52	19	60	90	48	3.46
57	172.91	E06B57	19	60	90	48	4.77
60	181.99	E06B60	19	60	90	48	5.02
68	206.24	E06B68	19	60	90	48	5.69
70	212.30	E06B70	19	60	90	48	5.86
72	218.37	E06B72	19	60	90	48	6.02
76	230.49	E06B76	19	67	100	48	8.48
84	254.74	E06B84	19	67	100	48	9.37
95	288.08	E06B95	25	67	100	54	13.61
96	291.11	E06B96	25	67	100	54	13.75
114	345.69	E06B114	25	67	100	54	17.48

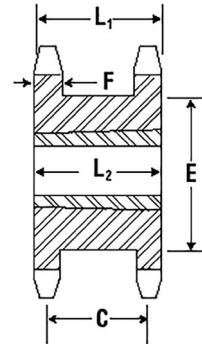
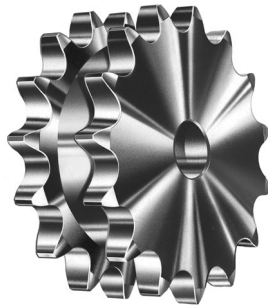
Maximum bores shown will accommodate standard and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

ISO **08B-1**

0.500 INCH (12.70MM) PITCH Double Simplex



TYPE A



TYPE ATB



Double Simplex - Type A Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	F (Nom.)	
12	DS08A12	53.00	49.07	A	12	24	35.7	28.58	34.0	7.2	0.35
13	DS08A13	57.40	53.06	A	12	26	35.7	28.58	38.0	7.2	0.41
14	DS08A14	61.80	57.07	A	12	27	35.7	28.58	42.0	7.2	0.49
15	DS08A15	65.50	61.09	A	12	30	35.7	28.58	46.0	7.2	0.55
16	DS08A16	69.50	65.10	A	12	34	35.7	28.58	50.0	7.2	0.64
17	DS08A17	73.60	69.11	A	12	36	35.7	28.58	54.0	7.2	0.73
18	DS08A18	77.80	73.14	A	12	38	35.7	28.58	58.0	7.2	0.82
19	DS08A19	81.70	77.16	A	12	41	35.7	28.58	62.0	7.2	1.00
20	DS08A20	85.80	81.18	A	12	44	35.7	28.58	66.0	7.2	1.18
21	DS08A21	89.70	85.21	A	16	46	35.7	28.58	70.0	7.2	1.32
22	DS08A22	93.80	89.24	A	16	48	35.7	28.58	74.0	7.2	1.36
23	DS08A23	98.20	93.27	A	16	52	35.7	28.58	78.0	7.2	1.59
24	DS08A24	101.80	97.30	A	16	54	35.7	28.58	83.0	7.2	1.70
25	DS08A25	105.80	101.33	A	16	57	35.7	28.58	87.0	7.2	1.82

Double Simplex - Taper Bushed - Steel

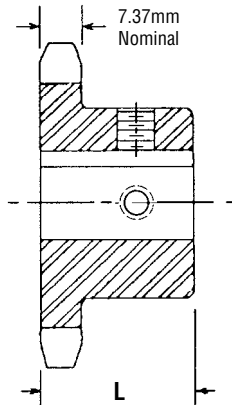
No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	L ₁	Dimensions				Wt. Rim Only
			Outside Diameter	Pitch Diameter					C	E	L ₂	F (Nom.)	
14	DS08ATB14H	1008	61.80	57.07	9	25	ATB	35.7	28.58	41.0	22.2	7.2	0.32
15	DS08ATB15H	1008	65.50	61.08	9	25	ATB	35.7	28.58	45.0	22.2	7.2	0.40
16	DS08ATB16H	1108	69.50	65.10	9	28	ATB	35.7	28.58	49.0	22.2	7.2	0.44
17	DS08ATB17H	1215	73.60	69.12	11	32	ATB	35.7	28.58	54.0	38.1	7.2	0.43
18	DS08ATB18H	1215	77.80	73.14	11	32	ATB	35.7	28.58	58.0	38.1	7.2	0.46
19	DS08ATB19H	1215	81.70	77.16	11	32	ATB	35.7	28.58	62.0	38.1	7.2	0.50
20	DS08ATB20H	1215	85.80	81.18	11	32	ATB	35.7	28.58	66.0	38.1	7.2	0.59
21	DS08ATB21H	1615	89.70	85.21	14	42	ATB	35.7	28.58	70.0	38.1	7.2	0.60
22	DS08ATB22H	1615	93.80	89.24	14	42	ATB	35.7	28.58	74.0	38.1	7.2	0.64
23	DS08ATB23H	1615	98.20	93.27	14	42	ATB	35.7	28.58	78.0	38.1	7.2	0.68
24	DS08ATB24H	1615	101.80	97.30	14	42	ATB	35.7	28.58	82.0	38.1	7.2	0.77
25	DS08ATB25H	2012	105.80	101.33	14	50	ATB	35.7	28.58	86.0	38.1	7.2	0.86

Metric Sprockets

Martin

0.500 INCH (12.70MM) PITCH **Bored-to-Size**

ISO **08B-1**



TYPE BS

CHAIN DATA:

BS 228/7

ISO 08B-1

PITCH: 12.70mm (0.500 IN.)

ROLLER DIAMETER: 8.51mm (0.335 IN.)

ROLLER WIDTH: 7.75mm (0.305 IN.)

TENSILE: 19,000 Newtons.

#08B-1 CHAIN

No. Teeth	Catalog Number	Pitch Diam.	Length Thru Bore	Approx. Wt. (Kilos)	Stock Finished Bores (mm) Included Keyway and Setscrew													
10	08BS10	41.10	25	.11	*12	14	16	19										
11	08BS11	45.07	25	.13	*12	14	16	19	20	22								
12	08BS12	49.07	28	.15	*12	14	16	19	20	22	24	25	28					
13	08BS13	53.06	28	.20	*12	14	16	19	20	22	24	25	28					
14	08BS14	57.07	28	.23	*12	14	16	19	20	22	24	25	28					
15	08BS15	61.09	28	.24	*12	14	16	19	20	22	24	25	28	30	32			
16	08BS16	65.10	28	.30			16	19	20	22	24	25	28	30	32			
17	08BS17	69.11	28	.40			16	19	20	22	24	25	28	30	32			
18	08BS18	73.14	28	.47			16	19	20	22	24	25	28	30	32	35	38	
19	08BS19	77.16	28	.53			16	19	20	22	24	25	28	30	32	35	38	
20	08BS20	81.19	28	.60			16	19	20	22	24	25	28	30	32	35	38	
21	08BS21	85.22	28	.69			16	19	20	22	24	25	28	30	32	35	38	
22	08BS22	89.24	28	.75			16	19	20	22	24	25	28	30	32	35	38	
23	08BS23	93.27	28	.87				19	20	22	24	25	28	30	32	35	38	
24	08BS24	97.29	28	.95				19	20	22	24	25	28	30	32	35	38	
25	08BS25	101.33	28	1.01				19	20	22	24	25	28	30	32	35	38	
26	08BS26	105.36	30	1.09				19	20	22	24	25	28	30	32	35	38	
27	08BS27	109.40	30	1.13				19	20	22	24	25	28	30	32	35	38	
28	08BS28	113.42	30	1.17				19	20	22	24	25	28	30	32	35	38	
29	08BS29	117.46	30	1.41				19	20	22	24	25	28	30	32	35	38	
30	08BS30	121.50	30	1.46				19	20	22	24	25	28	30	32	35	38	

* Indicates no Keyway. (2) M6 Setscrews only in 12mm Bore.
Hub diameters vary to suit different Bore Sizes.

ISO **08B-1**

0.500 INCH (12.70MM) PITCH SIMPLEX

Simplex-Type B-Steel/Cast

Simplex-Type A — Steel

CHAIN DATA:

BS 228/7

ISO 08B-1

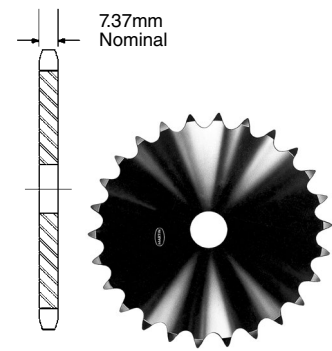
PITCH: 12.70mm (0.500 in.)

ROLLER DIAMETER: 8.51mm (0.335 in.)

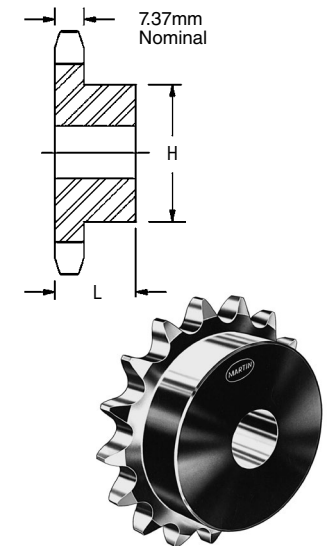
ROLLER WIDTH: 7.75mm (0.305 in.)

TENSILE: 19,000 Newtons.

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos	Catalog Number	Bore Stock MM	Weight (Approx.) Kilos
			Stock	Max.	H	L				
8	33.18	08B8	10	13	20	25	0.06	08A8	8	0.061
9	37.13	08B9	10	15	24	25	0.09	08A9	8	0.075
10	41.10	08B10	10	17	26	25	0.12	08A10	8	0.091
11	45.07	08B11	10	20	29	25	0.15	08A11	10	0.105
12	49.07	08B12	10	22	33	28	0.21	08A12	10	0.125
13	53.06	08B13	10	25	37	28	0.27	08A13	10	0.146
14	57.07	08B14	10	27	41	28	0.33	08A14	10	0.170
15	61.09	08B15	10	30	45	28	0.39	08A15	10	0.191
16	65.10	08B16	12	33	50	28	0.46	08A16	10	0.215
17	69.11	08B17	12	34	52	28	0.51	08A17	10	0.241
18	73.14	08B18	12	37	56	28	0.59	08A18	10	0.269
19	77.16	08B19	12	40	60	28	0.67	08A19	10	0.297
20	81.19	08B20	12	42	64	28	0.77	08A20	10	0.327
21	85.22	08B21	14	45	68	28	0.85	08A21	12	0.357
22	89.24	08B22	14	46	70	28	0.92	08A22	12	0.391
23	93.27	08B23	14	46	70	28	0.95	08A23	12	0.428
24	97.29	08B24	14	46	70	28	0.98	08A24	12	0.460
25	101.33	08B25	14	46	70	28	1.01	08A25	12	0.497
26	105.36	08B26	16	46	70	30	1.09	08A26	16	0.538
27	109.40	08B27	16	46	70	30	1.13	08A27	16	0.577
28	113.42	08B28	16	46	70	30	1.17	08A28	16	0.619
29	117.46	08B29	16	54	80	30	1.41	08A29	16	0.661
30	121.50	08B30	16	54	80	30	1.46	08A30	16	0.706
31	125.54	08B31	16	60	90	30	1.75	08A31	16	0.753
32	129.56	08B32	16	60	90	30	1.79	08A32	16	0.801
33	133.60	08B33	16	60	90	30	1.83	08A33	16	0.851
34	137.64	08B34	16	60	90	30	1.87	08A34	16	0.903
35	141.68	08B35	16	60	90	30	1.94	08A35	16	0.956
36	145.72	08B36	16	60	90	35	2.21	08A36	16	1.013
37	149.76	08B37	16	60	90	35	2.24	08A37	16	1.062
38	153.80	08B38	16	60	90	35	2.33	08A38	16	1.117
39	157.83	08B39	16	60	90	35	2.39	08A39	16	1.176
40	161.87	08B40	16	60	90	35	2.44	08A40	16	1.236
41	165.91	08B41	19	60	90	35	2.47	08A41	20	1.305
42	169.95	08B42	19	60	90	35	2.52	08A42	20	1.367
43	173.99	08B43	19	60	90	35	2.56	08A43	20	1.435
44	178.03	08B44	19	60	90	35	2.60	08A44	20	1.501
45•	182.07	08B45	19	60	90	35	2.64	08A45	20	1.570
46	186.10	08B46	19	60	90	35	2.73	08A46	20	1.639
47	190.14	08B47	19	60	90	35	2.79	08A47	20	1.710
48	194.18	08B48	19	67	100	35	2.85	08A48	20	1.782
50	202.26	08B50	19	67	100	35	2.96	08A50	20	1.928
54	218.43	08B54	19	67	100	35	3.18	08A54	20	2.231
57•	230.54	08B57	19	67	100	35	3.36	08A57	20	2.483
60	242.66	08B60	19	67	100	35	3.54	08A60	20	2.745
64	258.82	08B64	19	67	100	35	3.60	08A64	25	3.122
70	283.07	08B70	19	67	100	35	3.80	08A70	25	3.710
72	291.16	08B72	19	67	100	35	4.00	08A72	25	3.924
76•	307.33	08B76	19	48	100	40	4.12	08A76	25	4.361
80	323.48	08B80	19	67	100	35	5.00	08A80	25	4.820
84	339.65	08B84	19	67	100	35	6.12	08A84	25	5.297
85	343.70	08B85	19	67	100	35	6.28	08A85	25	5.411
92	371.99	08B92	19	67	100	35	7.21	08A92	25	6.253
95•	384.11	08B95	19	67	100	35	7.48	08A95	25	6.760
96	388.15	08B96	25	67	100	35	7.62	08A96	25	6.892
114	460.90	08B114	25	67	100	35	9.80	08A114	25	9.684



TYPE A



TYPE B

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

• Available in Cast or Steel.

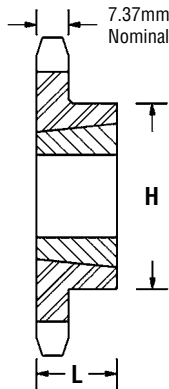
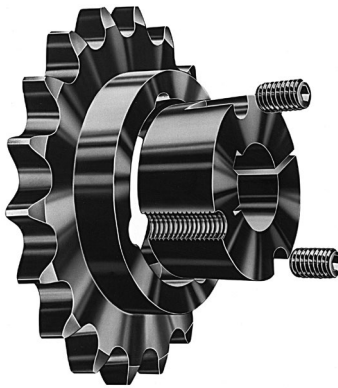
Cast will be shipped unless otherwise specified.

Metric Sprockets

Martin

0.500 INCH (12.70MM) PITCH **SIMPLEX**

ISO **08B-1**



CHAIN DATA:

BS 228/7

ISO 08B-1

PITCH: 12.70mm (0.500 in.)

ROLLER DIAMETER: 8.51mm (0.335 in.)

ROLLER WIDTH: 7.75mm (0.305 in.)

TENSILE: 19,000 Newtons.

TYPE B

#08B-1 CHAIN

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max.	Dimension		Weight (Approx.)	
	MM				L	H	Rim	Bushing
				MM	MM	MM	Kilos	Kilos
14	57.07	08BTB14	1008	25	22.2	46+	0.12	0.09
15	61.09	08BTB15	1008	25	22.2	46	0.18	0.09
16	65.10	08BTB16	1108	28	22.2	52	0.24	0.12
17	69.11	08BTB17	1210	32	25.4	60+	0.24	0.21
18	73.14	08BTB18	1210	32	25.4	60+	0.30	0.21
19	77.16	08BTB19	1210	32	25.4	63	0.33	0.21
20	81.19	08BTB20	1610	42	25.4	71	0.32	0.31
21	85.22	08BTB21	1610	42	25.4	71	0.37	0.31
22	89.24	08BTB22	1610	42	25.4	76	0.50	0.31
23	93.27	08BTB23	1610	42	25.4	76	0.53	0.31
24	97.29	08BTB24	1610	42	25.4	76	0.54	0.31
25	101.33	08BTB25	1610	42	25.4	76	0.59	0.31
26	105.36	08BTB26	1610	42	25.4	76	0.61	0.31
27	109.40	08BTB27	1610	42	25.4	90	0.94	0.31
28	113.42	08BTB28	2012	50	31.8	90	0.86	0.59
29	117.46	08BTB29	2012	50	31.8	90	0.90	0.59
30	121.50	08BTB30	2012	50	31.8	90	0.94	0.59
32	129.56	08BTB32	2012	50	31.8	90	1.12	0.59
35	141.68	08BTB35	2012	50	31.8	90	1.30	0.59
36	145.72	08BTB36	2012	50	31.8	90	1.48	0.59
38	153.80	08BTB38	2012	50	31.8	102	1.67	0.59
40	161.87	08BTB40	2012	50	31.8	102	1.80	0.59
42	169.95	08BTB42	2012	50	31.8	102	1.93	0.59
45	182.07	08BTB45	2012	50	31.8	102	2.06	0.59
48	194.18	08BTB48	2012	50	31.8	102	2.36	0.59
54	218.43	08BTB54	2012	50	31.8	102	2.66	0.59
57•	230.54	08BTB57	2012	50	31.8	102	3.07	0.59
60	242.66	08BTB60	2012	50	31.8	102	3.23	0.59
70	283.07	08BTB70	2012	50	31.8	102	3.39	0.59
72	291.16	08BTB72	2012	50	31.8	102	3.55	0.59
76•	307.33	08BTB76	2012	50	31.8	102	3.71	0.59
80	323.48	08BTB80	2012	50	31.8	102	4.55	0.59
84	339.65	08BTB84	2012	50	31.8	102	5.39	0.59
95•	384.11	08BTB95	2012	50	31.8	102	6.23	0.59
96	388.15	08BTB96	2012	50	31.8	102	7.00	0.59
114	460.90	08BTB114	2517	60	44.5	108	8.10	1.30

+ Has recessed groove in hub for chain clearance.

• Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

ISO 08B-2

0.500 INCH (12.70MM) PITCH DUPLEX

CHAIN DATA:

BS 228/7

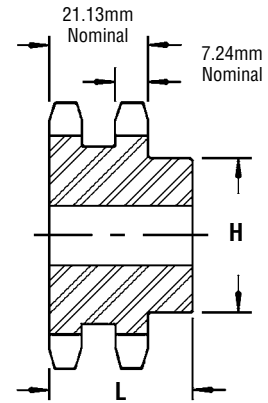
ISO 08B-2

PITCH: 12.70mm (0.500 in.)

ROLLER DIAMETER: 8.51mm (0.335 in.)

ROLLER WIDTH: 7.75mm (0.305 in.)

TENSILE: 36,500 Newtons.



TYPE B

#08B-1 CHAIN

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock	Max.	H	L	
			MM	MM	MM	MM	
10	41.10	D08B10	10	17	26	32	0.15
11	45.07	D08B11	11	21	30	35	0.22
12	49.07	D08B12	12	24	35	35	0.29
13	53.06	D08B13	12	25	38	35	0.36
14	57.07	D08B14	12	28	42	35	0.44
15	61.09	D08B15	12	30	46	35	0.52
16	65.10	D08B16	14	33	50	35	0.61
17	69.11	D08B17	14	35	54	35	0.70
18	73.14	D08B18	14	38	58	35	0.81
19	77.16	D08B19	14	41	62	35	0.91
20	81.19	D08B20	14	43	66	35	1.10
21	85.22	D08B21	16	46	70	40	1.29
22	89.24	D08B22	16	46	70	40	1.37
23	93.27	D08B23	16	46	70	40	1.46
24	97.29	D08B24	16	50	75	40	1.64
25	101.33	D08B25	16	54	80	40	1.83
26	105.36	D08B26	20	57	85	40	1.96
27	109.40	D08B27	20	57	85	40	2.09
28	113.42	D08B28	20	60	90	40	2.31
29	117.46	D08B29	20	63	95	40	2.53
30	121.50	D08B30	20	67	100	40	2.75
32	129.56	D08B32	20	67	100	40	3.08
34	137.64	D08B34	20	67	100	40	3.24
35	141.68	D08B35	20	67	100	40	3.41
36	145.72	D08B36	20	72	110	40	3.74
38	153.80	D08B38	20	72	110	40	4.08
40	161.87	D08B40	20	72	110	45	4.23
42	169.95	D08B42	20	72	110	45	4.41
45•	182.07	D08B45	20	72	110	45	4.52
48	194.18	D08B48	20	72	110	45	4.82
54	218.43	D08B54	25	72	110	45	5.21
57•	230.54	D08B57	25	72	110	45	5.66
60	242.66	D08B60	25	72	110	45	5.91
68	274.99	D08B68	25	72	110	45	6.33
72	291.16	D08B72	25	72	110	45	6.72
76•	307.33	D08B76	25	72	110	45	7.03
84	339.65	D08B84	30	80	120	45	8.31
95•	384.10	D08B95	30	80	120	45	10.26
96	388.15	D08B96	30	80	120	45	11.00
114	460.90	D08B114	30	80	120	45	12.45

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

• Available in Cast or Steel.

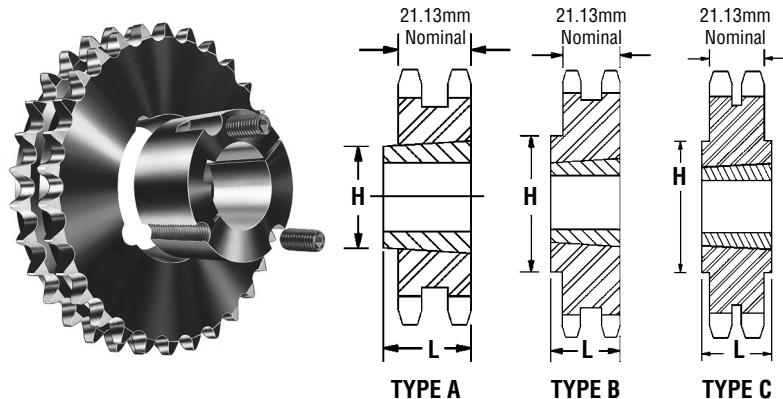
Cast will be shipped unless otherwise specified.

Metric Sprockets

Martin

0.500 INCH (12.70MM) PITCH DUPLEX

ISO 08B-2



CHAIN DATA:

BS 228/7

ISO 08B-2

PITCH: 12.70mm (0.500 in.)

ROLLER DIAMETER: 8.51mm (0.335 in.)

ROLLER WIDTH: 7.75mm (0.305 in.)

TENSILE: 36,500 Newtons.

Duplex-Taper Bushed-Steel / Cast

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight (Approx.)	
					L MM	H MM	Rim Kilos	Bushing Kilos
15	61.09	D08ATB15	1008	25	22.2	48	0.23	0.09
15	61.09	D08BTB15	1008	25	22.2	48	0.23	0.09
16	65.10	D08ATB16	1108	28	22.2	50	0.25	0.12
16	65.10	D08BTB16	1108	28	22.2	50	0.25	0.12
17	69.11	D08ATB17	1210	32	25.4	56	0.26	0.21
17	69.11	D08BTB17	1210	32	25.4	56	0.26	0.21
18	73.14	D08BTB18	1210	32	25.4	59	0.31	0.21
19	77.16	D08BTB19	1210	32	25.4	63	0.43	0.21
20	81.19	D08BTB20	1610	42	25.4	67	0.45	0.31
21	85.22	D08BTB21	1610	42	25.4	71	0.43	0.31
22	89.24	D08BTB22	1610	42	25.4	76	0.54	0.31
23	93.27	D08BTB23	1610	42	25.4	79	0.66	0.31
24	97.29	D08BTB24	2012	50	31.8	84	0.60	0.59
25	101.33	D08BTB25	2012	50	31.8	87	0.74	0.59
26	105.36	D08BTB26	2012	50	31.8	87	0.81	0.59
27	109.40	D08BTB27	2012	50	31.8	87	0.92	0.59
28	113.42	D08BTB28	2012	50	31.8	87	1.03	0.59
29	117.46	D08BTB29	2012	50	31.8	87	1.16	0.59
30	121.50	D08BTB30	2012	50	31.8	87	1.25	0.59
35	141.68	D08BTB35	2012	50	31.8	102	1.65	0.59
36	145.72	D08BTB36	2012	50	31.8	102	2.05	0.59
38	153.80	D08BTB38	2012	50	31.8	102	2.53	0.59
42	169.94	D08CTB42	2517	60	44.5	108	3.13	1.30
45	182.07	D08BTB45	2012	50	31.8	102	3.73	0.59
45	182.07	D08CTB45	2517	60	44.5	108	3.73	1.30
48	194.18	D08CTB48	2517	60	44.5	108	4.25	1.30
54	218.42	D08CTB54	2517	60	44.5	108	5.49	1.30
57•	230.53	D08CTB57	2517	60	44.5	108	6.16	1.30
60	242.66	D08CTB60	2517	60	44.5	108	6.87	1.30
68	274.99	D08CTB68	2517	60	44.5	108	8.95	1.30
70	283.07	D08CTB70	2517	60	44.5	108	9.51	1.30
72	291.15	D08CTB72	2517	60	44.5	108	10.10	1.30
76•	307.31	D08CTB76	2517	60	44.5	108	11.30	1.30
84	339.65	D08CTB84	2517	60	44.5	108	10.20	1.30
95•	384.10	D08CTB95	2517	60	44.5	108	12.90	1.30
96	388.15	D08CTB96	2517	60	44.5	108	13.30	1.30
114	460.90	D08CTB114	2517	60	44.5	108	21.10	1.30

• Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

Taper bore direction of type B may be different with current catalog, please double check *Martin*.

ISO 08B-3

0.500 INCH (12.70MM) PITCH TRIPLEX

CHAIN DATA:

BS 228/7

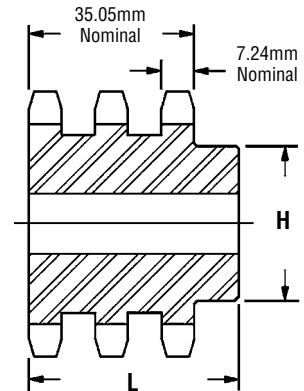
ISO 08B-3

PITCH: 12.70mm (0.500 in.)

ROLLER DIAMETER: 8.51mm (0.335 in.)

ROLLER WIDTH: 7.75mm (0.305 in.)

TENSILE: 56,000 Newtons.



TYPE B

Triplex-Type B-Steel

No. Teeth	Pitch Diameter	Catalog Number	Bore		Hub		Weight (Approx.)
			Stock	Max.	H	L	
	MM		MM	MM	MM	MM	
11	45.07	E08B11	14	21	30	50	0.32
12	49.07	E08B12	14	23	34	50	0.45
13	53.06	E08B13	14	25	38	50	0.59
14	57.07	E08B14	14	28	42	50	0.72
15	61.09	E08B15	14	30	46	50	0.81
16	65.10	E08B16	16	33	50	50	0.90
17	69.11	E08B17	16	35	54	50	1.04
18	73.14	E08B18	16	38	58	50	1.22
19	77.16	E08B19	16	41	62	50	1.41
20	81.19	E08B20	16	43	66	50	1.58
21	85.22	E08B21	20	46	70	55	1.81
22	89.24	E08B22	20	46	70	55	2.03
23	93.27	E08B23	20	46	70	55	2.27
24	97.29	E08B24	20	50	75	55	2.44
25	101.33	E08B25	20	54	80	55	2.54
26	105.36	E08B26	20	57	85	55	2.85
27	109.40	E08B27	20	57	85	55	2.85
28	113.42	E08B28	20	60	90	55	3.16
29	117.46	E08B29	20	63	95	55	3.34
30	121.50	E08B30	20	67	100	55	3.48
35	141.68	E08B35	20	72	110	55	4.79
36	145.72	E08B36	25	80	120	55	5.43
38	153.80	E08B38	25	80	120	60	6.49
42	169.95	E08B42	25	80	120	60	7.17
45	182.07	E08B45	25	80	120	60	7.69
48	194.18	E08B48	25	80	120	60	8.20
52	210.34	E08B52	25	80	120	60	8.88
54	218.43	E08B54	25	80	120	60	9.22
57	230.54	E08B57	25	80	120	60	12.62
60	242.66	E08B60	25	87	130	65	13.84
68	274.99	E08B68	25	87	130	65	15.69
72	291.16	E08B72	25	87	130	65	16.61
76	307.33	E08B76	30	87	130	65	22.23
84	339.65	E08B84	30	87	130	65	24.57
95	384.11	E08B95	30	87	130	65	33.11
114	460.90	E08B114	30	87	130	65	41.90

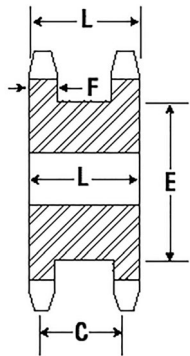
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

Metric Sprockets

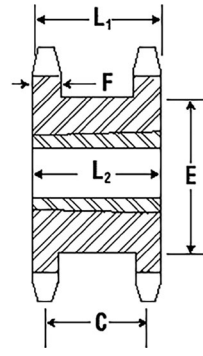
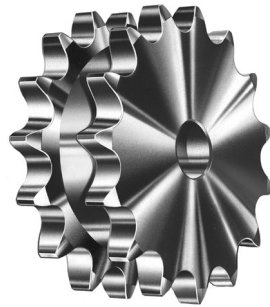
Martin

0.625 INCH (15.88MM) PITCH **Double Single**

ISO **10B-1**



TYPE A



TYPE ATB



Double Single - Type A Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	F (Nom.)	
12	DS10A12	68.00	61.34	A	16	30	42.0	33.34	43.0	9.1	0.59
13	DS10A13	73.00	66.32	A	16	34	42.0	33.34	48.0	9.1	0.70
14	DS10A14	78.00	71.34	A	16	36	42.0	33.34	53.0	9.1	0.83
15	DS10A15	83.00	76.36	A	16	40	42.0	33.34	58.0	9.1	0.95
16	DS10A16	88.00	81.37	A	16	42	42.0	33.34	63.0	9.1	1.09
17	DS10A17	93.00	86.39	A	16	44	42.0	33.34	68.0	9.1	1.32
18	DS10A18	98.00	91.42	A	16	47	42.0	33.34	73.0	9.1	1.50
19	DS10A19	103.30	96.45	A	16	52	42.0	33.34	78.0	9.1	1.68
20	DS10A20	108.40	101.49	A	16	57	42.0	33.34	83.0	9.1	1.91
21	DS10A21	113.40	106.52	A	16	57	42.0	33.34	88.0	9.1	2.18
22	DS10A22	118.00	111.55	A	16	61	42.0	33.34	93.0	9.1	2.41
23	DS10A23	123.40	116.58	A	16	65	42.0	33.34	98.0	9.1	2.64
24	DS10A24	128.30	121.62	A	16	69	42.0	33.34	103.0	9.1	2.86
25	DS10A25	134.00	126.66	A	16	72	42.0	33.34	109.0	9.1	3.16

Double Single - Taper Bushed - Steel

No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	L ₁	Dimensions				Wt. Rim Only
			Outside Diameter	Pitch Diameter					C	E	L ₂	F (Nom.)	
12	DS10ATB12H	1108	68.00	61.34	9	28	ATB	42	33.34	43.0	22.2	9.1	0.46
13	DS10ATB13H	1108	73.00	66.32	9	28	ATB	42	33.34	48.0	22.2	9.1	0.56
14	DS10ATB14H	1108	78.00	71.34	9	28	ATB	42	33.34	53.0	22.2	9.1	0.70
15	DS10ATB15H	1215	83.00	76.36	11	32	ATB	42	33.34	58.0	38.1	9.1	0.68
16	DS10ATB16H	1215	88.00	81.37	11	32	ATB	42	33.34	64.0	38.1	9.1	0.78
17	DS10ATB17H	1615	93.00	86.39	14	42	ATB	42	33.34	68.0	38.1	9.1	0.82
18	DS10ATB18H	1615	98.30	91.42	14	42	ATB	42	33.34	73.0	38.1	9.1	1.04
19	DS10ATB19H	1615	103.30	96.42	14	42	ATB	42	33.34	78.0	38.1	9.1	1.23
20	DS10ATB20H	1615	108.40	101.49	14	42	ATB	42	33.34	83.0	38.1	9.1	1.35
21	DS10ATB21H	2012	113.40	106.52	14	50	ATB	42	33.34	88.0	31.8	9.1	1.50
22	DS10ATB22H	2012	118.00	111.55	14	50	ATB	42	33.34	93.0	31.8	9.1	1.59
23	DS10ATB23H	2012	123.40	116.58	14	50	ATB	42	33.34	98.0	31.8	9.1	1.68
24	DS10ATB24H	2012	128.30	121.62	14	50	ATB	42	33.34	103.0	31.8	9.1	1.77
25	DS10ATB25H	2012	134.00	126.66	14	50	ATB	42	33.34	109.0	31.8	9.1	1.86

ISO 10B-1

0.625 INCH (15.88MM) PITCH Bored-to-Size

CHAIN DATA:

BS 228/11

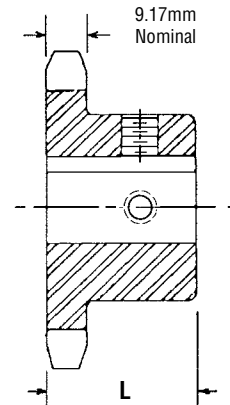
ISO 10B-1

PITCH: 15.875mm (0.625 IN.)

ROLLER DIAMETER: 10.16mm (0.400 IN.)

ROLLER WIDTH: 9.65mm (0.380 IN.)

TENSILE: 23,000 Newtons.



TYPE BS

Triplex-Type B-Steel

No. Teeth	Catalog Number	Pitch Diam.	Length Thru Bore	Approx. Wt. (Kilos)	Stock Finished Bores (mm) Included Keyway and Setscrew											
10	10BS10	51.37	25	.14	16	19	20	22	*24	*25						
11	10BS11	56.34	28	.27	16	19	20	22	24	25	28	30				
12	10BS12	61.34	28	.32	16	19	20	22	24	25	28	30	32			
13	10BS13	66.32	28	.36	16	19	20	22	24	25	28	30	32			
14	10BS14	71.34	30	.45	16	19	20	22	24	25	28	30	32			
15	10BS15	76.36	30	.54		19	20	22	24	25	28	30	32	35		
16	10BS16	81.37	30	.66		19	20	22	24	25	28	30	32	35	38	
17	10BS17	86.39	30	.73		19	20	22	24	25	28	30	32	35	38	
18	10BS18	91.42	30	.86		19	20	22	24	25	28	30	32	35	38	40
19	10BS19	96.45	30	.91		19	20	22	24	25	28	30	32	35	38	40
20	10BS20	101.49	30	.95		19	20	22	24	25	28	30	32	35	38	40
21	10BS21	106.52	30	1.02		19	20	22	24	25	28	30	32	35	38	40
22	10BS22	111.55	30	1.09		19	20	22	24	25	28	30	32	35	38	40
23	10BS23	116.58	30	1.13		19	20	22	24	25	28	30	32	35	38	40
24	10BS24	121.62	30	1.36		19	20	22	24	25	28	30	32	35	38	40
25	10BS25	126.66	30	1.45		19	20	22	24	25	28	30	32	35	38	40
26	10BS26	131.70	35	1.53		19	20	22	24	25	28	30	32	35	38	40
27	10BS27	136.75	35	1.62		19	20	22	24	25	28	30	32	35	38	40
28	10BS28	141.78	35	1.71		19	20	22	24	25	28	30	32	35	38	40
29	10BS29	146.83	35	1.80		19	20	22	24	25	28	30	32	35	38	40
30	10BS30	151.87	35	1.88		19	20	22	24	25	28	30	32	35	38	40

* Keyway with Setscrew at 90 ° & 180°.

Hub diameters vary to suit different Bore Sizes.

KEYWAY IS ON CENTER LINE OF TOOTH.

Metric Sprockets

Martin

0.625 INCH (15.88MM) PITCH **SIMPLEX**

ISO **10B-1**

CHAIN DATA:

BS 228/11

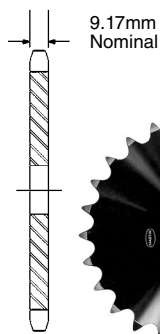
ISO 10B-1

PITCH: 15.88mm (0.625 in.)

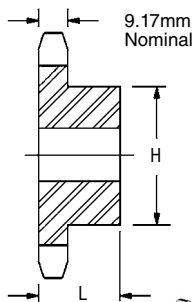
ROLLER DIAMETER: 10,16mm (0.400 in.)

ROLLER WIDTH: 9.65mm (0.380 in.)

TENSILE: 23,000 Newtons,



TYPE A



TYPE B

Simplex-Type B-Steel/Cast

Simplex-Type A — Steel

No. Teeth	Pitch Diameter	Catalog Number	Bore		Hub		Weight	Catalog Number	Bore Stock	Weight (Approx.)
			Stock	Max.	H	L	(Approx.)			
			MM	MM	MM	MM	Kilos			
8	41.48	10B8	10	16	25	25	0.19	10A8	10	0.07
9	46.42	10B9	10	21	30	25	0.24	10A9	10	0.10
10	51.37	10B10	10	24	35	25	0.31	10A10	10	0.12
11	56.34	10B11	12	25	37	30	0.38	10A11	10	0.15
12	61.34	10B12	12	28	42	30	0.47	10A12	10	0.18
13	66.32	10B13	12	31	47	30	0.56	10A13	10	0.21
14	71.34	10B14	12	34	52	30	0.66	10A14	10	0.24
15	76.36	10B15	12	38	57	30	0.77	10A15	10	0.28
16	81.37	10B16	12	40	60	30	0.90	10A16	12	0.31
17	86.39	10B17	12	40	60	30	0.95	10A17	12	0.36
18	91.42	10B18	14	46	70	30	1.17	10A18	12	0.41
19	96.45	10B19	14	46	70	30	1.23	10A19	12	0.46
20	101.49	10B20	14	50	75	30	1.39	10A20	12	0.52
21	106.52	10B21	16	50	75	30	1.45	10A21	12	0.57
22	111.55	10B22	16	54	80	30	1.61	10A22	12	0.62
23	116.58	10B23	16	54	80	30	1.68	10A23	12	0.67
24	121.62	10B24	16	54	80	30	1.75	10A24	12	0.74
25	126.66	10B25	16	54	80	30	1.83	10A25	12	0.81
26	131.70	10B26	20	57	85	35	2.24	10A26	16	0.88
27	136.75	10B27	20	57	85	35	2.32	10A27	16	0.96
28	141.78	10B28	20	60	90	35	2.54	10A28	16	1.02
29	146.83	10B29	20	60	90	35	2.62	10A29	16	1.09
30	151.87	10B30	20	60	90	35	2.71	10A30	16	1.20
31	156.92	10B31	20	63	95	35	2.95	10A31	16	1.28
32	161.95	10B32	20	63	95	35	3.04	10A32	16	1.38
33	167.00	10B33	20	63	95	35	3.15	10A33	16	1.46
34	172.05	10B34	20	63	95	35	3.24	10A34	16	1.55
35	177.10	10B35	20	63	95	35	3.03	10A35	16	1.63
36	182.15	10B36	20	67	100	35	3.27	10A36	20	2.00
37	187.20	10B37	20	67	100	35	3.39	10A37	20	1.82
38	192.24	10B38	20	67	100	35	3.49	10A38	20	1.93
39	197.29	10B39	20	67	100	35	3.58	10A39	20	2.05
40	202.34	10B40	20	67	100	35	3.69	10A40	20	2.15
41	207.39	10B41	20	55	100	32	3.78	10A41	20	2.25
42	212.44	10B42	20	55	100	32	3.87	10A42	20	2.38
43	217.49	10B43	20	55	100	32	3.96	10A43	20	2.49
44	222.53	10B44	20	55	100	32	4.05	10A44	20	2.61
45	227.58	10B45	20	63	100	32	4.18	10A45	20	2.74
46	232.63	10B46	20	63	100	32	4.34	10A46	20	2.87
47	237.68	10B47	20	63	100	32	4.50	10A47	20	2.99
48	242.73	10B48	25	63	100	32	4.66	10A48	24	3.13
49	247.78	10B49	25	63	100	32	4.82	10A49	24	3.28
50	252.82	10B50	25	63	100	32	4.98	10A50	24	3.43
51	257.87	10B51	25	63	100	32	5.14	10A51	24	3.57
52	262.92	10B52	25	63	100	32	5.30	10A52	24	3.72
53	267.97	10B53	25	63	100	32	5.46	10A53	24	3.87
54	273.03	10B54	25	63	100	32	5.62	10A54	24	4.02
55	278.08	10B55	25	63	100	32	5.78	10A55	24	4.16
56	283.13	10B56	25	63	100	32	5.94	10A56	24	4.31
57	288.18	10B57	25	63	100	32	6.00	10A57	24	4.46
58	293.23	10B58	25	63	100	32	6.44	10A58	24	4.64
59	298.27	10B59	25	63	100	32	6.88	10A59	24	4.83
60	303.32	10B60	25	63	100	32	7.32	10A60	24	5.01
65	328.58	10B65	25	63	100	32	7.48	10A65	25	5.92
70	353.84	10B70	25	63	100	44	7.76	10A70	25	6.83
72	363.95	10B72	25	63	100	44	8.20	10A72	25	7.20
76	384.16	10B76	25	72	100	44	8.68	10A76	25	7.93
80	404.35	10B80	25	72	108	44	10.20	10A80	25	8.89
84	424.57	10B84	25	72	108	44	11.72	10A84	25	9.85
85	429.62	10B85	25	72	108	44	11.95	10A85	30	10.09
92	464.98	10B92	25	72	108	44	12.77	10A92	30	11.76
95	480.14	10B95	25	72	108	44	13.24	10A95	30	12.48
96	485.19	10B96	25	72	108	44	14.00	10A96	30	12.72
112	566.03	10B112	25	72	108	44	15.55	10A112	30	16.55
114	576.13	10B114	25	72	108	44	16.25	10A114	30	17.03
120	606.45	10B120	25	72	108	44	18.25	10A120	30	18.50

ISO 10B-1

0.625 INCH (15.88MM) PITCH SIMPLEX

CHAIN DATA:

BS 228/11

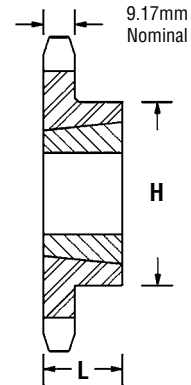
ISO 10B-1

PITCH: 15.875mm (0.625 in.)

ROLLER DIAMETER: 10.16mm (0.400 in.)

ROLLER WIDTH: 9.65mm (0.380 in.)

TENSILE: 23,000 Newtons.



TYPE B

Triplex-Type B-Steel

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max.	Dimension		Weight (Approx.)	
					L	H	Rim	Bushing
	MM			MM	MM	MM	Kilos	Kilos
12	61.34	10BTB12	1008	25	22.2	49.2+	0.21	0.09
13	66.32	10BTB13	1008	25	22.2	50.0	0.25	0.09
14	71.34	10BTB14	1108	28	22.2	52.0	0.27	0.12
15	76.36	10BTB15	1210	32	25.4	63.0+	0.33	0.21
16	81.37	10BTB16	1610	42	25.4	70.6+	0.32	0.31
17	86.39	10BTB17	1610	42	25.4	71.0+	0.40	0.31
18	91.42	10BTB18	1610	42	25.4	75.0	0.50	0.31
19	96.45	10BTB19	1610	42	25.4	76.0	0.56	0.31
20	101.49	10BTB20	1610	42	25.4	76.0	0.64	0.31
21	106.52	10BTB21	1610	42	25.4	76.0	0.69	0.31
22	111.55	10BTB22	1610	42	25.4	76.0	0.75	0.31
23	116.58	10BTB23	1610	42	25.4	76.0	0.81	0.31
24	121.62	10BTB24	2012	50	31.8	90.0	1.00	0.59
25	126.66	10BTB25	2012	50	31.8	90.0	1.06	0.59
26	131.70	10BTB26	2012	50	31.8	90.0	1.14	0.59
27	136.75	10BTB27	2012	50	31.8	90.0	1.19	0.59
28	141.78	10BTB28	2012	50	31.8	90.0	1.28	0.59
29	146.83	10BTB29	2012	50	31.8	90.0	1.37	0.59
30	151.87	10BTB30	2012	50	31.8	98.0	1.73	0.59
32	161.96	10BTB32	2012	50	31.8	98.0	1.87	0.59
35	177.10	10BTB35	2012	50	31.8	98.0	2.09	0.59
36	182.15	10BTB36	2012	50	31.8	98.0	2.26	0.59
38	192.24	10BTB38	2012	50	31.8	102.0	2.47	0.59
40	202.33	10BTB40	2012	50	31.8	102.0	2.80	0.59
42	212.43	10BTB42	2012	50	31.8	102.0	3.04	0.59
45•	227.58	10BTB45	2012	50	31.8	111.0	3.67	0.59
48	242.73	10BTB48	2012	50	31.8	102.0	3.74	0.59
54	273.03	10BTB54	2012	50	31.8	102.0	4.59	0.59
57•	288.19	10BTB57	2012	50	31.8	111.0	5.45	0.59
60	303.33	10BTB60	2012	50	31.8	102.0	5.65	0.59
70	353.84	10BTB70	2517	60	44.5	111.0	7.76	1.30
72	363.95	10BTB72	2517	60	44.5	111.0	8.16	1.30
76•	384.15	10BTB76	2517	60	44.5	111.0	9.35	1.30
80	404.35	10BTB80	2517	60	44.5	111.0	9.90	1.30
84	424.57	10BTB84	2517	60	44.5	111.0	10.80	1.30
95	480.14	10BTB95	2517	60	44.5	111.0	13.60	1.30
96	485.19	10BTB96	2517	60	44.5	111.0	13.90	1.30
114	576.13	10BTB114	2517	60	44.5	111.0	19.30	1.30

+ Has recessed groove in hub for chain clearance.

• Available in Cast or Steel.

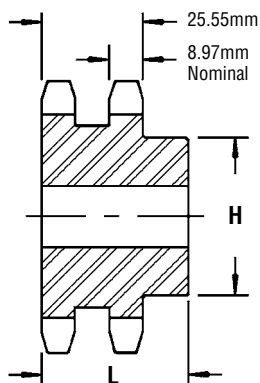
Cast will be shipped unless otherwise specified.

Metric Sprockets

Martin

0.625 INCH (15.88MM) PITCH **DUPLEX**

ISO **10B-2**



TYPE B

CHAIN DATA:

BS 228/11

ISO 10B-2

PITCH: 15.875mm (0.625 in.)

ROLLER DIAMETER: 10.16mm (0.400 in.)

ROLLER WIDTH: 9.65mm (0.380 in.)

TENSILE: 44,400 Newtons.

Duplex-Type B-Steel/Cast

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM	
11	56.34	D10B11	14	25	37	40	0.45
12	61.34	D10B12	14	29	43	40	0.57
13	66.32	D10B13	14	33	48	40	0.70
14	71.34	D10B14	14	35	53	40	0.84
15	76.36	D10B15	14	39	58	40	0.99
16	81.37	D10B16	16	42	63	45	1.23
17	86.39	D10B17	16	46	68	45	1.47
18	91.42	D10B18	16	48	73	45	1.68
19	96.45	D10B19	16	53	79	45	1.90
20	101.49	D10B20	16	56	84	45	2.10
21	106.52	D10B21	16	57	85	45	2.31
22	111.55	D10B22	16	60	90	45	2.58
23	116.58	D10B23	16	63	95	45	2.85
24	121.62	D10B24	16	67	100	45	3.14
25	126.66	D10B25	16	70	105	45	3.44
26	131.70	D10B26	20	72	110	45	3.69
27	136.75	D10B27	20	72	110	45	3.95
28	141.78	D10B28	20	77	115	45	4.25
29	146.83	D10B29	20	77	115	45	4.55
30	151.87	D10B30	20	80	120	45	4.87
32	161.95	D10B32	20	80	120	45	4.95
35	177.10	D10B35	20	80	120	45	5.08
36	182.15	D10B36	20	80	120	45	5.11
38	192.24	D10B38	20	80	120	50	5.20
40	202.34	D10B40	30	80	120	50	5.41
45•	227.58	D10B45	30	80	120	50	5.94
48	242.73	D10B48	30	80	120	60	7.27
57•	288.18	D10B57	30	80	120	60	8.61
60	303.32	D10B60	32	87	130	60	9.30
70	353.84	D10B70	32	87	130	60	9.99
76•	384.16	D10B76	32	87	130	60	10.68
80	404.35	D10B80	32	87	130	60	11.00
95	480.14	D10B95	32	87	130	60	12.00
114	576.13	D10B114	32	87	130	60	13.00

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

• Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

ISO 10B-2

0.625 INCH (15.88MM) PITCH DUPLEX

CHAIN DATA:

BS 228/11

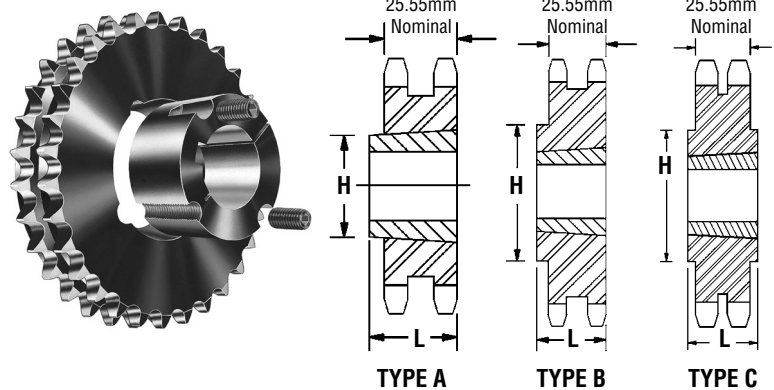
ISO 10B-2

PITCH: 15.875mm (0.625 in.)

ROLLER DIAMETER: 10.16mm (0.400 in.)

ROLLER WIDTH: 9.65mm (0.380 in.)

TENSILE: 44,400 Newtons.



Duplex-Taper Bushed-Steel/Cast

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max.	Dimension		Weight (Approx.)	
	MM				L	H	Rim	Bushing
				MM	MM	MM	Kilos	Kilos
14	71.34	D10ATB14	1008	25	22.1	—	0.43	0.09
15	76.36	D10ATB15	1210	32	25.5	—	0.39	0.21
16	81.37	D10ATB16	1610	42	25.5	—	0.35	0.31
17	86.39	D10ATB17	1610	42	25.5	—	0.46	0.31
18	91.42	D10ATB18	1610	42	25.5	—	0.62	0.31
19	96.45	D10ATB19	1610	42	25.5	—	0.75	0.31
20	101.49	D10ATB20	1610	42	25.5	—	0.87	0.31
20	101.49	D10BTB20	2012	42	25.5	—	0.87	0.31
21	106.52	D10ATB21	1610	42	25.5	—	1.05	0.31
21	106.52	D10BTB21	2012	42	25.5	—	1.05	0.31
22	111.55	D10ATB22	1610	42	25.5	—	1.20	0.31
22	111.55	D10BTB22	2012	42	31.8	—	1.20	0.31
23	116.58	D10ATB23	1610	42	25.5	—	1.38	0.31
23	116.58	D10BTB23	2012	42	31.8	—	1.38	0.31
24	121.62	D10BTB24	2012	50	31.8	90.0	1.43	0.59
25	126.66	D10BTB25	2012	50	31.8	90.0	1.62	0.59
26	131.70	D10BTB26	2012	50	31.8	90.0	1.79	0.59
27	136.75	D10BTB27	2012	50	31.8	90.0	2.00	0.59
28	141.78	D10BTB28	2012	50	31.8	90.0	2.20	0.59
29	146.83	D10BTB29	2012	50	31.8	90.0	2.43	0.59
30	151.87	D10BTB30	2012	50	31.8	90.0	2.66	0.59
36	182.15	D10CTB36	2517	60	44.5	108.0	4.33	1.30
38	192.24	D10BTB38	2012	50	31.8	108.0	4.88	0.59
38	192.24	D10CTB38	2012	50	31.8	108.0	4.88	1.30
42	212.44	D10CTB42	2517	60	44.5	111.0	5.99	1.30
45	227.58	D10CTB45	2517	60	44.5	130.0	6.83	1.30
48	242.73	D10CTB48	2517	60	44.5	111.0	7.66	1.30
57	288.18	D10CTB57	2517	60	44.5	130.0	10.15	1.30
60	303.32	D10CTB60	2517	60	44.5	111.0	10.99	1.30
68	343.74	D10CTB68	2517	60	44.5	108.0	12.40	1.30
76	384.16	D10CTB76	2517	60	44.5	130.0	16.50	1.30
84	424.57	D10CTB84	2517	60	44.5	108.0	20.90	1.30
95	480.14	D10CTB95	2517	60	44.5	108.0	29.20	1.30
114	576.13	D10CTB114	2517	60	44.5	108.0	43.30	1.30

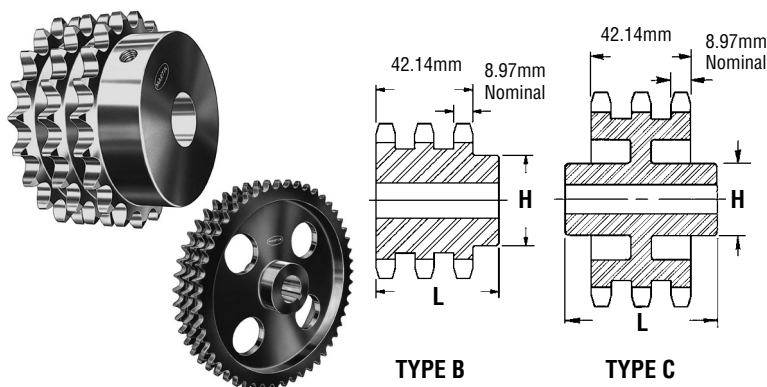
Taper bore direction of type B may be different with current catalogue, please double check *Martin*.

Metric Sprockets

Martin

0.625 INCH (15.88MM) PITCH **TRIPLEX**

ISO **10B-3**



CHAIN DATA:

BS 228/11

ISO 10B-3

PITCH: 15.88mm (0.625 in.)

ROLLER DIAMETER: 10.16mm (0.400 in.)

ROLLER WIDTH: 9.65mm (0.380 in.)

TENSILE: 44,400 Newtons.

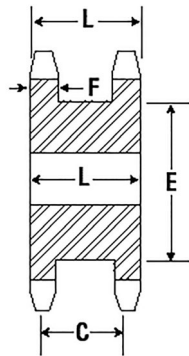
Triples-Type B-Steel/Cast

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM	
11	56.34	E10B11	16	25	37	55	0.68
12	61.34	E10B12	16	29	43	55	0.82
13	66.32	E10B13	16	32	48	55	1.05
14	71.34	E10B14	16	35	53	55	1.23
15	76.36	E10B15	16	38	58	55	1.36
16	81.37	E10B16	16	42	53	60	1.55
17	86.38	E10B17	16	45	68	60	1.81
18	91.42	E10B18	16	48	73	60	2.09
19	96.45	E10B19	16	53	79	60	2.40
20	101.49	E10B20	16	56	84	60	2.72
21	106.52	E10B21	20	57	85	60	3.04
22	111.55	E10B22	20	60	90	60	3.36
23	116.58	E10B23	20	63	95	60	3.67
24	121.62	E10B24	20	67	100	60	4.00
25	126.66	E10B25	20	70	105	60	4.31
26	131.70	E10B26	20	72	110	60	5.18
27	136.75	E10B27	20	72	110	60	5.63
28	141.78	E10B28	20	77	115	60	6.04
29	146.83	E10B29	20	77	115	60	6.22
30	151.87	E10B30	20	80	120	60	6.36
32	161.95	E10B32	20	80	120	60	7.26
35	177.10	E10B35	20	80	120	60	8.60
36	182.15	E10B36	25	80	120	60	9.34
38	192.24	E10B38	25	80	120	60	11.03
45	227.58	E10B45	30	80	120	75	14.94
48	242.73	E10B48	30	80	120	75	16.62
57	288.18	E10B57	32	80	120	75	21.77
60	303.32	E10B60	32	80	120	75	22.22
76	384.16	E10C76	32	80	120	89	23.13
80	404.35	E10C80	32	80	120	89	25.14
95	480.14	E10C95	32	80	120	95	32.66
114	576.13	E10C114	32	80	120	95	44.76

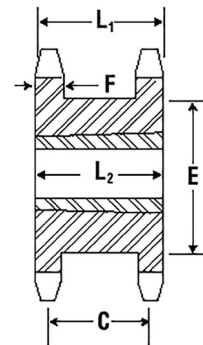
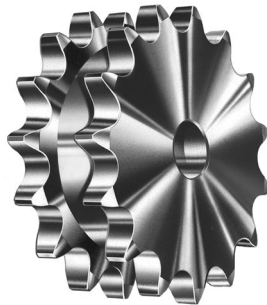
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

ISO **12B-1**

0.750 INCH (19.05MM) PITCH Double Single



TYPE A



TYPE ATB



Double Single - Type A Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	F (Nom.)	
12	DS12A12	81.50	73.61	A	19	35	49.2	38.1	53.0	11.1	1.08
13	DS12A13	87.50	79.60	A	19	38	49.2	38.1	59.0	11.1	1.29
14	DS12A14	93.60	85.61	A	19	42	49.2	38.1	65.0	11.1	1.52
15	DS12A15	99.80	91.63	A	19	38	49.2	38.1	72.0	11.1	1.73
16	DS12A16	105.50	97.65	A	19	46	49.2	38.1	77.0	11.1	2.09
17	DS12A17	111.50	103.67	A	19	55	49.2	38.1	82.0	11.1	2.41
18	DS12A18	118.00	109.71	A	19	58	49.2	38.1	88.0	11.1	2.95
19	DS12A19	124.20	115.75	A	19	62	49.2	38.1	94.0	11.1	3.09
20	DS12A20	129.70	121.78	A	19	65	49.2	38.1	110.0	11.1	3.30
21	DS12A21	136.00	127.82	A	24	70	49.2	38.1	106.0	11.1	3.62
22	DS12A22	141.80	133.86	A	24	73	49.2	38.1	112.0	11.1	4.00
23	DS12A23	149.00	139.90	A	24	77	49.2	38.1	118.0	11.1	4.60
24	DS12A24	153.90	145.94	A	24	81	49.2	38.1	124.0	11.1	4.95
25	DS12A25	160.00	152.00	A	24	85	49.2	38.1	130.0	11.1	5.30

Double Single - Taper Bushed - Steel

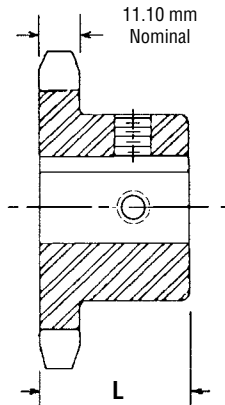
No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	L ₁	Dimensions				Wt. Rim Only
			Outside Diameter	Pitch Diameter					C	E	L ₂	F (Nom.)	
12	DS12ATB12H	1215	81.50	73.61	11	32	ATB	49.2	38.1	53.0	38.1	11.1	0.95
13	DS12ATB13H	1215	87.50	79.60	11	32	ATB	49.2	38.1	59.0	38.1	11.1	1.19
14	DS08ATB14H	1215	93.60	85.61	11	32	ATB	49.2	38.1	65.0	38.1	11.1	1.32
15	DS08ATB15H	1615	99.80	91.63	14	42	ATB	49.2	38.1	72.0	38.1	11.1	1.44
16	DS08ATB16H	1615	105.50	97.65	14	42	ATB	49.2	38.1	77.0	38.1	11.1	1.74
17	DS08ATB17H	1615	111.50	103.67	14	42	ATB	49.2	38.1	82.0	38.1	11.1	2.05
18	DS08ATB18H	2012	118.00	109.71	14	50	ATB	49.2	38.1	88.0	31.8	11.1	2.27
19	DS08ATB19H	2012	124.20	115.75	14	50	ATB	49.2	38.1	94.0	31.8	11.1	2.64
20	DS08ATB20H	2517	129.70	121.78	16	65	ATB	49.2	38.1	100.0	44.5	11.1	2.75
21	DS08ATB21H	2517	136.00	127.82	16	65	ATB	49.2	38.1	106.0	44.5	11.1	2.91
22	DS08ATB22H	2517	141.80	133.86	16	65	ATB	49.2	38.1	112.0	44.5	11.1	3.11
23	DS08ATB23H	2517	149.00	139.90	16	65	ATB	49.2	38.1	118.0	44.5	11.1	3.32
24	DS08ATB24H	2517	153.90	145.94	16	65	ATB	49.2	38.1	124.0	44.5	11.1	3.53
25	DS08ATB25H	2517	160.00	152.00	16	65	ATB	49.2	38.1	130.0	44.5	11.1	3.73

Metric Sprockets

Martin

0.750 INCH (19.05MM) PITCH **Bored-to-Size**

ISO **12B-1**



TYPE BS

CHAIN DATA:

BS 228/13

ISO 12B-1

PITCH: 19.05mm (0.750 IN.)

ROLLER DIAMETER: 12.07mm (0.475 IN.)

ROLLER WIDTH: 11.68mm (0.460 IN.)

TENSILE: 30,500 Newtons.

#12B-1 CHAIN

No. Teeth	Catalog Number	Pitch Diam.	Length Thru Bore	Approx. Wt. (Kilos)	Stock Finished Bores (mm) Included Keyway and Setscrew															
10	12BS10	61.64	30	.32	19	20	22	24	25	28	30	32								
11	12BS11	67.61	35	.41	19	20	22	24	25	28	30	32								
12	12BS12	73.61	35	.59	19	20	22	24	25	28	30	32	35	38						
13	12BS13	79.59	35	.59	19	20	22	24	25	28	30	32	35	38						
14	12BS14	85.61	35	.73	19	20	22	24	25	28	30	32	35	38	40					
15	12BS15	91.63	35	.77	19	20	22	24	25	28	30	32	35	38	40					
16	12BS16	97.65	35	.95	19	20	22	24	25	28	30	32	35	38	40	42				
17	12BS17	103.67	35	1.09					25	28	30	32	35	38	40	42				
18	12BS18	109.71	35	1.18					25	28	30	32	35	38	40	42	45	48	50	
19	12BS19	115.75	35	1.54					25	28	30	32	35	38	40	42	45	48	50	
20	12BS20	121.78	35	1.77					25	28	30	32	35	38	40	42	45	48	50	
21	12BS21	127.82	40	2.00					25	28	30	32	35	38	40	42	45	48	50	
22	12BS22	133.86	40	2.13					25	28	30	32	35	38	40	42	45	48	50	
23	12BS23	139.90	40	2.27					25	28	30	32	35	38	40	42	45	48	50	
24	12BS24	145.94	40	2.40					25	28	30	32	35	38	40	42	45	48	50	
25	12BS25	152.00	40	2.45					25	28	30	32	35	38	40	42	45	48	50	
26	12BS26	158.04	40	2.49					25	28	30	32	35	38	40	42	45	48	50	
27	12BS27	164.09	40	2.53					25	28	30	32	35	38	40	42	45	48	50	
28	12BS28	170.13	40	2.57					25	28	30	32	35	38	40	42	45	48	50	
29	12BS29	176.19	40	2.61					25	28	30	32	35	38	40	42	45	48	50	
30	12BS30	182.25	40	2.65					25	28	30	32	35	38	40	42	45	48	50	

H diameters vary to suit different Bore Sizes.

KEYWAY IS ON CENTER LINE OF TOOTH.

Hub diameters vary to suit different Bore Sizes.

ISO **12B-1**

0.750 INCH (19.05MM) PITCH SIMPLEX

Simplex-Type B-Steel/Cast

Simplex-Type A — Steel

CHAIN DATA:

BS 228/13

ISO 12B-1

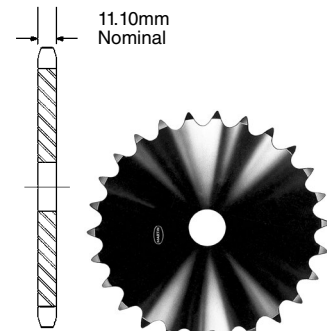
PITCH: 19.05mm (0.750 in.)

ROLLER DIAMETER: 12.07mm (0.475 in.)

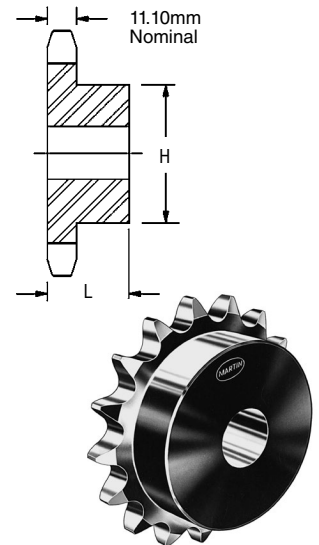
ROLLER WIDTH: 11.68mm (0.460 in.)

TENSILE: 30,500 Newtons.

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos	Catalog Number	Bore Stock MM	Weight (Approx.) Kilos
			Stock	Max.	H	L				
8	49.78	12B8	12	21	31	30	0.22	12A8	12	0.13
9	55.70	12B9	12	25	37	30	0.31	12A9	12	0.16
10	61.64	12B10	12	28	42	30	0.39	12A10	12	0.21
11	67.61	12B11	14	30	46	35	0.54	12A11	14	0.25
12	73.61	12B12	14	34	52	35	0.68	12A12	14	0.30
13	79.59	12B13	14	38	58	35	0.84	12A13	14	0.37
14	85.61	12B14	14	42	64	35	1.01	12A14	14	0.43
15	91.63	12B15	14	46	70	35	1.19	12A15	14	0.50
16	97.65	12B16	16	50	75	35	1.36	12A16	14	0.56
17	103.67	12B17	16	54	80	35	1.56	12A17	14	0.65
18	109.71	12B18	16	54	80	35	1.73	12A18	14	0.73
19	115.75	12B19	16	54	80	35	1.73	12A19	14	0.82
20	121.78	12B20	16	54	80	35	1.83	12A20	14	0.90
21	127.82	12B21	20	60	90	40	2.37	12A21	16	0.99
22	133.86	12B22	20	60	90	40	2.48	12A22	16	1.08
23	139.90	12B23	20	60	90	40	2.58	12A23	16	1.21
24	145.94	12B24	20	60	90	40	2.70	12A24	16	1.33
25	152.00	12B25	20	60	90	40	2.81	12A25	16	1.43
26	158.04	12B26	20	63	95	40	3.11	12A26	16	1.57
27	164.09	12B27	20	63	95	40	3.24	12A27	16	1.69
28	170.13	12B28	20	63	95	40	3.37	12A28	16	1.83
29	176.19	12B29	20	63	95	40	3.49	12A29	16	1.97
30	182.25	12B30	20	63	95	40	3.66	12A30	16	2.11
31	188.31	12B31	20	67	100	40	3.96	12A31	20	2.26
32	194.36	12B32	20	67	100	40	4.14	12A32	20	2.37
33	200.40	12B33	20	67	100	40	4.28	12A33	20	2.58
34	206.46	12B34	20	67	100	40	4.45	12A34	20	2.72
35	212.52	12B35	20	67	100	40	4.62	12A35	20	2.90
36	218.58	12B36	20	67	100	40	4.79	12A36	20	3.04
37	224.64	12B37	20	67	100	40	4.97	12A37	20	3.27
38	230.69	12B38	20	67	100	56	5.15	12A38	20	3.42
39	236.75	12B39	20	67	100	40	5.34	12A39	20	3.61
40	242.81	12B40	20	67	100	40	5.54	12A40	20	3.80
41	248.87	12B41	25	72	107	40	5.72	12A41	25	3.97
42	254.93	12B42	25	72	107	40	5.85	12A42	25	4.18
43	260.98	12B43	25	72	107	40	5.98	12A43	25	4.43
44	267.04	12B44	25	72	107	40	6.15	12A44	25	4.60
45•	273.10	12B45	25	72	107	40	6.30	12A45	25	4.77
46	279.16	12B46	25	72	107	40	6.55	12A46	25	5.07
47	285.21	12B47	25	72	107	40	6.80	12A47	25	5.30
48	291.27	12B48	25	72	107	40	6.90	12A48	25	5.55
49	297.33	12B49	25	72	107	40	6.96	12A49	25	5.81
50	303.39	12B50	25	72	107	40	7.02	12A50	25	6.06
54	327.64	12B54	32	72	110	45	7.40	12A54	25	7.08
57•	345.81	12B57	32	72	110	45	7.75	12A57	25	7.84
60	363.99	12B60	32	72	110	45	7.90	12A60	25	8.82
65	394.29	12B65	32	72	110	45	8.50	12A65	25	10.46
68	412.49	12B68	32	72	110	45	9.75	12A68	30	11.44
70	424.60	12B70	32	72	110	45	10.00	12A70	30	12.10
72	436.74	12B72	32	80	120	50	11.20	12A72	30	12.75
76•	460.99	12B76	32	80	100	50	12.50	12A76	30	14.06
80	485.22	12B80	32	80	120	50	14.10	12A80	30	15.73
84	509.48	12B84	32	80	120	50	15.50	12A84	30	17.40
90	545.85	12B90	32	80	120	50	17.30	12A90	30	19.91
92	557.98	12B92	32	80	120	50	17.80	12A92	30	20.75
95	576.17	12B95	32	94	140	55	18.40	12A95	30	22.00
96	582.23	12B96	32	94	140	55	19.50	12A96	30	22.42
114	691.36	12B114	32	94	140	55	22.00	12A114	30	29.94



TYPE A



TYPE B

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

• Available in Cast or Steel.

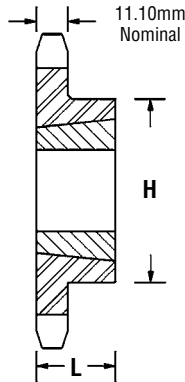
Cast will be shipped unless otherwise specified.

Metric Sprockets

Martin

0.750 INCH (19.05MM) PITCH **SIMPLEX**

ISO **12B-1**



TYPE B

CHAIN DATA:

BS 228/13

ISO 12B-1

PITCH: 19.05mm (0.750 in.)

ROLLER DIAMETER: 12.07mm (0.475 in.)

ROLLER WIDTH: 11.68mm (0.460 in.)

TENSILE: 30,500 Newtons.

Simplex-Taper Bushed-Steel/Cast

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max.	Dimension		Weight (Approx.)	
	MM				L	H	Rim	Bushing
				MM	MM	MM	Kilos	Kilos
11	67.61	12BTB11	1008	25	22.2	47.0	0.25	0.09
12	73.61	12BTB12	1008	25	22.2	49.2	0.31	0.09
13	79.59	12BTB13	1210	32	25.4	63.0+	0.38	0.21
14	85.61	12BTB14	1610	42	25.4	71.0+	0.46	0.31
15	91.63	12BTB15	1610	42	25.4	71.0	0.48	0.31
16	97.65	12BTB16	1610	42	25.4	75.0	0.60	0.31
17	103.67	12BTB17	1610	42	25.4	76.0	0.70	0.31
18	109.71	12BTB18	2012	50	31.8	90.0	0.86	0.59
19	115.75	12BTB19	2012	50	31.8	90.0	0.96	0.59
20	121.78	12BTB20	2012	50	31.8	95.0	1.25	0.59
21	127.82	12BTB21	2517	60	44.5	102.0	1.28	1.30
22	133.86	12BTB22	2517	60	44.5	102.0	1.37	1.30
23	139.90	12BTB23	2517	60	44.5	108.0	1.75	1.30
24	145.94	12BTB24	2517	60	44.5	108.0	1.85	1.30
25	152.00	12BTB25	2517	60	44.5	108.0	1.95	1.30
26	158.04	12BTB26	2517	60	44.5	108.0	2.09	1.30
27	164.09	12BTB27	2517	60	44.5	108.0	2.22	1.30
28	170.13	12BTB28	2517	60	44.5	108.0	2.36	1.30
29	176.19	12BTB29	2517	60	44.5	114.0	2.75	1.30
30	182.25	12BTB30	2517	60	44.5	114.0	2.89	1.30
32	194.36	12BTB32	2517	60	44.5	114.0	3.20	1.30
35	212.52	12BTB35	2517	60	44.5	114.0	3.69	1.30
36	218.58	12BTB36	2517	60	44.5	114.0	3.99	1.30
38•	230.69	12BTB38	2517	60	44.5	124.0	4.60	1.30
40	242.81	12BTB40	2517	60	44.5	114.0	4.75	1.30
42	254.93	12BTB42	2517	60	44.5	114.0	5.16	1.30
45•	273.10	12BTB45	2517	60	44.5	124.0	6.31	1.30
48	291.27	12BTB48	2517	60	44.5	114.0	6.50	1.30
54	327.64	12BTB54	2517	60	44.5	114.0	8.02	1.30
57•	345.81	12BTB57	2517	60	44.5	124.0	9.36	1.30
60	363.99	12BTB60	2517	60	44.5	114.0	9.72	1.30
68	412.49	12BTB68	2517	60	44.5	114.0	12.30	1.30
70	424.60	12BTB70	2517	60	44.5	114.0	12.90	1.30
72	436.74	12BTB72	2517	60	44.5	114.0	13.70	1.30
76•	460.99	12BTB76	2517	60	44.5	124.0	15.70	1.30
84	509.48	12BTB84	2517	60	44.5	114.0	18.30	1.30
95•	576.17	12BTB95	2517	60	44.5	124.0	23.70	1.30
96	582.23	12BTB96	2517	60	44.5	114.0	23.80	1.30
114	691.36	12BTB114	2517	60	44.5	114.0	33.20	1.30

+ Has recessed groove in hub for chain clearance.

• Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

ISO 12B-2

0.750 INCH (19.05MM) PITCH DUPLEX

CHAIN DATA:

BS 228/13

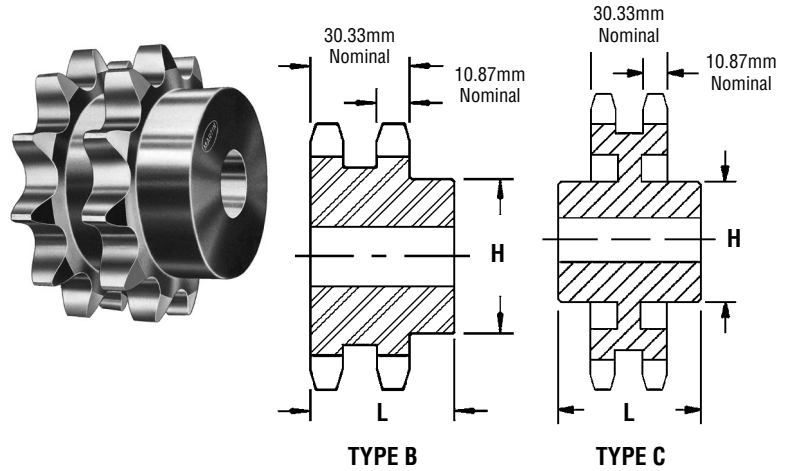
ISO 12B-2

PITCH: 19.05mm (0.750 in.)

ROLLER DIAMETER: 12.07mm (0.475 in.)

ROLLER WIDTH: 11.68mm (0.460 in.)

TENSILE: 61,000 Newtons.



Duplex-Type B/C-Steel/Cast

No. Teeth	Pitch Diameter	Catalog Number	Bore		Hub		Weight (Approx.)
			Stock	Max.	H	L	
	MM		MM	MM	MM	MM	Kilos
10	61.64	D12B10	16	27	40	50	0.90
11	67.61	D12B11	16	31	47	50	1.00
12	73.61	D12B12	16	35	53	50	1.03
13	79.59	D12B13	16	39	59	50	1.26
14	85.61	D12B14	16	42	65	50	1.50
15	91.63	D12B15	16	47	71	50	1.78
16	97.65	D12B16	20	51	77	50	2.08
17	103.67	D12B17	20	56	83	50	2.37
18	109.71	D12B18	20	59	89	50	2.70
19	115.75	D12B19	20	63	95	50	3.07
20	121.78	D12B20	20	67	100	50	3.38
21	127.82	D12B21	20	67	100	50	3.70
22	133.86	D12B22	20	67	100	50	4.11
23	139.90	D12B23	20	72	110	50	4.52
24	145.94	D12B24	20	72	110	50	4.95
25	152.00	D12B25	20	80	120	50	5.39
26	158.04	D12B26	20	80	120	50	5.74
27	164.09	D12B27	20	80	120	50	6.09
28	170.13	D12B28	20	80	120	50	6.63
30	182.25	D12B30	20	80	120	50	7.17
32	194.36	D12B32	20	87	130	50	8.02
35	212.52	D12B35	20	87	130	50	8.87
36	218.58	D12B36	25	87	130	50	9.72
38	230.69	D12B38	25	87	130	50	10.58
40	242.81	D12B40	25	87	130	50	10.86
45•	273.10	D12B45	25	66	130	50	11.15
48	291.27	D12B48	25	87	130	50	11.43
57•	345.81	D12B57	25	72	130	65	11.72
60	363.99	D12B60	32	87	130	65	13.47
68	412.49	D12C68	32	87	130	75	15.98
76•	460.99	D12C76	32	82	130	75	18.50
80	485.22	D12C80	40	87	130	75	19.50
95	576.17	D12C95	40	94	140	85	21.50
96	582.23	D12C96	40	94	140	85	22.00
114	691.36	D12C114	40	94	140	85	24.00

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

• Available in Cast or Steel.

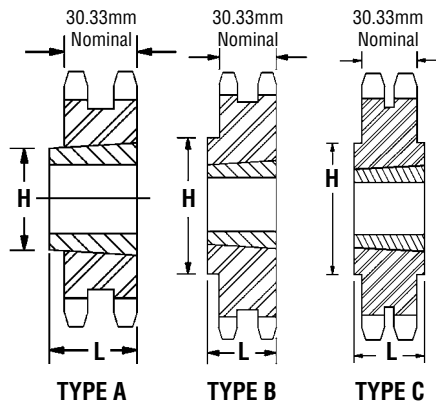
Cast will be shipped unless otherwise specified.

Metric Sprockets

Martin

0.750 INCH (19.05MM) PITCH DUPLEX

ISO 12B-2



CHAIN DATA:

BS 228/13

ISO 12B-2

PITCH: 19.05mm (0.750 in.)

ROLLER DIAMETER: 12.07mm (0.475 in.)

ROLLER WIDTH: 11.68mm (0.460 in.)

TENSILE: 61,000 Newtons.

Duplex-Taper Bushed-Steel/Cast

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max.	Dimension		Weight (Approx.)	
	MM				L	H	Rim	Bushing
	MM			MM	MM	MM	Kilos	Kilos
12	73.61	D12ATB12	1215	32	38.1	—	0.19	0.30
13	79.59	D12ATB13	1215	32	38.1	—	0.36	0.30
14	85.61	D12ATB14	1215	32	38.1	—	0.67	0.30
15	91.63	D12ATB15	1610	42	30.32	—	0.70	0.31
15	91.63	D12BTB15	1610	42	25.4	—	0.70	0.31
16	97.65	D12ATB16	1610	42	30.32	—	0.87	0.31
16	97.65	D12BTB16	1610	42	25.4	—	0.87	0.31
17	103.67	D12ATB17	1610	42	31.8	—	1.10	0.31
17	103.67	D12BTB17	1610	42	25.4	—	1.10	0.31
18	109.71	D12BTB18	2012	50	31.8	90.0	1.05	0.59
19	115.75	D12BTB19	2012	50	31.8	95.0	1.29	0.59
20	121.78	D12BTB20	2517	60	44.5	102.0	1.34	1.30
21	127.82	D12BTB21	2517	60	44.5	107.0	1.71	1.30
22	133.86	D12BTB22	2517	60	44.5	108.0	2.03	1.30
23	139.90	D12BTB23	2517	60	44.5	119.0	2.51	1.30
24	145.94	D12BTB24	2517	60	44.5	108.0	2.58	1.30
25	152.00	D12BTB25	2517	60	44.5	130.0	3.38	1.30
26	158.04	D12BTB26	2517	60	44.5	108.0	3.24	1.30
27	164.09	D12BTB27	2517	60	44.5	130.0	4.00	1.30
28	170.13	D12BTB28	2517	60	44.5	108.0	3.92	1.30
30	182.25	D12BTB30	2517	60	44.5	130.0	5.14	1.30
32	194.36	D12BTB32	2517	60	44.5	130.0	5.95	1.30
35	212.52	D12BTB35	2517	60	44.5	130.0	7.31	1.30
38•	230.69	D12BTB38	3020	75	50.8	152.0	8.62	2.24
40	242.81	D12CTB40	3020	75	50.8	152.0	9.84	2.24
42	254.93	D12CTB42	3020	75	50.8	152.0	10.90	2.24
45•	273.10	D12CTB45	3020	75	50.8	152.0	12.70	2.24
54	327.64	D12CTB54	3020	75	50.8	152.0	18.60	2.24
57•	345.81	D12CTB57	3020	75	50.8	160.0	21.20	2.24
60	363.99	D12CTB60	3020	75	50.8	152.0	15.00	2.24
65	394.29	D12CTB65	3020	75	50.8	152.0	16.60	2.24
70	424.60	D12CTB70	3020	75	50.8	152.0	19.80	2.24
76•	460.99	D12CTB76	3020	75	50.8	152.0	21.10	2.24
84	509.48	D12CTB84	3020	75	50.8	152.0	21.20	2.24
95•	576.17	D12CTB95	3020	75	50.8	152.0	27.30	2.24
114	691.36	D12CTB114	3020	75	50.8	152.0	35.30	2.24

• Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

Taper bore direction of type B may be different with current catalog, please double check *Martin*.

ISO 12B-3

0.750 INCH (19.05MM) PITCH TRIPLEX

CHAIN DATA:

BS 228/13

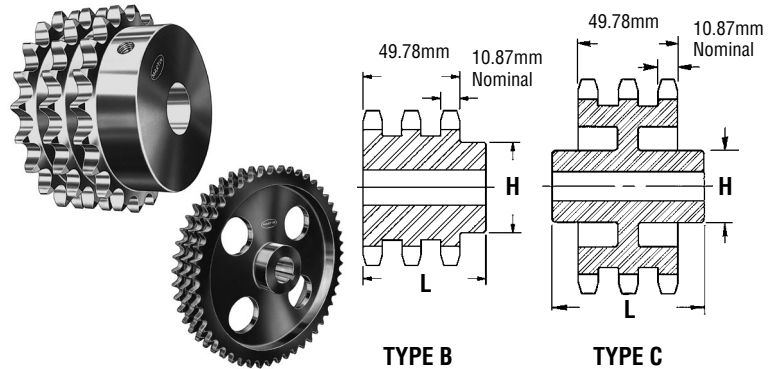
ISO 12B-3

PITCH: 19.05mm (0.750 in.)

ROLLER DIAMETER: 12.07mm (0.475 in.)

ROLLER WIDTH: 11.68mm (0.460 in.)

TENSILE: 92,000 Newtons.



Triplex-Type B/C-Steel/Cast

No. Teeth	Pitch Diameter	Catalog Number	Bore		Hub		Weight (Approx.)
			Stock	Max.	H	L	
			MM	MM	MM	MM	
11	67.62	E12B11	20	31	47	70	1.13
12	73.60	E12B12	20	35	53	70	1.50
13	79.60	E12B13	20	39	59	70	1.77
14	85.61	E12B14	20	42	65	70	2.04
15	91.63	E12B15	20	47	71	70	2.45
16	97.65	E12B16	20	51	77	70	2.95
17	103.67	E12B17	20	56	83	70	3.49
18	109.70	E12B18	20	59	89	70	3.86
19	115.75	E12B19	20	63	95	70	4.54
20	121.78	E12B20	20	67	100	70	5.08
21	127.82	E12B21	20	67	100	70	5.67
22	133.86	E12B22	20	67	100	70	5.99
23	139.90	E12B23	20	72	110	70	6.62
24	145.95	E12B24	20	72	110	70	7.17
25	152.00	E12B25	20	80	120	70	7.71
26	158.04	E12B26	20	80	120	70	8.44
27	164.09	E12B27	20	80	120	70	8.99
28	170.14	E12B28	20	80	120	70	9.49
29	176.19	E12B29	20	80	120	70	9.99
30	182.25	E12B30	20	80	120	70	10.53
35	212.52	E12B35	25	87	130	70	18.95
36	218.58	E12B36	25	87	130	70	19.49
38	230.69	E12B38	25	87	130	70	20.57
45	273.10	E12B45	25	87	130	70	24.36
48	291.27	E12B48	25	87	130	70	25.98
57	345.81	E12B57	32	87	130	85	33.73
60	363.99	E12C60	32	87	130	85	35.51
68	412.49	E12C68	32	87	130	85	36.07
76	460.99	E12C76	40	94	140	85	37.19
80	485.23	E12C80	40	94	140	85	39.15
95	576.17	E12C95	40	94	140	100	47.63

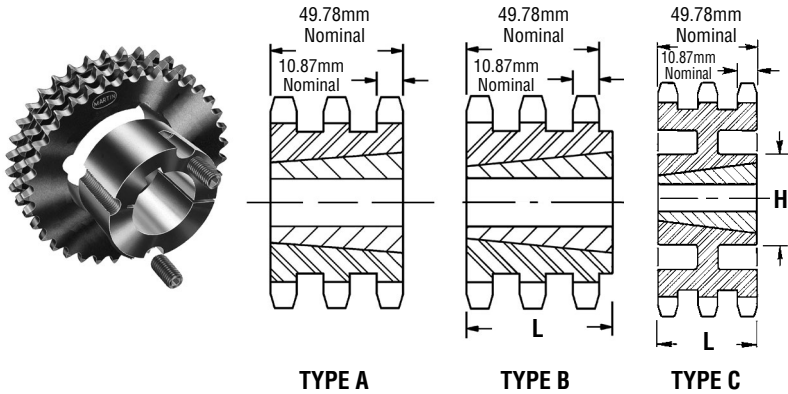
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

Metric Sprockets

Martin

0.750 INCH (19.05MM) PITCH **TRIPLEX**

ISO 12B-3



CHAIN DATA:

BS 228/13

ISO 12B-3

PITCH: 19.05mm (0.750 in.)

ROLLER DIAMETER: 12.07mm (0.475 in.)

ROLLER WIDTH: 11.68mm (0.460 in.)

TENSILE: 92,000 Newtons.

Triplex-Type B/C-Taper Bushed-Steel/Cast

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight (Approx.) Kilos
					L	H	
17	103.67	E12ATB17	2012	50	49.8	—	1.42
19	115.75	E12ATB19	2012	50	49.8	—	2.17
21	127.82	E12ATB21	2517	60	49.8	—	2.28
23	139.90	E12ATB23	2517	60	49.8	—	3.22
25	152.00	E12ATB25	2517	60	49.8	—	4.21
27	164.09	E12BTB27	3020	75	50.8	142	4.10
30	182.25	E12BTB30	3020	75	50.8	160	6.04
38•	230.69	E12BTB38CI	3020	75	50.8	152	11.80
45•	273.10	E12CTB45CI	3020	75	50.8	152	18.10
57•	345.81	E12BTB57	3020	75	50.8	152	31.50
57•	345.81	E12CTB57CI	3020	75	50.8	152	31.50
76•	460.99	E12CTB76CI	3020	75	51.0	152	30.83
95	576.17	E12CTB45CI	3020	75	51.0	152	35.13
114	691.36	E12CTB45CI	3020	75	51.0	152	30.32

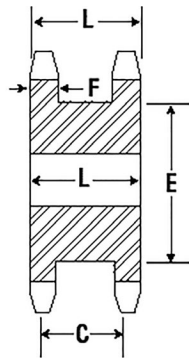
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

• Available in Cast or Steel.

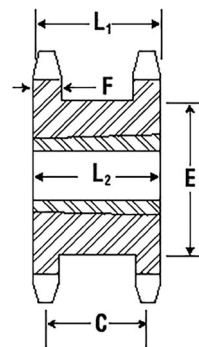
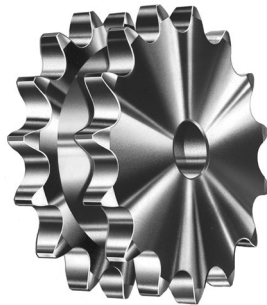
Cast will be shipped unless otherwise specified.

ISO **16B-1**

1.00 INCH (25.40MM) PITCH Double Single



TYPE A



TYPE ATB



Double Single-Type A Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	F (Nom.)	
12	DS16A12	109.00	98.14	A	25	46	63.5	46.5	72.0	16.2	2.48
13	DS16A13	117.00	106.12	A	25	50	63.5	46.5	80.0	16.2	3.09
14	DS16A14	125.00	114.15	A	25	57	63.5	46.5	88.0	16.2	3.70
15	DS16A15	133.00	122.17	A	25	60	63.5	46.5	96.0	16.2	4.35
16	DS16A16	141.00	130.20	A	25	68	63.5	46.5	104.0	16.2	5.00
17	DS16A17	149.00	138.22	A	25	71	63.5	46.5	112.0	16.2	5.75
18	DS16A18	157.00	146.28	A	25	79	63.5	46.5	120.0	16.2	6.50
19	DS16A19	165.20	154.33	A	25	82	63.5	46.5	128.0	16.2	7.40
20	DS16A20	173.20	162.38	A	25	88	63.5	46.5	135.0	16.2	8.30
21	DS16A21	181.20	170.43	A	25	95	63.5	46.5	142.0	16.2	9.20
22	DS16A22	189.30	178.48	A	25	100	63.5	46.5	151.0	16.2	10.15
23	DS16A23	197.50	186.59	A	25	107	63.5	46.5	160.0	16.2	11.20
24	DS16A24	205.50	194.59	A	25	111	63.5	46.5	168.0	16.2	12.80
25	DS16A25	213.50	202.66	A	25	115	63.5	46.5	176.0	16.2	14.40

Double Single-Taper Bushed-Steel

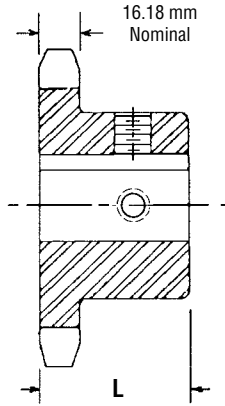
No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	L ₁	Dimensions				Wt. Rim Only
			Outside Diameter	Pitch Diameter					C	E	L ₂	F (Nom.)	
12	DS16ATB12H	1615	109.00	98.14	14	42	ATB	63.5	46.5	72.0	38.1	16.2	1.92
13	DS16ATB13H	1615	117.00	106.12	14	42	ATB	63.5	46.5	80.0	38.1	16.2	2.23
14	DS16ATB14H	2012	125.00	114.15	14	50	ATB	63.5	46.5	88.0	31.8	16.2	2.93
15	DS16ATB15H	2012	133.00	122.17	14	50	ATB	63.5	46.5	96.0	31.8	16.2	3.10
16	DS16ATB16H	2012	141.00	130.20	14	50	ATB	63.5	46.5	104.0	31.8	16.2	3.68
17	DS16ATB17H	2517	149.00	138.23	16	65	ATB	63.5	46.5	112.0	44.5	16.2	3.89
18	DS16ATB18H	2517	157.00	146.27	16	65	ATB	63.5	46.5	120.0	44.5	16.2	4.35
19	DS16ATB19H	3020	165.20	154.33	25	75	ATB	63.5	46.5	128.0	50.8	16.2	4.50
20	DS16ATB20H	3020	173.20	162.37	25	75	ATB	63.5	46.5	135.0	50.8	16.2	5.10
21	DS16ATB21H	3020	181.20	170.42	25	75	ATB	63.5	46.5	142.0	50.8	16.2	6.00
22	DS16ATB22H	3020	189.30	178.48	25	75	ATB	63.5	46.5	151.0	50.8	16.2	6.20
23	DS16ATB23H	3525	197.50	186.54	35	90	ATB	63.5	46.5	160.0	63.5	16.2	4.50
24	DS16ATB24H	3525	205.50	194.60	35	90	ATB	63.5	46.5	168.0	63.5	16.2	5.10
25	DS16ATB25H	3525	213.50	202.66	35	90	ATB	63.5	46.5	176.0	63.5	16.2	6.00

Metric Sprockets

Martin

1.00 INCH(25.40MM) PITCH **Bored-to-Size**

ISO **16B-1**



TYPE BS

CHAIN DATA:

BS 228/15

ISO 16B-1

PITCH: 25.4mm (1.000 IN.)

ROLLER DIAMETER: 15.88mm (0.625 IN.)

ROLLER WIDTH: 17.02mm (0.670 IN.)

TENSILE: 67,000 Newtons.

#16B-1 CHAIN

No. Teeth	Catalog Number	Pitch Diam.	Length Thru Bore	Approx. Wt. (Kilos)	Stock Finished Bores (mm) Included Keyway and Setscrew									
11	16BS11	90.14	40	.82	25	28	30	32	35	38	40	42		
12	16BS12	98.14	40	1.36	25	28	30	32	35	38	40	42		
13	16BS13	106.12	40	1.59	25	28	30	32	35	38	40	42	45	48
14	16BS14	114.15	40	1.86	25	28	30	32	35	38	40	42	45	48
15	16BS15	122.17	40	2.36	25	28	30	32	35	38	40	42	45	48
16	16BS16	130.20	45	2.49	25	28	30	32	35	38	40	42	45	48
17	16BS17	138.22	45	2.72	25	28	30	32	35	38	40	42	45	48
18	16BS18	146.28	45	2.95	25	28	30	32	35	38	40	42	45	48
19	16BS19	154.33	45	3.18	25	28	30	32	35	38	40	42	45	48
20	16BS20	162.38	45	3.63	25	28	30	32	35	38	40	42	45	48
21	16BS21	170.43	50	4.04	25	28	30	32	35	38	40	42	45	48
22	16BS22	178.48	50	4.31	25	28	30	32	35	38	40	42	45	48
23	16BS23	186.53	50	4.63	25	28	30	32	35	38	40	42	45	48
24	16BS24	194.59	50	4.90	25	28	30	32	35	38	40	42	45	48
25	16BS25	202.66	50	5.17	25	28	30	32	35	38	40	42	45	48
26	16BS26	210.72	50	5.44	25	28	30	32	35	38	40	42	45	48
27	16BS27	218.79	50	5.71	25	28	30	32	35	38	40	42	45	48
28	16BS28	226.85	50	5.98	25	28	30	32	35	38	40	42	45	48
29	16BS29	234.92	50	6.25	25	28	30	32	35	38	40	42	45	48
30	16BS30	243.00	65	6.52	25	28	30	32	35	38	40	42	45	48

Hub diameters vary to suit different Bore Sizes.

ISO 16B-1

1.00 INCH(25.40MM) PITCH SIMPLEX

CHAIN DATA:

BS 228/15

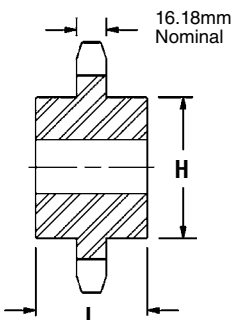
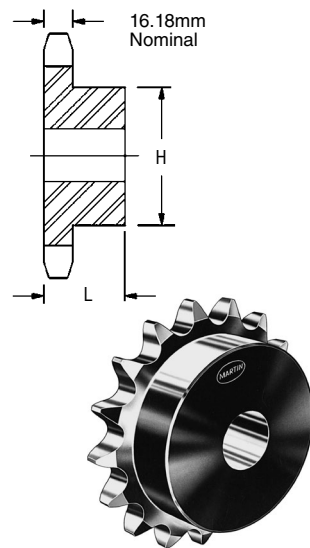
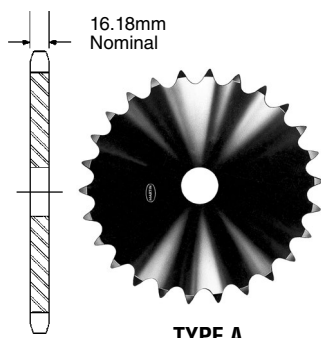
ISO 16B-1

PITCH: 25.40mm (1.00 in.)

ROLLER DIAMETER: 15.88mm (0.625 in.)

ROLLER WIDTH: 17.02mm (0.670 in.)

TENSILE: 67,000Newtons.



Simplex-Type B/C-Steel/Cast

Simplex-Type A — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos	Catalog Number	Bore		Weight (Approx.) Kilos
			Stock	Max.	H	L			Stock		
8	66.37	16B8	16	28	42	35	0.20	16A8	12		0.59
9	74.27	16B9	16	33	50	35	1.02	16A9	12		0.72
10	82.19	16B10	16	36	55	35	1.22	16A10	12		0.87
11	90.14	16B11	16	40	61	40	1.54	16A11	16		0.99
12	98.14	16B12	16	46	69	40	1.89	16A12	16		1.19
13	106.12	16B13	16	52	78	40	2.26	16A13	16		1.37
14	114.15	16B14	16	56	84	40	2.60	16A14	16		1.56
15	122.17	16B15	16	61	92	40	3.01	16A15	16		1.77
16	130.20	16B16	20	67	100	45	3.19	16A16	20		1.99
17	138.22	16B17	20	67	100	45	3.41	16A17	20		2.22
18	146.28	16B18	20	67	100	45	3.62	16A18	20		2.47
19	154.33	16B19	20	67	100	45	3.86	16A19	20		2.73
20	162.38	16B20	20	67	100	45	4.10	16A20	20		3.00
21	170.43	16B21	20	72	110	50	5.09	16A21	20		3.28
22	178.48	16B22	20	72	110	50	5.35	16A22	20		3.58
23	186.53	16B23	20	72	110	50	5.66	16A23	20		3.90
24	194.59	16B24	20	72	110	50	5.94	16A24	20		4.22
25	202.66	16B25	20	72	110	50	6.25	16A25	20		4.56
26	210.72	16B26	20	80	120	50	7.07	16A26	20		4.91
27	218.79	16B27	20	80	120	50	7.39	16A27	20		5.27
28	226.85	16B28	20	80	120	50	7.72	16A28	20		5.65
29	234.92	16B29	20	80	120	50	8.11	16A29	20		6.04
30	243.00	16B30	20	66	110	50	8.47	16A30	20		6.45
31	251.08	16B31	25	80	120	50	8.78	16A31	25		6.86
32	259.13	16B32	25	80	120	50	9.19	16A32	25		7.29
33	267.21	16B33	25	80	120	50	9.63	16A33	25		7.75
34	275.82	16B34	25	80	120	50	10.02	16A34	25		8.23
35	283.36	16B35	25	80	120	50	10.50	16A35	25		8.77
36	291.44	16B36	25	80	120	50	10.90	16A36	25		9.27
37	299.51	16B37	25	80	120	50	11.30	16A37	25		9.77
38	307.59	16B38	25	66	110	65	11.86	16A38	25		10.28
39	315.67	16B39	25	80	120	50	12.32	16A39	25		10.81
40	323.75	16B40	25	80	120	50	12.86	16A40	25		11.35
41	331.82	16B41	32	80	120	50	12.89	16A41	25		11.90
42	339.90	16B42	32	80	120	50	12.92	16A42	25		12.46
43	347.98	16B43	32	80	120	50	12.95	16A43	25		13.03
44	356.06	16B44	32	80	120	50	12.99	16A44	25		13.62
45•	364.13	16B45	32	80	120	50	13.02	16A45	25		14.21
46	372.21	16B46	32	80	120	50	12.32	16A46	25		14.83
47	380.29	16B47	32	80	120	50	12.62	16A47	25		15.45
48	388.36	16B48	32	80	120	50	12.92	16A48	25		16.10
50	404.52	16B50	32	80	120	50	13.62	16A50	25		17.41
54	436.85	16B54	32	87	130	50	14.56	16A54	30		20.09
57•	461.07	16B57	32	87	130	50	15.50	16A57	30		22.46
60	485.32	16B60	32	87	130	50	18.10	16A60	30		24.82
65	525.73	16B65	32	87	130	50	20.70	16A65	30		29.02
70	566.14	16C70	40	107	159	90	23.30	16A70	30		33.53
72	582.32	16C72	40	107	159	90	25.90	16A72	30		35.43
76•	614.65	16C76	40	107	159	90	28.50	16A76	30		39.30
80	646.96	16C80	40	107	159	90	31.38	16A80	30		43.54
84	679.30	16C84	40	107	159	90	34.26	16A84	30		48.15
90	727.81	16C90	40	107	159	90	27.14	16A90	30		54.78
95	768.22	16C95	40	107	159	90	40.00	16A95	30		60.98
96	766.31	16C96	40	107	159	90	44.00	16A96	30		61.45
114	921.81	16C114	40	107	159	90	57.00	16A114	30		87.25

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

• Available in Cast or Steel.

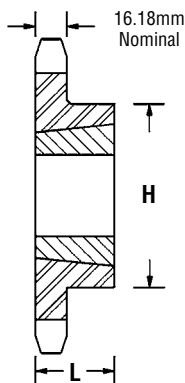
Cast will be shipped unless otherwise specified.

Metric Sprockets

Martin

1.00 INCH(25.40MM) PITCH **SIMPLEX**

ISO **16B-1**



TYPE B

CHAIN DATA:

BS 228/15

ISO 16B-1

PITCH: 25.40mm (1.00 in.)

ROLLER DIAMETER: 15.88mm (0.625 in.)

ROLLER WIDTH: 17.02mm (0.670 in.)

TENSILE: 67,000 Newtons.

Simplex-Taper Bushed-Steel/Cast

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max.	Dimension		Weight (Approx.)	
	MM			MM	L	H	Rim Kilos	Bushing Kilos
10	82.20	16BTB10	1215	32.0	38.1	62.7	0.69	0.30
11	90.16	16BTB11	1215	32.0	38.1	62.7	0.82	0.30
12	98.14	16BTB12	1615	32.0	38.1	76.2	0.86	0.43
13	106.12	16BTB13	1615	42.0	38.1	73.0	1.03	0.43
14	114.15	16BTB14	1615	42.0	38.1	76.0	1.26	0.43
15	122.17	16BTB15	1615	42.0	38.1	76.0	1.40	0.43
16	130.20	16BTB16	2012	50.0	31.8	90.0	1.42	0.59
17	138.22	16BTB17	2012	50.0	31.8	90.0	1.60	0.59
18	146.28	16BTB18	2517	60.0	44.5	108.0	2.09	1.30
19	154.33	16BTB19	2517	60.0	44.5	108.0	2.30	1.30
20	162.38	16BTB20	2517	60.0	44.5	108.0	2.56	1.30
21	170.43	16BTB21	2517	60.0	44.5	108.0	2.80	1.30
22	178.48	16BTB22	2517	60.0	44.5	108.0	3.36	1.30
23	186.53	16BTB23	2517	60.0	44.5	108.0	3.34	1.30
24	194.59	16BTB24	2517	60.0	44.5	108.0	3.66	1.30
25	202.66	16BTB25	2517	60.0	44.5	108.0	3.96	1.30
26	210.72	16BTB26	2517	60.0	44.5	108.0	4.26	1.30
27	218.79	16BTB27	2517	60.0	44.5	108.0	4.63	1.30
28	226.85	16BTB28	2517	60.0	44.5	108.0	4.97	1.30
29	234.92	16BTB29	3020	75.0	50.8	146.0	6.24	2.24
30	243.00	16BTB30	3020	75.0	50.8	146.0	6.67	2.24
32	259.13	16BTB32	3020	75.0	50.8	146.0	7.68	2.24
35	283.36	16BTB35	3020	75.0	50.8	146.0	8.97	2.24
36	291.44	16BTB36	3020	75.0	50.8	146.0	9.43	2.24
38•	307.59	16BTB38	3020	75.0	50.8	159.0	11.20	2.24
40	323.75	16BTB40	3020	75.0	50.8	146.0	11.40	2.24
45	364.13	16BTB45	3020	75.0	50.8	159.0	14.90	2.24
48	388.36	16BTB48	3020	60.0	50.8	146.0	15.90	2.24
54	436.85	16BTB54	3020	60.0	50.8	146.0	19.90	2.24
57•	461.07	16BTB57	3020	75.0	50.8	159.0	22.80	2.24
60	485.32	16BTB60	3020	60.0	50.8	146.0	24.30	2.24
64	517.65	16BTB64	3020	75.0	50.8	146.0	27.50	2.24
70	566.14	16BTB70	3020	75.0	50.8	146.0	32.70	2.24
76•	614.65	16BTB76	3020	75.0	50.8	159.0	39.20	2.24
80	646.96	16BTB80	3020	75.0	50.8	146.0	42.30	2.24
84	679.30	16BTB84	3020	75.0	50.8	146.0	46.60	2.24
95	768.22	16BTB95	3020	75.0	50.8	159.0	60.10	2.24
114	921.81	16BTB114	3020	75.0	50.8	146.0	84.20	2.24

• Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

ISO 16B-2

1.00 INCH(25.40MM) PITCH DUPLEX

CHAIN DATA:

BS 228/15

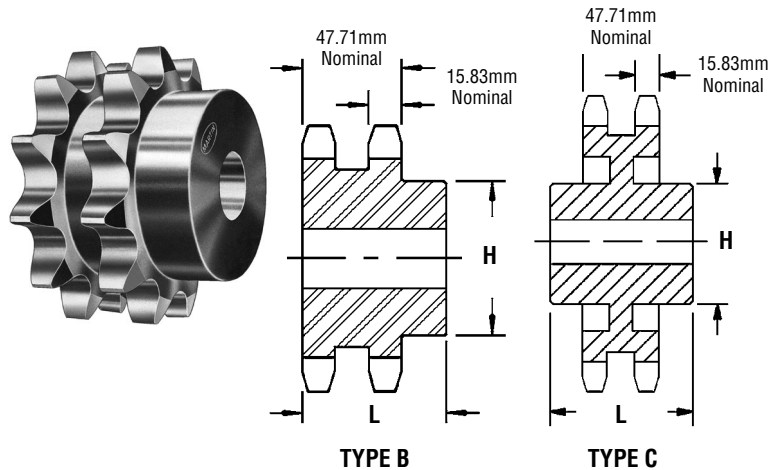
ISO 16B-2

PITCH: 25.40mm (1.00 in.)

ROLLER DIAMETER: 15.88mm (0.625 in.)

ROLLER WIDTH: 17.02mm (0.670 in.)

TENSILE: 127,500 Newtons.



Duplex-Type B/C-Steel/Cast

No. Teeth	Pitch	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
	P.D.		Min.	Max.	H	L	
	MM		MM	MM	MM	MM	
11	90.16	D16B11	20	42	63	70	3.00
12	98.14	D16B12	20	47	72	70	3.10
13	106.14	D16B13	20	54	80	70	3.22
14	114.15	D16B14	20	57	88	70	3.90
15	122.17	D16B15	20	64	96	70	4.58
16	130.20	D16B16	20	69	104	70	5.35
17	138.22	D16B17	20	75	112	70	6.12
18	146.28	D16B18	20	80	120	70	7.02
19	154.33	D16B19	20	85	128	70	7.91
20	162.38	D16B20	20	87	130	70	8.77
21	170.43	D16B21	25	87	130	70	9.26
22	178.48	D16B22	25	87	130	70	10.05
23	186.53	D16B23	25	87	130	70	10.84
24	194.59	D16B24	25	87	130	70	11.70
25	202.66	D16B25	25	75	130	70	12.56
26	210.72	D16B26	25	87	130	70	13.70
27	219.79	D16B27	25	87	130	70	14.84
28	226.85	D16B28	25	87	130	70	15.74
29	234.92	D16B29	25	87	130	70	16.74
30	243.00	D16B30	25	87	130	70	17.52
32	259.13	D16B32	32	95	145	75	20.12
35	283.36	D16B35	32	95	145	75	22.73
36	291.44	D16B36	32	95	145	80	25.34
38	307.59	D16B38	40	95	145	80	27.95
42	339.90	D16B42	40	95	145	80	29.97
45•	364.13	D16C45	40	95	145	95	31.99
57•	461.07	D16C57	40	95	145	95	34.01
60	485.33	D16C60	40	95	145	95	36.03
68	549.98	D16C68	40	102	152	102	38.05
76•	614.65	D16C76	40	102	152	108	40.08
80	646.96	D16C80	40	102	152	108	42.10
95	768.22	D16C95	40	102	152	108	50.00
114	921.81	D16C114	40	102	152	108	65.00

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

• Available in Cast or Steel.

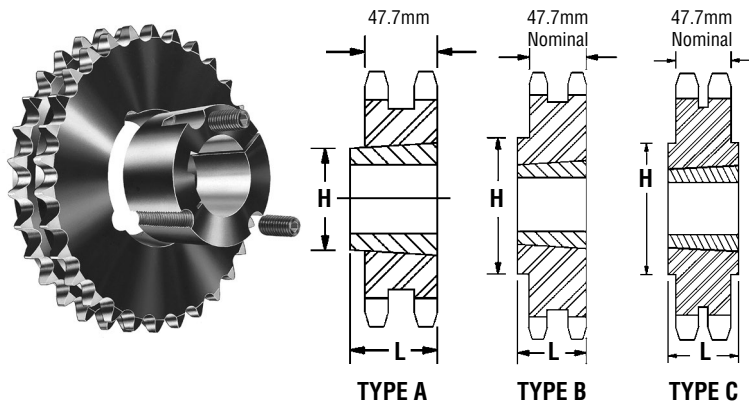
Cast will be shipped unless otherwise specified.

Metric Sprockets

Martin

1.00 INCH (25.40MM) PITCH DUPLEX

ISO **16B-2**



CHAIN DATA:

BS 228/15
ISO 16B-2
PITCH: 25.40mm (1.00 in.)
ROLLER DIAMETER: 15.88mm (0.625 in.)
ROLLER WIDTH: 17.02mm (0.670 in.)
TENSILE: 127,500 Newtons.

Duplex-Taper Bushed-Steel/Cast

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight (Approx.)	
					L	H	Rim	Bushing
					MM	MM	Kilos	Kilos
13	106.12	D16ATB13	1615	42	38.1	—	1.77	0.59
14	114.15	D16ATB14	2012	50	31.8	—	1.88	0.59
15	122.17	D16ATB15	2012	50	31.8	—	2.36	0.59
16	130.20	D16ATB16	2517	60	44.5	—	2.27	1.30
17	138.22	D16ATB17	2517	60	44.5	—	2.78	1.30
18	146.28	D16ATB18	2517	60	44.5	—	3.41	1.30
19	154.33	D16ATB19	2517	60	44.5	—	4.05	1.30
20	162.38	D16ATB20	2517	60	44.5	—	4.75	1.30
20	162.38	D16BTB20	2517	60	44.5	133.4	4.75	1.30
21	170.43	D16BTB21	3020	75	50.8	143.0	4.45	2.24
22	178.48	D16BTB22	3020	75	50.8	150.0	5.27	2.24
23	186.53	D16BTB23	3020	75	50.8	159.0	6.13	2.24
24	194.59	D16BTB24	3020	75	50.8	166.0	7.02	2.24
25	202.66	D16BTB25	3020	75	50.8	175.0	7.95	2.24
26	210.72	D16BTB26	3020	75	50.8	175.0	8.88	2.24
27	218.79	D16BTB27	3020	75	50.8	175.0	9.83	2.24
28	226.85	D16BTB28	3020	75	50.8	175.0	10.80	2.24
29	234.92	D16BTB29	3020	75	50.8	175.0	11.90	2.24
30	243.00	D16BTB30	3020	75	50.8	175.0	13.00	2.24
35	283.36	D16CTB35	3030	75	76.0	175.0	12.99	3.04
38•	307.59	D16CTB38	3030	75	76.0	175.0	26.20	3.04
42	339.90	D16CTB42	3030	75	76.0	175.0	23.70	3.04
45•	364.13	D16CTB45	3030	75	76.0	175.0	25.80	3.04
57•	461.07	D16CTB57	3525	100	65.0	198.0	40.30	3.56
76•	614.65	D16CTB76	3525	100	65.0	198.0	56.30	3.56
95•	768.22	D16CTB95	4030	115	76.0	216.0	67.00	5.54
114	921.81	D16CTB114	4040	115	102.0	216.0	85.00	8.27

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no setscrew at angle to keyseat.

• Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

Taper bore direction of type B may be different with current catalog, please double check *Martin*.

ISO 16B-3

1.00 INCH (25.40MM) PITCH TRIPLEX

CHAIN DATA:

BS 228/15

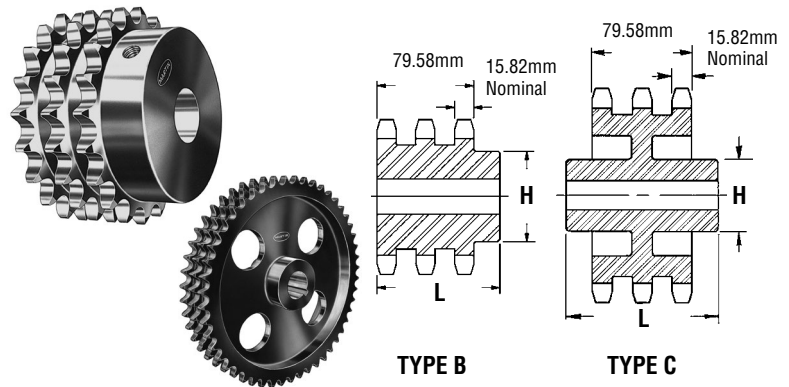
ISO 16B-3

PITCH: 25.40mm (1.00 in.)

ROLLER DIAMETER: 15.88mm (0.625 in.)

ROLLER WIDTH: 17.02mm (0.670 in.)

TENSILE: 191,250 Newtons.



Triplex-Type B/C-Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock	Max.	H	L	
			MM	MM	MM	MM	
10	82.20	E16B10	25	42	63	100	1.85
11	90.16	E16B11	25	42	63	100	2.72
12	98.14	E16B12	25	47	72	100	3.59
13	106.14	E16B13	25	54	80	100	4.13
14	114.15	E16B14	25	57	88	100	4.68
15	122.17	E16B15	25	64	96	100	5.54
16	130.20	E16B16	30	69	104	100	6.81
17	138.23	E16B17	30	75	112	100	8.07
18	146.27	E16B18	30	80	120	100	9.99
19	154.32	E16B19	30	85	128	100	10.89
20	162.37	E16B20	30	87	130	100	11.80
21	170.42	E16B21	30	87	130	100	13.61
22	178.48	E16B22	30	87	130	100	14.07
23	186.54	E16B23	30	87	130	100	14.97
24	194.60	E16B24	30	87	130	100	16.34
25	202.66	E16B25	30	87	130	100	17.70
26	210.72	E16B26	30	87	130	100	19.98
27	219.79	E16B27	30	87	130	100	21.57
28	226.86	E16B28	30	87	130	100	23.15
29	234.93	E16B29	30	87	130	100	24.74
30	243.00	E16B30	32	94	140	105	26.33
35	283.36	E16B35	32	94	140	105	36.06
36	291.43	E16B36	32	94	140	105	38.06
38	307.59	E16C38	32	102	152	114	41.45
42	339.90	E16C42	40	102	152	114	38.51
45	364.13	E16C45	40	102	152	114	41.91
57	461.08	E16C57	40	107	159	120	51.35
60	485.32	E16C60	40	107	159	120	58.06
68	549.98	E16C68	40	107	159	120	63.50
76	614.65	E16C76	40	107	159	120	77.11
95	768.22	E16C95	40	114	171	127	100.70
114	921.81	E16C114	40	114	171	127	120.84

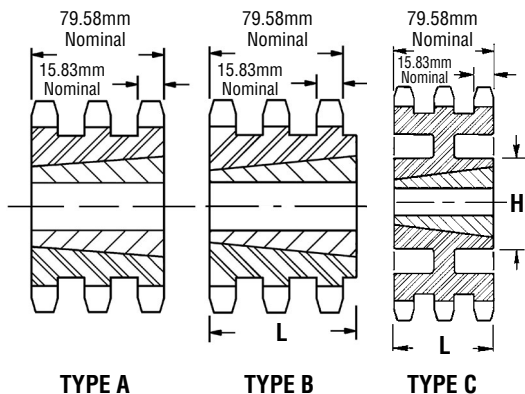
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

Metric Sprockets

Martin

1.00 INCH (25.40MM) PITCH **TRIPLEX**

ISO **16B-3**



CHAIN DATA:

BS 228/15
ISO 16B-3
PITCH: 25.4mm (1.000 IN.)
ROLLER DIAMETER: 15.88mm (0.625 IN.)
ROLLER WIDTH: 17.02mm (0.670 IN.)
TENSILE: 191,250 Newtons.

Triplex-Type B/C-Taper Bushed-Steel/Cast

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max.	Dimension		Weight (Approx.)
	MM				L	H	
	MM			MM	MM	MM	Kilos
17	138.22	E16ATB17	2517	65	—	79.6	4.73
19	154.33	E16ATB19	3030	75	—	79.6	4.72
19	154.33	E16BTB19	3030	75	—	76.2	4.30
21	170.43	E16ATB21	3030	75	—	79.6	7.06
21	170.43	E16BTB21	3030	75	—	76.2	6.60
23	186.53	E16ATB23	3525	100	—	79.6	7.60
23	186.53	E16BTB23	3525	100	—	89.0	7.00
25	202.66	E16ATB25	3525	100	—	79.6	10.50
25	202.66	E16BTB25	3535	100	—	89.0	9.80
27	218.79	E16ATB27	3525	100	—	79.6	13.60
27	218.79	E16BTB27	3535	100	—	89.0	12.80
30	243.00	E16ATB30	3525	100	—	79.6	18.70
30	243.00	E16BTB30	3535	100	—	89.0	18.00
38•	307.59	E16CTB38	3535	100	178	89.0	21.50
38•	307.59	E16BTB38CI	3525	100	178	63.5	21.50
38•	307.59	E16CTB38CI	3535	100	178	89.0	21.50
45•	364.13	E16CTB45CI	4030	115	216	79.6	33.50
57•	461.07	E16CTB57CI	4030	115	216	79.6	39.50
76•	614.65	E16CTB76CI	4030	115	216	79.6	59.50

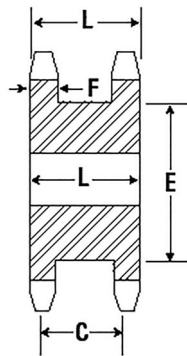
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

• Available in Cast or Steel.

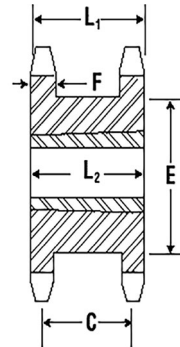
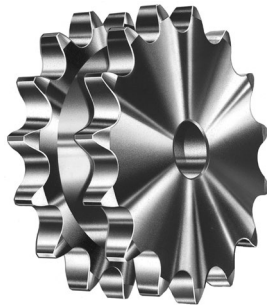
Cast will be shipped unless otherwise specified.

ISO **20B-1**

1.25 INCH (31.75MM) PITCH **Double Single**



TYPE A



TYPE ATB



Double Single-Type A Steel

No. Teeth	Catalog Number	Diameters		Type	Min. Bore	Max. Bore	Dimensions				Wt. (Approx.)
		Outside Diameter	Pitch Diameter				L	C	E	F (Nom.)	
13	DS20A13	147.83	132.67	A	25	63.50	68.3	49.8	96.0	18.6	5.09
14	DS20A14	157.80	142.68	A	25	69.85	68.3	49.8	106.0	18.6	6.14
15	DS20A15	167.90	152.71	A	32	77.79	68.3	49.8	116.0	18.6	7.64
16	DS20A16	177.90	162.75	A	32	82.55	68.3	49.8	114.0	18.6	8.77
17	DS20A17	187.98	172.79	A	32	92.08	68.3	49.8	124.0	18.6	9.77
18	DS20A18	198.00	182.84	A	32	95.25	68.3	49.8	134.0	18.6	10.45
19	DS20A19	208.10	192.90	A	32	106.36	68.3	49.8	157.0	18.6	11.36
20	DS20A20	218.10	202.96	A	32	106.36	68.3	49.8	167.0	18.6	12.05
21	DS20A21	228.20	213.03	A	32	106.36	68.3	49.8	177.0	18.6	13.18

Double Single-Taper Bushed-Steel

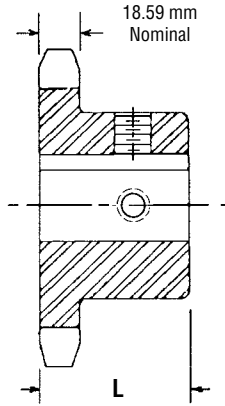
No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	L ₁	Dimensions				Wt. Rim Only
			Outside Diameter	Pitch Diameter					C	E	L ₂	F (Nom.)	
15	DS20ATB15H	2517	168.40	152.72	16	60	ATB	68.3	49.8	115.0	44.5	18.6	4.20
16	DS20ATB16H	2517	178.56	162.75	16	60	ATB	68.3	49.8	127.0	44.5	18.6	5.91
17	DS20ATB17H	3020	187.90	172.79	25	75	ATB	68.3	49.8	137.0	50.8	18.6	6.36
18	DS20ATB18H	3020	198.00	182.84	25	75	ATB	68.3	49.8	147.0	50.8	18.6	7.27
19	DS20ATB19H	3020	208.10	192.90	25	75	ATB	68.3	49.8	157.0	50.8	18.6	9.09
20	DS20ATB20H	3020	218.10	202.96	25	75	ATB	68.3	49.8	167.0	50.8	18.6	10.85
21	DS20ATB21H	3020	228.20	213.03	25	75	ATB	68.3	49.8	177.0	50.8	18.6	12.50

Metric Sprockets

Martin

1.25 INCH (31.75MM) PITCH Bored-to-Size

ISO 20B-1



TYPE BS

CHAIN DATA:

BS 228/17

ISO 20B-1

PITCH: 31.75mm (1.250 IN.)

ROLLER DIAMETER: 19.05mm (0.750 IN.)

ROLLER WIDTH: 19.56mm (0.770 IN.)

TENSILE: 98,070 Newtons.

#20B-1 CHAIN

No. Teeth	Catalog Number	Pitch Diam.	Length Thru Bore	Approx. Wt. (Kilos)	Stock Finished Bores (mm) Included Keyway and Setscrew						
9	20BS9	92.84	40	1.36	25	30	32	35	38		
10	20BS10	102.74	40	1.77	25	30	32	35	38		
11	20BS11	112.68	45	2.22	25	30	32	35	38	45	50
12	20BS12	122.68	45	2.72	25	30	32	35	38	45	50
13	20BS13	132.65	45	2.81	25	30	32	35	38	45	50
14	20BS14	142.68	45	2.99			32	35	38	45	50
15	20BS15	152.72	45	3.81			32	35	38	45	50
16	20BS16	162.75	50	4.08					38	45	50
17	20BS17	172.78	50	4.49					38	45	50
18	20BS18	182.85	50	4.81					38	45	50
19	20BS19	192.91	50	5.49					38	45	50
20	20BS20	202.98	50	5.99					38	45	50

H diameters vary to suit different Bore Sizes.

Hub diameters vary to suit different Bore Sizes.

ISO **20B-1**

1.25 INCH (31.75MM) PITCH **SIMPLEX**

Simplex-Type B/C-Steel

Simplex-Type A — Steel

CHAIN DATA:

BS 228/17

ISO 20B-1

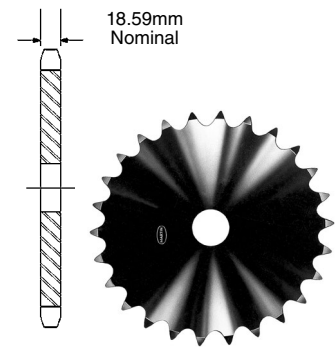
PITCH: 31.75mm (1.250 in.)

ROLLER DIAMETER: 19.05mm (0.750 in.)

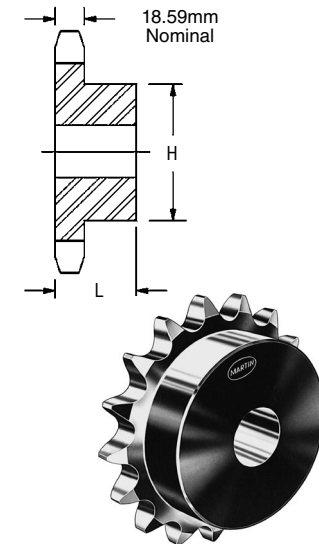
ROLLER WIDTH: 19.56mm (0.770 in.)

TENSILE: 98,070 Newtons.

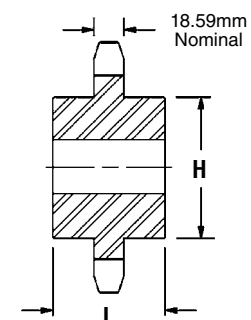
No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos	Catalog Number	Bore Stock MM	Weight (Approx.) Kilos
			Stock	Max.	H	L				
8	82.96	20B8	25	32	48	48	1.04	20A8	16	1.10
9	92.84	20B9	25	38	58	48	1.45	20A9	16	1.33
10	102.74	20B10	25	46	69	48	1.86	20A10	16	1.59
11	112.70	20B11	25	53	79	48	2.40	20A11	16	1.86
12	122.66	20B12	25	60	90	48	2.95	20A12	20	2.17
13	132.67	20B13	25	65	98	41	3.00	20A13	20	2.49
14	142.68	20B14	25	72	106	41	3.40	20A14	20	2.84
15	152.72	20B15	25	76	114	44	4.31	20A15	20	3.22
16	162.75	20B16	25	76	114	44	4.63	20A16	25	3.61
17	172.78	20B17	32	76	114	44	4.99	20A17	25	4.03
18	182.85	20B18	32	76	114	44	5.44	20A18	25	4.48
19	192.91	20B19	32	76	114	51	5.90	20A19	25	4.94
20	202.96	20B20	32	76	114	51	6.35	20A20	25	5.43
21	213.04	20B21	32	76	114	51	7.03	20A21	25	5.94
22	223.11	20B22	32	76	114	51	7.71	20A22	25	6.48
23	233.17	20B23	32	76	114	51	8.16	20A23	25	7.04
24	243.25	20B24	32	76	114	51	8.62	20A24	25	7.62
25	253.33	20B25	32	76	114	51	9.07	20A25	25	8.23
26	263.40	20B26	32	84	127	51	9.53	20A26	25	8.86
27	273.49	20B27	32	84	127	51	10.43	20A27	25	9.51
28	283.56	20B28	32	84	127	51	11.34	20A28	25	10.18
29	293.66	20B29	32	84	127	51	11.76	20A29	25	10.89
30	303.75	20B30	32	84	127	51	12.02	20A30	25	11.61
31	313.83	20B31	32	84	127	51	12.77	20A31	25	12.36
32	323.91	20B32	32	84	127	51	13.52	20A32	25	13.13
33	334.01	20B33	32	84	127	51	14.59	20A33	25	13.92
34	344.10	20B34	32	84	127	51	15.66	20A34	25	14.74
35	354.20	20B35	32	84	127	64	16.74	20A35	25	15.58
36	364.30	20B36	32	84	127	64	17.51	20A36	25	16.44
37	374.39	20B37	32	84	127	64	18.17	20A37	25	17.32
38	384.48	20B38	32	84	127	64	18.82	20A38	25	18.23
39	394.59	20B39	32	84	127	64	19.78	20A39	25	19.16
40	404.68	20B40	32	84	127	64	21.27	20A40	25	20.12
41	414.78	20B41	32	84	127	64	22.07	20A41	30	21.10
42	424.88	20B42	32	84	127	64	22.86	20A42	30	22.10
43	434.97	20B43	32	84	127	64	23.40	20A43	30	23.13
44	445.07	20B44	32	84	127	64	23.95	20A44	30	24.17
45	455.17	20B45	32	84	127	64	24.49	20A45	30	25.25
46	465.26	20B46	32	84	127	64	26.31	20A46	30	26.34
47	475.36	20B47	32	84	127	64	28.12	20A47	30	27.46
48	485.46	20B48	40	102	152	64	29.94	20A48	30	28.61
49	495.55	20B49	40	102	152	64	31.76	20A49	30	29.77
50	505.65	20B50	40	102	152	64	33.57	20A50	30	30.96
51	515.75	20B51	40	102	152	64	35.39	20A51	30	32.17
52	525.84	20B52	40	102	152	64	37.21	20A52	30	33.41
53	535.94	20C53	40	102	152	64	39.02	20A53	30	34.67
54	546.07	20C54	40	102	152	82	42.90	20A54	30	35.95
55	556.16	20C55	40	102	152	82	44.77	20A55	30	37.26
56	566.26	20C56	40	102	152	82	46.63	20A56	30	38.58
57	576.36	20C57	40	102	152	82	48.50	20A57	30	39.94
58	586.46	20C58	40	102	152	82	50.37	20A58	30	41.31
59	596.55	20C59	40	102	152	82	52.24	20A59	30	42.71
60	606.65	20C60	40	102	152	82	54.10	20A60	30	44.13
70	707.67	20C70	40	120	178	95	75.36	20A70	30	59.63
72	727.90	20C72	40	120	178	95	77.23	20A72	30	63.03
76	768.32	20C76	40	120	178	95	80.98	20A76	30	70.07
80	808.72	20C80	40	120	178	95	86.70	20A80	30	77.48
84	849.13	20C84	40	120	178	95	88.43	20A84	30	86.16
90	909.76	20C90	40	120	178	95	94.03	20A90	30	97.64
95	960.28	20C95	40	120	178	114	117.18	20A95	30	108.60
96	970.28	20C96	40	120	178	114	117.56	20A96	30	109.75
114	1152.26	20C114	40	120	178	114	128.82	20A114	30	155.56



TYPE A



TYPE B



TYPE C

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

Metric Sprockets

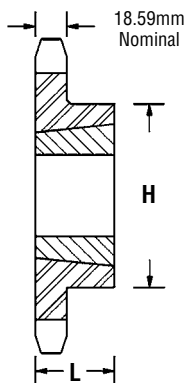
Martin

1.25 INCH (31.75MM) PITCH **SIMPLEX**

ISO **20B-1**



TYPE B



CHAIN DATA:

BS 228/17

ISO 20B-1

PITCH: 31.75mm (1.250 in.)

ROLLER DIAMETER: 19.05mm (0.750 in.)

ROLLER WIDTH: 19.56mm (0.770 in.)

TENSILE: 98,700 Newtons.

Simplex-Taper Bushed-Steel/Cast

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max.	Dimension		Weight (Approx.)	
	MM				L	H	Rim	Bushing
				MM	MM	MM	Kilos	Kilos
11	112.70	20BTB11	1615	42.0	38.1	78.0	1.17	0.43
12	122.67	20BTB12	1615	42.0	38.1	78.0	1.56	0.43
13	132.67	20BTB13	2012	50.0	31.8	95.0	1.72	0.59
14	142.68	20BTB14	2012	50.0	31.8	95.0	2.03	0.59
15	152.71	20BTB15	2517	60.0	44.5	108.0	2.58	1.30
16	162.74	20BTB16	2517	60.0	44.5	108.0	2.93	1.30
17	172.79	20BTB17	2517	60.0	44.5	108.0	3.31	1.30
18	182.84	20BTB18	2517	60.0	44.5	108.0	3.72	1.30
19	192.90	20BTB19	2517	60.0	44.5	108.0	4.14	1.30
20	202.96	20BTB20	2517	60.0	44.5	108.0	4.59	1.30
21	213.03	20BTB21	2517	60.0	44.5	108.0	5.14	1.30
22	223.10	20BTB22	2517	60.0	44.5	108.0	5.56	1.30
23	233.17	20BTB23	2517	60.0	44.5	108.0	6.11	1.30
24	243.25	20BTB24	2517	60.0	44.5	108.0	6.62	1.30
25	253.32	20BTB25	2517	60.0	44.5	108.0	7.19	1.30
26	263.40	20BTB26	2517	60.0	44.5	108.0	7.78	1.30
27	283.57	20BTB27	3020	75.0	50.8	135.0	9.24	2.24
30	303.75	20BTB30	3020	75.0	50.8	135.0	10.60	2.24
32	323.92	20BTB32	3020	75.0	50.8	135.0	12.00	2.24
35	354.20	20BTB35	3020	75.0	50.8	135.0	14.30	2.24
36	364.29	20BTB36	3020	75.0	50.8	135.0	15.20	2.24
38	384.48	20BTB38	3020	75.0	50.8	135.0	16.90	2.24
40	404.67	20BTB40	3020	75.0	50.8	135.0	18.70	2.24
45	455.15	20BTB45	3020	75.0	50.8	135.0	23.60	2.24
48	485.45	20BTB48	3020	75.0	50.8	135.0	26.80	2.24
54	546.05	20BTB54	3020	75.0	50.8	135.0	33.90	2.24
57	576.35	20BTB57	3020	75.0	50.8	135.0	37.80	2.24
60	606.66	20BTB60	3020	75.0	50.8	135.0	41.90	2.24
70	707.68	20CTB70	3535	100.0	88.9	172.0	51.56	5.18
72	727.89	20CTB72	3535	100.0	88.9	172.0	53.97	5.18
76	768.30	20CTB76	3535	100.0	88.9	172.0	60.33	5.18
80	808.71	20CTB80	3535	100.0	88.9	172.0	66.23	5.18
84	849.13	20CTB84	3535	100.0	88.9	172.0	73.48	5.18
90	909.76	20CTB90	3535	100.0	88.9	172.0	94.33	5.18
95	960.28	20CTB95	3535	100.0	88.9	172.0	96.16	5.18

ISO 20B-2

1.25 INCH (31.75MM) PITCH DUPLEX

CHAIN DATA:

BS 228/17

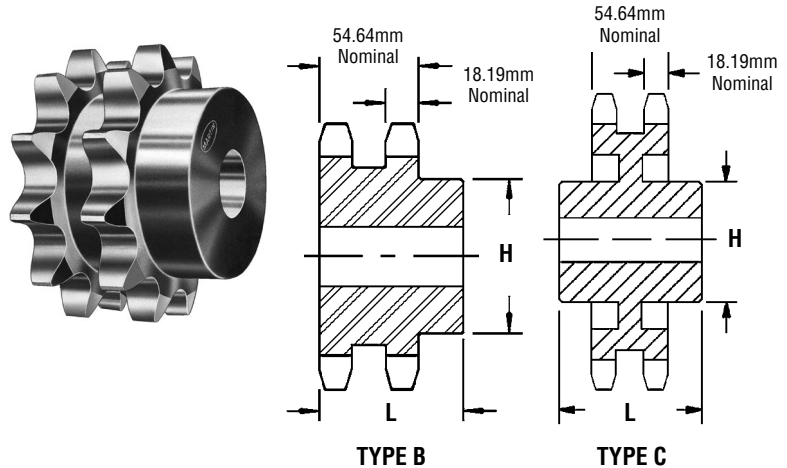
ISO 20B-2

PITCH: 31.75mm (1.250 in.)

ROLLER DIAMETER: 19.05mm (0.750 in.)

ROLLER WIDTH: 19.56mm (0.770 in.)

TENSILE: 196,100 Newtons.



Duplex-Type B/C-Steel

No. Teeth	Pitch Diameter	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock	Max.	H	L	
			MM	MM	MM	MM	
10	102.74	D20B10	20	46	69	75	2.90
11	112.70	D20B11	20	53	79	80	3.67
12	122.68	D20B12	20	60	90	80	4.31
13	132.67	D20B13	20	67	100	80	5.53
14	142.68	D20B14	20	72	110	80	6.62
15	152.71	D20B15	20	80	120	80	7.76
16	162.75	D20B16	25	80	120	80	9.12
17	172.79	D20B17	25	80	120	80	10.44
18	182.84	D20B18	25	80	120	80	11.71
19	192.90	D20B19	25	80	120	80	12.92
20	202.96	D20B20	25	80	120	80	15.43
21	213.03	D20B21	25	94	140	80	16.55
22	223.10	D20B22	25	94	140	80	17.70
23	233.17	D20B23	25	94	140	80	19.05
24	243.25	D20B24	32	95	145	80	20.43
25	253.32	D20B25	32	95	145	80	21.77
26	263.40	D20B26	32	95	145	80	23.15
27	273.49	D20B27	32	95	145	80	24.97
28	283.57	D20B28	32	95	145	80	26.78
30	303.75	D20B30	32	95	145	80	30.41
32	323.92	D20B32	32	95	145	80	32.22
35	354.20	D20C35	32	102	152	108	34.02
36	364.29	D20C36	32	102	152	108	34.70
38	384.48	D20C38	32	102	152	114	37.65
42	424.86	D20C42	40	102	152	114	43.55
45	455.15	D20C45	40	102	152	114	46.72
57	576.35	D20C57	40	133	191	127	64.10
60	606.66	D20C60	40	133	191	127	79.38
68	687.48	D20C68	40	133	191	127	87.74
76	768.30	D20C76	40	133	191	127	96.11
80	808.71	D20C80	40	133	191	127	100.30
95	960.28	D20C95	40	133	191	127	115.98
114	1152.26	D20C114	40	133	191	127	135.85

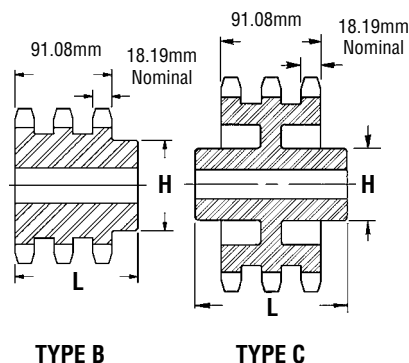
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

Metric Sprockets

Martin

1.25 INCH (31.75MM) PITCH **TRIPLEX**

ISO 20B-3



CHAIN DATA:

BS 228/17

ISO 20B-3

PITCH: 31.75mm (1.250 in.)

ROLLER DIAMETER: 19.05mm (0.750 in.)

ROLLER WIDTH: 19.56mm (0.770 in.)

TENSILE: 294,200 Newtons.

Triplex-Type B/C-Steel/Cast

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM	
10	102.74	E20B10	25	46	69	110	3.95
11	112.70	E20B11	25	53	79	115	5.26
12	122.68	E20B12	25	60	90	115	6.21
13	132.67	E20B13	25	67	100	115	9.26
14	142.68	E20B14	25	72	110	115	9.76
15	152.71	E20B15	25	80	120	115	10.81
16	162.75	E20B16	25	80	120	115	12.76
17	172.79	E20B17	25	80	120	115	14.76
18	182.84	E20B18	25	80	120	115	16.71
19	192.90	E20B19	25	80	120	115	19.13
20	202.95	E20B20	25	80	120	115	21.57
21	213.03	E20B21	25	94	140	115	23.36
22	223.10	E20B22	25	94	140	115	25.65
23	233.17	E20B23	25	94	140	115	27.90
24	243.25	E20B24	32	95	145	120	28.63
25	253.32	E20B25	32	95	145	120	29.80
26	263.40	E20B26	32	95	145	120	31.90
27	273.49	E20B27	32	95	145	120	35.90
28	283.57	E20B28	32	95	145	120	39.90
30	303.75	E20B30	32	95	145	120	47.90
32	323.92	E20B32	32	95	145	127	51.57
35	354.20	E20C35	32	102	152	127	57.29
36	364.30	E20C36	32	102	152	127	59.35
38	384.48	E20C38	40	102	152	127	62.56
42	424.86	E20C42	40	102	152	127	70.12
45	455.15	E20C45	40	102	152	127	75.84
57	576.36	E20C57	40	125	191	127	100.11
60	606.66	E20C60	40	125	191	127	104.86
68	687.48	E20C68	40	125	191	127	117.54
76	768.30	E20C76	40	125	191	127	130.21
80	808.72	E20C80	40	125	191	127	136.55
95	960.28	E20C95	40	125	191	127	160.31
114	1152.27	E20C114	40	125	191	127	190.41

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

ISO 24B-1

1.50 INCH (38.10MM) PITCH SIMPLEX

CHAIN DATA:

BS 228/18

ISO 24B-1

PITCH: 38.10mm (1.50 in.)

ROLLER DIAMETER: 25.40mm (1.00 in.)

ROLLER WIDTH: 25.40mm (1.00 in.)

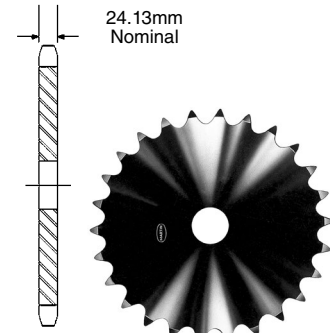
TENSILE: 166,700 Newtons.

Simplex-Type B/C-Steel

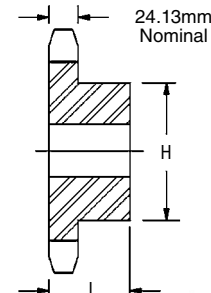
Simplex-Type A — Steel

No. Teeth	Pitch Diameter	Catalog Number	Bore		Hub		Weight (Approx.)	Catalog Number	Bore Stock	Weight (Approx.)
			Stock	Max.	H	L				
	MM		MM	MM	MM	MM	Rim Kilos		MM	Kilos
9	111.40	24B9	20	46	69	45	2.02	24A9	20	1.69
10	123.29	24B10	20	54	80	45	2.61	24A10	20	1.88
11	135.23	24B11	25	60	90	51	3.77	24A11	20	2.06
12	147.21	24B12	25	68	102	51	4.77	24A12	20	2.68
13	159.20	24B13	25	76	114	51	5.91	24A13	20	3.06
14	171.22	24B14	25	84	127	60	6.68	24A14	20	3.72
15	183.25	24B15	32	94	140	60	7.49	24A15	20	4.31
16	195.29	24B16	32	94	140	60	9.08	24A16	25	4.86
17	207.35	24B17	32	94	140	60	9.76	24A17	25	5.44
18	219.41	24B18	32	94	140	60	10.49	24A18	25	6.13
19	231.48	24B19	32	94	140	60	11.21	24A19	25	7.03
20	243.55	24B20	32	94	140	60	12.26	24A20	25	7.94
21	255.63	24B21	32	94	140	60	13.38	24A21	25	8.62
22	267.72	24B22	32	94	140	60	13.67	24A22	25	9.76
23	279.80	24B23	32	94	140	60	14.74	24A23	25	10.43
24	291.90	24B24	32	94	140	60	15.48	24A24	25	11.35
25	303.99	24B25	32	94	140	60	16.38	24A25	25	12.47
26	316.09	24B26	40	100	150	65	19.43	24A26	30	13.39
27	328.19	24B27	40	100	150	65	20.39	24A27	30	14.53
28	340.29	24B28	40	107	160	65	21.34	24A28	30	15.89
29	352.39	24B29	40	107	160	65	22.79	24A29	30	17.02
30	364.49	24B30	40	107	160	65	24.25	24A30	30	18.39
31	376.60	24B31	40	107	160	65	26.19	24A31	30	20.02
32	388.71	24B32	40	107	160	65	28.12	24A32	30	21.66
33	400.81	24B33	40	107	160	65	30.05	24A33	30	23.29
34	412.93	24B34	40	107	160	65	31.99	24A34	30	24.93
35	425.04	24B35	40	107	160	65	33.93	24A35	30	26.56
36	437.16	24B36	40	107	160	65	35.86	24A36	30	28.19
38	461.39	24B38	40	107	160	65	39.73	24A38	30	31.46
40	485.60	24B40	40	107	160	65	42.52	24A40	30	36.23
42	509.83	24C42	40	107	160	95	45.31	24A42	30	40.99
45	546.19	24C45	40	107	160	95	50.71	24A45	30	48.14
48	582.54	24C48	40	107	160	102	57.43	24A48	30	55.29
50	606.78	24C50	40	107	160	102	61.57	24A50	40	60.05
54	655.26	24C54	40	107	160	102	69.84	24A54	40	69.58
57	691.62	24C57	40	120	160	102	76.05	24A57	40	76.73
60	727.99	24C60	40	120	178	102	80.05	24A60	40	85.19
68	824.98	24C68	40	120	178	102	93.39	24A68	40	107.74
72	873.48	24C72	40	120	178	102	111.51	24A72	40	119.02
76	921.98	24C76	40	133	191	114	129.62	24A76	40	130.30
95	1152.33	24C95	40	133	191	114	215.67	24A95	40	183.88
96	1164.46	24C96	40	133	191	114	220.20	24A96	40	186.70
114	1382.77	24C114	40	133	191	114	301.71	24A114	40	237.46

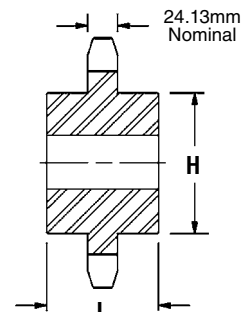
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.



TYPE A



TYPE B



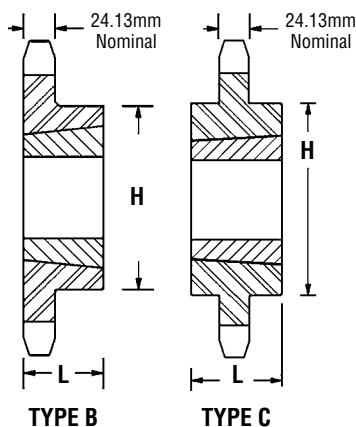
TYPE C

Metric Sprockets

Martin

1.50 INCH (38.10MM) PITCH **SIMPLEX**

ISO **24B-1**



CHAIN DATA:

BS 228/18

ISO 24B-1

PITCH: 38.10mm (1.50 in.)

ROLLER DIAMETER: 25.40mm (1.00 in.)

ROLLER WIDTH: 25.40mm (1.00 in.)

TENSILE: 166,700 Newtons.)

Simplex-Taper Bushed-Steel

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max.	Dimension		Weight (Approx.)	
	MM				L	H	Rim	Bushing
				MM	MM	MM	Kilos	Kilos
11	135.23	24BTB11	2012	50.0	31.8	93.0	2.12	0.59
12	147.21	24BTB12	2012	50.0	31.8	93.0	2.61	0.59
13	159.20	24BTB13	2517	60.0	44.5	108.0	3.25	1.30
14	171.22	24BTB14	2517	60.0	44.5	108.0	3.83	1.30
15	183.25	24BTB15	2517	60.0	44.5	108.0	4.45	1.30
16	195.29	24BTB16	3020	75.0	50.8	133.4	4.97	2.24
17	207.35	24BTB17	3020	75.0	50.8	133.4	5.68	2.24
18	219.41	24BTB18	3020	75.0	50.8	133.4	6.43	2.24
19	231.48	24BTB19	3020	75.0	50.8	133.4	7.23	2.24
20	243.55	24BTB20	3020	75.0	50.8	133.4	8.07	2.24
21	255.63	24BTB21	3020	75.0	50.8	133.4	8.95	2.24
22	267.72	24BTB22	3020	75.0	50.8	133.4	9.88	2.24
23	279.80	24BTB23	3020	75.0	50.8	133.4	10.85	2.24
24	291.90	24BTB24	3020	75.0	50.8	133.4	11.87	2.24
25	303.99	24BTB25	3020	75.0	50.8	133.4	12.93	2.24
26	316.09	24BTB26	3020	75.0	50.8	133.4	14.03	2.24
27	328.19	24BTB27	3020	75.0	50.8	133.4	15.17	2.24
28	340.29	24BTB28	3020	75.0	50.8	133.4	16.36	2.24
29	352.29	24BTB29	3020	75.0	50.8	133.4	17.59	2.24
30	364.49	24BTB30	3020	75.0	50.8	133.4	18.87	2.24
32	388.71	24BTB32	3020	75.0	50.8	133.4	21.55	2.24
38	461.37	24BTB38	3030	75.0	76.2	139.7	24.97	3.04
40	485.60	24CTB40	3030	75.0	76.2	139.7	35.90	3.04
42	509.83	24CTB42	3030	75.0	76.2	139.7	39.40	3.04
45	546.19	24CTB45	3030	75.0	76.2	139.7	45.10	3.04
48	582.54	24CTB48	3030	75.0	76.2	139.7	51.10	3.04
50	606.78	24CTB50	3030	75.0	76.2	139.7	55.40	3.04
54	655.26	24CTB54	3535	100.0	88.9	172.0	66.90	5.18
57	691.62	24CTB57	3535	100.0	88.9	172.0	74.10	5.18
60	727.99	24CTB60	3535	100.0	88.9	172.0	81.70	5.18
68	824.97	24CTB68	3535	100.0	88.9	172.0	103.90	5.18
72	873.46	24CTB72	3535	100.0	88.9	172.0	116.10	5.18
76	921.96	24CTB76	3535	100.0	88.9	172.0	128.90	5.18
95	1152.33	24CTB95	4040	115.0	101.6	219.0	196.67	8.27
96	1164.46	24CTB96	4040	115.0	101.6	219.0	201.03	8.27
114	1382.72	24CTB114	4040	115.0	101.6	219.0	279.50	8.27

ISO 24B-2

1.50 INCH (38.10MM) PITCH DUPLEX

CHAIN DATA:

BS 228/18

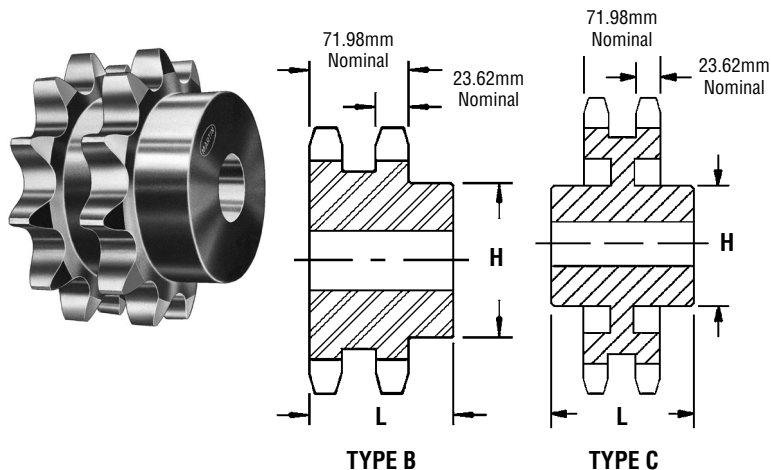
ISO 24B-2

PITCH: 38.10mm (1.50 in.)

ROLLER DIAMETER: 25.40mm (1.00 in.)

ROLLER WIDTH: 25.40mm (1.00 in.)

TENSILE: 333,400 Newtons.



Duplex-Type B/C-Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock	Max.	H	L	
			MM	MM	MM	MM	
11	135.23	D24B11	25	60	90	100	6.50
12	147.21	D24B12	25	67	102	100	8.13
13	159.20	D24B13	25	76	114	100	9.92
14	171.22	D24B14	25	84	128	100	11.98
15	183.25	D24B15	25	96	140	100	14.13
16	195.29	D24B16	25	101	150	100	16.35
17	207.35	D24B17	25	100	150	100	17.85
18	219.41	D24B18	25	108	160	100	20.35
19	231.48	D24B19	25	108	160	100	22.56
20	243.55	D24B20	25	108	160	100	24.78
21	255.63	D24B21	25	108	160	100	26.99
22	267.72	D24B22	25	108	160	100	29.74
23	279.80	D24B23	25	108	160	100	32.87
24	291.90	D24B24	25	108	160	100	36.00
25	303.99	D24B25	25	108	160	100	39.13
26	316.09	D24B26	30	108	160	100	42.26
27	328.19	D24B27	30	108	160	100	45.40
28	340.29	D24B28	30	108	160	100	48.53
29	352.39	D24B29	30	108	160	100	51.66
30	364.49	D24B30	30	108	160	100	54.79
32	388.71	D24B32	40	137	180	100	61.05
38	461.37	D24B38	40	137	180	100	72.01
40	485.60	D24C40	40	137	190	152	75.80
42	509.83	D24C42	40	137	190	152	79.59
45	546.19	D24C45	40	137	190	152	85.28
48	582.54	D24C48	40	137	190	152	90.97
50	606.78	D24C50	40	137	190	152	94.76
54	655.26	D24C54	40	161	238	159	127.46
57	691.62	D24C57	40	161	238	159	140.74
60	727.99	D24C60	40	161	238	159	154.02
68	824.98	D24C68	40	161	238	159	189.45
72	873.46	D24C72	40	161	238	159	207.16
76	921.96	D24C76	40	161	238	159	224.87
95	1152.33	D24C95	40	161	238	159	309.00
96	1164.46	D24C96	40	161	238	159	312.43
114	1382.72	D24C114	40	161	238	159	393.13

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

Metric Sprockets

Martin

1.75 INCH (44.45MM) PITCH **SIMPLEX**

ISO **28B-1**

CHAIN DATA:

BS 228/20

ISO 28B-1

PITCH: 44.45mm (1.75 in.)

ROLLER DIAMETER: 27.94mm (1.10 in.)

ROLLER WIDTH: 30.99mm (1.22 in.)

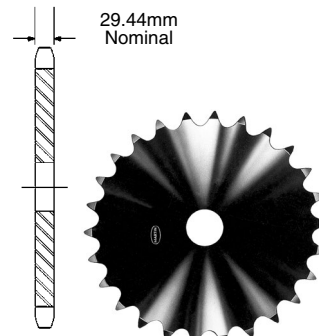
TENSILE: 200,000 Newtons.

Simplex-Type B/C-Steel

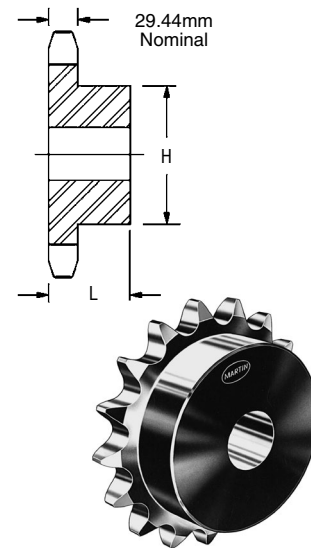
Simplex-Type A — Steel

No. Teeth	Pitch Diameter	Catalog Number	Bore		Hub		Weight (Approx.) Rim	Catalog Number	Bore Stock	Weight (Approx.)
			Stock	Max.	H	L				
	MM		MM	MM	MM	MM	Kilos		MM	Kilos
11	157.77	28B11	25	75	112	70	5.27	28A11	32	3.18
12	171.74	28B12	25	84	125	70	6.40	28A12	32	3.95
13	185.74	28B13	25	94	140	70	8.22	28A13	32	4.31
14	199.76	28B14	25	94	140	60	9.13	28A14	32	4.77
15	213.79	28B15	25	107	160	60	11.40	28A15	40	5.45
16	227.84	28B16	30	107	160	64	12.76	28A16	40	6.81
17	241.91	28B17	30	107	160	64	13.65	28A17	40	7.71
18	255.98	28B18	30	107	160	64	13.65	28A18	40	8.63
19	270.06	28B19	30	107	160	64	15.01	28A19	40	9.53
20	284.14	28B20	30	107	160	64	16.84	28A20	40	10.44
21	298.24	28B21	30	107	160	64	18.19	28A21	40	11.79
22	312.34	28B22	30	107	160	64	19.11	28A22	40	13.17
23	326.44	28B23	30	107	160	64	20.46	28A23	40	14.06
24	340.54	28B24	30	107	160	64	21.84	28A24	40	15.44
25	354.65	28B25	30	107	160	64	22.73	28A25	40	16.78
26	368.77	28B26	30	107	160	64	26.83	28A26	40	18.61
27	382.88	28B27	30	107	160	64	27.74	28A27	40	20.43
28	397.00	28B28	30	107	160	64	30.29	28A28	40	20.88
30	425.24	28B30	30	107	160	64	32.73	28A30	40	25.17
32	453.49	28B32	30	120	178	76	34.84	28A32	40	31.02
38	538.27	28B38	30	120	178	102	51.25	28A38	40	48.58
40	566.54	28C40	30	120	178	102	52.84	28A40	40	52.80
42	594.81	28C42	30	120	178	102	54.43	28A42	40	57.02
45	637.22	28C45	30	120	178	102	60.55	28A45	40	63.35
48	679.63	28C48	30	120	178	102	62.72	28A48	40	69.68
54	764.47	28C54	30	120	178	127	74.60	28A54	40	82.34
57	806.89	28C57	30	120	178	127	81.77	28A57	40	88.67
60	849.32	28C60	30	120	178	127	88.94	28A60	40	97.97
68	962.46	28C68	30	133	191	127	108.05	28A68	40	122.79
72	1019.04	28C72	40	133	191	127	117.61	28A72	40	135.19
76	1075.62	28C76	40	133	191	127	127.17	28A76	40	147.60
95	1344.39	28C95	40	133	191	127	172.57	28A95	40	206.53

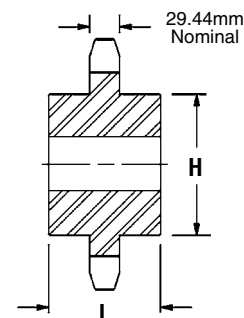
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.



TYPE A



TYPE B



TYPE C

ISO 28B-1

1.75 INCH (44.45MM) PITCH SIMPLEX

CHAIN DATA:

BS 228/20

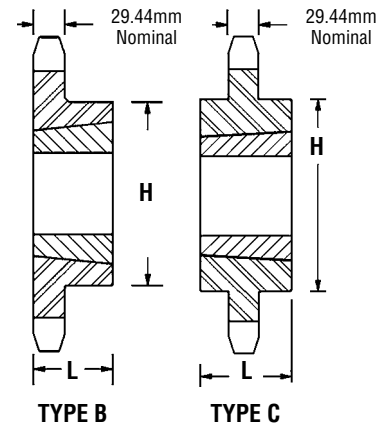
ISO 28B-1

PITCH: 44.45mm (1.75 in.)

ROLLER DIAMETER: 29.94mm (1.10 in.)

ROLLER WIDTH: 30.99mm (1.22 in.)

TENSILE: 200,000 Newtons.)

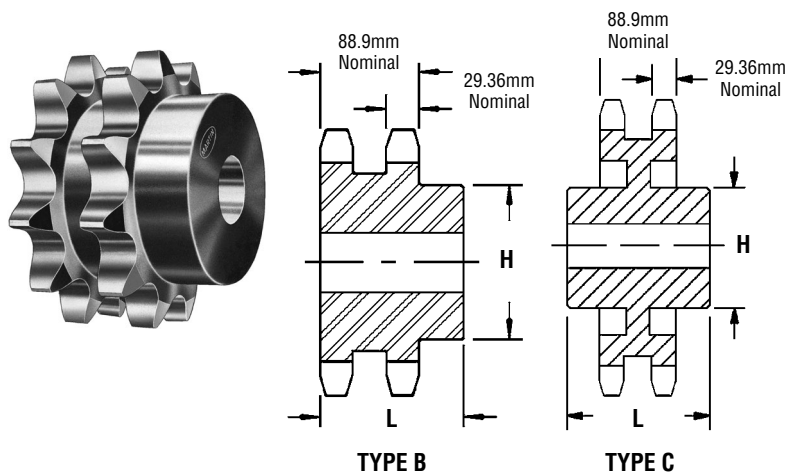


Simplex-Taper Bushed-Steel

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max.	Dimension		Weight (Approx.)	
	MM			MM	L MM	H MM	Rim Kilos	Bushing Kilos
11	157.77	28BTB11	2517	60.0	45.0	108.0	3.53	1.30
12	171.74	28BTB12	2517	60.0	45.0	108.0	3.86	1.30
13	185.75	28BTB13	3020	75.0	50.8	135.0	5.90	2.24
14	199.76	28BTB14	3020	75.0	50.8	135.0	7.04	2.24
15	213.79	28BTB15	3020	75.0	50.8	135.0	8.17	2.24
16	227.84	28BTB16	3020	75.0	50.8	135.0	9.76	2.24
17	241.90	28BTB17	3020	75.0	50.8	135.0	11.35	2.24
18	255.98	28BTB18	3020	75.0	50.8	135.0	12.49	2.24
19	270.06	28BTB19	3020	75.0	50.8	135.0	13.62	2.24
20	284.15	28BTB20	3020	75.0	50.8	135.0	14.30	2.24
21	298.24	28BTB21	3020	75.0	50.8	135.0	14.98	2.24
22	312.34	28BTB22	3020	75.0	50.8	135.0	16.91	2.24
23	326.44	28BTB23	3020	75.0	50.8	135.0	18.84	2.24
24	340.55	28BTB24	3020	75.0	50.8	135.0	20.77	2.24
25	354.66	28BTB25	3020	75.0	50.8	135.0	22.70	2.24
26	368.77	28BTB26	3020	75.0	50.8	135.0	24.63	2.24
27	382.88	28BTB27	3020	75.0	50.8	135.0	26.56	2.24
28	397.00	28BTB28	3020	75.0	50.8	135.0	28.49	2.24
30	425.24	28BTB30	3020	75.0	50.8	135.0	32.35	2.24
32	453.49	28BTB32	3020	75.0	50.8	135.0	36.21	2.24
38	538.27	28BTB38	3535	100.0	88.9	172.0	45.40	5.18
40	566.54	28CTB40	3535	100.0	88.9	172.0	47.79	5.18
42	594.82	28CTB42	3535	100.0	88.9	172.0	50.18	5.18
45	637.22	28CTB45	4040	115.0	101.6	219.0	57.35	8.27
48	679.63	28CTB48	4040	115.0	101.6	219.0	61.17	8.27
54	764.46	28CTB54	4040	115.0	101.6	219.0	68.82	8.27
57	806.90	28CTB57	4040	115.0	101.6	219.0	72.64	8.27
60	849.32	28CTB60	4040	115.0	101.6	219.0	76.44	8.27
68	962.46	28CTB68	4040	115.0	101.6	219.0	86.63	8.27
72	1019.05	28CTB72	4040	115.0	101.6	219.0	91.73	8.27
76	1075.62	28CTB76	4040	115.0	101.6	219.0	96.83	8.27
95	1344.37	28CTB95	4040	115.0	101.6	219.0	121.03	8.27

1.75 INCH (44.45MM) PITCH DUPLEX

ISO **28B-2**



CHAIN DATA:

BS 228/20

ISO 28B-2

PITCH: 44.45mm (1.75 in.)

ROLLER DIAMETER: 27.94mm (1.10 in.)

ROLLER WIDTH: 30.99mm (1.22 in.)

TENSILE: 373,700 Newtons.

Duplex-Type B/C-Steel

No. Teeth	Pitch Diameter	Catalog Number	Bore		Hub		Weight (Approx.)
			Stock	Max.	H	L	
	MM		MM	MM	MM	MM	Kilos
11	157.77	D28B11	25	75	112	120	10.21
12	171.74	D28B12	25	84	125	120	13.02
13	185.75	D28B13	25	87	130	120	16.00
14	199.76	D28B14	25	90	135	120	19.28
15	213.79	D28B15	25	95	145	120	22.91
16	227.84	D28B16	30	107	160	120	26.92
17	241.91	D28B17	30	120	178	120	30.83
18	255.98	D28B18	30	120	178	120	34.74
19	270.06	D28B19	30	120	178	120	38.93
20	284.14	D28B20	30	120	178	120	44.27
21	298.24	D28B21	30	120	178	120	45.08
22	312.34	D28B22	30	120	178	120	48.15
23	326.44	D28B23	30	120	178	120	51.59
24	340.54	D28B24	30	120	178	120	55.03
25	354.65	D28B25	30	120	178	120	58.47
26	368.77	D28B26	30	120	178	120	64.06
28	397.00	D28B28	30	120	178	120	76.05
30	425.24	D28B30	30	120	178	120	89.16
32	453.49	D28B32	30	120	178	120	103.38
38	538.27	D28B38	30	120	191	159	97.53
40	566.54	D28C40	40	133	191	159	109.47
45	637.22	D28C45	40	133	191	159	137.32
48	679.63	D28C48	40	133	191	159	153.61
54	764.47	D28C54	40	162	241	181	204.44
57	806.90	D28C57	40	162	241	181	210.02
60	849.32	D28C60	40	162	241	181	230.82
68	962.46	D28C68	40	162	241	181	273.98
72	1019.04	D28C72	40	162	241	181	305.70
76	1075.62	D28C76	40	162	241	181	323.56

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

ISO 32B-1

2.00 INCH (50.80MM) PITCH SIMPLEX

CHAIN DATA:

BS 228/22

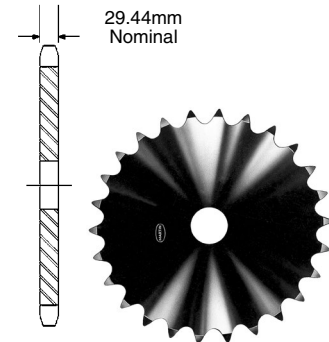
ISO 32B-1

PITCH: 50.80mm(2.00 in.)

ROLLER DIAMETER: 29.21mm (1.15 in.)

ROLLER WIDTH: 30.99mm (1.22 in.)

TENSILE: 255,000 Newtons.

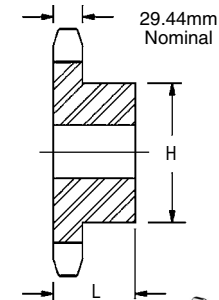


TYPE A

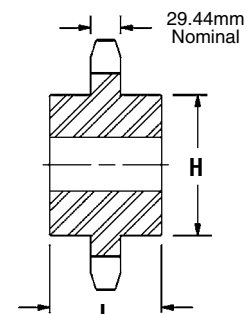
Simplex-Type B/C-Steel/Cast

Simplex-Type A — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Rim Kilos	Catalog Number	Bore Stock MM	Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM				
11	180.31	32B11	30	80	120	80	9.04	32A11	32	5.00
12	196.28	32B12	30	80	133	80	11.11	32A12	32	6.02
13	212.27	32B13	30	102	152	70	12.61	32A13	32	7.12
14	228.29	32B14	30	102	152	70	14.97	32A14	32	8.32
15	244.33	32B15	30	120	178	70	17.32	32A15	40	9.50
16	260.39	32B16	30	120	178	70	18.78	32A16	40	11.64
17	276.46	32B17	30	120	178	70	20.23	32A17	40	12.35
18	292.55	32B18	30	120	178	70	21.88	32A18	40	13.96
19	308.64	32B19	30	120	178	70	23.53	32A19	40	15.57
20	324.74	32B20	30	120	178	70	25.37	32A20	40	17.36
21	340.84	32B21	30	120	178	70	27.20	32A21	40	19.15
22	356.96	32B22	30	120	178	70	29.23	32A22	40	21.13
23	373.07	32B23	30	120	178	70	31.25	32A23	40	23.10
24	389.19	32B24	30	120	178	76	35.33	32A24	40	25.26
25	405.32	32B25	30	120	178	76	36.80	32A25	40	27.41
26	421.45	32B26	30	120	181	76	39.41	32A26	40	30.25
27	437.58	32B27	30	120	181	76	42.02	32A27	40	33.10
28	453.72	32B28	30	120	181	76	44.62	32A28	40	35.94
30	485.99	32B30	30	120	181	76	49.84	32A30	40	41.63
32	518.28	32B32	30	134	203	76	58.02	32A32	40	47.31
38	615.17	32B38	30	134	203	114	86.78	32A38	40	64.37
40	647.47	32C40	30	134	203	114	91.35	32A40	40	72.98
42	679.78	32C42	40	134	203	114	95.91	32A42	40	81.60
45	728.25	32C45	40	134	203	127	116.97	32A45	40	94.52
48	776.72	32C48	40	134	203	127	130.43	32A48	40	107.44
54	873.68	32C54	40	134	203	127	157.34	32A54	40	133.29
57	922.16	32C57	40	134	203	127	170.79	32A57	40	146.21
60	970.65	32C60	40	134	203	127	184.25	32A60	40	164.35
68	1099.96	32C68	40	134	203	127	220.13	32A68	40	212.73
72	1164.62	32C72	40	134	203	152	282.31	32A72	40	236.91
76	1229.28	32C76	40	134	203	152	297.99	32A76	40	261.10



TYPE B



TYPE C

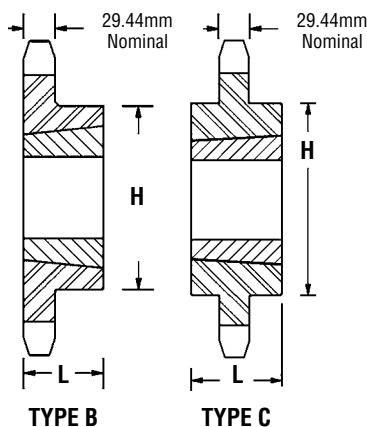
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

Metric Sprockets

Martin

2.00 INCH (50.80MM) PITCH **SIMPLEX**

ISO **32B-1**



CHAIN DATA:

BS 228/22

ISO 32B-1

PITCH: 50.80mm (2.00 in.)

ROLLER DIAMETER: 29.21mm (1.15 in.)

ROLLER WIDTH: 30.99mm (1.22 in.)

TENSILE: 255,000 Newtons.

Simplex-Taper Bushed-Steel

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max.	Dimension		Weight (Approx.)	
	MM			MM	L	H	Rim	Bushing
					MM	MM	Kilos	Kilos
11	180.34	32BTB11	2517	60.0	45.0	108.0	4.51	0.59
12	196.29	32BTB12	3020	75.0	50.8	135.0	5.27	2.24
13	212.29	32BTB13	3020	75.0	50.8	135.0	6.38	2.24
14	228.29	32BTB14	3020	75.0	50.8	135.0	6.87	2.24
15	244.30	32BTB15	3535	100.0	88.9	172.0	11.80	5.18
16	260.40	32BTB16	3535	100.0	88.9	172.0	13.38	5.18
17	276.40	32BTB17	3535	100.0	88.9	172.0	14.98	5.18
18	292.55	32BTB18	3535	100.0	88.9	172.0	16.12	5.18
19	308.66	32BTB19	3535	100.0	88.9	172.0	17.25	5.18
20	324.71	32BTB20	3535	100.0	88.9	172.0	21.10	5.18
21	340.82	32BTB21	3535	100.0	88.9	172.0	24.94	5.18
22	356.98	32BTB22	3535	100.0	88.9	172.0	27.79	5.18
23	373.08	32BTB23	3535	100.0	88.9	172.0	30.64	5.18
24	389.18	32BTB24	3535	100.0	88.9	172.0	33.80	5.18
25	405.32	32BTB25	3535	100.0	88.9	172.0	36.32	5.18
26	421.45	32BTB26	3535	100.0	88.9	172.0	39.16	5.18
27	437.58	32BTB27	3535	100.0	88.9	172.0	42.00	5.18
28	453.72	32BTB28	3535	100.0	88.9	172.0	44.84	5.18
30	486.99	32BTB30	3535	100.0	88.9	172.0	50.52	5.18
32	518.26	32BTB32	3535	100.0	88.9	172.0	56.20	5.18
38	615.14	32BTB38	4040	115.0	101.6	219.0	68.10	8.27
40	647.49	32CTB40	4040	115.0	101.6	219.0	77.08	8.27
45	728.26	32CTB45	4040	115.0	101.6	219.0	99.53	8.27
48	776.72	32CTB48	4040	115.0	101.6	219.0	113.01	8.27
54	873.68	32CTB54	4040	115.0	101.6	219.0	139.95	8.27
57	922.17	32CTB57	4545	125.0	114.3	247.7	136.20	9.99
60	970.63	32CTB60	4545	125.0	114.3	247.7	158.84	9.99
64	1035.30	32CTB64	4545	125.0	114.3	247.7	189.03	9.99
70	1132.29	32CTB70	4545	125.0	114.3	247.7	234.32	9.99

ISO 32B-2

2.00 INCH (50.80MM) PITCH DUPLEX

CHAIN DATA:

BS 228/22

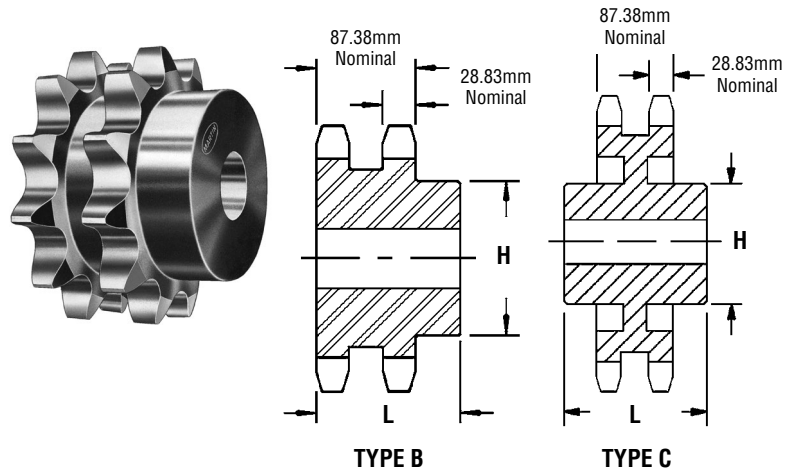
ISO 32B-2

PITCH: 50.80mm (2.00 in.)

ROLLER DIAMETER: 29.21mm (1.15 in.)

ROLLER WIDTH: 30.99mm (1.22 in.)

TENSILE: 485,400 Newtons.



Duplex-Type B/C-Steel

No. Teeth	Pitch Diameter	Catalog Number	Bore		Hub		Weight (Approx.)
			Stock	Max.	H	L	
			MM	MM	MM	MM	
11	180.31	D32B11	30	84	125	120	10.42
12	196.28	D32B12	30	90	133	120	16.32
13	212.27	D32B13	30	95	145	120	21.77
14	228.29	D32B14	30	103	155	120	26.31
15	244.33	D32B15	30	107	160	120	30.84
16	260.39	D32B16	30	120	178	120	34.02
17	276.40	D32B17	30	120	178	120	41.28
18	292.55	D32B18	30	120	178	120	43.55
19	308.64	D32B19	30	120	178	120	48.53
20	324.74	D32B20	30	133	191	120	53.98
21	340.84	D32B21	30	133	191	120	58.97
22	356.96	D32B22	30	133	191	120	63.96
23	373.07	D32B23	30	133	191	120	71.21
24	389.19	D32B24	30	133	254	120	77.57
25	405.32	D32B25	30	133	254	120	84.82
26	421.45	D32B26	30	133	254	120	91.17
28	453.72	D32B28	30	133	254	120	116.57
30	485.99	D32B30	30	133	254	120	170.25
38	615.14	D32B38	40	178	254	181	170.25
40	647.49	D32C40	40	178	254	181	177.46
45	728.26	D32C45	40	178	254	181	195.50
48	776.72	D32C48	40	178	254	181	204.51
54	873.68	D32C54	40	178	254	181	222.53
57	922.16	D32C57	40	178	254	181	231.54
68	1099.96	D32C68	40	178	254	181	255.83
76	1229.28	D32C76	40	178	254	181	292.83

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew angle to keyseat.

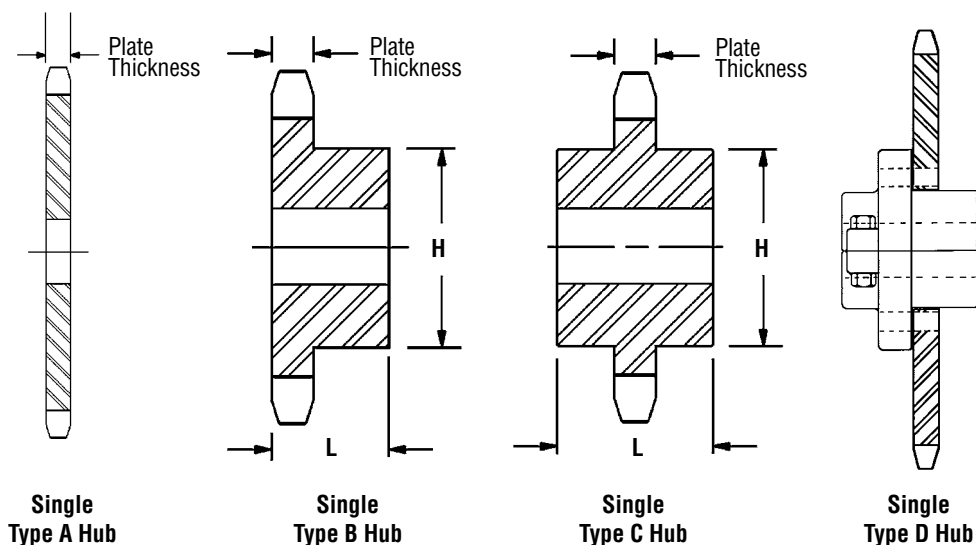
SPROCKET ENGINEERING DATA

ROLLER CHAIN DIMENSIONS
 SPROCKET TOOTH DIMENSIONS
 MAXIMUM HUB RECOMMENDATIONS
 APPLICATION AND SELECTION
 HARDENING
 CHAIN LENGTH CALCULATION
 SPEED RATIOS
 SPROCKET DIAMETERS
 KILOWATT RATINGS

SPROCKETS

Sprocket manufacturers have adopted specific types of sprocket construction styles as Standard Nomenclature. In addition to the standard sprockets, special sprockets may be available in the same styles.

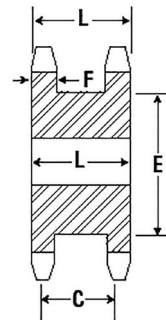
- Style A** — Flat sprocket platewheel with no hub extension either side.
- Style B** — Sprocket with hub extension one side.
- Style C** — Sprocket with hub extension both sides.
- Style D** — Sprocket with a detachable bolt on hub attached to a plate.



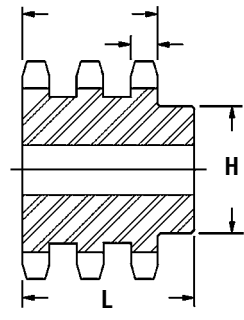
Multiple Strand Sprockets-

Listed using a letter prefix starting with the letter "D" for Double Strand, "E" for Triple Strand, and "F" for Quadruple, etc. They also have the same hub configuration letter designation listed on previous page.

In addition to the four specific types, sprockets may also be made in various other styles.



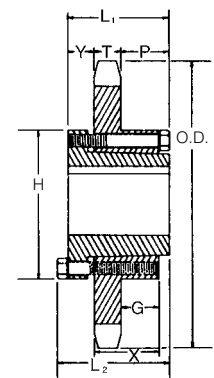
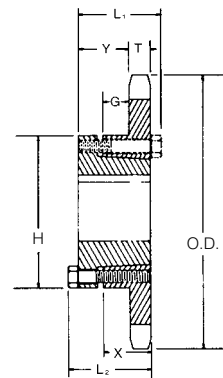
Double Type A Hub



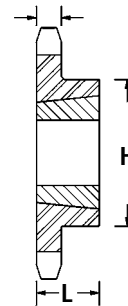
Triple Type b Hub

Four common styles are:

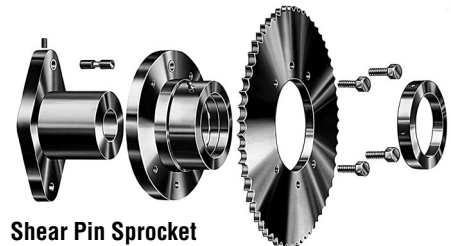
1. The QD (quick detachable) sprocket; here a tapered bushing is bolted into the bore machined in the sprocket. This bushing when inserted into the sprocket compresses onto the shaft providing a tight grip.



2. The taper bushed sprocket is another style of an interchangeable bushed sprocket, which provides a positive grip on a driven shaft.

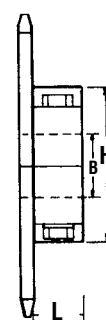


3. A shear pin type hub is bolted to a sprocket providing an overload device; as sprocket torque ratings are exceeded the shear device disengages sprocket from drive.

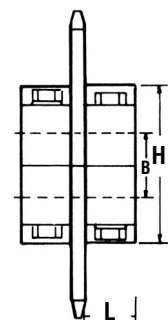


Shear Pin Sprocket

4. A split type sprocket is used in place of solid type to allow quick installation without disruption of shaft and alignment.



Style B



Style C

Sprocket Nomenclature



Sprocket nomenclatures provide the chain pitch written to the left of the hub style code letter followed by the number of teeth in the sprocket. If the sprocket is to be multiple strand, the prefix code letter is added to the beginning of the part number.

A suffix of H is added if the teeth are to be treated. If the sprocket is to be bored for either QD or Taper bushed, the center hub letter is changed. For QD style the letter designation of the bushing is used in lieu of the hub style code. If a taper bushing is to be used, the two letters TB are added behind the hub code letter.

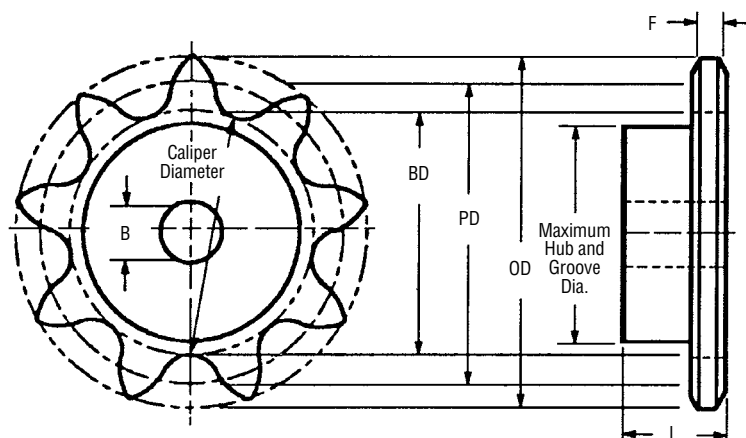
In some instances, the material a sprocket is to be manufactured from will be added into the part number as a suffix.

For example:

SS	—	Stainless Steel Material
NM	—	Non-Metallic
BR	—	Brass or Bronze Material
CD	—	Cadmium Plated
Zi	—	Zinc Plated
Ni	—	Nickel Plated
CH	—	Chrome Plated

If the part is to be used with a shear pin device, the center hub style letter is substituted with an SP.

Most manufacturers of sprockets conform to the ISO (International Standard Organization.) and *Martin* conforms to the Type II tooth form as given in the Standard ISO 606-1982(e). It is not necessary to show detailed tooth information on sprocket drawings, just specify ISO standard tooth form.



Sprocket Dimensional Specifications

Bottom Diameter (BD) — The diameter of a circle tangent to the bottoms of the tooth spaces.

Caliper Diameter — Since the bottom diameter of a sprocket with odd number of teeth cannot be measured directly, caliper diameters are the measurement across the tooth spaces nearly opposite.

Pitch Diameter (PD) — The diameter across to the pitch circle which is the circle followed by the centers of the chain pins as the sprocket revolves in mesh with the chain.

$$PD = \frac{PITCH}{\sin(180/Nt)}$$

Outside Diameter (OD) — The measurement from the tip of the sprocket tooth across to the corresponding point directly across the sprocket. It is comparatively unimportant as the tooth length is not vital to proper meshing with the chain. The outside diameter may vary depending on type of cutter used.

$$OD = (Pitch) (.6 + COT [180 / Nt])$$

Hub Diameter (H) — That distance across the hub from one side to another. This diameter must not exceed the calculated diameter of the inside of the chain side bars.

Maximum Sprocket Bore — Maximum Sprocket Bore is determined by the required hub wall thickness for proper strength. Allowance must be made for keyway and setscrews.

Face Width (T) — Face width is limited in its maximum dimension to allow proper clearance to provide for chain engagement and disengagement. The minimum width is limited to provide the proper strength to carry the imposed loads.

Length Thru Bore (L) — Length Thru Bore (or "L") must be sufficient to allow a long enough key to withstand the torque transmitted by the shaft. This also assures stability of the sprocket on the shaft.

Roller Chain Dimensions



BS/ISO Standard Series Chain

ISO Number	Pitch	Roller Diam.	Width Between Inner Plates	Inside Link Plate Height	Width over Bearing Pins	Average Tensile Strength (Nm)
05B	8.00	5.00	3.00	7.11	8.6	440
05B-2					14.2	780
05B-3					19.9	1,110
06B	9.525	6.35	5.72	8.26	13.5	890
06B-2					23.8	1,690
06B-3					34.0	2,490
08B	12.70	8.51	7.75	11.81	17.0	1,780
08B-2					31.0	3,110
08B-3					44.9	4,450
08A	12.70	7.95	7.85	12.07	17.8	1,380
10B	15.875	10.16	9.65	14.73	19.6	2,220
10B-2					36.2	4,450
10B-3					52.8	6,670
12B	19.05	12.07	11.68	16.13	22.7	2,890
12B-2					42.2	5,780
12B-3					61.7	8,670
16B	25.40	15.88	17.02	21.08	36.1	4,230
16B-2					68.0	8,450
16B-3					99.9	12,680
20B	31.75	19.05	19.56	26.42	43.2	6,450
20B-2					79.7	12,900
20B-3					116.1	19,350
24B	38.10	25.40	25.40	33.40	53.4	9,790
24B-2					101.8	19,570
24B-3					150.2	29,360
28B	44.45	27.94	30.99	37.08	65.1	12,900
28B-2					124.7	25,800
28B-3					184.3	38,700
32B	50.80	29.21	30.99	42.29	67.4	16,900
32B-2					126.0	33,810
32B-3					184.5	50,710
40B	63.50	39.37	38.10	52.96	82.6	26,240
40B-2					154.9	52,490
40B-3					227.2	78,730
48B	76.20	48.26	45.72	63.88	99.1	40,030
48B-2					190.4	80,070
48B-3					281.6	172,000
56B-1	88.90	53.98	53.34	77.8	114.6	246,000
56B-2	88.90	53.98	53.34		221.2	
64B-1	101.6	63.50	60.96	90.1	130.9	325,000
64B-2	101.6	63.50	60.96		250.8	
72B-1	114.3	72.39	68.58	103.6	147.4	399,000

Standard Keyway Dimensions (Metric)

Shaft Diameter		Key	Keyway Width	Key Depth
Over	Up to and Incl.			
6	8	2x2	2	1
8	10	3x3	3	1.4
10	12	4x4	4	1.8
12	17	5x5	5	2.3
17	22	6x6	6	2.8
22	30	8x7	8	3.3
30	38	10x8	10	3.3
38	44	12x8	12	3.3
44	50	14x9	14	3.8
50	58	16x10	16	4.3
58	65	18x11	18	4.4
65	75	20x12	20	4.9
78	85	22x14	22	5.4
85	95	25x14	25	5.4
95	110	28x16	28	6.4
110	130	32x18	32	7.4
130	150	36x20	36	8.4
150	170	40x22	40	9.4
170	200	45x25	45	10.4

Bore Tolerances (Metric)

Stock Metric Bores are machined to a minimum H7 Tolerance.

Standard Keyway Dimensions (Imperial)

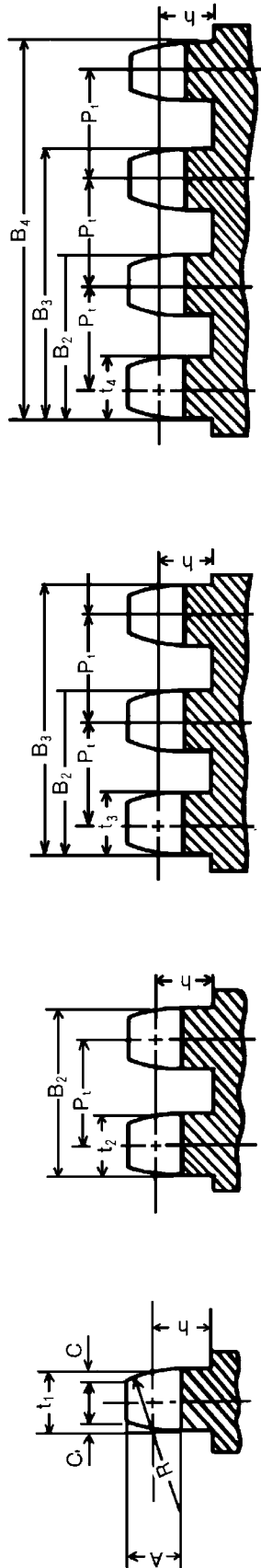
Shaft Diameter	Keyway	Width	Depth
$\frac{1}{2}$ - $\frac{9}{16}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{16}$
$\frac{5}{8}$ - $\frac{7}{8}$	$\frac{3}{16} \times \frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{32}$
$1 \frac{5}{16}$ - $1 \frac{1}{4}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{8}$
$1 \frac{5}{16}$ - $1 \frac{3}{8}$	$\frac{5}{16} \times \frac{5}{16}$	$\frac{5}{16}$	$\frac{5}{32}$
$1 \frac{7}{16}$ - $1 \frac{3}{4}$	$\frac{3}{8} \times \frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{16}$
$1 \frac{13}{16}$ - $2 \frac{3}{4}$	$\frac{1}{2} \times \frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4}$
$2 \frac{5}{16}$ - $2 \frac{3}{4}$	$\frac{5}{8} \times \frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{16}$
$2 \frac{13}{16}$ - $3 \frac{1}{4}$	$\frac{3}{4} \times \frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{8}$
$3 \frac{5}{16}$ - $3 \frac{3}{4}$	$\frac{7}{8} \times \frac{7}{8}$	$\frac{7}{8}$	$\frac{7}{16}$
$3 \frac{13}{16}$ - $4 \frac{1}{2}$	1×1	1	$\frac{1}{2}$
$4 \frac{9}{16}$ - $5 \frac{1}{2}$	$1 \frac{1}{4} \times 1 \frac{1}{4}$	$1 \frac{1}{4}$	$\frac{5}{8}$
$5 \frac{9}{16}$ - $6 \frac{1}{2}$	$1 \frac{1}{2} \times 1 \frac{1}{2}$	$1 \frac{1}{2}$	$\frac{3}{4}$

BORE TOLERANCES (Imperial)

1 and Less	+.001-.000
1 to 2	+.002-.000
2 to 3	+.003-.000
3 & up	+.004-.000

Bores with closer tolerances will be supplied at a slight increase in price.

ISO Sprocket Tooth Dimensions



SIMPLEX

DUPLEX

TRIPLEX

QUADRUPLX

Chain Data For All Sprockets				H	Chamfer Height	Single Strand t_1 and t_{HR}	Double and Triple Strand			t_4	B_2	B_3	B_4	P_1	Tolerance on “ t_1 ” and “ M ” Machined
I.S.O. Chain No.	Pitch P	Roller Width W	Roller Diameter				t_2	B_2	B_3						
STANDARD SERIES ROLLER CHAIN SPROCKETS															
04	6	2.8	4	4.1	3	2.6	2.5	-	-	2.4	-	-	-	-	-
05	8	3.0	5	5.3	4	2.8	2.7	8.3	13.9	2.6	8.2	13.8	19.4	5.6	0.2
06	9.525	5.72	6.35	6.2	4.8	5.3	5.2	15.4	25.6	5.0	15.2	25.4	35.6	10.2	0.2
08	12.70	7.75	8.51	8.4	6.4	7.2	7	21.0	34.9	6.8	20.7	34.6	48.5	13.9	0.2
10	15.875	9.65	10.16	10.2	7.9	9.0	9	25.6	42.2	9.0	25.6	42.2	58.8	16.6	0.3
12	19.05	11.68	12.07	11.2	9.5	11.1	10.8	30.4	49.9	10.9	30.4	49.9	69.4	19.5	0.3
16	25.40	17.02	15.88	14.6	12.7	16.2	15.8	47.7	79.6	15.8	47.7	79.6	111.5	31.9	0.3
20	31.75	19.58	19.05	18.0	15.9	18.5	18.2	54.6	91.0	18.2	54.6	91.0	127.5	36.5	0.4
24	38.10	25.40	25.40	22.4	19.1	24.1	23.6	72.0	120.3	23.6	72.0	120.3	168.7	48.4	0.4
28	44.45	30.99	27.94	24.9	22.2	29.4	28.8	88.4	148.0	28.8	88.4	148.0	207.6	59.6	0.4
32	50.80	30.99	29.21	28.2	25.4	29.4	28.8	87.4	146.0	28.8	87.4	146.0	204.6	58.6	0.5
40	63.50	38.10	39.37	34.9	31.8	36.2	35.4	107.7	180.0	35.4	107.7	180.0	252.3	72.3	0.5
48	76.20	45.72	48.26	41.8	38.1	43.3	42.5	133.7	224.9	42.5	133.7	224.9	316.1	91.2	0.5
56	88.90	53.34	53.98	50.2	44.5	50.7	49.6	156.2	262.8	49.6	156.2	262.8	369.4	106.6	0.6
64	101.60	60.96	63.50	57.8	50.8	57.9	56.7	176.6	296.5	56.7	176.6	296.5	416.4	119.9	0.6
72	114.30	68.58	72.39	66.0	57.2	65.2	63.8	200.1	336.4	63.8	200.1	336.4	472.7	136.3	0.7

† = Not made in multiple strands.

Maximum Hub Dimensions



Recommended Max. Hub and Bore Sizes

BRITISH STANDARD (ISO) NO. 05B

STD. KEYWAY (Bs. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diam. of Shaft	Keyway Width × Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall Steel Sprockets	
															Setscrew over key	Setscrew not over key
6	555	5.7	3	16	6940	32.1	14	26	8645	57.7	23					
7	1300	8.5	4	17	7290	34.6	14	27	8655	60.3	23					
8	2080	11.2	6	18	7590	37.2	14	28	8650	62.8	23					
9	2860	13.8	6	19	7840	39.8	14	29	8625	65.4	23	9	3 × 1.4	M4	11	8
10	3610	16.5	8	20	8050	42.4	14	30	8580	68.0	23	11	4 × 1.8	M4	12	8
11	4310	19.1	8	21	8230	44.9	19	31	8540	70.5	23	12 - 14	5 × 2.3	M5	15	10
12	4960	21.7	8	22	8370	47.5	19	32	8465	73.1	23	16 - 22	6 × 2.8	M6	18	12
13	5540	24.3	8	23	8480	50.1	19	35	8200	80.7	23	22 - 30	8 × 3.3	M8	23	16
14	6070	26.9	10	24	8560	52.6	19	40	7580	93.5	23	32 - 35	10 × 3.3	M10	27	20
15	6530	29.5	12	25	8610	55.2	19	45	6820	106.3	23	38 - 44	12 × 3.3	M12	31	24

BRITISH STANDARD (ISO) NO. 06B

STD. KEYWAY (Bs. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diam. of Shaft	Keyway Width × Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall Steel Sprockets	
6	290	7.1	4	16	3630	38.5	20	26	4525	69.1	40				Setscrew over key	Setscrew not over key
7	680	10.4	5	17	3810	41.6	23	27	4530	72.1	40				12	8
8	1090	13.6	6	18	3970	44.7	26	28	4525	75.2	40	11	4 × 1.8	M4	15	10
9	1495	16.8	8	19	4100	47.7	28	29	4510	78.2	40	12 - 14	5 × 2.3	M5	18	12
10	1885	20.0	8	20	4210	50.8	28	30	4490	81.3	40	16 - 22	6 × 2.8	M6	23	16
11	2260	23.1	8	21	4300	53.8	30	31	4470	84.3	43	22 - 30	8 × 3.3	M8	27	20
12	2590	26.2	10	22	4380	56.9	35	32	4430	87.4	43	32 - 35	10 × 3.3	M10	31	24
13	2900	29.3	12	23	4430	59.9	35	35	4290	96.5	43	38 - 44	12 × 3.3	M12	36	28
14	3170	32.4	15	24	4480	63.0	35	40	3970	111.7	48	44 - 50	14 × 3.8	M14	41	32
15	3420	35.5	18	25	4510	66.0	40	45	3570	126.9	48	50 - 58	16 × 4.3	M16		

BRITISH STANDARD (ISO) NO. 08B

STD. KEYWAY (Bs. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diam. of Shaft	Keyway Width × Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall Steel Sprockets	
6	7	8	9	10	11	12	13	14	15	16	17				Setscrew over key	Setscrew not over key
6	130	9.0	6	16	1630	50.8	30	26	2040	91.6	46					
7	305	13.3	8	17	1720	54.9	30	27	2040	95.6	46					
8	495	17.6	10	18	1790	60.0	35	28	2040	99.7	46	16 - 22	6 × 2.8	M6	18	12
9	675	21.9	10	19	1850	63.1	40	29	2040	103.7	46	22 - 30	8 × 3.3	M8	23	16
10	850	26.0	11	20	1890	67.1	40	30	2020	107.8	46	32 - 35	10 × 3.3	M10	27	20
11	1020	30.2	13	21	1940	71.2	40	31	2020	111.8	46	38 - 44	12 × 3.3	M12	31	24
12	1170	34.4	17	22	1970	75.3	40	32	2000	115.9	46	44 - 50	14 × 3.8	M14	36	28
13	1310	38.5	20	23	2000	79.4	40	35	1930	128.1	46	50 - 58	16 × 4.3	M16	41	32
14	1430	42.6	24	24	2020	83.4	40	40	1780	148.3	50	58 - 65	18 × 4.4	M16	41	32
15	1540	46.7	28	25	2030	87.5	40	45	1600	168.6	50	65 - 75	20 × 4.9	M20	50	40

BRITISH STANDARD (ISO) NO. 10B

STD. KEYWAY (Bs. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diam. of Shaft	Keyway Width × Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall Steel Sprockets	
															Setscrew over key	Setscrew not over key
6	220	11.4	8	16	2720	63.7	40	26	3400	114.7	55					
7	510	16.9	10	17	2860	68.8	40	27	3405	119.7	55					
8	820	22.2	11	18	2980	74.0	50	28	3405	124.3	55	16 - 22	6 × 2.8	M6	18	12
9	1125	27.5	15	19	3080	79.1	50	29	3395	129.9	55	22 - 30	8 × 3.3	M8	23	16
10	1420	32.8	18	20	3160	84.2	50	30	3370	135.0	58	32 - 35	10 × 3.3	M10	27	20
11	1690	38.0	21	21	3230	89.2	50	31	3360	140.0	58	38 - 44	12 × 3.3	M12	31	24
12	1940	43.2	25	22	3290	94.3	50	32	3330	145.1	58	44 - 50	14 × 3.8	M14	36	28
13	2180	48.3	28	23	3330	99.4	50	35	3220	160.3	58	50 - 58	16 × 4.3	M16	41	32
14	2380	53.5	32	24	3360	104.5	50	40	2970	185.6	63	58 - 65	18 × 4.4	M16	41	32
15	2560	58.6	35	25	3380	109.6	50	45	2670	210.9	64	65 - 75	20 × 4.9	M20	50	40

BRITISH STANDARD (ISO) NO. 12B

STD. KEYWAY (Bs. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diam. of Shaft	Keyway Width × Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall Steel Sprockets	
6	155	15.5	12	16	1960	78.2	48	26	2445	139.4	58				Setscrew over key	Setscrew not over key
7	370	22.0	15	17	2060	84.4	55	27	2450	145.4	58					
8	590	24.5	16	18	2150	90.5	55	28	2445	151.5	58	16 - 22	6 × 2.8	M6	18	12
9	810	34.8	20	19	2220	96.6	55	29	2440	157.6	60	22 - 30	8 × 3.3	M8	23	16
10	1020	41.1	23	20	2280	102.7	55	30	2430	163.7	60	32 - 35	10 × 3.3	M10	27	20
11	1220	47.3	28	21	2330	108.9	55	31	2415	169.8	64	38 - 44	12 × 3.3	M12	31	24
12	1400	53.6	32	22	2370	115.0	55	32	2395	175.9	64	44 - 50	14 × 3.8	M14	36	28
13	1570	59.8	36	23	2400	121.1	55	35	2320	194.1	64	50 - 58	16 × 4.3	M16	41	32
14	1720	65.9	40	24	2420	127.2	55	40	2140	224.5	70	58 - 65	18 × 4.4	M16	41	32
15	1850	72.1	44	25	2440	133.3	55	45	1930	254.9	70	65 - 75	20 × 4.9	M20	50	40

BRITISH STANDARD (ISO) NO. 16B

STD. KEYWAY (Bs. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diam. of Shaft	Keyway Width Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall Steel Sprockets	
6	7	8	9	10	11	12	13	14	15	16	17				SS over key	SS not over key
6	120	21.3	15	16	1480	105.0	64	26	1840	186.5	76					
7	275	30.1	21	17	1550	113.2	70	27	1845	194.6	76	22 - 30	8 × 3.3	M8	23	16
8	445	38.6	22	18	1610	121.4	70	28	1840	202.7	76	32 - 35	10 × 3.3	M10	27	20
9	610	47.1	28	19	1670	129.5	70	29	1835	210.9	76	38 - 44	12 × 3.3	M12	31	24
10	770	55.5	34	20	1720	137.7	70	30	1830	219.0	76	44 - 50	14 × 3.8	M14	36	28
11	920	63.8	38	21	1750	145.8	70	31	1815	227.1	76	50 - 58	16 × 4.3	M16	41	32
12	1050	72.1	44	22	1780	154.0	70	32	1800	235.2	76	58 - 65	18 × 4.4	M16	41	32
13	1180	80.4	48	23	1800	162.1	70	35	1740	259.5	76	65 - 75	20 × 4.9	M20	50	40
14	1290	88.6	53	24	1820	170.2	70	40	1610	300.1	76	75 - 85	22 × 5.4	M20	51	40
15	1390	96.8	58	25	1830	178.4	70	45	1450	340.6	80	85 - 95	25 × 5.4	M20	51	40



Maximum Hub Dimensions

Recommended Max. Hub and Bore Sizes

BRITISH STANDARD (Iso) NO. 16B

STD. KEYWAY (Bs. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diam. of Shaft	Keyway Width x Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall Steel Sprockets	
															SS over key	SS not over key
6	75	26.8	20	16	935	131.4	76	26	1165	233.2	84					
7	175	37.7	25	17	985	141.6	76	27	1170	243.4	84	22 - 30	8 x 3.3	M8	23	16
8	280	48.4	40	18	1020	151.8	76	28	1170	253.6	84	32 - 35	10 x 3.3	M10	27	20
9	385	59.0	43	19	1060	162.0	76	29	1165	263.7	84	38 - 44	12 x 3.3	M12	31	24
10	485	69.5	45	20	1090	172.2	76	30	1160	273.8	84	44 - 50	14 x 3.8	M14	36	28
11	580	79.9	52	21	1110	182.4	76	31	1155	284.0	84	50 - 58	16 x 4.3	M16	41	32
12	670	90.3	60	22	1130	192.6	76	32	1143	294.1	84	58 - 65	18 x 4.4	M16	41	32
13	750	100.6	64	23	1150	202.8	84	35	1110	324.5	84	65 - 75	20 x 4.9	M20	50	40
14	820	110.9	73	24	1160	212.9	84	40	1020	375.2	84	75 - 85	22 x 5.4	M20	51	40
15	880	121.1	76	25	1160	223.1	84	45	920	425.8	84	85 - 95	25 x 5.4	M20	51	40

BRITISH STANDARD (Iso) NO. 16B

STD. KEYWAY (Bs. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diam. of Shaft	Keyway Width x Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall Steel Sprockets	
															SS over key	SS not over key
6	55	30.5	20	16	670	156.0	92	26	830	278.3	102					
7	125	43.6	30	17	700	168.3	92	27	835	290.5	102	32 - 35	10 x 3.3	M10	27	20
8	200	56.5	42	18	730	180.6	92	28	830	302.7	102	38 - 44	12 x 3.3	M12	31	24
9	275	69.4	45	19	755	192.8	92	29	830	314.8	102	44 - 50	14 x 3.8	M14	36	28
10	350	81.8	52	20	775	205.1	92	30	825	317.0	102	50 - 58	16 x 4.3	M16	41	32
11	415	94.3	60	21	790	217.3	92	31	820	339.2	102	58 - 65	18 x 4.4	M16	41	32
12	475	106.7	67	22	805	229.5	92	32	815	351.3	102	65 - 75	20 x 4.9	M20	50	40
13	535	119.1	76	23	815	241.7	92	35	790	387.8	102	75 - 85	22 x 5.4	M20	51	40
14	585	131.4	86	24	825	253.9	92	40	730	448.6	102	85 - 95	25 x 5.4	M20	51	40
15	630	143.8	91	25	830	266.1	92	45	655	509.4	102	95 - 110	28 x 6.4	M20	53	40

BRITISH STANDARD (Iso) NO. 28B

STD. KEYWAY (Bs. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diam. of Shaft	Keyway Width x Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall Steel Sprockets	
															SS over key	SS not over key
6	40	37.7	20	16	520	184.1	108	26	650	326.8	108					
7	100	53.0	28	17	550	198.5	108	27	650	341.0	108	38 - 44	12 x 3.3	M12	31	24
8	155	68.0	40	18	570	212.8	108	28	650	355.2	108	44 - 50	14 x 3.8	M14	36	28
9	215	82.8	50	19	590	227.1	108	29	650	369.4	108	50 - 58	16 x 4.3	M16	41	32
10	270	97.5	60	20	605	241.3	108	30	645	383.6	108	58 - 65	18 x 4.4	M16	41	32
11	325	112.1	73	21	620	255.6	108	31	645	397.8	134	65 - 75	20 x 5.4	M20	51	40
12	375	126.6	84	22	630	269.8	108	32	640	412.0	134	75 - 85	22 x 5.4	M20	51	40
13	415	141.0	93	23	640	284.1	108	35	615	454.6	134	85 - 95	25 x 5.4	M20	51	40
14	455	155.4	93	24	645	298.3	108	40	570	525.5	134	95 - 110	28 x 6.4	M20	53	40
15	490	169.8	108	25	650	312.5	108	45	515	596.3	134	115 - 130	32 x 7.4	M24	63	48

BRITISH STANDARD (Iso) NO. 32B

STD. KEYWAY (Bs. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diam. of Shaft	Keyway Width x Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall Steel Sprockets	
															SS over key	SS not over key
6	30	43.2	20	16	380	210.6	103	26	475	373.6	133					
7	70	60.7	30	17	400	227.0	103	27	475	389.9	133	38 - 44	12 x 3.3	M12	31	24
8	115	77.9	45	18	415	243.4	103	28	475	406.1	133	44 - 50	14 x 3.8	M14	36	28
9	150	94.8	60	19	430	259.7	103	29	475	422.4	133	50 - 58	16 x 4.3	M16	41	32
10	200	111.6	70	20	440	276.0	133	30	470	438.6	133	58 - 65	18 x 4.4	M16	41	32
11	235	128.3	83	21	450	292.3	133	31	470	454.8	139	65 - 75	20 x 5.4	M20	51	40
12	270	144.8	89	22	460	308.6	133	32	465	471.0	139	75 - 85	22 x 5.4	M20	51	40
13	305	161.4	102	23	465	324.9	133	35	450	519.7	139	85 - 95	25 x 5.4	M20	51	40
14	335	177.8	102	24	470	341.1	133	40	415	600.7	139	95 - 110	28 x 6.4	M20	53	40
15	360	194.3	102	25	475	357.4	133	45	375	681.7	139	115 - 130	32 x 7.4	M24	63	48

BRITISH STANDARD (Iso) NO. 40B

STD. KEYWAY (Bs. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diam. of Shaft	Keyway Width x Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall Steel Sprockets	
															SS over key	SS not over key
6	25	54.1	22	16	325	263.4	152	26	405	467.1	278					
7	60	70.0	35	17	340	283.9	165	27	405	487.4	278	44 - 50	14 x 3.8	M14	36	28
8	100	97.5	44	18	355	304.3	173	28	405	507.7	278	50 - 58	16 x 4.3	M16	41	32
9	135	118.6	57	19	365	324.7	189	29	400	528.0	278	58 - 65	18 x 4.4	M16	41	32
10	170	139.6	70	20	375	345.1	192	30	400	548.3	278	65 - 75	20 x 5.4	M20	51	40
11	200	160.4	83	21	385	365.5	208	31	400	568.6	278	75 - 85	22 x 5.4	M20	51	40
12	230	181.2	92	22	390	385.8	225	32	395	588.9	278	85 - 95	25 x 5.4	M20	51	40
13	260	201.8	103	23	395	406.2	229	35	380	649.7	278	95 - 110	28 x 6.4	M20	53	40
14	280	222.4	125	24	400	426.5	244	40	355	751.0	278	115 - 130	32 x 7.4	M20	55	40
15	305	242.9	140	25	400	446.8	260	45	320	852.3	278	130 - 150	36 x 8.4	M24	65	48

BRITISH STANDARD (Iso) NO. 48B

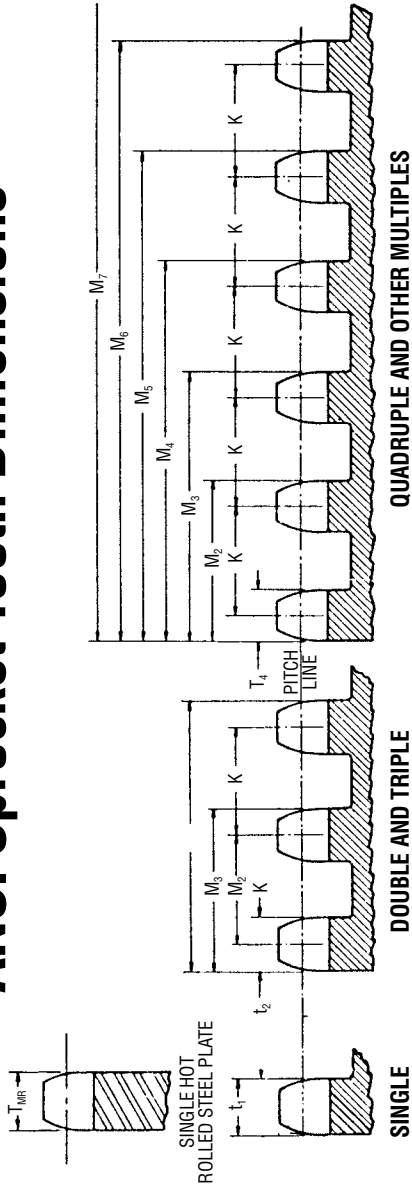
STD. KEYWAY (Bs. Std.) and SETSCREW

No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	No. of Teeth	Max. RPM	Max. Hub	Max. Bore	Diam. of Shaft	Keyway Width x Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall Steel Sprockets	
															SS over key	SS not over key
6	20	64.8	32	16	235	315.9	190	26	290	560.4	268					
7	45	91.0	48	17	245	340.4	198	27	290	584.7	268	58 - 65	18 x 4.4	M16	41	32
8	70	110.8	57	18	255	365.0	219	28	290	609.1	268	65 - 75	20 x 5.4	M20	51	40
9	95	142.2	71	19	265	389.4	227	29	290	633.5	268	75 - 85	22 x 5.4	M20	51	40
10	120	167.3	86	20	270	413.9	248	30	290	657.8	268	85 - 95	25 x 5.4	M20	51	40
11	145	192.3	100	21	280	438.4	268	31	400	682.4	268	95 - 110	28 x 6.4	M20	53	40
12	165	217.2	127	22	280	462.8	268	32	285	706.5	268	115 - 130	32 x 7.4	M20	55	40
13	185	242.0	141	23	285	487.2	268	35	275	779.5	268	130 - 150	36 x 8.4	M20	57	40
14	205	266.7	162	24	290	511.6	268	40	255	901.0	268	150 - 170	40 x 9.4	M20	59	40
15	220	291.3	165	25	290	536.0	268	45	230	1022.5	268	170 - 190	45 x 10.4	M24	69	48

ANSI Sprocket Tooth Dimensions



ANSI Sprocket Tooth Dimensions



Dimensions in Inches

Chain Data For All Sprockets				Double and Triple Strand			For 4 or more Strands								Minus Tolerance on "H" and "M" Machined		Minus Tolerance on T _{HR}		
A.S.A. Chain No.	Pitch P	Roller Width W	Roller Diameter	Single Strand t ₁ and t _{HR}	t ₂	M ₂	M ₃	t ₄	(D) M ₂	(E) M ₃	(F) M ₄	(G) M ₅	(H) M ₆	(J) M ₈	(L) M ₁₀	(N) M ₁₂	(R) M ₁₆	K	
STANDARD SERIES ROLLER CHAIN SPROCKETS																			
25	1/4	1/8	.130	.110	.107	.359	.611	.096	.348	.600	.852	1.104	1.356	1.860	2.364	2.868	3.876	.252	.021
35	3/8	3/16	.200	.168	.162	.561	.960	.149	.548	.947	1.346	1.745	2.144	2.942	3.740	4.538	6.134	.399	.027
41	1/2	1/4	.306	.227	†	†	†	†	†	†	†	†	†	†	†	†	†	†	.032
40	1/2	9/16	.312	.284	.275	.841	1.407	.256	.822	1.388	1.954	2.520	3.086	4.218	5.250	6.482	8.746	.566	.035
50	5/8	3/8	.400	.343	.332	1.045	1.758	.311	1.024	1.737	2.450	3.163	3.876	5.302	6.728	8.154	11.008	.713	.036
60	3/4	1/2	.469	.459	.444	1.341	2.238	.418	1.315	2.212	3.108	4.006	4.903	6.697	8.491	10.258	13.873	.897	.036
80	1	5/8	.625	.575	.557	1.700	2.863	.526	1.679	2.832	3.985	5.138	6.291	8.597	10.903	13.209	17.821	1.153	.04
100	1 1/4	3/4	.750	.692	.669	2.077	3.484	.633	2.041	3.449	4.857	6.265	7.673	10.489	13.305	16.121	21.753	1.408	.046
120	1 1/2	1	.875	.824	.894	2.683	4.472	.848	2.637	4.426	6.215	8.004	9.793	13.371	16.949	20.527	27.189	1.789	.057
140	1 3/4	1	1.000	.924	.894	2.818	4.742	.848	2.772	4.696	6.620	8.544	10.468	14.316	18.164	22.012	29.924	1.924	.057
160	2	1 1/4	1.125	1.156	1.119	3.424	5.729	1.063	3.368	5.673	7.978	10.283	12.588	17.198	21.808		2.305	.019	.062
180	2 1/4	1 13/32	1.406	1.301	1.259	3.851	6.443	1.197	3.789	6.381	8.973	11.565	14.157	19.341			2.592	.020	.068
200	2 1/2	1 1/2	1.562	1.389	1.344	4.161	6.978	1.278	4.095	6.912	9.729	12.546	15.363	20.997			2.817	.021	.072
240	3	1 7/8	1.875	1.738	1.682	5.140	8.598	1.601	5.059	8.517	11.975	15.433	18.891				3.458	.025	.087
HEAVY SERIES CHAIN SPROCKETS																			
60H	.750	.500	.469	.459	.444	1.472	2.500	.418	1.446	2.474	3.502	4.530	5.558	7.614				1.028	.036
80H	1.000	.625	.625	.575	.557	1.840	3.123	.526	1.809	3.092	4.375	5.568	6.941	9.507				1.283	.040
100H	1.250	.750	.750	.692	.669	2.208	3.747	.633	2.172	3.711	5.250	6.789	8.328	11.406				1.539	.046
120H	1.500	1.000	.875	.824	.894	2.818	4.742	.848	2.772	4.696	6.620	8.544	10.468	14.316				1.924	.057
140H	1.750	1.000	.924	.894	.894	2.949	5.004	.848	2.903	4.958	7.013	9.068	11.123	15.233				2.055	.057
160H	2.000	1.250	1.125	1.156	1.119	3.555	5.991	1.063	3.499	5.935	8.371	10.807	13.243	18.115				2.436	.062
180H	2.250	1.406	1.406	1.301	1.259	3.982	6.705	1.197	3.920	6.643	9.366	12.089	14.812	20.258				2.723	.068
200H	2.500	1.500	1.562	1.389	1.344	4.427	7.510	1.278	4.361	7.444	10.527	13.610	16.693	22.859				3.083	.072

† = Not made in multiple strands.

Application Data and Selection Procedure

Center Distance

The following general principals should be applied in determining shaft center distances. The center distance must always be greater than one-half the sum of the sprocket outside diameters to avoid interference of teeth. When the speed ratio is greater than 3 to 1, the center distance should be not less than the sum of the sprocket diameters. Chain wrap should be at least 120° of the small sprocket — one-third of the teeth meshing. Longer center distances give greater chain wrap. For average applications a center distance of 30 to 50 pitches of chain is recommended for best results. For pulsating loads, a center distance of 20 to 30 pitches may be desirable. For center distances of 80 pitches or greater, idlers or chain guides should be used to support the chain. Slightly adjustable center distances will provide chain tension as the chain elongates with wear.

Alignment

Accurate alignment of shafts and sprocket tooth faces provide uniform distribution of the load across the entire chain width and contributes substantially to optimum drive life. Shafting, bearings, and foundations should be suitable to maintain the initial alignment. Periodic maintenance should include an inspection of alignment to insure optimum chain life.

Design kW

When making drive selections consideration is given to the loads imposed on the chain. Service factors based on the type of equipment to be driven (Table I, Page E-67) and the type of input power (Table II, Page E-67) are used to compensate for these loads.

kW Rating Tables

The kW ratings in this catalog apply to lubricated single pitch, single strand precision roller chains, both standard and double pitch roller chain.

The ratings reflect a service factor of 1, a chain length of approximately 100 pitches, use of recommended lubrication methods, and a drive arrangement where two aligned sprockets are mounted on parallel horizontal shafts.

The kW ratings relate to the speed of the smaller sprocket and drive selections are made on this basis, whether the drive is speed reducing or speed increasing.

Lubrication

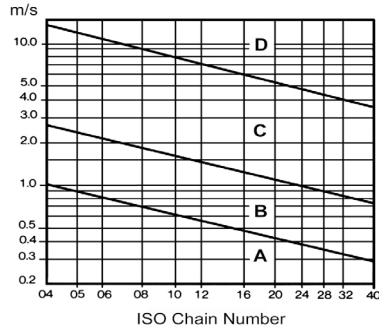
It has been shown that a separate wedge of fluid lubricant is formed in operating chain joints much like that formed in journal bearings. Therefore, fluid lubricant must be applied to assure an oil supply to the joints and minimize metal to metal contact. Lubrication, if supplied in sufficient volume, also provides effective cooling and impact damping at the higher speeds. For this reason, it is important that the lubrication recommendations be followed.

Chain drives should be protected against dirt and moisture and the oil supply kept free of contamination. Periodic oil change is desirable. A good grade of non-detergent petroleum base oil is recommended. Heavy oils and grease are generally too stiff to enter and fill the chain joints.

Types of Lubrication

There are four basic types of lubrication for chain drives. The recommended type shown in the kW rating tables is influenced by chain speed and the amount of power transmitted. These are minimum lubrication requirements and the use of a better type (for example, Type C instead of Type B) is acceptable and may be beneficial. Chain life can vary appreciably depending upon the way the drive is lubricated. The better the lubrication, the longer the chain and sprocket life. For this reason, it is important that the lubrication recommendations be followed when using the rating tables given in this catalog. The correct type can be selected from the graph below using chain size against chain speed.

Application Data and Selection Procedure



Lubrication

TYPE A — Manual Lubrication. Oil applied periodically with brush or spout can.

TYPE B — Drip lubrication. Oil applied between edges from a drip lubricator.

TYPE C — Oil Bath or Oil Slinger. Oil level maintained in casing at predetermined height.

TYPE D — Oil Stream. Oil supplied by circulating pump inside chain loop on lower span.

NOTE: Drip Lubrication should be used in clean environments only.

SAMPLE A:

The following table indicates correct lubricant viscosity for various ambient temperatures.

Temperature °C	Oil Viscosity	Commercial grade
-5 to +5	VG 68	SAE20
5 to 25	VG100	SAE30
25 to 45	VG 150	SAE40
45 to 70	VG 220	SAE50

Selection of Roller Chain Drives

The following information is necessary for the proper selection and design of Roller Chain Drives:

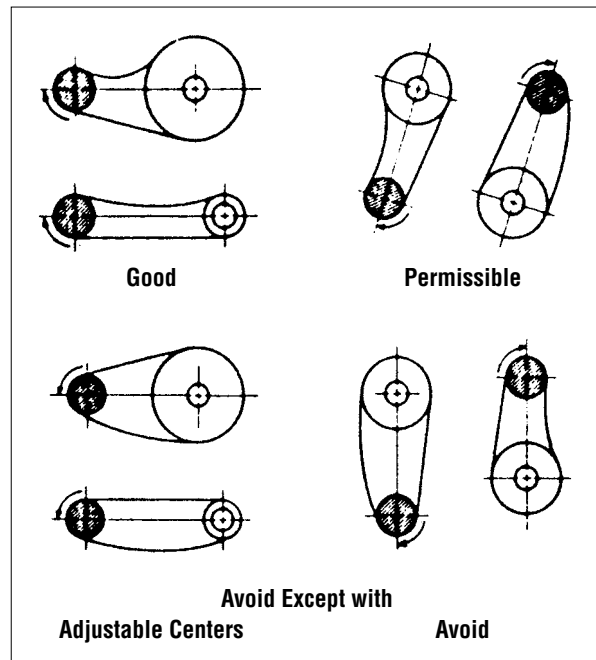
1. Type of input kW (electrical motor, internal combustion engine.)
2. Type of equipment to be driven.
3. Kilowatt to be transmitted.
4. Full load speed of the fastest running shaft. (R.P.M.)
5. Desired speed of the slow speed shaft. (R.P.M.)
6. Diameters of the driving and driven shafts.
7. Center to center distance of shafts.
8. Position of drive and space limitations.
9. Method of lubrication.
10. Conditions of drive, steady or fluctuating load, hours of operation, lubrication.

Most roller chain drive applications allow considerable latitude in the selection of sprocket sizes and chain pitch, although usually one combination will best fulfill the requirements of power, speed, space limitations and economy.

Chain and Sprocket Selection Procedure Steps:

1. Determine class of driven load.
2. Select service factor.
3. Calculate design kW.
4. Select chain pitch.
5. Select number of teeth in small sprocket.
6. Determine number of teeth in larger sprocket.
7. Determine center distance.
8. Calculate chain length.

Drive Positions



CAUTION: MANUAL TYPES OF LUBRICATION MUST NEVER BE APPLIED WHILE DRIVE IS IN OPERATION.

Application Data and Selection Procedure

Step I

Service Classification — Table I

Uniform Load

Agitators, Liquid	Generators
Blowers, Centrifugal	Line Shafts, Even Load
Conveyors, Even Load	Machines, Even Load,
Elevators, Even Load	Non-reversing
Fans, Centrifugal	Pumps, Centrifugal

Moderate Shock Load

Beaters	Laundry - Washers
Compressors,	and Tumblers
Centrifugal	Line Shafts, Uneven Load
Conveyors, Uneven	Machines, Pulsating
Load	Load, Non-reversing
Elevators, Uneven Load	Pumps, Reciprocating, Triplex
Grinders, Pulp	Screens, Rotary, Even Load
Kilns and Dryers	Woodworking Machinery

Heavy Shock Load

Brick Machines	Mills, Hammer, Rolling
Compressors	or Drawing
Reciprocating	Presses
Crushers	Pumps, Reciprocating,
Machines, Reversing	Simplex or Duplex
or Impact Loads	

Step II

Service Factor — Table II

SERVICE CLASSIFICATION	TYPE OF INPUT POWER		
	Internal Combustion Engine with Hydraulic Drive	Electric Motor or Turbine	Internal Combustion Engine with Mechanical Drive
Uniform Load	1.0	1.0	1.2
Moderate Shock Load	1.2	1.3	1.4
Heavy Shock Load	1.4	1.5	1.7

Unfavorable Operating Conditions which may be present should be compensated for by adding .2 to the Service Factor for each unfavorable condition. Some of these conditions are listed below:

1. Multiple Shafts-add .2 for each additional shaft.
2. Excessive speed ratios-exceeding 7 to 1.
3. Heavy starting loads with frequent starts and stops.
4. Conditions of high temperatures, unusually abrasive conditions, or circumstances decreasing lubrication effectiveness or not allowing the use of recommended lubrication procedures.

Step III

Determination of Design Kilowatt power

Determine the design kilowatt power of the required drive using the following procedure.

1. Determine Service Classification — Table I. Unlisted equipment may be classified by its similarity to a listed type.
2. Using Service Classification and Frequency of Service, select the Service Factor — Table II. Increase the Service Factor by adding compensation for unfavorable operating conditions.
3. Multiply the normal operating kilowatt power of the W drive by the Compensated Service Factor to obtain Service Kilowatt power.

Step IV

Drive Selection

Using Design kilowatt power computed above, use Trial Selection Chart on page E-69. Select the smallest pitch chain which has the required kilowatt power rating for a pinion sprocket turning at the specified RPM. Check to be certain the selected sprocket has a listed maximum bore large enough to accommodate the specified shaft. The tables on pages E-62 thru E-63 gives maximum bores for the usual range of driving sprockets.

If the Design kilowatt power at the required RPM is greater than the kilowatt power rating of the largest pitch chain which can operate at that speed, a multiple chain drive should be considered for the application.

Selection of drives to operate at speeds somewhat below the maximum rating will increase the life of the drive and quietness of operation.

Step V

Driving Sprocket

In selecting the driving sprocket **17 teeth are recommended as a minimum** although 15 teeth are quite often used, and as low as 7 teeth can be cut. When the maximum bore of the 17 tooth sprocket will not accommodate the driving shaft, it is necessary to go to a sprocket with a greater number of teeth. Hardened teeth are recommended for sprockets with 25 teeth or less.

Application Data and Selection Procedure

Step VI

Driven Sprocket (Ratio)

The number of teeth selected for the driven sprocket depends upon the driving sprocket chosen and the desired speed of the driven shaft. When space limitations are a factor, the diameter of the driven sprocket sometimes determines the final selection of drive.

The recommended maximum speed ratio is 7 to 1, although higher ratios are occasionally used. It is usually better design, however, for large reductions to use a double reduction drive.

Select the driven sprocket size from the Speed Ratio Table on page E-75 using the required speed ratio and size of driver sprocket.

Step VII

Shaft Centers

May be calculated from the formula on page E-73 where the sprocket diameters and chain length are known.

On many applications the motor base is adjustable, allowing for slight changes in shaft centers. On long centers some form of chain adjuster or take-up is recommended.

Step VIII

Chain Length

On page E-73 is shown a simple method of computing the length of chain necessary for a drive with given sprocket dimensions and center to center distance of shafts (See chart on page E-74 for length in meters.)

Chain Drive Design Example

To select a roller chain drive from a 7.5 kW electric motor (42mm shaft) 1200 RPM (1150 under load) to a wood working machine shaft at 300 RPM on 762.0mm centers. Drive conditions — moderate pulsating load, good lubrication, 10 hour day operation.

1. Service class — moderate shock load (Table I).
2. Service factor — 1.3 (Table I).
3. Design KW — $1.3 \times 7.5 = 9.75$.
4. Selection — The kW power Ratings on page E-67 show that either of the following combinations may be used.

No. D08-19 Tooth — Smoothest in operation

No. 10B-17 Tooth — Lower drive cost

For our purpose we select No. 10B chain and checking the bore find that the 42mm shaft can be accommodated with a stock bored to size sprocket. (Page E-21)

The driven sprocket is found as follows:

No. Teeth

Driven

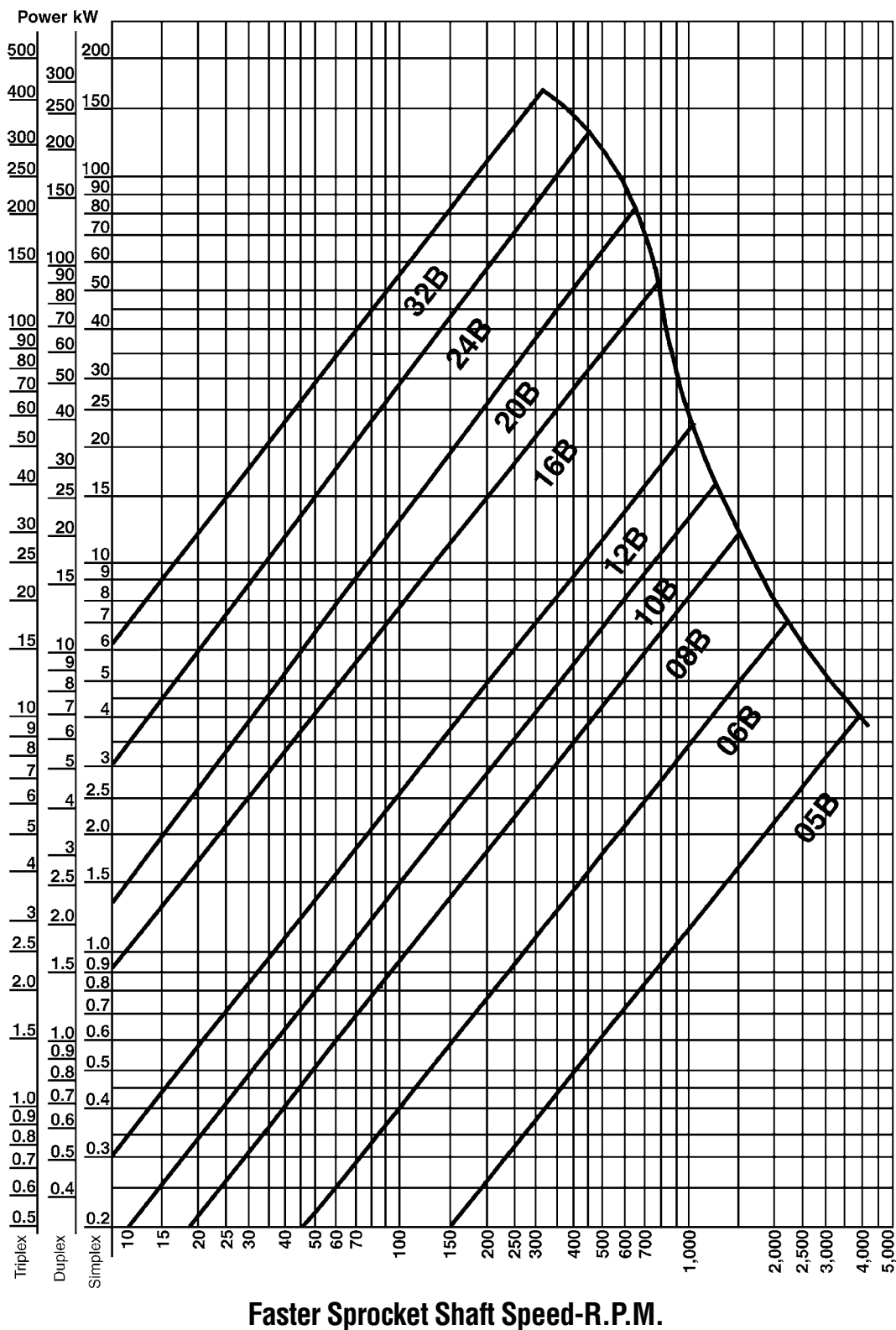
$$\text{Sprocket} = 19 \times \frac{1150}{300} (\text{Ratio}) = 72.83 \text{ or } 73 \text{ Teeth}$$

Since 73 teeth is not a stock size we select 72 teeth. The chain length is calculated as shown on page E-73 and is 142 pitches.

Overhung Load

When a Sprocket is mounted on a reducer shaft, a calculation should be made to determine the overhung load in pounds using formula on page G-12 in general engineering section.

Chain Drive Selection Power Rating Graph British Standard Chains



Sprocket Hardening

Martin

Brinell, Rockwell and Scleroscope Hardness Numbers with Corresponding Tensile Strength

Brinell 10 MM Ball 3,000 Kg.	Rockwell "C" 120 Cone 150 Kg.	Scleroscope Shore Model C	Tensile Strength 1000 Lb Per Sq. In.
745	68	100	368
712	66	95	352
682	64	91	337
653	62	87	324
627	60	84	311
601	58	81	298
578	57	78	287
555	55	75	276
534	53	72	266
514	52	70	256
495	50	67	247
477	49	65	238
461	47	63	229
444	46	61	220
429	45	59	212
415	44	57	204
401	42	55	196
388	41	54	189
375	40	52	182
362	38	51	172
351	37	49	170
341	36	48	165
331	35	46	160
321	34	45	155
311	33	44	150
302	32	43	146
293	31	42	142
285	30	40	138
277	29	39	134
269	28	38	131
262	26	37	128
255	25	37	125
248	24	36	122
241	23	35	119
235	22	34	116
229	21	33	113
223	20	32	110
	Rockwell "B" 1.6 MM Ball 100Kg		
217	97	31	107
212	96	31	104
207	95	30	101
202	94	30	99
197	93	29	97
192	92	28	95
187	91	28	93
183	90	27	91
179	89	27	89
174	88	26	87

Note: Hardening cannot be accurately checked with a file — stationary or portable hardness testers should be used for conclusive results.

Material

All *Martin* stock sprockets are made of quality steel poured to our specifications of C45.

Sprocket sizes up to 350mm. diameter type "B", "BS", "TB" single, double & triple width can easily be electrical induction or flame hardened — to Rockwell "C" 40 to 50.

Plate sprockets normally include sizes 350mm diameter and larger type "B", "BS", "C", "TB" single, double, & triple width fabricated and type "A" all diameters. This material is also C45 and can be induction or flame hardened to Rockwell "C" 40 to 50. Degree of hardness obtainable and method depends on size of sprocket.

Special quality steel can be used for large quantities or made-to-order sprockets if specified.

Hardening Recommendations

Hardened teeth substantially increases sprocket life and is recommended under conditions listed below:

1. Pinion or driver where the reduction is 4:1 or greater.
2. Slow speed drives (100 FPM or less).
3. Where safety factor is less than standard.
4. Unusual abrasive conditions.

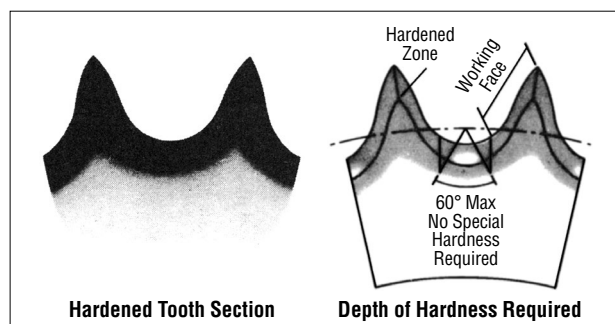
Degree of hardness — this is governed by conditions prevailing each application — for stock sprockets these general suggestions may be used as guide lines:

1. Rockwell "C" 35 to 50 pinion or driver.
2. Rockwell "C" 25 to 40 larger diameter or driver sprockets.

Induction or flame hardening will be used as best suited to the individual application. The diameter and pitch of the sprocket govern the method used.

Caution should be used to avoid "file hardness" (Rockwell C 62 and above) as it is not recommended for sprockets due to brittleness.

Depth of hardening should be limited so as to provide case only on the wear surfaces with a tough resilient core to absorb shock — (see illustration tooth section).



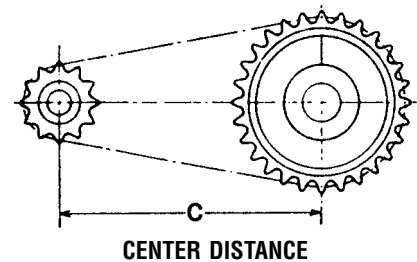
Chain Length Calculation

The following equation may be used to determine the chain length required for any two-sprocket drive.

$$L = 2C + \frac{N + n}{2} + \frac{1.013 (N - n)^2}{4C} \text{ or substituting A for } \frac{1.013 (N - n)^2}{4} \quad L = 2C + \frac{N + n}{2} + \frac{A}{C}$$

where:

- C** = Shaft Center Distance in pitches
- L** = Length of chain in pitches
- N** = Number of teeth in larger sprocket
- n** = Number of teeth in smaller sprocket
- π** = 3.1416
- A** = Value from table below tabulated for values of N-n
- P** = Pitch of chain



NOTE: The method described with above table of constants is sufficiently accurate for practically all commercial chain drives. When, however, a high degree of precision is necessary, especially if the drive is vertical, the following formula is useful in determining the exact centers for chain length already determined.

Calculation of shaft centers

The following formula is useful in determining the approximate centers in pitches for chain lengths in pitches already determined.

$$C = \frac{P}{8} \left\{ 2L - N - n + \sqrt{(2L - N - n)^2 - 0.810 (N - n)^2} \right\}$$

Value of A For Chain Length Calculation

N-n	A	N-n	A	N-n	A	N-n	A	N-n	A	N-n	A
1	.03	32	25.94	63	100.54	94	223.82	125	395.79	156	616.44
2	.10	33	27.58	64	103.75	95	228.61	126	402.14	157	624.37
3	.23	34	29.28	65	107.02	96	233.44	127	408.55	158	632.35
4	.41	35	31.03	66	110.34	97	238.33	128	415.01	159	640.38
5	.63	36	32.83	67	113.71	98	243.27	129	421.52	160	648.46
6	.91	37	34.68	68	117.13	99	248.26	130	428.08	161	656.59
7	1.24	38	36.58	69	120.60	100	253.30	131	434.69	162	664.77
8	1.62	39	38.53	70	124.12	101	258.39	132	441.36	163	673.00
9	2.05	40	40.53	71	127.69	102	263.54	133	448.07	164	681.28
10	2.53	41	42.58	72	131.31	103	268.73	134	454.83	165	689.62
11	3.06	42	44.68	73	134.99	104	273.97	135	461.64	166	698.00
12	3.65	43	46.84	74	138.71	105	279.27	136	468.51	167	706.44
13	4.28	44	49.04	75	142.48	106	284.67	137	475.42	168	714.92
14	4.96	45	51.29	76	146.31	107	290.01	138	482.39	169	723.46
15	5.70	46	53.60	77	150.18	108	295.45	139	489.41	170	732.05
16	6.48	47	55.95	78	154.11	109	300.95	140	496.47	171	740.68
17	7.32	48	58.36	79	158.09	110	306.50	141	503.59	172	749.37
18	8.21	49	60.82	80	162.11	111	312.09	142	510.76	173	758.11
19	9.14	50	63.33	81	166.19	112	317.74	143	517.98	174	766.90
20	10.13	51	65.88	82	170.32	113	323.44	144	525.25	175	775.74
21	11.17	52	68.49	83	174.50	114	329.19	145	532.57	176	784.63
22	12.26	53	71.15	84	178.73	115	334.99	146	539.94	177	793.57
23	13.40	54	73.86	85	183.01	116	340.84	147	547.36	178	802.57
24	14.59	55	76.62	86	187.34	117	346.75	148	554.83	179	811.61
25	15.83	56	79.44	87	191.73	118	352.70	149	562.36	180	820.70
26	17.12	57	82.30	88	196.16	119	358.70	150	569.93	181	829.85
27	18.47	58	85.21	89	200.64	120	364.76	151	577.56	182	839.04
28	19.86	59	88.17	90	205.18	121	370.86	152	585.23	183	848.29
29	21.30	60	91.19	91	209.76	122	377.02	153	592.96	184	857.58
30	22.80	61	94.25	92	214.40	123	383.22	154	600.73	185	866.93
31	24.34	62	97.37	93	219.08	124	389.48	155	608.56		

Roller Chain Lengths

No. Of Pitches	CHAIN PITCH - MM										
	9.5	12.7	15.9	19.1	25.4	31.8	38.1	44.5	50.8	63.5	76.2
CHAIN LENGTHS - METERS											
1	0.0095	0.0127	0.0159	0.0191	0.0254	0.0318	0.0381	0.0445	0.0508	0.0635	0.0762
2	0.0191	0.0254	0.0318	0.0381	0.0508	0.0635	0.0762	0.0889	0.1016	0.1270	0.1524
3	0.0286	0.0381	0.0477	0.0572	0.0762	0.0953	0.1143	0.1334	0.1524	0.1905	0.2287
4	0.0381	0.0508	0.0635	0.0762	0.1016	0.1270	0.1524	0.1778	0.2033	0.2541	0.3049
5	0.0477	0.0635	0.0794	0.0953	0.1270	0.1588	0.1905	0.2223	0.2541	0.3176	0.3811
6	0.0572	0.0762	0.0953	0.1143	0.1524	0.1905	0.2287	0.2668	0.3049	0.3811	0.4573
7	0.0667	0.0889	0.1112	0.1334	0.1778	0.2223	0.2668	0.3112	0.3557	0.4446	0.5335
8	0.0762	0.1016	0.1270	0.1524	0.2033	0.2541	0.3049	0.3557	0.4065	0.5081	0.6098
9	0.0858	0.1143	0.1429	0.1715	0.2287	0.2858	0.3430	0.4002	0.4573	0.5716	0.6860
10	0.0953	0.1270	0.1588	0.1905	0.2541	0.3176	0.3811	0.4446	0.5081	0.6352	0.7622
11	0.1048	0.1398	0.1747	0.2096	0.2795	0.3494	0.4192	0.4891	0.5589	0.8908	0.8384
12	0.1143	0.1524	0.1905	0.2287	0.3049	0.3811	0.4573	0.5335	0.6098	0.7622	0.9146
13	0.1239	0.1652	0.2064	0.2477	0.3303	0.4129	0.4954	0.5780	0.6606	0.8257	0.9909
14	0.1334	0.1778	0.2223	0.2668	0.3557	0.4446	0.5335	0.6225	0.7114	0.8892	1.0671
15	0.1429	0.1905	0.2382	0.2858	0.3811	0.4764	0.5716	0.6669	0.7622	0.9527	1.1433
16	0.1524	0.2033	0.2541	0.3049	0.4065	0.5081	0.6098	0.7114	0.8130	1.0163	1.2195
17	0.1620	0.2160	0.2699	0.3239	0.4319	0.5399	0.6479	0.7558	0.8638	1.0798	1.2957
18	0.1715	0.2287	0.2858	0.3430	0.4573	0.5716	0.6860	0.8003	0.9146	1.1433	1.3720
19	0.1810	0.2414	0.3017	0.3620	0.4827	0.6034	0.7241	0.8448	0.9655	1.2068	1.4482
20	0.1905	0.2541	0.3176	0.3811	0.5081	0.6352	0.7622	0.8892	1.0163	1.2703	1.5244
21	0.2001	0.2668	0.3335	0.4002	0.5335	0.6669	0.8003	0.9337	1.0671	1.3338	1.6006
22	0.2096	0.2795	0.3493	0.4192	0.5589	0.6987	0.8384	0.9781	1.1179	1.3973	1.6768
23	0.2191	0.2922	0.3652	0.4383	0.5843	0.7305	0.8765	1.0226	1.1687	1.4609	1.7530
24	0.2287	0.3049	0.3811	0.4573	0.6098	0.7622	0.9146	1.0671	1.2195	1.5244	1.8293
25	0.2382	0.3176	0.3970	0.4764	0.6352	0.7940	0.9527	1.1115	1.2703	1.5879	1.9055
26	0.2477	0.3303	0.4128	0.4954	0.6606	0.8257	0.9909	1.1560	1.3211	1.6209	1.9817
27	0.2573	0.3430	0.4287	0.5145	0.6860	0.8575	1.0290	1.2005	1.3720	1.7149	2.0579
28	0.2668	0.3557	0.4446	0.5335	0.7114	0.8892	1.0671	1.2449	1.4228	1.7784	2.1341
29	0.2763	0.3684	0.4605	0.5526	0.7368	0.9210	1.1052	1.2894	1.4736	1.8420	2.2104
30	0.2858	0.3811	0.4764	0.5716	0.7622	0.9527	1.1433	1.3338	1.5244	1.9055	2.2866
31	0.2954	0.3938	0.4923	0.5907	0.7876	0.9845	1.1814	1.3783	1.5752	1.9690	2.3628
32	0.3049	0.4065	0.5081	0.6098	0.8130	1.0163	1.2195	1.4228	1.6260	2.0325	2.4390
33	0.3144	0.4192	0.5240	0.6288	0.8384	1.0480	1.2576	1.4672	1.6768	2.0960	2.5152
34	0.3239	0.4319	0.5399	0.6479	0.8638	1.0798	1.2957	1.5117	1.7277	2.1595	2.5915
35	0.3335	0.4446	0.5558	0.6669	0.8892	1.1116	1.3338	1.5561	1.7784	2.2231	2.6677
36	0.3430	0.4573	0.5716	0.6860	0.9146	1.1433	1.3720	1.6006	1.8293	2.2866	2.7439
37	0.3525	0.4700	0.5875	0.7050	0.9400	1.1751	1.4101	1.6451	1.8801	2.3501	2.8201
38	0.3620	0.4827	0.6034	0.7241	0.9655	1.2068	1.4482	1.6895	1.9309	2.4136	2.8963
39	0.3716	0.4954	0.6173	0.7431	0.9909	1.2386	1.4862	1.5511	1.9817	2.4771	2.9726
40	0.3811	0.5081	0.6352	0.7622	1.0163	1.2703	1.5244	1.7784	2.0325	2.5406	3.0488
41	0.3906	0.5209	0.6510	0.7813	1.0417	1.3021	1.5625	1.8229	2.0833	2.6042	3.1250
42	0.4002	0.5335	0.6669	0.8003	1.0671	1.3338	1.6006	1.8674	2.1341	2.6677	3.2012
43	0.4097	0.5463	0.6828	0.8194	1.0925	1.3656	1.6387	1.9118	2.1850	2.7312	3.2774
44	0.4192	0.5589	0.6987	0.8384	1.1179	1.3973	1.6768	1.9563	2.2358	2.7947	3.3537
45	0.4288	0.5716	0.7145	0.8575	1.1433	1.4291	1.7149	2.0008	2.2866	2.8582	3.4299
46	0.4383	0.5844	0.7304	0.8765	1.1687	1.4609	1.7530	2.0452	2.3374	2.9217	3.5061
47	0.4478	0.5971	0.7463	0.8956	1.1941	1.4927	1.7912	2.0897	2.3882	2.9853	3.5823
48	0.4573	0.6098	0.7622	0.9146	1.2195	1.5244	1.8293	2.1341	2.4390	3.0488	3.6585
49	0.4669	0.6225	0.7781	0.9337	1.2449	1.5562	1.8674	2.1786	2.4898	3.0574	3.7348
50	0.4764	0.6352	0.7940	0.9527	1.2703	1.5879	1.9055	2.2231	2.5406	3.1758	3.8110
51	0.4859	0.6479	0.8098	0.9718	1.2957	1.6197	1.9436	2.2675	2.5915	3.2393	3.8872
52	0.4954	0.6606	0.8257	0.9909	1.3211	1.6514	1.9817	2.3120	2.6423	3.3028	3.9634
53	0.5050	0.6733	0.8416	1.0099	1.3466	1.6832	2.0198	2.3564	2.6931	3.3664	4.0396
54	0.5145	0.6860	0.8575	1.0290	1.3720	1.7149	2.0579	2.4009	2.7439	3.4299	4.1159
55	0.5240	0.6987	0.8734	1.0480	1.3973	1.7467	2.0960	2.4454	2.7947	3.4934	4.1921
56	0.5335	0.7114	0.8892	1.0671	1.4228	1.7784	2.1341	2.4898	2.8455	3.5569	4.2683
57	0.5431	0.7241	0.9051	1.0861	1.4482	1.8102	2.1723	2.5343	2.8963	3.6204	4.3445
58	0.5526	0.7368	0.9210	1.1052	1.4736	1.8420	2.2104	2.5788	2.9472	3.6839	4.4207
59	0.5621	0.7495	0.9369	1.1242	1.4995	1.8738	2.2485	2.6232	2.9980	3.7475	4.4970
60	0.5716	0.7622	0.9527	1.1433	1.5244	1.9055	2.2866	2.6677	3.0488	3.8110	4.5732
61	0.5812	0.7749	0.9686	1.1623	1.5498	1.9373	2.3247	2.7121	3.0996	3.8745	4.6494
62	0.5907	0.7876	0.9845	1.1814	1.5752	1.9690	2.3628	2.7566	3.1504	3.9380	4.7256
63	0.6002	0.8003	1.0004	1.2005	1.6006	2.0008	2.4009	2.8011	3.2012	4.0015	4.8018
64	0.6098	0.8130	1.0163	1.2195	1.6260	2.0325	2.4390	2.8455	3.2520	4.0650	4.8780
65	0.6193	0.8257	1.0321	1.2386	1.6514	2.0643	2.4771	2.8900	3.3028	4.1286	4.9543
66	0.6288	0.8384	1.0480	1.2576	1.6768	2.0960	2.5152	2.9345	3.3537	4.1921	5.0305
67	0.6384	0.8511	1.0639	1.2767	1.7022	2.1278	2.5534	2.9789	3.4045	4.2556	5.1067
68	0.6479	0.8638	1.0798	1.2957	1.7277	2.1611	2.5915	3.0234	3.4553	4.3191	5.1829
69	0.6574	0.8765	1.0957	1.3148	1.7530	2.1913	2.6296	3.0678	3.5061	4.3826	5.2591
70	0.6669	0.8892	1.1115	1.3338	1.7784	2.2231	2.6677	3.1123	3.5569	4.4461	5.3354
71	0.6765	0.9020	1.1274	1.3529	1.8039	2.2548	2.7058	3.1567	3.6077	4.5097	5.4116
72	0.6860	0.9146	1.1433	1.3720	1.8293	2.2866	2.7439	3.2012	3.6585	4.5732	5.4878
73	0.6955	0.9273	1.1592	1.3910	1.8547	2.3184	2.7820	3.2457	3.7094	4.6367	5.5640
74	0.7050	0.9400	1.1750	1.4101	1.8801	2.3501	2.8201	3.2902	3.7602	4.7002	5.6402
75	0.7146	0.9527	1.1909	1.4291	1.9055	2.3819	2.8582	3.3346	3.8110	4.7637	5.7165
80	0.7622	1.0163	1.2703	1.5244	2.0325	2.5406	3.0488	3.5569	4.0650	5.0813	6.0976
85	0.8098	1.0798	1.3497	1.6197	2.1595	2.6995	3.2393	3.7792	4.3191	5.3989	6.4787
90	0.8575	1.1433	1.4291	1.7149	2.2866	2.8582	3.4299	4.0015	4.5732	5.7165	6.8598
95	0.9051	1.2068	1.5085	1.8102	2.4136	3.0170	3.6204	4.2238	4.8272	6.0341	7.2409
100	0.9527	1.2703	1.5879	1.9055	2.5406	3.1758	3.8110	4.4461	5.0813	6.3516	7.6220

Speed Ratios For Sprocket Combinations Driver Sprocket Teeth

DRIVEN SPROCKET TEETH		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
		1.00																	
9		1.00																	
10		1.11	1.00																
11		1.22	1.10	1.00															
12		1.33	1.20	1.09	1.00														
13		1.44	1.30	1.18	1.08	1.00													
14		1.56	1.40	1.27	1.17	1.08	1.00												
15		1.67	1.50	1.36	1.25	1.15	1.07	1.00											
16		1.78	1.60	1.45	1.33	1.23	1.14	1.07	1.00										
17		1.89	1.70	1.55	1.42	1.31	1.21	1.13	1.06	1.00									
18		2.00	1.80	1.64	1.50	1.38	1.29	1.20	1.13	1.06	1.00								
19		2.11	1.90	1.73	1.58	1.46	1.36	1.27	1.19	1.12	1.06	1.00							
20		2.22	2.00	1.82	1.67	1.54	1.43	1.33	1.25	1.18	1.11	1.05	1.00						
21		2.33	2.10	1.91	1.75	1.61	1.50	1.40	1.31	1.23	1.17	1.10	1.05	1.00					
22		2.44	2.20	2.00	1.83	1.69	1.57	1.47	1.38	1.29	1.22	1.16	1.10	1.05	1.00				
23		2.56	2.30	2.09	1.92	1.77	1.64	1.53	1.44	1.35	1.28	1.21	1.15	1.09	1.04	1.00			
24		2.67	2.40	2.18	2.00	1.85	1.71	1.60	1.50	1.41	1.33	1.26	1.20	1.14	1.09	1.04	1.00		
25		2.78	2.50	2.27	2.08	1.92	1.79	1.67	1.56	1.47	1.39	1.32	1.25	1.19	1.14	1.09	1.04	1.00	
26		2.89	2.60	2.36	2.17	2.00	1.86	1.73	1.63	1.53	1.45	1.37	1.30	1.24	1.18	1.13	1.08	1.04	1.00
27		3.00	2.70	2.45	2.25	2.08	1.93	1.80	1.69	1.59	1.50	1.42	1.35	1.29	1.23	1.17	1.12	1.08	1.04
28		3.11	2.80	2.54	2.33	2.15	2.00	1.87	1.75	1.65	1.56	1.47	1.40	1.33	1.27	1.22	1.17	1.12	1.08
29		3.22	2.90	2.64	2.42	2.23	2.07	1.93	1.81	1.71	1.61	1.53	1.45	1.38	1.32	1.26	1.21	1.16	1.12
30		3.33	3.00	2.73	2.50	2.31	2.14	2.00	1.88	1.76	1.67	1.58	1.50	1.43	1.36	1.31	1.25	1.20	1.15
31		3.44	3.10	2.82	2.58	2.38	2.21	2.07	1.94	1.82	1.72	1.63	1.55	1.48	1.41	1.35	1.29	1.24	1.19
32		3.56	3.20	2.91	2.67	2.46	2.28	2.13	2.00	1.88	1.78	1.68	1.60	1.52	1.45	1.39	1.33	1.28	1.23
33		3.67	3.30	3.00	2.75	2.54	2.36	2.20	2.06	1.94	1.83	1.74	1.65	1.57	1.50	1.43	1.38	1.32	1.27
34		3.78	3.40	3.09	2.83	2.62	2.43	2.27	2.13	2.00	1.89	1.79	1.70	1.62	1.55	1.48	1.42	1.36	1.31
35		3.89	3.50	3.18	2.92	2.69	2.50	2.33	2.19	2.06	1.95	1.84	1.75	1.67	1.59	1.52	1.46	1.40	1.34
36		4.00	3.60	3.27	3.00	2.77	2.57	2.40	2.25	2.12	2.00	1.89	1.80	1.71	1.63	1.57	1.50	1.44	1.38
37		4.11	3.70	3.36	3.08	2.85	2.64	2.47	2.31	2.18	2.06	1.95	1.85	1.76	1.68	1.61	1.54	1.48	1.42
38		4.22	3.80	3.45	3.17	2.92	2.71	2.53	2.38	2.24	2.11	2.00	1.90	1.81	1.73	1.65	1.58	1.52	1.46
39		4.33	3.90	3.55	3.25	3.00	2.79	2.60	2.44	2.29	2.17	2.05	1.95	1.86	1.77	1.70	1.63	1.56	1.50
40		4.44	4.00	3.64	3.33	3.08	2.86	2.67	2.50	2.35	2.22	2.10	2.00	1.90	1.82	1.74	1.67	1.60	1.54
41		4.56	4.10	3.73	3.42	3.15	2.93	2.73	2.56	2.41	2.28	2.16	2.05	1.95	1.86	1.78	1.71	1.64	1.58
42		4.67	4.20	3.82	3.50	3.12	3.00	2.80	2.63	2.47	2.34	2.21	2.10	2.00	1.91	1.83	1.75	1.68	1.61
43		4.78	4.30	3.91	3.58	3.31	3.07	2.87	2.69	2.53	2.39	2.26	2.15	2.05	1.95	1.87	1.79	1.72	1.65
44		4.89	4.40	4.00	3.67	3.39	3.14	2.93	2.75	2.59	2.44	2.32	2.20	2.10	2.00	1.91	1.83	1.76	1.69
45		5.00	4.50	4.09	3.75	3.46	3.21	3.00	2.81	2.65	2.50	2.37	2.25	2.14	2.04	1.96	1.88	1.80	1.73
46		5.11	4.60	4.18	3.83	3.54	3.29	3.07	2.88	2.71	2.56	2.42	2.30	2.19	2.09	2.00	1.92	1.84	1.77
47		5.22	4.70	4.27	3.92	3.62	3.36	3.13	2.94	2.76	2.61	2.47	2.35	2.24	2.14	2.04	1.96	1.88	1.81
48		5.33	4.80	4.36	4.00	3.69	3.43	3.20	3.00	2.82	2.67	2.52	2.40	2.28	2.18	2.09	2.00	1.92	1.84
49		5.44	4.90	4.45	4.08	3.77	3.50	3.27	3.06	2.88	2.72	2.58	2.45	2.33	2.23	2.13	2.04	1.96	1.88
50		5.56	5.00	4.55	4.17	3.85	3.57	3.33	3.13	2.94	2.78	2.63	2.50	2.38	2.27	2.17	2.08	2.00	1.92
51		5.67	5.10	4.64	4.25	3.92	3.64	3.40	3.19	3.00	2.83	2.68	2.55	2.43	2.32	2.22	2.13	2.04	1.96
52		5.78	5.20	4.73	4.33	4.00	3.71	3.47	3.25	3.06	2.89	2.74	2.60	2.48	2.36	2.26	2.17	2.08	2.00
53		5.89	5.30	4.82	4.42	4.08	3.79	3.53	3.31	3.12	2.94	2.79	2.65	2.52	2.41	2.30	2.21	2.12	2.04
54		6.00	5.40	4.91	4.50	4.15	3.86	3.60	3.38	3.18	3.00	2.84	2.70	2.57	2.45	2.35	2.25	2.16	2.07
55		6.11	5.50	5.00	4.58	4.23	3.93	3.67	3.44	3.24	3.06	2.90	2.75	2.62	2.50	2.39	2.29	2.20	2.12
56		6.22	5.60	5.09	4.67	4.31	4.00	3.73	3.50	3.29	3.11	2.95	2.80	2.67	2.55	2.43	2.33	2.24	2.15
57		6.33	5.70	5.18	4.75	4.38	4.07	3.80	3.56	3.35	3.17	3.00	2.85	2.71	2.59	2.48	2.38	2.28	2.19
58		6.44	5.80	5.27	4.83	4.46	4.14	3.87	3.63	3.41	3.22	3.05	2.90	2.76	2.64	2.52	2.42	2.32	2.23
59		6.56	5.90	5.36	4.92	4.54	4.21	3.93	3.69	3.47	3.28	3.11	2.95	2.81	2.68	2.57	2.46	2.36	2.27
60		6.67	6.00	5.45	5.00	4.61	4.28	4.00	3.75	3.53	3.34	3.16	3.00	2.86	2.72	2.61	2.50	2.40	2.30
68		7.55	6.80	6.18	5.66	5.23	4.86	4.54	4.25	4.00	3.78	3.58	3.40	3.24	3.09	2.96	2.84	2.72	2.61
70		7.78	7.00	6.36	5.83	5.38	5.00	4.67	4.38	4.12	3.89	3.68	3.50	3.33	3.18	3.05	2.92	2.80	2.69
72		8.00	7.20	6.54	6.00	5.54	5.14	4.80	4.50	4.24	4.00	3.79	3.60	3.43	3.27	3.13	3.00	2.88	2.77
76				6.91	6.33	5.84	5.43	5.07	4.75	4.47	4.23	4.00	3.80	3.62	3.45	3.31	3.17	3.04	2.92
80				7.27	6.66	6.15	5.71	5.34	5.00	4.70	4.45	4.21	4.00	3.81	3.63	3.48	3.34	3.20	3.07
84					7.00	6.46	6.00	5.60	5.25	4.94	4.67	4.42	4.20	4.00	3.81	3.65	3.50	3.36	3.23
95						7.31	6.78	6.33	5.94	5.59	5.28	5.00	4.75	4.52	4.32	4.13	3.96	3.80	3.65
96						7.38	6.85	6.40	6.00	5.64	5.34	5.05	4.80	4.57	4.36	4.18	4.00	3.84	3.69
102							7.28	6.80	6.38	6.00	5.67	5.37	5.10	4.86	4.63	4.44	4.25	4.08	3.92
112									7.00	6.59	6.23	5.89	5.60	5.33	5.08	4.87	4.67	4.48	4.30
114										6.70	6.33	6.00	5.70	5.43	5.18	4.95	4.75	4.56	4.38
120										7.06	6.67	6.32	6.00	5.71	5.45	5.22	5.00	4.80	4.62

Martin stock sprockets in pitches No. 40 through No. 100 are available with 8 to 60 teeth inclusive and in all common larger sizes for all pitches.

No. 05B
8mm Pitch

Sprocket Diameters

Martin

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter
5	13.61	15.81	7.94	71	180.86	185.48	175.82	136	346.35	351.06	341.35
6	16.00	18.66	11.00	72	183.40	188.03	178.40	137	348.90	353.61	343.88
7	18.44	21.41	12.98	73	185.95	190.58	180.91	138	351.44	356.15	346.44
8	20.91	24.11	15.91	74	188.50	193.13	183.50	139	353.99	358.70	348.97
9	23.39	26.78	18.03	75	191.04	195.67	186.00	140	356.54	361.25	351.54
10	25.89	29.42	20.89	76	193.59	198.22	188.59	141	359.08	363.79	354.06
11	28.40	32.05	23.11	77	196.13	200.77	191.09	142	361.63	366.34	356.63
12	30.91	34.66	25.91	78	198.68	203.32	193.68	143	364.18	368.89	359.16
13	33.43	37.26	28.19	79	201.22	205.87	196.18	144	366.72	371.43	361.72
14	35.95	39.85	30.95	80	203.77	208.41	198.77	145	369.27	373.98	364.25
15	38.48	42.44	33.27	81	206.32	210.96	201.28	146	371.81	376.53	366.81
16	41.01	45.02	36.01	82	208.86	213.51	203.86	147	374.36	379.08	369.34
17	43.54	47.60	38.35	83	211.41	216.06	206.37	148	376.91	381.62	371.91
18	48.07	50.17	41.07	84	213.95	218.60	208.95	149	379.45	384.17	374.43
19	48.80	52.74	43.43	85	216.50	221.15	211.46	150	382.00	386.72	377.00
20	51.14	55.31	46.14	86	219.05	223.70	214.05	151	384.55	389.26	379.53
21	53.68	57.88	48.53	87	221.59	226.25	216.55	152	387.09	391.81	382.09
22	56.21	60.44	51.21	88	224.14	228.79	219.14	153	389.64	394.36	384.62
23	58.75	63.00	53.61	89	226.68	231.34	221.64	154	392.18	396.90	387.18
24	61.29	65.57	56.29	90	229.23	233.89	224.23	155	394.73	399.45	389.71
25	63.83	68.13	58.70	91	231.78	236.44	226.75	156	397.28	402.00	392.28
26	66.37	70.69	61.37	92	234.32	238.99	229.32	157	399.82	404.54	394.80
27	68.91	73.24	63.79	93	236.87	241.53	231.84	158	402.37	407.09	397.37
28	71.45	75.80	66.45	94	239.41	244.08	234.41	159	404.92	409.64	399.90
29	73.99	78.36	68.88	95	241.96	246.63	236.93	160	407.46	412.18	402.46
30	76.53	80.91	71.53	96	244.51	249.17	239.51	161	410.01	414.73	404.99
31	79.08	83.47	73.98	97	247.05	251.72	242.02	162	412.56	417.28	407.56
32	81.62	86.03	76.62	98	249.60	254.27	244.60	163	415.10	419.82	410.08
33	84.16	88.58	79.06	99	252.14	256.82	247.11	164	417.65	422.37	412.65
34	86.70	91.13	81.70	100	254.69	259.36	249.69	165	420.19	424.92	415.17
35	89.25	93.69	84.16	101	257.24	261.91	252.21	166	422.74	427.47	417.74
36	91.79	96.24	86.79	102	259.78	264.46	254.78	167	425.29	430.01	420.27
37	94.33	98.79	89.25	103	262.33	267.01	257.30	168	427.83	432.56	422.83
38	96.88	101.35	91.88	104	264.87	269.55	259.87	169	430.38	435.11	425.36
39	99.42	103.90	94.34	105	267.42	272.10	262.39	170	432.93	437.65	427.93
40	101.96	106.45	96.96	106	269.97	274.65	264.97	171	435.47	440.20	430.45
41	104.51	109.00	99.43	107	272.51	277.19	267.48	172	438.02	442.75	433.02
42	107.05	111.55	102.05	108	275.06	279.74	270.06	173	440.57	445.29	435.55
43	109.60	114.10	104.53	109	277.60	282.29	272.57	174	443.11	447.84	438.11
44	112.14	116.65	107.14	110	280.15	284.84	275.15	175	445.66	450.39	440.64
45	114.68	119.21	109.61	111	282.70	287.38	277.67	176	448.20	452.93	443.20
46	117.23	121.76	112.23	112	285.24	289.93	280.24	177	450.75	455.48	445.73
47	119.77	124.31	114.70	113	287.79	292.48	282.76	178	453.30	458.03	448.30
48	122.32	126.86	117.32	114	290.34	295.03	285.34	179	455.84	460.57	450.82
49	124.86	129.41	119.80	115	292.88	297.57	287.85	180	458.39	463.12	453.39
50	127.41	131.96	122.41	116	295.43	300.12	290.43	181	460.94	465.67	455.92
51	129.95	134.51	124.89	117	297.97	302.67	292.94	182	463.48	468.21	458.48
52	132.50	137.06	127.50	118	300.52	305.21	295.52	183	466.03	470.76	461.01
53	135.04	139.61	129.98	119	303.07	307.76	298.04	184	468.57	473.31	463.57
54	137.59	142.15	132.59	120	305.61	310.31	300.61	185	471.12	475.85	466.10
55	140.13	144.70	135.07	121	308.16	312.85	303.13	186	473.67	478.40	468.67
56	142.68	147.25	137.68	122	310.70	315.40	305.70	187	476.21	480.95	471.19
57	145.22	149.80	140.16	123	313.25	317.95	308.22	188	478.76	483.49	473.76
58	147.77	152.35	142.77	124	315.80	320.50	310.80	189	481.31	486.04	476.29
59	150.31	154.90	145.26	125	318.34	323.04	313.31	190	483.85	488.59	478.85
60	152.86	157.45	147.86	126	320.89	325.59	315.89	191	486.40	491.13	481.38
61	155.40	160.00	150.35	127	323.44	328.14	318.42	192	488.95	493.68	483.95
62	157.95	162.55	152.95	128	325.98	330.68	320.98	193	491.49	496.23	486.47
63	160.49	165.10	155.44	129	328.53	333.23	323.51	194	494.04	498.77	489.04
64	163.04	167.64	158.04	130	331.07	335.78	326.07	195	496.58	501.32	491.56
65	165.59	170.19	160.54	131	333.62	338.32	328.60	196	499.13	503.87	494.13
66	168.13	172.74	163.13	132	336.17	340.87	331.17	197	501.68	506.41	496.66
67	170.68	175.29	165.63	133	338.71	343.42	333.69	198	504.22	508.96	499.22
68	173.22	177.84	168.22	134	341.26	345.97	336.26	199	506.77	511.51	501.75
69	175.77	180.39	170.72	135	343.81	348.51	338.79	200	509.32	514.05	504.32

Odd tooth "bottom diameter" equal pitch diameters minus 3.3mm.
Dimensions in millimeters unless otherwise specified.



Sprocket Diameters

No. **06B**
9.5mm Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter
5	16.20	18.83	9.06	71	215.34	220.84	208.94	136	412.38	417.98	406.03
6	19.05	22.21	12.70	72	218.37	223.87	212.02	137	415.41	421.01	409.03
7	21.95	25.49	15.05	73	221.40	226.91	215.00	138	418.44	424.05	412.09
8	24.89	28.71	18.54	74	224.43	229.94	218.08	139	421.47	427.08	415.09
9	27.85	31.88	21.08	75	227.46	232.97	221.06	140	424.50	430.11	418.15
10	30.82	35.03	24.47	76	230.49	236.01	224.14	141	427.53	433.14	421.15
11	33.81	38.15	27.12	77	233.52	239.04	227.12	142	430.57	436.17	424.22
12	36.80	41.26	30.45	78	236.55	242.08	230.20	143	433.60	439.21	427.22
13	39.80	44.36	33.16	79	239.58	245.11	233.18	144	436.63	442.24	430.28
14	42.80	47.45	36.45	80	242.61	248.14	236.26	145	439.66	445.27	433.28
15	45.81	50.53	39.21	81	245.65	251.18	239.25	146	442.69	448.30	436.34
16	48.82	53.60	42.47	82	248.68	254.21	242.33	147	445.72	451.34	439.34
17	51.84	56.67	45.27	83	251.71	257.24	245.31	148	448.78	454.37	442.41
18	54.85	59.73	48.50	84	254.74	260.28	248.39	149	451.79	457.40	445.41
19	57.87	62.80	51.32	85	257.77	263.31	251.38	150	454.82	460.43	448.47
20	60.89	65.85	54.54	86	260.80	266.34	254.45	151	457.85	463.47	451.47
21	63.91	68.91	57.38	87	263.83	269.38	257.44	152	460.88	466.50	454.53
22	66.93	71.96	60.58	88	266.86	272.41	260.51	153	463.91	469.53	457.54
23	69.95	75.01	63.44	89	269.90	275.44	263.51	154	466.95	472.56	460.60
24	72.97	78.06	66.62	90	272.93	278.48	266.58	155	469.98	475.60	463.61
25	76.00	81.11	69.50	91	275.96	281.51	269.57	156	473.01	478.63	466.66
26	79.02	84.16	72.67	92	278.99	284.54	272.64	157	476.04	481.66	469.67
27	82.05	87.21	75.56	93	282.02	287.57	275.63	158	479.07	484.69	472.72
28	82.07	90.25	78.72	94	285.05	290.61	278.70	159	482.10	487.72	475.73
29	88.10	93.30	81.62	95	288.08	293.64	281.69	160	485.14	490.76	478.79
30	91.12	96.34	84.77	96	291.11	296.67	284.76	161	488.17	493.79	481.80
31	94.15	99.38	87.68	97	294.15	299.71	287.76	162	491.20	496.82	484.85
32	97.18	102.42	90.83	98	297.18	302.74	290.83	163	494.23	499.85	487.86
33	100.20	105.47	93.74	99	300.21	305.77	293.82	164	497.26	502.89	490.91
34	103.23	108.51	96.88	100	303.24	308.81	296.89	165	500.29	505.92	493.92
35	106.26	111.55	99.80	101	306.27	311.84	299.88	166	503.33	508.95	496.96
36	109.29	114.59	102.94	102	309.30	314.87	302.95	167	506.36	511.98	499.99
37	112.32	117.67	105.87	103	312.33	317.90	305.94	168	509.39	515.02	503.04
38	115.34	120.66	108.99	104	315.37	320.94	309.02	169	512.42	518.05	506.05
39	118.37	123.70	111.92	105	318.40	323.97	312.01	170	515.45	521.08	509.10
40	121.40	126.74	115.05	106	321.43	327.00	315.08	171	518.48	524.11	512.11
41	124.43	129.78	117.99	107	324.46	330.04	318.08	172	521.52	527.14	515.17
42	127.46	132.82	121.11	108	327.49	333.07	321.14	173	524.55	530.18	518.18
43	130.49	135.85	124.05	109	330.52	336.10	324.14	174	527.58	533.21	521.23
44	133.52	138.89	127.17	110	333.55	339.13	327.20	175	530.61	536.24	524.24
45	136.55	141.93	130.12	111	336.59	342.17	330.21	176	533.64	539.27	527.29
46	139.58	144.97	133.23	112	339.62	345.20	333.27	177	536.67	542.31	530.30
47	142.61	148.00	136.18	113	342.65	348.23	336.27	178	539.71	545.34	533.36
48	145.64	151.04	139.29	114	345.68	351.26	339.33	179	542.74	548.37	536.37
49	148.67	154.07	142.24	115	348.71	354.30	342.33	180	545.77	551.40	539.42
50	151.69	157.11	145.34	116	351.74	357.33	345.39	181	548.80	554.43	542.43
51	154.72	160.15	148.30	117	354.78	360.36	348.40	182	551.83	557.47	545.48
52	157.75	163.18	151.40	118	357.81	363.39	351.46	183	554.87	560.50	548.50
53	160.78	166.22	154.36	119	360.84	366.43	354.46	184	557.90	563.53	551.55
54	163.82	169.25	157.47	120	363.87	369.46	357.52	185	560.93	566.56	554.56
55	166.85	172.29	160.43	121	366.90	372.49	360.52	186	563.96	569.60	557.61
56	169.88	175.32	163.53	122	369.93	375.53	363.58	187	566.99	572.63	560.62
57	172.91	178.36	166.49	123	372.96	378.56	366.58	188	570.02	575.66	563.67
58	175.94	181.39	169.59	124	376.00	381.59	369.65	189	573.06	578.69	566.69
59	178.97	184.43	172.56	125	379.03	384.62	372.65	190	576.09	581.72	569.74
60	182.00	187.46	175.65	126	382.06	387.66	375.71	191	579.12	584.76	572.75
61	185.03	190.50	178.62	127	385.09	390.69	378.71	192	582.15	587.79	575.80
62	188.06	193.53	181.71	128	388.12	393.72	381.77	193	585.18	590.82	578.81
63	191.09	196.57	184.68	129	391.15	396.75	384.77	194	588.21	593.85	581.86
64	194.12	199.60	187.77	130	394.19	399.79	387.84	195	591.25	596.88	584.88
65	197.15	202.64	190.74	131	397.22	402.82	390.84	196	594.28	599.92	587.93
66	200.18	205.67	193.83	132	400.25	405.85	393.90	197	597.31	602.95	590.94
67	203.21	208.70	196.80	133	403.28	408.88	396.90	198	600.34	605.98	593.99
68	206.24	211.74	199.89	134	406.31	411.92	399.96	199	603.37	609.01	597.00
69	209.27	214.77	202.87	135	409.34	414.95	402.96	200	606.41	612.05	600.06
70	212.30	217.81	205.95								

No. 08B
12.7mm Pitch

**Sprocket
Diameters**

Martin

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter
5	21.61	25.10	12.04	71	267.11	294.45	278.53	136	549.83	557.31	541.32
6	25.40	29.62	16.89	72	291.15	298.50	282.64	137	553.88	561.35	545.33
7	29.27	33.99	20.03	73	295.20	302.54	286.62	138	557.92	565.39	549.41
8	33.19	38.28	24.68	74	299.24	306.59	290.73	139	561.96	569.44	553.42
9	37.13	42.51	28.06	75	303.28	310.63	294.70	140	566.00	573.48	557.49
10	41.10	46.71	32.59	76	307.32	314.68	298.81	141	570.04	577.52	561.50
11	45.08	50.87	36.11	77	311.36	318.72	302.79	142	574.09	581.57	565.58
12	49.07	55.02	40.56	78	315.40	322.77	306.89	143	578.13	585.61	569.59
13	53.07	59.15	44.17	79	319.44	326.81	310.87	144	582.17	589.65	573.66
14	57.07	63.26	48.56	80	323.49	330.86	314.98	145	586.21	593.70	577.67
15	61.08	67.39	52.24	81	327.53	334.90	318.96	146	590.26	597.74	581.75
16	65.10	71.47	56.59	82	331.57	338.95	323.06	147	594.30	601.78	585.76
17	69.12	75.56	60.32	83	335.61	342.99	327.04	148	598.34	605.83	589.83
18	73.14	79.65	64.63	84	339.65	347.03	331.14	149	602.38	609.87	593.84
19	77.16	83.73	68.39	85	343.69	351.08	335.12	150	606.42	613.91	597.91
20	81.18	87.80	72.67	86	347.74	355.12	339.23	151	610.47	617.95	601.93
21	85.21	91.88	76.46	87	351.78	359.17	343.21	152	614.51	622.00	606.00
22	89.24	95.95	80.73	88	355.82	363.21	347.31	153	618.55	626.04	610.01
23	93.27	100.02	84.54	89	359.86	367.26	351.29	154	622.59	630.08	614.08
24	97.30	104.09	88.79	90	363.90	371.30	355.39	155	626.64	634.13	618.10
25	101.33	108.15	92.62	91	367.94	375.34	359.38	156	630.68	638.17	622.17
26	105.36	112.21	96.85	92	371.99	379.39	363.48	157	634.72	642.21	626.18
27	109.40	116.28	100.71	93	376.03	383.43	367.47	158	638.76	646.26	630.25
28	113.43	120.34	104.92	94	380.07	387.48	371.56	159	642.80	650.30	634.26
29	117.46	124.39	108.78	95	384.11	391.52	375.55	160	646.85	654.34	638.34
30	121.50	128.45	112.99	96	388.15	395.56	379.64	161	650.89	658.39	642.35
31	125.53	132.51	116.86	97	392.19	399.61	383.63	162	654.93	662.43	646.42
32	129.57	136.57	121.06	98	396.24	403.65	387.73	163	658.97	666.48	650.43
33	133.61	140.62	124.95	99	400.28	407.70	391.72	164	663.02	670.51	654.51
34	137.64	144.67	129.13	100	404.32	411.74	395.81	165	667.06	674.56	658.52
35	141.68	148.73	133.03	101	408.36	415.78	399.80	166	671.10	678.60	662.59
36	145.72	152.78	137.21	102	412.40	419.83	403.89	167	675.14	682.64	666.60
37	149.75	156.83	141.11	103	416.45	423.87	407.89	168	679.19	686.69	670.68
38	153.79	160.89	145.28	104	420.49	427.92	411.98	169	683.23	690.73	674.69
39	157.83	164.94	149.19	105	424.53	431.96	415.97	170	687.27	694.77	678.76
40	161.87	168.99	153.36	106	428.57	436.00	420.06	171	691.31	698.82	682.77
41	165.91	173.04	157.28	107	432.61	440.05	424.05	172	695.35	702.86	686.84
42	169.94	177.09	161.43	108	436.66	444.09	428.15	173	699.40	706.90	690.86
43	173.98	181.14	165.35	109	440.70	448.13	432.15	174	703.44	710.94	694.93
44	178.02	185.19	169.51	110	444.74	452.18	436.23	175	707.48	714.99	698.94
45	182.06	189.24	173.44	111	448.78	456.22	440.23	176	711.52	719.03	703.01
46	186.10	193.29	177.59	112	452.82	460.27	444.31	177	715.57	723.07	707.03
47	190.14	197.34	181.52	113	456.87	464.31	448.32	178	719.61	727.12	711.10
48	194.18	201.38	185.67	114	460.91	468.35	452.40	179	723.65	731.16	715.11
49	198.22	205.43	189.61	115	464.95	472.40	456.40	180	727.69	735.20	719.18
50	202.26	209.48	193.75	116	468.99	476.44	460.48	181	731.74	739.25	723.20
51	206.30	213.53	197.69	117	473.03	480.48	464.48	182	735.78	743.29	727.27
52	210.34	217.58	201.83	118	477.08	484.53	468.57	183	739.82	747.33	731.28
53	214.38	221.62	205.78	119	481.12	488.57	472.57	184	743.86	751.39	735.35
54	218.42	225.67	209.91	120	485.16	492.61	476.65	185	747.91	755.42	739.37
55	222.46	229.72	213.86	121	489.20	496.66	480.65	186	751.95	759.46	743.44
56	226.50	233.76	217.99	122	493.24	500.70	484.73	187	755.99	763.50	747.45
57	230.54	237.81	221.94	123	497.29	504.74	488.74	188	760.03	767.55	751.52
58	234.58	241.86	226.07	124	501.33	508.79	492.82	189	764.07	771.59	755.53
59	238.62	245.90	230.03	125	505.37	512.83	496.82	190	768.12	775.63	759.61
60	242.66	249.95	234.15	126	509.41	516.87	500.90	191	772.16	779.67	763.62
61	246.70	254.00	238.11	127	513.45	520.92	504.90	192	776.20	783.73	767.69
62	250.74	258.04	242.23	128	517.50	524.96	508.99	193	780.24	787.76	771.71
63	254.79	262.09	246.20	129	521.54	529.00	512.99	194	784.29	791.80	775.78
64	258.83	266.13	250.32	130	525.58	533.05	517.07	195	788.33	795.85	779.80
65	262.87	270.18	254.28	131	529.62	537.09	521.07	196	792.37	799.89	783.86
66	266.91	274.23	258.40	132	533.67	541.13	525.16	197	796.41	803.93	787.88
67	270.95	278.27	262.37	133	537.71	545.18	529.16	198	800.46	807.97	791.95
68	274.99	282.32	266.48	134	541.75	549.22	533.24	199	804.50	812.02	795.97
69	279.03	286.36	270.45	135	545.79	553.26	537.24	200	808.54	816.06	800.03
70	283.07	290.41	274.56								



Sprocket Diameters

No. **10B**
15.9mm Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter
5	27.01	31.38	15.53	71	358.89	368.07	348.64	136	687.29	696.63	677.13
6	31.75	37.02	21.59	72	363.94	373.12	353.78	137	692.34	701.69	682.13
7	36.59	42.49	25.51	73	369.00	378.18	358.75	138	697.40	706.74	687.24
8	41.48	47.85	31.32	74	374.05	383.23	363.89	139	702.45	711.80	692.25
9	46.42	53.14	35.55	75	379.10	388.29	368.86	140	707.50	716.85	697.34
10	51.37	58.38	41.21	76	384.15	393.35	373.99	141	712.56	721.90	702.36
11	56.35	63.59	45.62	77	389.20	398.40	378.96	142	717.61	726.96	707.45
12	61.34	68.77	51.18	78	394.25	403.46	384.09	143	722.66	732.01	712.46
13	66.33	73.93	55.69	79	399.31	408.51	389.07	144	727.71	737.07	717.55
14	71.34	79.08	61.18	80	404.36	413.57	394.20	145	732.77	742.12	722.57
15	76.35	84.21	65.77	81	409.41	418.63	399.17	146	737.82	747.17	727.66
16	81.37	89.33	71.21	82	414.46	423.68	404.30	147	742.87	752.23	732.67
17	86.39	94.45	75.86	83	419.51	428.74	409.27	148	747.93	757.28	737.77
18	91.42	99.56	81.26	84	424.57	433.79	414.41	149	752.98	762.34	742.78
19	96.45	104.66	85.96	85	429.62	438.85	419.39	150	758.03	767.39	747.87
20	101.48	109.76	91.32	86	434.67	443.90	424.51	151	763.08	772.44	752.88
21	106.51	114.85	96.05	87	439.72	448.96	429.49	152	768.14	777.50	757.98
22	111.55	119.94	101.39	88	444.77	454.01	434.61	153	773.19	782.55	752.99
23	116.59	125.02	106.16	89	449.83	459.07	439.60	154	778.24	787.61	768.08
24	121.62	130.11	111.46	90	454.88	464.13	444.72	155	783.29	792.66	773.09
25	126.66	135.19	116.25	91	459.93	469.18	449.70	156	788.35	797.71	778.19
26	131.70	140.27	121.54	92	464.98	474.24	454.82	157	793.40	802.77	783.20
27	136.74	145.34	126.35	93	470.03	479.29	459.80	158	798.45	807.82	788.29
28	141.79	150.42	131.63	94	475.09	484.35	464.93	159	803.51	812.87	793.31
29	146.83	155.49	136.45	95	480.14	489.40	469.91	160	808.56	817.93	798.40
30	151.87	160.57	141.71	96	485.19	494.46	475.03	161	813.61	822.98	803.41
31	156.92	165.64	146.56	97	490.24	499.51	480.02	162	818.66	828.04	808.50
32	161.96	170.71	151.80	98	495.30	504.57	485.14	163	823.72	833.09	813.52
33	167.01	175.78	156.66	99	500.35	509.62	490.13	164	828.77	838.14	818.61
34	172.05	180.84	161.89	100	505.40	514.68	495.24	165	833.82	843.20	823.62
35	177.10	185.91	166.76	101	510.45	519.73	500.23	166	838.88	848.25	828.72
36	182.15	190.98	171.99	102	515.50	524.79	505.34	167	843.93	853.30	833.73
37	187.19	196.04	176.86	103	520.56	529.84	510.34	168	848.98	858.36	838.82
38	192.24	201.11	182.08	104	525.61	534.89	515.45	169	854.03	863.41	843.83
39	197.29	206.17	186.97	105	530.66	539.95	520.44	170	859.09	868.47	848.93
40	202.33	211.24	192.17	106	535.71	545.00	525.55	171	864.14	873.52	853.94
41	207.38	216.30	197.07	107	540.77	550.06	530.55	172	869.19	878.57	859.03
42	212.43	221.36	202.27	108	545.82	555.11	535.66	173	874.25	883.63	864.05
43	217.48	226.42	207.17	109	550.87	560.17	540.65	174	879.30	888.68	869.14
44	222.53	231.49	212.37	110	555.92	565.22	545.76	175	884.35	893.73	874.15
45	227.58	236.55	217.28	111	560.98	570.28	550.76	176	889.41	898.79	879.25
46	232.63	241.61	222.47	112	566.03	575.33	555.87	177	894.46	903.84	884.26
47	237.68	246.67	227.39	113	571.08	580.39	560.86	178	899.51	908.90	889.35
48	242.73	251.73	232.57	114	576.13	585.44	565.97	179	904.56	913.95	894.37
49	247.78	256.79	237.49	115	581.19	590.49	570.98	180	909.62	919.00	899.46
50	252.82	261.85	242.66	116	586.24	595.55	576.08	181	914.67	924.06	904.48
51	257.87	266.91	247.59	117	591.29	600.60	581.08	182	919.72	929.11	909.56
52	262.92	271.97	252.76	118	596.34	605.66	586.18	183	924.78	934.16	914.59
53	268.97	277.03	257.69	119	601.40	610.71	591.19	184	929.83	939.22	919.67
54	273.03	282.09	262.87	120	606.45	615.77	596.29	185	934.88	944.27	924.69
55	278.08	287.15	267.81	121	611.50	620.82	601.29	186	939.93	949.33	929.77
56	283.13	292.21	272.97	122	616.55	625.88	606.39	187	944.99	954.38	934.80
57	288.18	297.26	277.91	123	621.61	630.93	611.40	188	950.04	959.43	939.88
58	293.23	302.32	283.07	124	626.66	635.98	616.50	189	955.09	964.49	944.90
59	298.28	307.38	288.01	125	631.71	641.04	621.50	190	960.15	969.54	949.99
60	303.33	312.44	293.17	126	636.77	646.09	626.61	191	965.20	974.59	955.01
61	308.38	317.50	298.12	127	641.82	651.15	631.61	192	970.25	979.65	960.09
62	313.43	322.55	303.27	128	646.87	656.20	636.71	193	975.30	984.70	965.11
63	318.48	327.61	308.22	129	651.92	661.25	641.71	194	980.36	989.75	970.20
64	323.53	332.67	313.37	130	656.98	666.31	646.82	195	985.41	994.81	975.22
65	328.58	337.73	318.32	131	662.03	671.36	651.82	196	990.46	999.86	980.30
66	333.64	342.78	323.48	132	667.08	676.42	656.92	197	995.52	1004.91	985.33
67	338.69	347.84	328.44	133	672.13	681.47	661.92	198	1000.57	1009.97	990.41
68	343.74	352.90	333.58	134	677.19	686.53	667.03	199	1005.62	1015.02	995.43
69	348.79	357.95	338.54	135	682.24	691.58	672.03	200	1010.68	1020.08	1000.52
70	353.84	363.01	343.68								

No. 12B
19.1mm Pitch

Sprocket Diameters

Martin

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Calliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Calliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Calliper Diameter
5	32.41	37.65	18.76	71	430.67	441.68	418.50	136	824.75	835.96	812.69
6	38.10	44.43	26.04	72	436.73	447.75	424.67	137	830.81	842.03	818.69
7	43.91	50.99	30.74	73	442.79	453.81	430.62	138	836.88	848.09	824.82
8	49.78	57.42	37.72	74	448.86	459.88	436.80	139	842.94	854.16	830.82
9	55.70	63.77	42.79	75	454.92	465.95	442.76	140	849.00	860.22	836.94
10	61.65	70.06	49.59	76	460.98	472.02	448.92	141	855.07	866.28	842.95
11	67.62	76.31	54.87	77	467.04	478.08	454.88	142	861.13	872.35	849.07
12	73.60	82.53	61.54	78	473.10	484.15	461.04	143	867.19	878.41	855.07
13	79.60	88.72	66.95	79	479.17	490.22	467.01	144	873.26	884.48	861.20
14	85.61	94.89	73.55	80	485.23	496.28	473.17	145	879.32	890.54	867.20
15	91.63	101.05	79.06	81	491.29	502.35	479.13	146	885.38	896.61	873.32
16	97.65	107.20	85.59	82	497.35	508.42	485.29	147	891.45	902.67	879.33
17	103.67	113.34	91.16	83	503.42	514.49	491.26	148	897.51	908.74	885.45
18	109.70	119.47	97.64	84	509.48	520.55	497.42	149	903.57	914.80	891.45
19	115.74	125.59	103.28	85	515.54	526.62	503.39	150	909.64	920.87	897.58
20	121.78	131.71	109.72	86	521.60	532.69	509.54	151	915.70	926.93	903.59
21	127.82	137.82	115.40	87	527.67	538.75	515.52	152	921.76	933.00	909.70
22	133.86	143.93	121.80	88	533.73	544.82	521.67	153	927.83	939.06	915.72
23	139.90	150.03	127.51	89	539.79	550.88	527.64	154	933.89	945.13	921.83
24	145.95	156.13	133.89	90	545.85	556.95	533.79	155	939.95	951.19	927.84
25	151.99	162.23	139.63	91	551.92	563.02	539.77	156	946.02	957.26	933.96
26	158.04	168.32	145.98	92	557.98	569.08	545.92	157	952.08	963.32	939.97
27	164.09	174.41	151.75	93	564.04	575.15	551.89	158	958.14	969.38	946.08
28	170.14	180.50	158.08	94	570.10	581.22	558.04	159	964.21	975.45	952.10
29	176.19	186.59	163.87	95	576.17	587.28	564.03	160	970.27	981.51	958.21
30	182.25	192.68	170.19	96	582.23	593.35	570.17	161	976.33	987.58	964.22
31	188.30	198.76	175.99	97	588.29	599.41	576.15	162	982.40	993.64	970.34
32	194.35	204.85	182.29	98	594.35	605.48	582.29	163	988.46	999.71	976.35
33	200.41	210.93	188.12	99	600.42	611.55	588.28	164	994.52	1005.77	982.46
34	206.46	217.01	194.40	100	606.48	617.61	594.42	165	1000.59	1011.84	988.48
35	212.52	223.09	200.24	101	612.54	623.68	600.40	166	1006.65	1017.90	994.59
36	218.57	229.17	206.51	102	618.61	629.74	606.55	167	1012.71	1023.97	1000.60
37	224.63	235.25	212.36	103	624.67	635.81	612.53	168	1018.78	1030.03	1006.72
38	230.69	241.33	218.63	104	630.73	641.87	618.67	169	1024.84	1036.09	1012.73
39	236.74	247.41	224.48	105	636.79	647.94	624.65	170	1030.91	1042.16	1018.85
40	242.80	253.48	230.74	106	642.86	654.00	630.80	171	1036.97	1048.22	1024.86
41	248.86	259.56	236.61	107	648.92	660.07	636.79	172	1043.03	1054.29	1030.97
42	254.92	265.63	242.86	108	654.98	666.14	642.92	173	1049.10	1060.35	1036.99
43	260.98	271.71	248.74	109	661.05	672.20	648.92	174	1055.16	1066.42	1043.10
44	267.03	277.78	254.97	110	667.11	678.27	655.05	175	1061.22	1072.48	1049.11
45	273.09	283.86	260.86	111	673.17	684.33	661.04	176	1067.29	1078.55	1055.23
46	279.15	289.93	267.09	112	679.24	690.40	667.18	177	1073.35	1084.61	1061.24
47	285.21	296.00	272.99	113	685.30	696.46	673.17	178	1079.41	1090.67	1067.35
48	291.27	302.08	279.21	114	691.36	702.53	679.30	179	1085.48	1096.74	1073.37
49	297.33	308.15	285.11	115	697.42	708.59	685.29	180	1091.54	1102.80	1079.48
50	303.39	314.22	291.33	116	703.49	714.66	691.43	181	1097.60	1108.87	1085.49
51	309.45	320.29	297.24	117	709.55	720.72	697.42	182	1103.67	1114.93	1091.61
52	315.51	326.36	303.45	118	715.61	726.79	703.55	183	1109.73	1121.00	1097.62
53	321.57	332.44	309.36	119	721.68	732.85	709.55	184	1115.79	1127.06	1103.73
54	327.63	338.51	315.57	120	727.74	738.92	715.68	185	1121.86	1133.13	1109.75
55	333.69	344.58	321.49	121	733.80	744.99	721.67	186	1127.92	1139.19	1115.86
56	339.75	350.65	327.69	122	739.87	751.05	727.81	187	1133.98	1145.25	1121.87
57	345.81	356.72	333.61	123	745.93	757.12	733.80	188	1140.05	1151.32	1127.99
58	351.87	362.79	339.81	124	751.99	763.18	739.93	189	1146.11	1157.38	1134.01
59	357.93	368.86	345.74	125	758.06	769.25	745.94	190	1152.18	1163.45	1140.12
60	363.99	374.93	351.93	126	764.12	775.31	752.06	191	1158.24	1169.51	1146.14
61	370.06	380.99	357.87	127	770.18	781.38	758.06	192	1164.30	1175.58	1152.24
62	376.12	387.06	364.06	128	776.24	787.44	764.18	193	1170.37	1181.64	1158.27
63	382.18	393.13	370.00	129	782.31	793.51	770.19	194	1176.43	1187.71	1164.37
64	388.24	399.20	376.18	130	788.37	799.57	776.31	195	1182.49	1193.77	1170.39
65	394.30	405.27	382.12	131	794.43	805.64	782.31	196	1188.56	1199.83	1176.50
66	400.36	411.34	388.30	132	800.50	811.70	788.44	197	1194.62	1205.90	1182.52
67	406.42	417.41	394.24	133	806.56	817.77	794.44	198	1200.68	1211.96	1188.62
68	412.49	423.48	400.43	134	812.62	823.83	800.56	199	1206.75	1218.03	1194.65
69	418.55	429.54	406.38	135	818.69	829.90	806.57	200	1212.81	1224.09	1200.75
70	424.61	435.61	412.55								



Sprocket Diameters

No. **16B**
25.4mm Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter
5	43.21	50.20	25.22	71	574.23	588.91	558.21	136	1099.67	1114.61	1083.80
6	50.80	59.23	34.93	72	582.31	597.00	566.44	137	1107.75	1122.70	1091.80
7	58.54	67.98	41.20	73	590.39	605.09	574.38	138	1115.84	1130.79	1099.97
8	66.37	76.56	50.50	74	598.48	613.18	582.61	139	1123.92	1138.87	1107.97
9	74.26	85.03	57.26	75	606.56	621.27	590.55	140	1132.00	1146.96	1116.13
10	82.20	93.41	66.33	76	614.64	629.36	598.77	141	1140.09	1155.05	1124.14
11	90.16	101.74	73.37	77	622.72	637.44	606.72	142	1148.17	1163.13	1132.30
12	98.14	110.03	82.27	78	630.81	645.53	614.94	143	1156.26	1171.22	1140.32
13	106.14	118.29	89.49	79	638.89	653.62	622.89	144	1164.34	1179.31	1148.47
14	114.15	126.52	98.28	80	646.97	661.71	631.10	145	1172.43	1187.39	1156.49
15	122.17	134.74	105.63	81	655.05	669.80	639.05	146	1180.51	1195.48	1164.64
16	130.20	142.93	114.33	82	663.14	677.89	647.27	147	1188.60	1203.56	1172.66
17	138.23	151.12	121.77	83	671.22	685.98	655.22	148	1196.68	1211.65	1180.81
18	146.27	159.29	130.40	84	679.30	694.07	663.43	149	1204.76	1219.74	1188.82
19	154.32	167.45	137.92	85	687.39	702.16	671.40	150	1212.85	1227.82	1196.98
20	162.37	175.61	146.50	86	695.47	710.25	679.60	151	1220.93	1235.91	1204.99
21	170.42	183.76	154.07	87	703.55	718.34	687.56	152	1229.02	1244.00	1213.15
22	178.48	191.90	162.61	88	711.64	726.42	695.77	153	1237.10	1252.08	1221.16
23	186.54	200.04	170.23	89	719.72	734.51	703.73	154	1245.19	1260.17	1229.32
24	194.60	208.17	178.73	90	727.80	742.60	711.93	155	1253.27	1268.25	1237.33
25	202.66	216.30	186.39	91	735.89	750.69	719.91	156	1261.36	1276.34	1245.49
26	210.72	224.43	194.85	92	743.97	758.78	728.10	157	1269.44	1284.43	1253.50
27	218.79	232.55	202.54	93	752.05	766.87	736.07	158	1277.53	1292.51	1261.66
28	226.86	240.67	210.99	94	760.14	774.95	744.27	159	1285.61	1300.60	1269.67
29	234.93	248.79	218.71	95	768.22	783.04	752.24	160	1293.69	1308.69	1277.82
30	243.00	256.90	227.13	96	776.31	791.13	760.44	161	1301.78	1316.77	1285.84
31	251.07	265.02	234.87	97	784.39	799.22	768.41	162	1309.86	1324.86	1293.99
32	259.14	273.13	243.27	98	792.47	807.31	776.60	163	1317.95	1332.94	1302.01
33	267.21	281.24	251.03	99	800.56	815.39	784.58	164	1326.03	1341.03	1310.16
34	275.28	289.35	259.41	100	808.64	823.48	792.77	165	1334.12	1349.12	1318.18
35	283.36	297.46	267.20	101	816.72	831.57	800.75	166	1342.20	1357.20	1326.33
36	291.43	305.56	275.56	102	824.81	839.66	808.94	167	1350.29	1365.29	1334.36
37	299.51	313.67	283.37	103	832.89	847.74	816.92	168	1358.37	1373.37	1342.50
38	307.58	321.77	291.71	104	840.98	855.83	825.11	169	1366.46	1381.46	1350.53
39	315.66	329.88	299.53	105	849.06	863.92	833.09	170	1374.54	1389.55	1358.67
40	323.74	337.98	307.87	106	857.14	872.01	841.27	171	1382.62	1397.63	1366.69
41	331.81	346.08	315.69	107	865.23	880.09	849.26	172	1390.71	1405.72	1374.84
42	339.89	354.18	324.02	108	873.31	888.18	857.44	173	1398.79	1413.80	1382.86
43	347.97	362.28	331.86	109	881.39	896.27	865.42	174	1406.88	1421.89	1391.01
44	356.05	370.38	340.18	110	889.48	904.36	873.61	175	1414.96	1429.98	1399.03
45	364.12	378.48	348.02	111	897.56	912.44	881.60	176	1423.05	1438.06	1407.18
46	372.20	386.57	356.33	112	905.65	920.53	889.78	177	1431.13	1446.15	1415.20
47	380.28	394.67	364.19	113	913.73	928.62	897.77	178	1439.22	1454.23	1423.35
48	388.36	402.77	372.49	114	921.81	936.70	905.94	179	1447.30	1462.32	1431.37
49	396.44	410.87	380.36	115	929.90	944.79	913.94	180	1455.39	1470.41	1439.52
50	404.52	418.96	388.65	116	937.98	952.88	922.11	181	1463.47	1478.49	1447.54
51	412.60	427.06	396.53	117	946.07	960.97	930.11	182	1471.56	1486.58	1455.69
52	420.68	435.15	404.81	118	954.15	969.05	938.28	183	1479.64	1494.66	1463.71
53	428.75	443.25	412.70	119	962.24	977.14	946.28	184	1487.73	1502.75	1471.86
54	436.84	451.34	420.97	120	970.32	985.23	954.45	185	1495.81	1510.83	1479.88
55	444.92	459.44	428.86	121	978.40	993.31	962.44	186	1503.89	1518.92	1488.02
56	453.00	467.53	437.13	122	986.49	1001.40	970.62	187	1511.98	1527.01	1496.05
57	461.08	475.62	445.03	123	994.57	1009.49	978.61	188	1520.06	1535.09	1504.19
58	469.16	483.72	453.29	124	1002.66	1017.57	986.79	189	1528.15	1543.18	1512.22
59	477.24	491.81	461.20	125	1010.74	1025.66	994.79	190	1536.23	1551.26	1520.36
60	485.33	499.90	469.46	126	1018.82	1033.75	1002.95	191	1544.32	1559.35	1528.39
61	493.41	507.99	477.37	127	1026.91	1041.83	1010.96	192	1552.40	1567.44	1536.53
62	501.49	516.09	485.62	128	1034.99	1049.92	1019.12	193	1560.49	1575.52	1544.56
63	509.57	524.18	493.54	129	1043.08	1058.01	1027.13	194	1568.57	1583.61	1552.70
64	517.65	532.27	501.78	130	1051.16	1066.09	1035.29	195	1576.66	1591.69	1560.73
65	525.73	540.36	509.70	131	1059.25	1074.18	1043.30	196	1584.74	1599.78	1568.87
66	533.82	548.45	517.95	132	1067.33	1082.27	1051.46	197	1592.83	1607.86	1576.90
67	541.90	556.54	525.88	133	1075.41	1090.35	1059.46	198	1600.91	1615.95	1585.04
68	549.98	564.63	534.11	134	1083.50	1098.44	1067.63	199	1609.00	1624.04	1593.07
69	558.06	572.72	542.04	135	1091.58	1106.53	1075.63	200	1617.08	1632.12	1601.21
70	566.15	580.81	550.28								

No. 20B
31.8mm Pitch

**Sprocket
Diameters**

Martin

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Calliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Calliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Calliper Diameter
5	54.02	62.75	32.33	71	717.78	736.13	698.55	136	1374.58	1393.27	1355.53
6	63.50	74.04	44.45	72	727.89	746.24	708.84	137	1384.69	1403.38	1365.55
7	73.18	84.98	52.30	73	737.90	756.36	718.77	138	1394.80	1413.48	1375.75
8	82.97	95.70	63.92	74	748.09	766.47	729.04	139	1404.90	1423.59	1385.76
9	92.83	105.28	72.37	75	758.20	776.58	738.98	140	1415.01	1433.70	1395.96
10	102.75	116.77	83.70	76	768.30	786.69	749.25	141	1425.11	1443.81	1405.97
11	112.70	127.18	92.50	77	778.40	796.81	759.19	142	1435.22	1453.92	1416.17
12	122.67	138.54	103.62	78	788.51	806.92	769.46	143	1445.32	1464.02	1426.18
13	132.67	147.86	112.65	79	798.61	817.03	779.40	144	1455.43	1474.13	1436.38
14	142.68	158.16	123.63	80	808.71	827.14	789.66	145	1465.53	1484.24	1446.39
15	152.71	168.42	132.82	81	818.82	837.25	799.62	146	1475.64	1494.35	1456.59
16	162.75	178.67	143.70	82	828.92	847.36	809.87	147	1485.74	1504.46	1466.61
17	172.79	188.90	153.00	83	839.03	857.48	819.83	148	1495.85	1514.56	1476.80
18	182.84	199.11	163.79	84	849.13	867.59	830.08	149	1505.96	1524.67	1486.83
19	192.90	209.32	173.19	85	859.23	877.70	840.03	150	1516.06	1534.78	1497.01
20	202.96	219.51	183.91	86	869.34	887.81	850.29	151	1526.17	1544.89	1507.04
21	213.03	229.70	193.38	87	879.44	897.92	860.25	152	1536.27	1554.99	1517.22
22	223.10	239.88	204.05	88	889.55	908.03	870.50	153	1546.38	1565.10	1527.25
23	233.17	250.05	213.58	89	899.65	918.14	880.46	154	1556.48	1575.21	1537.43
24	243.25	260.22	224.20	90	909.76	928.25	890.71	155	1566.59	1585.32	1547.46
25	253.32	270.38	233.77	91	919.86	938.36	900.67	156	1576.70	1595.43	1557.65
26	263.41	280.53	244.36	92	929.96	948.47	910.91	157	1586.80	1605.53	1567.67
27	273.49	290.69	253.98	93	940.07	958.58	920.89	158	1596.91	1615.64	1577.86
28	283.57	300.84	264.52	94	950.17	968.69	931.12	159	1607.01	1625.75	1587.88
29	293.66	310.99	274.18	95	960.28	978.80	941.10	160	1617.12	1635.86	1598.07
30	303.75	321.13	284.70	96	970.38	988.91	951.33	161	1627.22	1645.96	1608.09
31	313.83	331.27	294.38	97	980.49	999.02	961.31	162	1637.33	1656.07	1618.28
32	323.92	341.41	304.87	98	990.59	1009.13	971.54	163	1647.44	1666.18	1628.31
33	334.01	351.55	314.58	99	1000.70	1019.24	981.52	164	1657.54	1676.29	1638.49
34	344.10	361.69	325.05	100	1010.80	1029.35	991.75	165	1667.65	1686.39	1648.52
35	354.20	371.82	334.79	101	1020.90	1039.46	1001.73	166	1677.75	1696.50	1658.70
36	364.29	381.95	345.24	102	1031.01	1049.57	1011.96	167	1687.86	1706.61	1668.74
37	374.38	392.09	354.99	103	1041.11	1059.68	1021.94	168	1697.96	1716.72	1678.91
38	384.48	402.22	365.43	104	1051.22	1069.79	1032.17	169	1708.07	1726.82	1688.95
39	394.57	412.34	375.20	105	1061.32	1079.90	1042.15	170	1718.18	1736.93	1699.13
40	404.67	422.47	385.62	106	1071.43	1090.01	1052.38	171	1728.28	1747.04	1709.16
41	414.77	432.60	395.42	107	1081.53	1100.12	1062.36	172	1738.39	1757.15	1719.34
42	424.86	442.72	405.81	108	1091.64	1110.23	1072.59	173	1748.49	1767.25	1729.37
43	434.96	452.85	415.62	109	1101.74	1120.34	1082.58	174	1758.60	1777.36	1739.55
44	445.06	462.97	426.01	110	1111.85	1130.45	1092.80	175	1768.70	1787.47	1749.58
45	455.15	473.10	435.82	111	1121.95	1140.55	1102.79	176	1778.81	1797.58	1759.76
46	465.25	483.22	446.20	112	1132.06	1150.66	1113.01	177	1788.92	1807.68	1769.80
47	475.35	493.34	456.03	113	1142.16	1160.77	1123.00	178	1799.02	1817.79	1779.97
48	485.45	503.46	466.40	114	1152.27	1170.88	1133.22	179	1809.13	1827.90	1790.01
49	495.55	513.58	476.25	115	1162.37	1180.99	1143.21	180	1819.23	1838.01	1800.18
50	505.65	523.70	486.60	116	1172.48	1191.10	1153.43	181	1829.34	1848.11	1810.22
51	515.75	533.82	496.46	117	1182.58	1201.21	1163.42	182	1839.45	1858.22	1820.40
52	525.85	543.94	506.80	118	1192.69	1211.32	1173.64	183	1849.55	1868.33	1830.43
53	535.95	554.06	516.66	119	1202.79	1221.42	1183.64	184	1859.66	1878.44	1840.61
54	546.05	564.18	527.00	120	1212.90	1231.53	1193.85	185	1869.76	1888.54	1850.64
55	556.15	574.29	536.87	121	1223.00	1241.64	1203.85	186	1879.87	1898.65	1860.82
56	566.25	584.41	547.20	122	1233.11	1251.75	1214.06	187	1889.97	1908.76	1870.85
57	576.35	594.53	557.08	123	1243.21	1261.86	1224.06	188	1900.08	1918.86	1881.03
58	586.45	604.64	567.40	124	1253.32	1271.97	1234.27	189	1910.19	1928.97	1891.07
59	596.56	614.76	577.30	125	1263.43	1282.08	1244.28	190	1920.29	1939.08	1901.24
60	606.66	624.88	587.61	126	1273.53	1292.18	1254.48	191	1930.40	1949.19	1911.28
61	616.76	634.99	597.51	127	1283.64	1302.29	1264.49	192	1940.50	1959.29	1921.45
62	626.86	645.11	607.81	128	1293.74	1312.40	1274.69	193	1950.61	1969.40	1931.50
63	636.96	655.22	617.71	129	1303.85	1322.51	1284.70	194	1960.72	1979.51	1941.67
64	647.07	665.34	628.02	130	1313.95	1332.62	1294.90	195	1970.82	1989.62	1951.71
65	657.17	675.45	637.93	131	1324.06	1342.73	1304.91	196	1980.93	1999.72	1961.88
66	667.27	685.56	648.22	132	1334.16	1352.83	1315.11	197	1991.03	2009.83	1971.92
67	677.37	695.68	658.13	133	1344.27	1362.94	1325.13	198	2001.14	2019.94	1982.09
68	687.48	705.79	668.43	134	1354.37	1373.05	1335.32	199	2011.24	2030.04	1992.13
69	697.58	715.91	678.35	135	1364.48	1383.16	1345.34	200	2021.35	2040.15	2002.30
70	707.68	726.02	688.53								



Sprocket Diameters

No. **24B**
38.1mm Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter
5	64.82	62.75	32.33	71	861.34	883.36	842.08	136	1649.50	1671.92	1630.45
6	76.20	74.04	44.45	72	873.46	895.49	854.41	137	1661.63	1684.05	1642.47
7	87.81	84.98	52.30	73	885.59	907.63	866.33	138	1673.75	1696.18	1654.70
8	99.56	95.70	63.92	74	897.71	919.76	878.66	139	1685.88	1708.31	1666.72
9	111.40	105.28	72.37	75	909.84	931.90	890.59	140	1698.01	1720.44	1678.96
10	123.29	116.77	83.70	76	921.96	944.03	902.91	141	1710.13	1732.57	1690.97
11	135.23	127.18	92.50	77	934.08	956.17	914.84	142	1722.26	1744.70	1703.21
12	147.21	138.54	103.62	78	946.21	968.30	927.16	143	1734.39	1756.83	1715.24
13	159.20	147.86	112.65	79	958.33	980.44	939.09	144	1746.51	1768.96	1727.46
14	171.22	158.16	123.63	80	970.46	992.57	951.41	145	1758.64	1781.09	1739.49
15	183.25	168.42	132.82	81	982.58	1004.70	963.35	146	1770.77	1793.22	1751.72
16	195.29	178.67	143.70	82	994.71	1016.84	975.66	147	1782.89	1805.35	1763.74
17	207.35	188.90	153.00	83	1006.83	1028.97	987.60	148	1795.02	1817.48	1775.97
18	219.41	199.11	163.79	84	1018.96	1041.10	999.91	149	1807.15	1829.61	1788.00
19	231.48	209.32	173.19	85	1031.08	1053.24	1011.85	150	1817.27	1841.74	1800.22
20	243.55	219.51	183.91	86	1043.21	1065.37	1024.16	151	1831.40	1853.86	1812.25
21	255.63	229.70	193.38	87	1055.33	1077.50	1036.11	152	1843.53	1865.99	1824.48
22	267.72	239.88	204.05	88	1067.46	1089.64	1048.41	153	1855.65	1878.12	1836.50
23	279.80	250.05	213.58	89	1079.58	1101.77	1060.36	154	1867.78	1890.25	1848.73
24	291.90	260.22	224.20	90	1091.71	1113.90	1072.66	155	1879.91	1902.38	1860.76
25	303.99	270.38	233.77	91	1103.83	1126.03	1084.62	156	1892.03	1914.51	1872.98
26	316.09	280.53	244.36	92	1115.96	1138.17	1096.91	157	1904.16	1926.64	1885.01
27	328.19	290.69	253.98	93	1128.08	1150.30	1108.87	158	1916.29	1938.77	1897.24
28	340.29	300.84	264.52	94	1140.21	1162.43	1121.16	159	1928.41	1950.90	1909.27
29	352.39	310.99	274.18	95	1152.33	1174.56	1133.12	160	1940.54	1963.03	1921.49
30	364.49	321.13	284.70	96	1164.46	1186.69	1145.41	161	1952.67	1975.16	1933.53
31	376.60	331.27	294.38	97	1176.58	1198.83	1157.38	162	1964.80	1987.29	1945.75
32	388.71	341.41	304.87	98	1188.71	1210.96	1169.66	163	1976.92	1999.42	1957.78
33	400.82	351.55	314.58	99	1200.83	1223.09	1181.63	164	1989.05	2011.54	1970.00
34	412.93	361.69	325.05	100	1212.96	1235.22	1193.91	165	2001.18	2023.67	1982.04
35	425.04	371.82	334.79	101	1225.09	1247.35	1205.89	166	2013.30	2035.80	1994.25
36	437.15	381.95	345.24	102	1237.21	1259.48	1218.16	167	2025.43	2047.93	2006.29
37	449.26	392.09	354.99	103	1249.34	1271.62	1230.14	168	2037.56	2060.06	2018.51
38	461.37	402.22	365.43	104	1261.46	1283.75	1242.41	169	2049.68	2072.19	2030.54
39	473.49	412.34	375.20	105	1273.59	1285.88	1254.40	170	2061.81	2084.32	2042.76
40	485.60	422.47	385.62	106	1285.71	1308.01	1266.66	171	2073.94	2096.45	2054.80
41	497.72	432.60	395.42	107	1297.84	1320.14	1278.65	172	2086.06	2108.58	2067.01
42	509.83	442.72	405.81	108	1309.97	1332.27	1290.92	173	2098.19	2120.71	2079.05
43	521.95	452.85	415.62	109	1322.09	1344.40	1302.90	174	2110.32	2132.83	2091.27
44	534.07	462.97	426.01	110	1334.22	1356.53	1315.17	175	2122.45	2144.96	2103.31
45	546.19	473.10	436.82	111	1346.34	1368.66	1327.16	176	2134.57	2157.09	2115.52
46	558.30	483.22	446.20	112	1358.47	1380.80	1339.42	177	2146.70	2169.22	2127.57
47	570.42	493.34	456.03	113	1370.60	1392.93	1351.42	178	2158.83	2181.35	2139.78
48	582.54	503.46	466.40	114	1382.72	1405.06	1363.67	179	2171.95	2193.48	2151.82
49	594.66	513.58	476.25	115	1394.85	1417.19	1375.67	180	2183.08	2205.61	2164.03
50	606.78	523.70	486.60	116	1406.97	1429.32	1387.92	181	2195.21	2217.74	2176.08
51	618.90	533.82	496.46	117	1419.10	1441.45	1399.92	182	2207.33	2229.87	2188.28
52	631.02	543.94	506.80	118	1431.23	1453.58	1412.18	183	2219.46	2241.99	2200.33
53	643.14	554.06	516.66	119	1443.35	1465.71	1424.17	184	2231.59	2254.12	2212.54
54	655.26	564.18	527.00	120	1455.48	1477.84	1436.43	185	2243.72	2266.25	2224.59
55	667.38	574.29	536.87	121	1467.61	1489.97	1448.44	186	2255.84	2278.38	2236.79
56	679.50	584.41	547.20	122	1479.73	1502.10	1460.68	187	2267.97	2290.51	2248.84
57	691.62	594.53	557.08	123	1491.86	1514.23	1472.69	188	2280.10	2302.64	2261.05
58	703.75	604.64	567.40	124	1503.98	1526.36	1484.93	189	2292.22	2314.77	2273.09
59	715.87	614.76	577.30	125	1516.11	1538.49	1496.94	190	2304.35	2326.90	2285.30
60	727.99	624.88	587.61	126	1528.24	1550.62	1509.19	191	2316.48	2339.02	2297.35
61	740.11	634.99	597.51	127	1540.36	1562.75	1521.19	192	2328.60	2351.15	2309.55
62	752.23	645.11	607.81	128	1552.49	1574.88	1533.44	193	2340.73	2363.28	2321.60
63	764.36	655.22	617.71	129	1564.62	1587.01	1545.45	194	2352.86	2375.41	2333.81
64	776.48	665.34	628.02	130	1576.74	1599.14	1557.69	195	2364.99	2387.54	2345.86
65	788.60	675.45	637.93	131	1588.87	1611.27	1569.71	196	2377.11	2399.67	2358.06
66	800.72	685.56	648.22	132	1601.00	1623.40	1581.95	197	2389.24	2411.80	2370.11
67	812.85	695.68	658.13	133	1613.12	1635.53	1593.96	198	2401.37	2423.92	2382.32
68	824.97	705.79	668.43	134	1625.25	1647.66	1606.20	199	2413.49	2436.05	2394.36
69	837.09	715.91	678.35	135	1637.37	1659.79	1618.21	200	2425.62	2448.18	2406.57

No. 28B
44.5mm Pitch

**Sprocket
Diameters**

Martin

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Calliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Calliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Calliper Diameter
5	75.62	87.85	43.98	71	1004.90	1030.58	976.71	136	1924.42	1950.57	1896.48
6	88.90	103.66	60.96	72	1019.04	1044.74	991.10	137	1938.57	1964.73	1910.50
7	102.45	118.97	71.94	73	1033.19	1058.90	1005.01	138	1952.71	1978.88	1924.77
8	116.15	133.98	88.21	74	1047.33	1073.06	1019.39	139	1966.86	1993.03	1938.79
9	129.96	148.80	100.05	75	1061.48	1087.21	1033.31	140	1981.01	2007.18	1953.07
10	143.84	163.47	115.90	76	1075.62	1101.37	1047.68	141	1995.16	2021.33	1967.10
11	157.77	178.05	128.22	77	1089.77	1115.53	1061.60	142	2009.30	2035.48	1981.36
12	171.74	192.56	143.80	78	1103.91	1129.69	1075.97	143	2023.45	2049.63	1995.39
13	185.74	207.01	156.45	79	1118.06	1143.84	1089.90	144	2037.60	2063.78	2009.66
14	199.76	221.42	171.82	80	1132.20	1158.00	1104.26	145	2051.75	2077.94	2023.69
15	213.79	235.79	184.68	81	1146.35	1172.15	1118.19	146	2065.90	2092.09	2037.96
16	227.84	250.14	199.90	82	1160.49	1186.31	1132.55	147	2080.04	2106.24	2051.98
17	241.91	264.46	212.94	83	1174.64	1200.47	1146.49	148	2094.19	2120.39	2066.25
18	255.98	278.76	228.04	84	1188.78	1214.62	1160.84	149	2108.34	2134.54	2080.28
19	270.06	293.04	241.20	85	1202.93	1228.78	1174.78	150	2122.49	2148.69	2094.55
20	284.14	307.32	256.20	86	1217.07	1242.93	1189.13	151	2136.63	2162.84	2108.57
21	298.24	321.58	269.47	87	1231.22	1257.09	1203.08	152	2150.78	2176.99	2122.84
22	312.34	335.83	284.40	88	1245.37	1271.24	1217.43	153	2164.93	2191.14	2136.88
23	326.44	350.07	297.74	89	1259.51	1285.40	1231.37	154	2179.08	2205.29	2151.14
24	340.54	364.30	312.60	90	1273.66	1299.55	1245.72	155	2193.23	2219.45	2165.18
25	354.65	378.53	326.01	91	1287.80	1313.71	1259.67	156	2207.37	2233.60	2179.43
26	368.77	392.75	340.83	92	1301.95	1327.86	1274.01	157	2221.52	2247.75	2193.47
27	382.88	406.96	354.29	93	1316.10	1342.01	1287.97	158	2235.67	2261.90	2207.73
28	397.00	421.17	369.06	94	1330.24	1356.17	1302.30	159	2249.82	2276.05	2221.77
29	411.12	435.38	382.58	95	1344.39	1370.32	1316.27	160	2263.97	2290.20	2236.03
30	425.24	449.58	397.30	96	1358.53	1384.48	1330.59	161	2278.11	2304.35	2250.06
31	439.37	463.78	410.87	97	1372.68	1398.63	1344.56	162	2292.26	2318.50	2264.32
32	453.49	477.98	425.55	98	1386.83	1412.78	1358.89	163	2306.41	2332.65	2278.36
33	467.62	492.17	439.15	99	1400.97	1426.94	1372.85	164	2320.56	2346.80	2292.62
34	481.75	506.36	453.81	100	1415.12	1441.09	1387.18	165	2334.71	2360.95	2306.66
35	495.88	520.55	467.44	101	1429.27	1455.25	1401.16	166	2348.85	2375.10	2320.91
36	510.01	534.74	482.07	102	1443.41	1469.40	1415.47	167	2363.00	2389.25	2334.96
37	524.14	548.92	495.73	103	1457.56	1483.55	1429.45	168	2377.15	2403.40	2349.21
38	538.27	563.10	510.33	104	1471.71	1497.71	1443.77	169	2391.30	2417.55	2363.26
39	552.40	577.28	524.01	105	1485.85	1511.86	1457.74	170	2405.45	2431.70	2377.51
40	566.54	591.46	538.60	106	1500.00	1526.01	1472.06	171	2419.59	2445.86	2391.55
41	580.67	605.64	552.30	107	1514.15	1540.16	1486.05	172	2433.74	2460.01	2405.80
42	594.81	619.81	566.87	108	1528.29	1554.32	1500.35	173	2447.89	2474.16	2419.85
43	608.94	633.99	580.59	109	1542.44	1568.47	1514.34	174	2462.04	2488.31	2434.10
44	623.08	648.16	595.14	110	1556.59	1582.62	1528.65	175	2476.19	2502.46	2448.15
45	637.22	662.33	608.89	111	1570.73	1596.78	1542.63	176	2490.33	2516.61	2462.39
46	651.35	676.51	623.41	112	1584.88	1610.93	1556.94	177	2504.48	2530.76	2476.44
47	665.49	690.68	637.18	113	1599.03	1625.08	1570.94	178	2518.63	2544.91	2490.69
48	679.63	704.85	651.69	114	1613.18	1639.23	1585.24	179	2532.78	2559.06	2504.74
49	693.77	719.01	665.47	115	1627.32	1653.39	1599.23	180	2546.93	2573.21	2518.99
50	707.91	733.18	679.97	116	1641.47	1667.54	1613.53	181	2561.07	2587.36	2533.03
51	722.05	747.35	693.77	117	1655.62	1681.69	1627.53	182	2575.22	2601.51	2547.28
52	736.19	761.52	708.25	118	1669.76	1695.84	1641.82	183	2589.37	2615.66	2561.33
53	750.33	775.68	722.06	119	1683.91	1709.99	1655.82	184	2603.52	2629.81	2575.58
54	764.47	789.85	736.53	120	1698.06	1724.15	1670.12	185	2617.67	2643.96	2589.64
55	778.61	804.01	750.35	121	1712.21	1738.30	1684.13	186	2631.82	2658.11	2603.88
56	792.75	818.18	764.81	122	1726.35	1752.45	1698.41	187	2645.96	2672.26	2617.93
57	806.89	832.34	778.64	123	1740.50	1766.60	1712.42	188	2660.11	2686.41	2632.17
58	821.04	846.50	793.10	124	1754.65	1780.76	1726.71	189	2674.26	2700.56	2646.23
59	835.18	860.66	806.94	125	1768.80	1794.91	1740.72	190	2688.41	2714.71	2660.47
60	849.32	874.83	821.38	126	1782.94	1809.06	1755.00	191	2702.56	2728.86	2674.53
61	863.46	888.99	835.23	127	1797.09	1823.21	1769.01	192	2716.71	2743.01	2688.77
62	877.61	903.15	849.67	128	1811.24	1837.36	1783.30	193	2730.85	2757.16	2702.82
63	891.75	917.31	863.53	129	1825.39	1851.51	1797.31	194	2745.00	2771.31	2717.06
64	905.89	931.47	877.95	130	1839.53	1865.67	1811.59	195	2759.15	2785.46	2731.12
65	920.03	945.63	891.82	131	1853.68	1879.82	1825.61	196	2773.30	2799.61	2745.36
66	934.18	959.79	906.24	132	1867.83	1893.97	1839.89	197	2787.45	2813.76	2759.42
67	948.32	973.95	920.12	133	1881.98	1908.12	1853.91	198	2801.59	2827.91	2773.65
68	962.47	988.11	934.53	134	1896.12	1922.27	1868.18	199	2815.74	2842.06	2787.71
69	976.61	1002.27	948.42	135	1910.27	1936.42	1882.20	200	2829.89	2856.21	2801.95
70	990.75	1016.43	962.81								



Sprocket Diameters

No. **32B**
50.8mm Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter
5	86.43	100.40	51.21	71	1148.45	1177.81	1117.18	136	2199.33	2229.23	2168.34
6	101.60	118.47	70.61	72	1164.62	1193.99	1133.63	137	2215.50	2245.40	2184.37
7	117.08	135.97	83.16	73	1180.78	1210.17	1149.52	138	2231.67	2261.57	2200.68
8	132.75	153.12	101.76	74	1196.95	1226.35	1165.96	139	2247.84	2277.75	2216.71
9	148.53	170.05	115.29	75	1213.12	1242.53	1181.87	140	2264.01	2293.92	2233.02
10	164.39	186.83	133.40	76	1229.28	1258.71	1198.29	141	2280.18	2310.09	2249.05
11	180.31	203.49	147.49	77	1245.45	1274.89	1214.20	142	2296.35	2326.27	2265.36
12	196.28	220.07	165.29	78	1261.61	1291.07	1230.62	143	2312.52	2342.44	2281.39
13	212.27	236.58	179.73	79	1277.78	1307.25	1246.54	144	2328.69	2358.61	2297.70
14	228.29	253.05	197.30	80	1293.94	1323.43	1262.95	145	2344.85	2374.78	2313.72
15	244.33	269.48	212.00	81	1310.11	1339.60	1278.88	146	2361.02	2390.96	2330.03
16	260.39	285.87	229.40	82	1326.28	1355.78	1295.29	147	2377.19	2407.13	2346.07
17	276.46	302.24	244.29	83	1342.44	1371.96	1311.21	148	2393.36	2423.30	2362.37
18	292.55	318.58	261.56	84	1358.61	1388.14	1327.62	149	2409.53	2439.47	2378.41
19	308.54	334.91	276.60	85	1374.78	1404.32	1343.56	150	2425.70	2455.65	2394.71
20	324.74	351.22	293.75	86	1390.94	1420.49	1359.95	151	2441.87	2471.82	2410.75
21	340.84	367.52	308.90	87	1407.11	1436.67	1375.89	152	2458.04	2487.99	2427.05
22	356.96	383.80	325.97	88	1423.27	1452.85	1392.29	153	2474.21	2504.16	2443.09
23	373.07	400.08	341.21	89	1439.44	1469.02	1408.23	154	2490.37	2520.34	2459.38
24	389.19	416.34	358.20	90	1455.61	1485.20	1424.62	155	2506.54	2536.51	2475.42
25	405.32	432.60	373.53	91	1471.78	1501.38	1440.57	156	2522.71	2552.68	2491.72
26	421.45	448.86	390.46	92	1487.94	1517.55	1456.95	157	2538.88	2568.85	2507.76
27	437.58	465.10	405.85	93	1504.11	1533.73	1472.91	158	2555.05	2585.03	2524.06
28	453.72	481.34	422.73	94	1520.28	1549.91	1489.29	159	2571.22	2601.20	2540.11
29	469.85	497.58	438.17	95	1536.44	1566.08	1505.24	160	2587.39	2617.37	2556.40
30	485.99	513.81	455.00	96	1552.61	1582.26	1521.62	161	2603.56	2633.54	2572.45
31	502.13	530.04	470.50	97	1568.78	1598.44	1537.59	162	2619.73	2649.71	2588.74
32	518.28	546.26	487.29	98	1584.95	1614.61	1553.96	163	2635.90	2665.89	2604.79
33	534.42	562.48	502.83	99	1601.11	1630.79	1569.92	164	2652.07	2682.06	2621.08
34	550.57	578.70	519.58	100	1617.28	1646.96	1586.29	165	2668.23	2698.23	2637.12
35	566.72	594.91	535.16	101	1633.45	1663.14	1602.26	166	2684.40	2714.40	2653.41
36	582.86	611.13	551.87	102	1649.62	1679.31	1618.63	167	2700.57	2730.58	2669.46
37	599.01	627.34	567.48	103	1665.78	1695.49	1634.60	168	2716.74	2746.75	2685.75
38	615.17	643.54	584.18	104	1681.95	1711.66	1650.96	169	2732.91	2762.92	2701.80
39	631.32	659.75	599.82	105	1698.12	1727.84	1666.94	170	2749.08	2779.09	2717.09
40	647.47	675.96	616.48	106	1714.29	1744.01	1683.30	171	2765.25	2795.26	2734.15
41	663.63	692.16	632.16	107	1730.45	1760.19	1699.28	172	2781.42	2811.44	2750.43
42	679.78	708.36	648.79	108	1746.62	1776.36	1715.63	173	2797.59	2827.61	2766.49
43	695.94	724.56	664.49	109	1762.79	1792.54	1731.62	174	2813.76	2843.78	2782.77
44	712.09	740.76	681.10	110	1778.96	1808.71	1747.97	175	2829.93	2859.95	2798.83
45	728.25	756.95	696.82	111	1795.13	1824.89	1763.96	176	2846.10	2876.12	2815.11
46	744.41	773.15	713.42	112	1811.29	1841.06	1780.30	177	2862.27	2892.29	2831.17
47	760.56	789.34	729.15	113	1827.46	1857.24	1796.30	178	2878.43	2908.47	2847.44
48	776.72	805.54	745.73	114	1843.63	1873.41	1812.64	179	2894.60	2924.64	2863.50
49	792.88	821.73	761.48	115	1859.80	1889.58	1828.64	180	2910.77	2940.81	2879.78
50	809.04	837.92	777.05	116	1875.97	1905.76	1844.98	181	2926.94	2956.98	2895.84
51	825.20	854.11	793.82	117	1892.13	1921.93	1860.97	182	2943.11	2973.15	2912.12
52	841.36	870.30	810.37	118	1908.30	1938.11	1877.31	183	2959.28	2989.33	2928.18
53	857.52	886.49	826.16	119	1924.47	1954.28	1893.31	184	2975.45	3005.50	2944.46
54	873.68	902.68	842.69	120	1940.64	1970.45	1909.65	185	2991.62	3021.67	2960.52
55	889.84	918.87	858.49	121	1956.81	1986.63	1925.66	186	3007.79	3037.84	2976.80
56	906.00	935.06	875.01	122	1972.98	2002.80	1941.99	187	3023.96	3054.01	2992.87
57	922.16	951.24	890.82	123	1989.14	2018.97	1957.99	188	3040.13	3070.18	3009.14
58	938.33	967.43	907.34	124	2005.31	2035.15	1974.32	189	3056.30	3086.36	3025.21
59	954.49	983.62	923.16	125	2021.48	2051.32	1990.33	190	3072.47	3102.53	3041.48
60	970.65	999.80	939.66	126	2037.65	2067.50	2006.66	191	3088.64	3118.70	3057.55
61	986.81	1015.99	955.49	127	2053.82	2083.67	2022.67	192	3104.81	3134.87	3073.82
62	1002.98	1032.17	971.99	128	2069.99	2099.84	2039.00	193	3120.98	3151.04	3089.89
63	1019.14	1048.35	987.84	129	2086.15	2116.02	2055.01	194	3137.14	3167.21	3106.15
64	1035.30	1064.54	1004.31	130	2102.32	2132.19	2071.33	195	3153.31	3183.38	3122.22
65	1051.47	1080.72	1020.17	131	2118.49	2148.36	2087.35	196	3169.48	3199.56	3138.49
66	1067.63	1096.90	1036.64	132	2134.66	2164.54	2103.67	197	3185.65	3215.73	3154.56
67	1083.80	1113.09	1052.51	133	2150.83	2180.71	2119.69	198	3201.82	3231.90	317.83
68	1099.96	1129.27	1068.97	134	2167.00	2196.88	2136.01	199	3217.99	3248.07	3186.90
69	1116.13	1145.45	1084.85	135	2183.17	2213.06	2152.03	200	3234.16	3264.24	3203.17
70	1132.29	1161.63	1101.30								

No. 40B
44.5mm Pitch

**Sprocket
Diameters**

Martin

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter
5	108.03	125.50	63.37	71	1435.57	1472.26	1395.85	136	2749.17	2786.54	2709.80
6	127.00	148.09	87.63	72	1455.77	1492.49	1416.40	137	2769.38	2806.75	2729.83
7	146.35	169.96	103.31	73	1475.98	1512.71	1436.27	138	2789.59	2826.97	2750.22
8	165.93	191.40	126.56	74	1496.19	1532.94	1456.82	139	2809.80	2847.18	2770.25
9	185.66	212.56	143.47	75	1516.39	1553.16	1476.69	140	2830.01	2867.40	2790.64
10	205.49	233.53	166.12	76	1536.60	1573.39	1497.23	141	2850.22	2887.62	2810.67
11	225.39	254.36	183.73	77	1556.81	1593.61	1517.12	142	2870.43	2907.83	2831.06
12	245.35	275.09	205.98	78	1577.02	1613.84	1537.65	143	2890.65	2928.05	2851.11
13	265.34	295.73	224.04	79	1597.22	1634.06	1557.53	144	2910.86	2948.26	2871.49
14	285.37	316.31	246.00	80	1617.43	1654.28	1578.06	145	2931.07	2968.48	2891.53
15	305.42	336.84	254.38	81	1637.64	1674.51	1597.96	146	2951.28	2988.70	2911.91
16	325.49	357.34	286.12	82	1657.85	1694.73	1618.48	147	2971.49	3008.91	2931.95
17	345.58	377.79	304.74	83	1678.05	1714.95	1638.38	148	2991.70	3029.13	2952.33
18	365.68	398.23	326.31	84	1698.25	1735.17	1658.89	149	3011.91	3049.34	2972.37
19	385.80	418.63	345.11	85	1718.47	1755.40	1678.81	150	3032.12	3069.56	2992.75
20	405.92	439.02	366.55	86	1738.68	1775.62	1699.31	151	3052.33	3089.77	3012.79
21	426.05	459.39	385.49	87	1758.89	1795.84	1719.23	152	3072.55	3109.99	3033.18
22	446.19	479.75	406.82	88	1779.09	1816.06	1739.72	153	3092.76	3130.21	3053.23
23	466.34	500.10	425.88	89	1799.30	1836.28	1759.65	154	3112.97	3150.42	3073.60
24	486.49	520.43	447.12	90	1819.51	1856.50	1780.14	155	3133.18	3170.64	3093.65
25	506.65	540.75	466.28	91	1839.72	1876.72	1800.08	156	3153.39	3190.85	3114.02
26	526.81	561.07	487.44	92	1859.93	1896.94	1820.56	157	3173.60	3211.07	3134.07
27	546.98	581.38	506.68	93	1880.14	1917.16	1840.50	158	3193.81	3231.28	3154.44
28	567.14	601.68	527.77	94	1900.35	1937.38	1860.98	159	3214.02	3251.50	3174.49
29	587.32	621.97	547.09	95	1920.55	1957.60	1880.92	160	3234.24	3271.71	3194.87
30	607.49	642.26	568.12	96	1940.76	1977.82	1901.39	161	3254.45	3291.93	3214.93
31	627.67	662.55	587.49	97	1960.97	1998.04	1921.34	162	3274.66	3312.14	3235.29
32	647.85	682.83	608.48	98	1981.18	2018.26	1941.81	163	3294.87	3332.36	3255.35
33	668.03	703.10	627.90	99	2001.39	2038.48	1961.77	164	3315.08	3352.57	3275.71
34	688.21	723.37	648.84	100	2021.60	2058.70	1982.23	165	3335.29	3372.79	3295.77
35	708.39	743.64	668.31	101	2041.81	2078.92	2002.19	166	3355.50	3393.00	3316.13
36	728.58	763.91	689.21	102	2062.02	2099.14	2022.65	167	3375.72	3413.22	3336.20
37	748.77	784.17	708.73	103	2082.23	2119.36	2042.62	168	3395.93	3433.43	3356.56
38	768.96	804.43	729.59	104	2102.44	2139.58	2063.07	169	3416.14	3453.65	3376.62
39	789.15	824.69	749.14	105	2122.65	2159.80	2083.04	170	3436.35	3473.86	3396.98
40	809.34	844.94	769.97	106	2142.86	2180.02	2103.49	171	3456.56	3494.08	3417.04
41	829.53	865.20	789.55	107	2163.07	2200.24	2123.47	172	3476.77	3514.29	3437.40
42	849.72	885.45	810.35	108	2183.28	2220.45	2143.91	173	3496.99	3534.51	3457.48
43	869.92	905.70	829.97	109	2203.49	2240.67	2163.89	174	3517.20	3554.72	3477.83
44	890.11	925.95	850.74	110	2223.70	2260.89	2184.33	175	3537.41	3574.94	3497.90
45	910.31	945.19	870.39	111	2243.91	2281.11	2204.32	176	3557.62	3595.15	3518.25
46	930.51	966.44	891.14	112	2264.12	2301.33	2224.75	177	3577.83	3615.37	3538.32
47	950.70	986.68	910.80	113	2284.33	2321.54	2244.74	178	3598.04	3635.58	3558.67
48	970.90	1006.92	931.53	114	2304.54	2341.76	2265.17	179	3618.26	3655.80	3578.75
49	991.10	1027.16	951.22	115	2324.75	2361.98	2285.16	180	3638.47	3676.01	3599.10
50	1011.30	1047.40	971.93	116	2344.96	2382.20	2305.59	181	3658.68	3696.23	3619.17
51	1031.50	1067.64	991.64	117	2365.17	2402.41	2325.59	182	3678.89	3716.44	3639.52
52	1051.70	1087.88	1012.33	118	2385.38	2422.63	2346.01	183	3699.10	3736.66	3659.59
53	1071.90	1108.12	1032.06	119	2405.59	2442.85	2366.01	184	3719.31	3756.87	3679.94
54	1092.10	1128.35	1052.73	120	2425.80	2463.07	2386.43	185	3739.53	3777.09	3700.03
55	1112.30	1148.59	1072.48	121	2446.01	2483.28	2406.43	186	3759.74	3797.30	3720.37
56	1132.50	1168.82	1093.13	122	2466.22	2503.50	2426.85	187	3779.95	3817.52	3740.45
57	1152.71	1189.06	1112.90	123	2486.43	2523.72	2446.86	188	3800.16	3837.73	3760.79
58	1172.91	1209.29	1133.54	124	2506.64	2543.94	2467.27	189	3820.37	3857.94	3780.87
59	1193.11	1229.52	1153.32	125	2526.85	2564.15	2487.28	190	3840.58	3878.16	3801.21
60	1213.31	1249.75	1173.94	126	2547.06	2584.37	2507.69	191	3860.80	3898.37	3821.30
61	1233.52	1269.98	1193.74	127	2567.27	2604.59	2527.70	192	3881.01	3918.59	3841.64
62	1253.72	1290.21	1214.35	128	2587.48	2624.80	2548.11	193	3901.22	3938.80	3861.72
63	1273.93	1310.44	1234.16	129	2607.69	2645.02	2568.13	194	3921.43	3959.02	3882.06
64	1294.13	1330.67	1254.76	130	2627.90	2665.24	2588.53	195	3941.64	3979.23	3902.14
65	1314.34	1350.90	1274.59	131	2648.11	2685.45	2608.55	196	3961.85	3999.45	3922.48
66	1334.54	1371.13	1295.17	132	2668.33	2705.67	2628.96	197	3982.07	4019.66	3942.57
67	1354.75	1391.36	1315.01	133	2688.54	2725.89	2648.98	198	4002.28	4039.87	3962.91
68	1374.95	1411.58	1335.58	134	2708.75	2746.10	2669.38	199	4022.49	4060.09	3982.99
69	1395.16	1431.81	1355.43	135	2728.96	2766.32	2689.41	200	4042.70	4080.30	4003.33



Sprocket Dimensions

No. **48B**
63.5mm Pitch

ROLLER CHAIN SPROCKET DIMENSIONS

No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Callper Diameter
6	152.40	177.70	104.14	71	1722.68	1766.72	1674.00	136	3299.00	3343.84	3250.74
7	175.82	203.95	122.96	72	1746.93	1790.99	1698.67	137	3323.26	3368.10	3274.78
8	199.12	229.68	150.86	73	1771.18	1815.26	1722.51	138	3347.51	3392.36	3299.25
9	222.79	255.08	171.15	74	1795.43	1839.53	1747.17	139	3371.76	3416.62	3323.28
10	246.59	280.24	198.33	75	1819.67	1863.80	1771.01	140	3396.01	3440.88	3347.75
11	270.47	305.23	219.46	76	1843.92	1888.07	1795.66	141	3420.27	3465.14	3371.80
12	294.41	330.10	246.15	77	1868.17	1912.33	1819.52	142	3444.52	3489.40	3396.26
13	318.41	354.88	267.83	78	1892.42	1936.60	1844.16	143	3468.77	3513.66	3420.30
14	342.44	379.57	294.18	79	1916.67	1960.87	1868.03	144	3493.03	3537.92	3444.77
15	366.50	404.21	316.23	80	1940.92	1985.14	1892.66	145	3517.28	3562.18	3468.81
16	390.59	428.80	342.33	81	1965.16	2009.41	1916.53	146	3541.53	3586.43	3493.27
17	414.69	453.35	364.66	82	1989.41	2033.67	1941.15	147	3565.79	3610.69	3417.33
18	438.82	477.87	390.56	83	2013.66	2057.94	1965.04	148	3590.04	3634.95	3541.78
19	462.96	502.36	413.12	84	2037.91	2082.21	1989.65	149	3614.29	3659.21	3565.83
20	487.10	526.83	438.84	85	2062.16	2106.47	2013.55	150	3638.55	3683.47	3590.29
21	511.26	551.27	461.57	86	2086.41	2130.74	2038.15	151	3662.80	3707.73	3614.34
22	535.42	575.70	487.17	87	2110.66	2155.01	2062.06	152	3687.05	3731.99	3638.79
23	559.61	600.12	510.05	88	2134.91	2179.27	2086.85	153	3711.31	3756.25	3662.85
24	583.79	624.52	535.53	89	2159.16	2203.54	2110.56	154	3735.56	3780.50	3687.30
25	607.98	648.91	558.52	90	2183.41	2227.80	2135.15	155	3759.82	3804.76	3711.37
26	632.17	673.28	583.91	91	2207.66	2252.07	2159.07	156	3784.07	3829.02	3735.81
27	656.37	697.65	607.00	92	2231.91	2276.33	2183.65	157	3808.32	3853.28	3759.87
28	680.57	722.01	632.31	93	2256.16	2300.60	2207.58	158	3832.58	3877.54	3784.32
29	704.78	746.37	655.49	94	2280.41	2324.86	2232.15	159	3856.83	3901.80	3808.38
30	728.99	770.71	680.73	95	2304.67	2349.13	2256.09	160	3881.08	3926.06	3832.82
31	753.20	795.06	703.97	96	2328.92	2373.39	2280.66	161	3905.34	3950.31	3856.89
32	777.42	819.39	729.16	97	2353.17	2397.65	2304.60	162	3929.59	3974.57	3881.33
33	801.63	843.72	752.46	98	2377.42	2421.92	2329.16	163	3953.84	3998.83	3905.40
34	825.85	868.05	777.59	99	2401.67	2446.18	2353.11	164	3978.10	4023.09	3929.84
35	850.07	892.37	800.95	100	2425.92	2470.44	2377.66	165	4002.35	4047.35	3953.91
36	874.30	916.69	826.04	101	2450.17	2494.71	2401.61	166	4026.61	4071.60	3978.35
37	898.52	941.01	849.45	102	2474.42	2518.97	2426.16	167	4050.86	4095.86	4002.42
38	922.75	965.32	874.49	103	2498.67	2543.23	2450.12	168	405.11	4120.12	4026.85
39	946.98	989.63	897.95	104	2522.93	2567.49	2474.67	169	4099.37	4144.38	4050.93
40	971.21	1013.93	922.95	105	2547.18	2591.76	2498.63	170	4123.62	4168.64	4075.36
41	995.44	1038.24	946.45	106	2571.43	2616.02	2523.17	171	4147.87	4192.89	4099.43
42	1019.67	1062.54	971.41	107	2595.68	2640.28	2547.14	172	4172.13	4217.15	4123.87
43	1043.90	1086.84	994.94	108	2619.93	2664.54	2571.67	173	4196.38	4241.41	4147.95
44	1068.14	1111.14	1019.88	109	2644.18	2688.81	2595.65	174	4220.64	4265.67	4172.38
45	1092.37	1135.43	1043.44	110	2668.44	2713.07	2620.18	175	4244.89	4289.93	4196.46
46	1116.61	1159.72	1068.35	111	2692.69	2737.33	2644.16	176	4269.14	4314.18	4220.88
47	1140.84	1184.02	1091.94	112	2716.94	2761.59	2668.68	177	4293.40	4338.44	4244.97
48	1165.08	1208.31	1116.82	113	2741.19	2785.85	2692.67	178	4317.65	4362.70	4269.39
49	1189.32	1232.60	1140.45	114	2765.44	2810.11	2717.18	179	4341.91	4386.96	4293.48
50	1213.56	1256.88	1165.30	115	2789.70	2834.38	2741.18	180	4366.16	4411.22	4317.90
51	1237.80	1281.17	1188.95	116	2813.95	2858.64	2765.69	181	4390.41	4435.47	4341.98
52	1262.04	1305.46	1213.78	117	2838.20	2882.90	2789.68	182	4414.67	4459.73	4366.41
53	1286.28	1329.74	1237.46	118	2862.45	2907.16	2814.19	183	4438.92	4483.99	4390.50
54	1310.52	1354.02	1262.26	119	2886.71	2931.42	2838.20	184	4463.18	4508.25	4414.92
55	1334.76	1378.31	1285.96	120	2910.96	2955.68	2862.70	185	4487.43	4532.50	4439.01
56	1359.00	1402.59	1310.74	121	2935.21	2979.94	2886.70	186	4511.68	4556.76	4483.42
57	1383.25	1426.87	1334.46	122	2959.46	3004.20	2911.20	187	4535.94	4581.02	4487.52
58	1407.49	1451.15	1359.23	123	2983.72	3028.46	2935.22	188	4560.19	4605.28	4511.93
59	1431.73	1475.42	1382.96	124	3007.97	3052.72	2959.71	189	4584.45	4629.53	4536.03
60	1455.98	1499.70	1407.72	125	3032.22	3076.98	2983.72	190	4608.70	4653.79	4560.44
61	1480.22	1523.98	1431.47	126	3056.47	3101.24	3008.21	191	4632.95	4678.05	4584.53
62	1504.47	1548.26	1456.21	127	3080.73	3125.50	3032.23	192	4657.21	4702.31	4608.95
63	1528.71	1572.53	1479.97	128	3104.98	3149.76	3056.72	193	4681.46	4726.56	4633.04
64	1552.96	1596.81	1504.70	129	3129.23	3174.02	3080.74	194	4705.72	4750.82	4657.46
65	1577.20	1621.08	1528.48	130	3153.48	3198.28	3105.22	195	4729.97	4775.08	4681.56
66	1601.45	1645.35	1553.19	131	3177.74	3222.54	3129.25	196	4754.23	4799.33	4705.97
67	1625.69	1669.63	1576.98	132	3201.99	3246.80	3153.73	197	4778.47	4823.59	4730.07
68	1649.94	1693.90	1604.68	133	3226.24	3271.06	3177.75	198	4802.73	4847.85	4754.47
69	1674.19	1718.17	1625.50	134	3250.50	3295.32	3202.24	199	4826.99	4872.11	4778.58
70	1698.44	1742.44	1650.18	135	3274.75	3319.58	3226.27	200	4851.24	4896.36	4802.98

Chain Drive Selection

Step 1:

Prime Driver:	_____	_____	_____
	Type & Description	Rated - kW.	R.P.M.
Driven Comp:	_____	_____	_____
	Type & Description	R.P.M.	Hours/Day
Center Distance:	_____	_____	_____
	Maximum	Minimum	Nominal

Step 2:

Service Classification (Step I Page E-69)

Step 3

Service Factor

(Include additions to basic factor)
(Step II Page E-69)

Step 4: Determine Design kW

$$\frac{\text{_____}}{\text{kW}} \times \frac{\text{_____}}{\text{Service Factor}} = \frac{\text{_____}}{\text{kW Design}}$$

Step 5: Speed Ratio

$$\frac{\text{_____}}{\text{RPM Faster Shaft}} \div \frac{\text{_____}}{\text{RPM Slower Factor}} = \frac{\text{_____}}{\text{Ratio (E-75)}}$$

Step 6: From selector chart, select proper chain pitch & driver sprocket.

(check *Martin* catalog #2001-I, Page E-71)

$$\begin{array}{ccc} \text{A.} \frac{\text{_____}}{\text{Chain Pitch}} & \text{B.} \frac{\text{_____}}{\text{Driver Sprocket}} & \frac{\text{_____}}{\text{Maximum Bore}} \\ & & \text{(Pages E-5 thru E-57)} \end{array}$$

Step 7: From ratio chart, select proper driven sprocket.

$$\text{C.} \frac{\text{_____}}{\text{Driven Sprocket}} \quad \frac{\text{_____}}{\text{Maximum Bore}}$$

Step 8: Check manufacturer's catalog for maximum bore recommended & final stock selection. (Pages E-5 thru E-57)

Step 9: Review kilowatt power graph for type of lubrication required.

TYPE: A BCD (Pages E-68)

Step 10:

$$\frac{\text{OR} \frac{\text{_____}}{\text{Center Dist. (mm)}}}{\text{Chain Pitch}} \div \frac{\text{_____}}{\text{Chain Pitch}} = \frac{\text{_____}}{\text{Center Dist. (pitches)}}$$

Step 11: Formula for chain length

$$= 2C + \frac{N+n}{2} + \frac{A}{C}$$

Where:

C	=	Center Dist. in pitches
N	=	Number of teeth in Driven Sprocket
n	=	Number of teeth in Driver Sprocket
A	=	Value from table tabulated for N - n values (Page E-73)



SECTION E⁺
SPROCKETS

Martin

Sprocket & Gear, Inc.

Catalog 2001— I



CONVERT STYLE



DRIVE STYLE



BOLT-ON SHEAR PIN ACCU-TORCH[®]
SPROCKETS



INSTANT SPLIT[®] SPROCKETS

Warning & Safety Reminder



WARNING & SAFETY REMINDER

Safety must be considered a basic factor in machinery operation at all times. Most accidents are the result of carelessness or negligence. All rotating power transmission products are potentially dangerous and must be guarded by the contractor, installer, purchaser, owner, and user as required by applicable laws, regulations, standards, and good safety practice. Additional specific information must be obtained from other sources including the latest editions of American Society of Mechanical Engineers; Standard A.N.S.I. B15.1. A copy of this standard may be obtained from the American Society of Mechanical Engineers at 345 East 47th Street, New York, NY 10017 (212-705-7722).

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate the parts or components manufactured and supplied by *Martin* Sprocket & Gear, Inc., in such a manner as to comply with the Williams-Steiger Occupational Safety Act and with all state and local laws, ordinances, regulations, and the American National Standard Institute Safety Code.

CAUTION

Guards, access doors, and covers must be securely fastened before operating any equipment.

If parts are to be inspected, cleaned, observed, or general maintenance performed, **the motor driving the part or components is to be locked out electrically in such a manner that it cannot be started by anyone**, however remote from the area. Failure to follow these instructions may result in personal injury or property damage.

WARNING

NOTE: CATALOG DIMENSIONS

Every effort is made to keep all catalog dimensions and styles current in the catalog, however from time to time, it is necessary because of manufacturing changes to alter stock products dimensionally.

If any stock product dimension or style shown in this catalog is critical to your application please consult factory for certification.



Engineered Class Sprockets Steel Cut and Cast Iron



Martin's Engineering Class Sprockets are manufactured to the highest quality standards. *Martin* offers Engineering Class Sprockets in both Flame Cut (Accu-Torch) and Cast Iron.

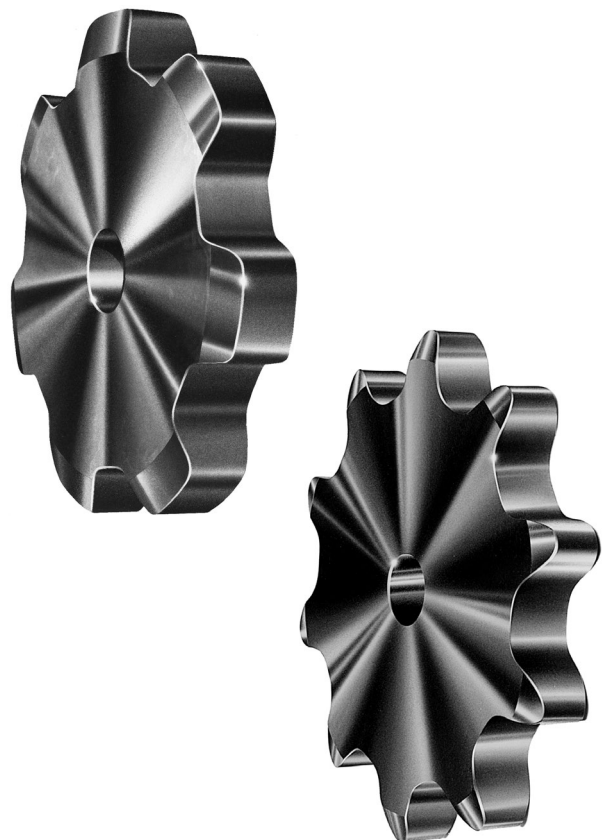
ASME Standard Torch Profiles – Elongated Root Design promotes a self-cleaning effect of the root to keep your demanding applications moving.

These sprockets are available in A, B, and C Hub Types:

- A style (no hub) typically used in weld-on applications.
- B style (hub one side) is used in applications where clearance width is narrow (these are typically more economical than C style).
- C style (hub both sides) which is used in applications where B style is not wide enough to withstand torques produced by drive.

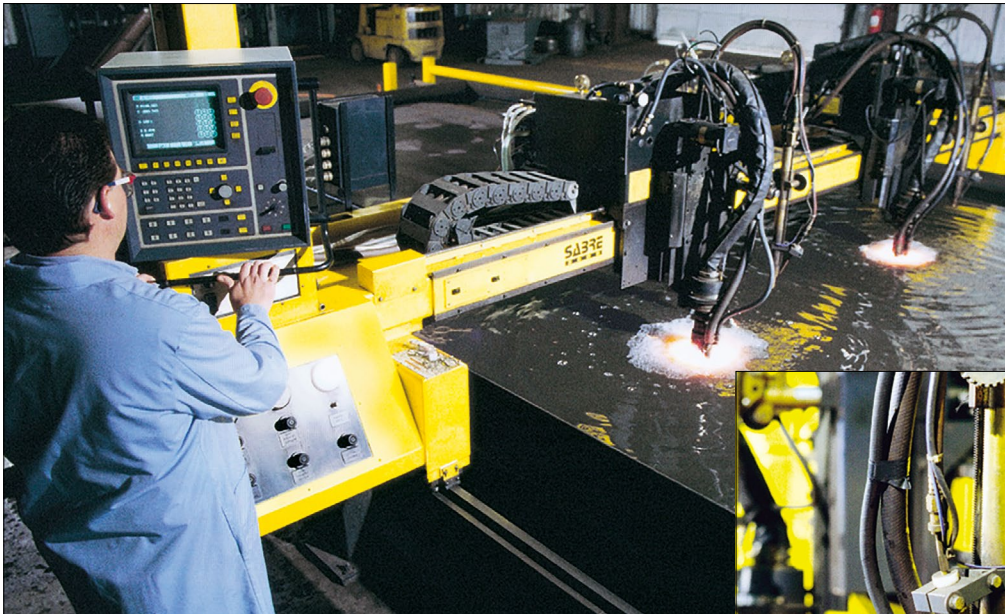
Martin also offers Split Style construction. The split style allows for easy removal or installation. They can be used in nearly all applications. The shaft/keyway security is much tighter than a typical setscrew mount.

Flame hardening, induction heat treating, and chilled rim are available for longer wear life.



Steel Accu-Torch® Sprockets for Engineering Chain

Martin



Martin Accu-Torch® steel sprockets are available for virtually all engineering class chains in style A, B, and C. Also available as split with welded hub and split or solid detachable hub. May also be furnished as shear pin type. Send us your inquiries.

Where possible please specify chain number, pitch diameter, number of teeth, bore and keyway size, and hub style required.

Accu-Torch® sprockets are not intended to replace cut tooth roller chain sprockets.

MTO Engineered Class Sprockets



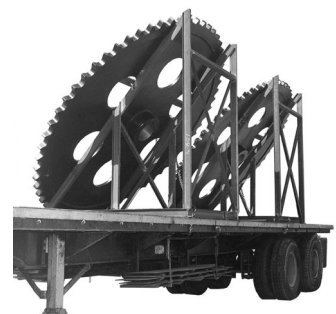
**ALL STEEL
WIDE DRAG SPROCKET**



**SPLINED MUD
RELIEF
ACCU-TORCH®**



**SPECIAL ACCU-TORCH®
FOR SEWAGE TREATMENT**



**10 FT. DIAMETER ACCU-TORCH®
FOR PAPER MILLS**

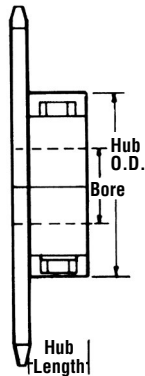
For quality and dependable service, call *Martin* for all your made-to-order requirements.

Martin Instant Split® / Accu-Torch® sprockets offer unlimited design and are simply installed with a hand wrench... greatly reducing costly downtime.



Accu-Torch® Size for Instant Split® Hubs

Split Hub Number	Bore (mm)	Minimum Number of Teeth										
		Chain Number/Pitch										
		62	78	1568	1030	82	238	124	1240	635	1207	132
		42,012	66,269	77,902	78,105	78,105	88,900	101,600	103,200	114,300	127,000	153,670
S-1	19.05 - 38.10	9	7									
S-2	34.93 - 57.15	12	8	8	8	7	8	6	7			
S-3	50.80 - 76.20	15	18	10	9	9	9	7	8	8		
S-4	69.85 - 101.60	18	12	12	11	11	10	9	9	9	8	
S-5	95.25 - 127.00	21	14	13	13	12	12	10	10	10	9	7
S-6	120.65 - 152.40	23	15	14	14	13	13	11	11	11	10	8
S-7	146.05 - 177.80	27	18	16	16	15	15	12	13	12	11	9
S-8	158.75 - 203.20	31	20	18	18	17	16	14	14	14	13	10

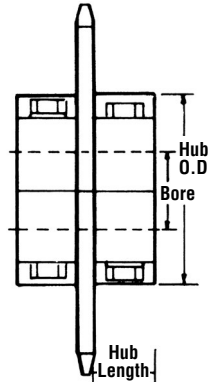


Pricing Example Style B

1030B25 Split with S-3 Hub,
2.938" Bore, KW and SS

S-3 Hub
1030A25 Plate

See Hub List
[See Plate List](#)
Total Price List



Pricing Example Style B

1030B25 Split with S-3 Hub,
2.938" Bore, KW and SS

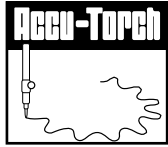
Two S-3 Hubs
1030A25 Plate

See Hub List
[See Plate List](#)
Total Price List

Instant Split Hubs are for use
with Plate Sprockets only.

Hub Number	Bore (mm)	Hub O.D. (mm)	Hub ★ Length (mm)	Bolts (mm)	Weight (Kilos)
S-1	19.05 - 38.10	79,375	25.40	9.525x57.15	0.82
S-2	34.93 - 57.15	111,125	31.75	12.7x76.2	1.86
S-3	50.80 - 76.20	152,400	34.93	15.875x114.3	3.82
S-4	69.85 - 101.60	193,675	38.10	19.05x139.7	6.55
S-5	95.25 - 127.00	234,950	50.80	25.4x152.4	12.64
S-6	120.65 - 152.40	260,350	57.15	25.4x152.4	16.09
S-7	146.05 - 177.80	317,500	63.50	25.4x177.8	29.27
S-8	158.75 - 203.20	368,300	76.20	25.4x203.2	44.77

★ Add hub length to plate thickness to determine length thru bore.



Solid and Split Detachable Hubs

Martin

TYPE D SPROCKETS — STOCK DETACHABLE HUBS

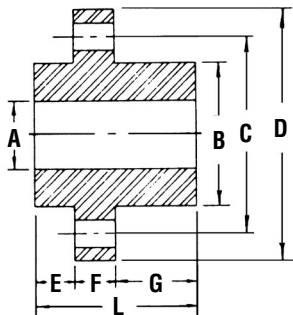
Type D sprockets consist of a Type A plate sprocket bolted to a detachable hub. A solid or split plate sprocket may be assembled to a solid or split hub. When ordering a Type D sprocket, be sure to select a plate sprocket large enough to allow chain clearance over the hub flange diameter, dimension D.

Bolt holes of Type D hubs are drilled for interchangeability. Speed ratios may be changed simply by removing the plate sprocket and substituting another with a different number of teeth. When worn, the sprocket may be reversed to use the unworn tooth surfaces, increasing the life of the sprocket.

Solid Hub – Steel – Dimensions (mm)

Hub Number	Bore Range A		Hub Diameter B	Bolt Circle C	Flange Diameter D	Bolt Holes		E	F	G★	L
	Stock	Maximum				Number	Bolt Size				
101	15.88	44.45	63.5	85.73	107.95	6	9.53	12.70	9.53	28.58	50.80
102	36.53	50.80	76.2	101.60	127.00	6	11.13	12.70	12.70	38.10	63.50
103	46.05	63.50	101.6	128.60	152.40	6	12.70	12.70	15.88	41.28	69.85
104	58.75	76.20	114.3	146.05	177.80	6	15.88	12.70	19.05	50.80	82.55
105	65.10	82.55	127.0	158.75	190.50	6	15.88	14.30	23.83	63.50	101.60
106	71.45	95.25	139.7	177.80	215.90	6	15.88	15.88	25.40	60.33	101.60
107	84.15	101.60	152.4	190.50	228.60	6	15.88	15.88	31.75	60.33	107.95
108	90.50	114.30	177.8	219.08	263.53	6	19.05	15.88	34.93	63.50	114.30
109	103.20	177.80	266.7	330.20	393.70	6	25.40	19.05	38.10	69.85	127.00

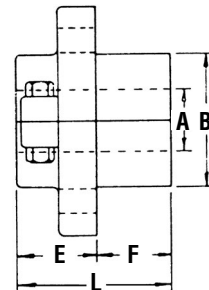
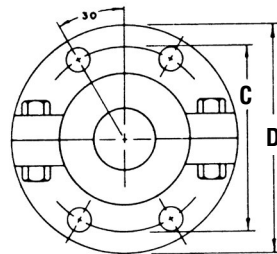
★ Maximum bores shown are maximum bores with standard keyseat and setscrew.



ALTERATION CHARGES

See current list price and discount sheet for alteration charges.

The List Price as shown in the List Price Book is for hub with stock bore. To obtain the price of a complete Type D sprocket add the List Price of hub plus alteration charges and the List Price of the desired Type A plate sprocket, including rebores, bolt hole drilling, and splitting charge if desired.

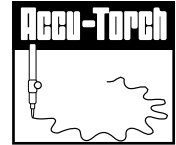


Solid Hub – Steel – Dimensions (mm)

Hub Number	Bore Range A		Hub Diameter B	Bolt Circle C	Flange Diameter D	Bolt Holes		E	F★	L	L
	Stock	Maximum				Number	Bolt Size				
102S	33.35	38.10	76.20	101.60	127.00	4	11.13	44.45	34.93	79.38	50.80
103S	39.70	57.15	101.60	128.60	152.40	4	12.70	50.80	38.10	88.90	63.50
104S	58.75	63.50	114.30	146.05	177.80	4	15.88	57.15	44.45	101.60	69.85
105S	65.10	69.85	127.00	158.75	190.50	4	15.88	57.15	47.63	104.78	82.55
106S	71.45	82.55	139.70	177.80	215.90	4	15.88	63.50	50.80	114.30	101.60
107S	84.15	88.90	152.40	190.50	228.60	4	15.88	76.20	44.45	120.65	101.60
108S	90.50	101.60	177.80	219.08	263.53	4	19.05	85.73	47.63	133.35	107.95
109S	103.20	152.40	266.70	330.20	393.70	4	25.40	104.78	44.45	149.23	114.30

Maximum bores shown are maximum bores with standard keyseat and setscrew.

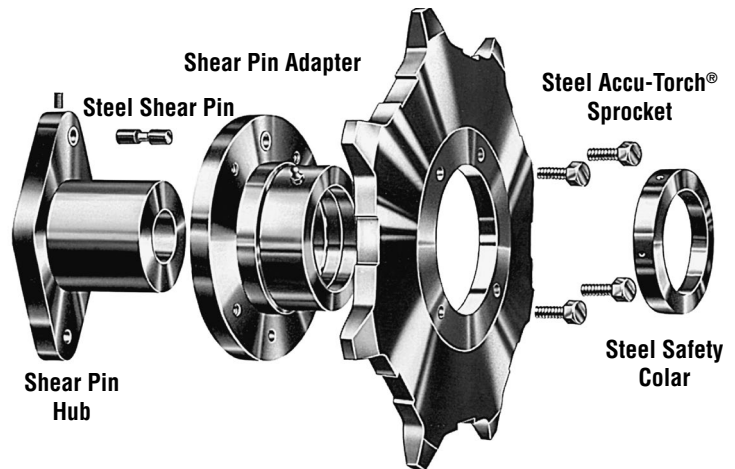
★ Plate thickness of Accu-Torch® not recommended if larger than dimension listed



Shear pin sprockets provide simple, dependable protection against expensive machinery damage caused by overloads or jamming. Torque is transmitted by a single pin, necked to shear when the safe load is exceeded. When an overload occurs, the pin shears, disconnecting the drive immediately.

The Bolt-On Shear Pin Adapter converts any plate sprocket into a stock shear pin sprocket allowing immediate delivery of stock shear pin sprockets.

Selection guide on page E-95 gives complete procedure to select the proper shear pin assembly.



Stock Shear Pin Assemblies

Shear Pin Assembly Part Number	Hub Bore Range (mm)	Shear Pin Hub Part Number	Shear Pin Adapter Part Number
SP-17	25.4 and UNDER	SPH-17	SPA-17
SP-18	27.00 - 31.75	SPH-18	SPA-18
SP-19	33.35 - 38.10	SPH-19	SPA-19
SP-20	39.70 - 44.45	SPH-20	SPA-20
SP-21	46.05 - 50.80	SPH-21	SPA-21
SP-22	52.40 - 57.15	SPH-22	SPA-22
SP-23	58.75 - 63.50	SPH-23	SPA-23
SP-24	65.10 - 69.85	SPH-24	SPA-24
SP-25	71.45 - 76.20	SPH-25	SPA-25
SP-26	77.80 - 88.90	SPH-26	SPA-26
SP-27	90.50 - 101.60	SPH-27	SPA-27
SP-28	103.20 - 114.30	SPH-28	SPA-28
SP-29	115.90 - 127.00	SPH-29	SPA-29
SP-30	123.83 - 139.70	SPH-30	SPA-30
SP-31	141.30 - 152.40	SPH-31	SPA-31

NOTES ON PRICING:

Shear Pin Hub List Price includes any finished bore within the stated range, standard keyway and setscrew, hardened steel shear pin bushing.

Shear Pin Adapter List Price includes the shear pin bushing, grease fitting.

Complete Assembly List Price includes all components of the shear pin assembly as described above. Total list price of any shear pin sprocket is the complete assembly list price plus the list price of the desired plate sprocket (from tables of stock sprocket list prices).

Replacement Sprockets should be priced as altered stock sprockets directly from List Price and Alteration Charge tables.

Shear Pin Components may be ordered separately and will be treated as stock items when conforming to standard specifications and descriptions above.

PRICING EXAMPLES:

1. Stock Shear Pin Accu-Torch® Sprocket

To price a 25 tooth shear pin sprocket for 1030 chain (1030SP25) using SP-26 shear pin assembly with 87,325mm bore, standard keyway and setscrew:

SP-26 Assembly	See List Price Sheet
1030A25	

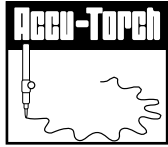
2. Shear Pin Adapter and Sprocket for Existing Hub

To price a "Bolt-on" shear pin adapter and sprocket to replace the sprocket part of existing 78A12 using SP-20 hub:

SPA-20 Adapter	See List Price Sheet
78A12	

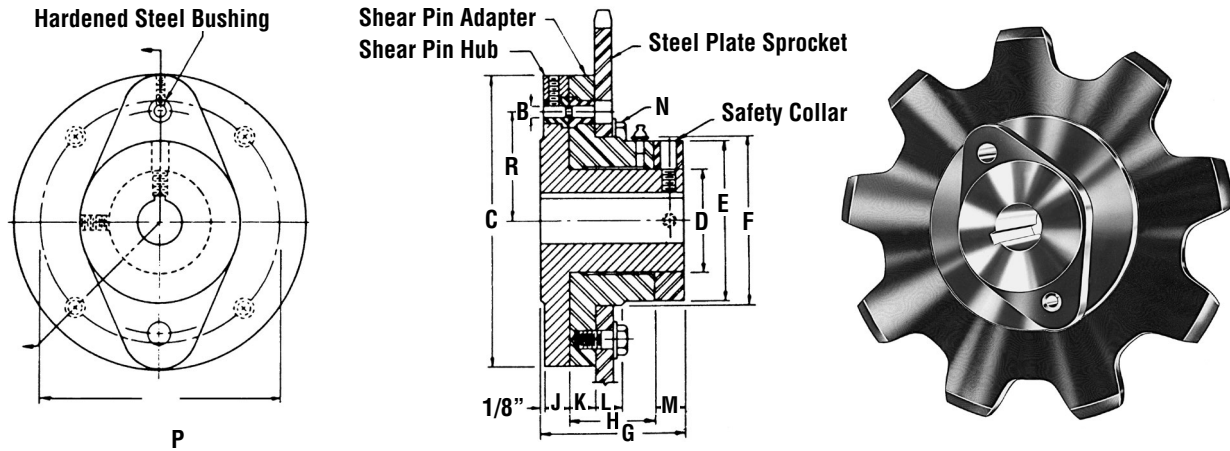
Shear Pin Sprockets can also be furnished in other standard styles or made to customers specifications. Price on application.

It is important that torque requirement for selected hub be checked in torque rating on page F-9 and neck diameter of shear pins be specified.



Bolt-On Shear Pin Accu-Torch® Sprockets

Martin



Sprocket Sizes for Stock Shear Pin Assemblies

Shear Pin Assembly Number	Hub Bore Range (mm)	Minimum Number of Teeth										
		Chain Number/Pitch										
		62	78	1568	1030	82	238	124	1240	635	1207	132
		42	66	78	78	78	89	102	103	114	127	154
SP-19	33.35 - 38.10	16									AVAILABLE AS MADE TO ORDER CHECK YOUR NEAREST <i>Martin</i> FACILITY	AVAILABLE AS MADE TO ORDER CHECK YOUR NEAREST <i>Martin</i> FACILITY
SP-20	39.70 - 44.45	17	12									
SP-21	46.05 - 50.80	19	13			11						
SP-22	52.40 - 57.15	21	14	13	13	12	12					
SP-23	58.75 - 63.50	22	15	14	13	13	12	10				
SP-24	65.10 - 69.85	25	16	15	15	14	13	11	12	11		
SP-25	71.45 - 76.20	26	18	16	16	15	14	12	13	12		
SP-26	77.80 - 88.90	28	19	17	17	16	15	13	13	13		
SP-27	90.50 - 101.60	32	21	19	19	18	17	14	15	14		
SP-28	103.20 - 114.30	34	22	20	20	19	18	15	15	15		
SP-29	115.90 - 127.00	36	24	21	21	20	19	16	16	15		
SP-30	123.83 - 139.70	41	27	24	23	23	21	18	18	17		
SP-31	141.30 - 152.40	45	30	26	25	25	23	20	20	19		

Shear Pin Assembly Dimensions (mm)

Shear Pin Assembly Number	Shear Pin		Diameters				Length Thru			Thickness		Sprocket Seat Width	Bolts		Weight Kilos	
	Radius	Pin Diameter	Flange	Shear Pin Hub	Adapter Hub and Collar	Sprocket Seat	Shear Pin Hub	Adapter	Collar	Hub Flange	Adapter Flange		Number and Size	Bolt Circle	Shear Pin Hub	Shear Pin Adapter
	A	B	C	D	E	F	G	H	M	J	K	L	N	P		
SP-19	65.10	7.95	171.45	69.85	101.60	104.78	90.50	53.98	15.88	17.48	17.48	17,475	101.6-12.70	139.70	3.27	3.45
SP-20	76.20	9.53	196.85	82.55	120.65	123.83	106.38	63.50	19.05	20.65	20.65	17,475	101.6-12.70	158.75	5.00	5.41
SP-21	84.15	11.13	222.25	95.25	133.35	136.53	122.25	73.03	22.23	23.83	23.83	23,825	101.6-15.88	177.80	7.36	7.68
SP-22	96.85	12.70	247.65	107.95	158.75	161.93	131.78	76.20	25.40	17.48	17.48	20,650	101.6-15.88	203.20	10.59	11.14
SP-23	101.60	12.70	254.00	114.30	165.10	168.28	144.48	88.90	25.40	17.48	17.48	34,925	101.6-15.88	209.55	11.95	12.59
SP-24	111.13	14.30	292.10	127.00	177.80	180.98	160.35	98.43	28.58	20.65	20.65	34,925	101.6-15.88	234.95	18.36	17.55
SP-25	123.83	15.88	317.50	139.70	203.20	206.38	176.23	107.95	31.75	23.83	23.83	34,925	152.4-15.88	260.35	23.91	24.36
SP-26	134.95	17.48	342.90	158.75	222.25	225.43	198.45	149.23	41.28	36.53	36.53	34,925	152.4-15.88	285.75	30.32	30.36
SP-27	154.00	19.05	393.70	177.80	254.00	257.18	220.68	139.70	38.10	39.70	38.10	34,925	152.4-15.88	323.85	43.86	45.45
SP-28	163.53	19.05	412.75	196.85	273.05	276.23	246.08	165.10	38.10	39.70	38.10	34,925	152.4-19.05	342.90	56.82	52.27
SP-29	180.98	22.23	444.50	215.90	304.80	307.98	271.48	177.80	44.45	46.05	38.10	44,450	152.4-25.40	374.65	72.73	68.18
SP-30	206.38	25.40	514.35	247.65	349.25	352.43	296.88	190.50	50.80	52.40	38.10	44,450	152.4-25.40	431.80	97.73	94.09
SP-31	225.43	28.58	571.50	273.05	381.00	384.18	328.63	209.55	57.15	58.75	38.10	44,450	152.4-25.40	476.25	144.55	120.45



Shear Pin Sprocket Selection

1. The shear pin assembly required is determined by the shaft size. Select the smallest shear pin assembly which will accommodate the required bore. Table on page 130 contains the bore ranges and minimum sprocket sizes which allow chain clearance over the shear pin assembly flange.
2. Using one of the following formulas, compute the torque load the pin must transmit and enter the torque rating table below to obtain the proper shear pin neck diameter.

$$T = \frac{P \times .9550 \times 1.5}{\text{RPM}}$$

or T = Output of reducer x speed ratio of chain drive x 1.5

Where:

T	=	Torque in N.m
P	=	Power of sprocket (kw)
RPM	=	Sprocket speed
D	=	Pitch diameter of sprocket
1.5	=	Safety factor for starting load

Example:

1. Determine the shear pin assembly and pin neck diameter to transmit 14.92 kw at 67 RPM with a 36 tooth, No. 62 sprocket on a 74.625mm shaft.

(1) Referring to Table I, shear pin assembly SP-25 is required for a 74.625mm bore. The 36 tooth sprocket is well above the minimum size.

(2) Torque and neck diameter :

$$T = \frac{P \times .9550 \times 1.5}{\text{RPM}}$$

$$T = \frac{14.92 \times .9550 \times 1.5}{67} = .3190 \text{ N.m}$$

Referring to Table II under SP-25, a pin necked to 9.525mm shows a torque rating of 3369 N.m in., which exceeds the .3190 N.m in. required.

(3) Order: 62SP36, SP-25 assembly with 74.629mm bore and 9.525mm pin neck diameter.

Shear Pin Assembly Dimensions (mm)

Shear Pin Neck Diameter (mm)	Torque Rating - (Nm)												
	Shear Pin Hub Number												
	SP19 (Nm)	SP20 (Nm)	SP21 (Nm)	SP22 (Nm)	SP23 (Nm)	SP24 (Nm)	SP25 (Nm)	SP26 (Nm)	SP27 (Nm)	SP28 (Nm)	SP29 (Nm)	SP30 (Nm)	SP31 (Nm)
2.39	115.49	136.05	149.50	175.83	181.14								
3.18	197.98	233.23	256.28	295.61	310.52								
3.96	313.46	369.28	405.78	468.05	491.66	536.75							
4.78	445.45	558.67	576.64	665.12	698.68	762.75	826.82						
5.56	610.43	719.13	790.21	911.46	957.45	1045.25	1133.05						
6.35	824.90	971.80	1067.85	1231.70	1293.85	1412.50	1531.15	1717.60	1954.90	2079.20			
7.14	1022.88	1205.03	1324.13	1527.31	1604.37	1751.50	1898.63	2129.82	2424.08	2578.21			
7.95	1253.85	1477.14	1623.13	1872.18	1966.54	2147.00	2327.35	2614.82	2971.45	3160.38	3495.32		
8.74		1788.11	1964.84	2266.33	2380.68	2599.00	2817.32	3160.38	3597.02	3825.73	4230.72		
9.53		2137.96	2349.27	2709.74	2846.47	3107.50	3368.53	3778.72	4300.78	4574.24	5059.01	5767.52	
10.31			2776.41	3202.42	3296.21	3672.50	3980.99	4465.76	5082.74	5405.92	5978.83	6816.16	
11.13			3203.55	3695.10	3881.55	4237.50	4706.45	5152.80	5864.70	6237.60	6898.65	7864.80	
11.91				4187.78	4399.09	4802.50	5205.91	5839.84	6646.66	7069.28	7818.47	8913.44	
12.70				4828.26	5071.89	5537.00	6002.11	6732.99	7663.21	8150.48	9014.24	10276.67	
13.49						6215.00	6737.06	7557.44	8601.56	9148.48	10118.02	11535.04	
14.30						7006.00	7602.64	8519.30	9696.30	10312.83	11405.77	13003.14	
15.09							8273.86	9275.04	10556.46	11227.68	12417.57	14156.64	15468.57
15.88							9356.40	10477.36	11924.89	12683.12	14027.26	15991.76	17473.76
16.66								11679.68	13293.32	14251.56	15636.94	17826.88	19478.94
17.48								12710.24	14466.26	15386.08	17016.67	19399.84	21197.67
18.26									15639.20	16633.60	18396.40	20972.80	22916.40
19.05									17203.12	18296.96	20236.04	23070.08	25208.04
19.84											22075.68	25167.36	27499.68
20.65											23915.32	27264.64	29791.32
21.44											25754.96	29361.92	32082.96
22.23											27594.60	31459.20	34374.60
23.01												33556.48	36666.24
23.83												34080.80	37239.15
24.61												38275.36	41822.43
25.40												41945.60	45832.80
27.00													50416.08
28.58													57291.00



Flame Cut Sprockets for Engineering Chains

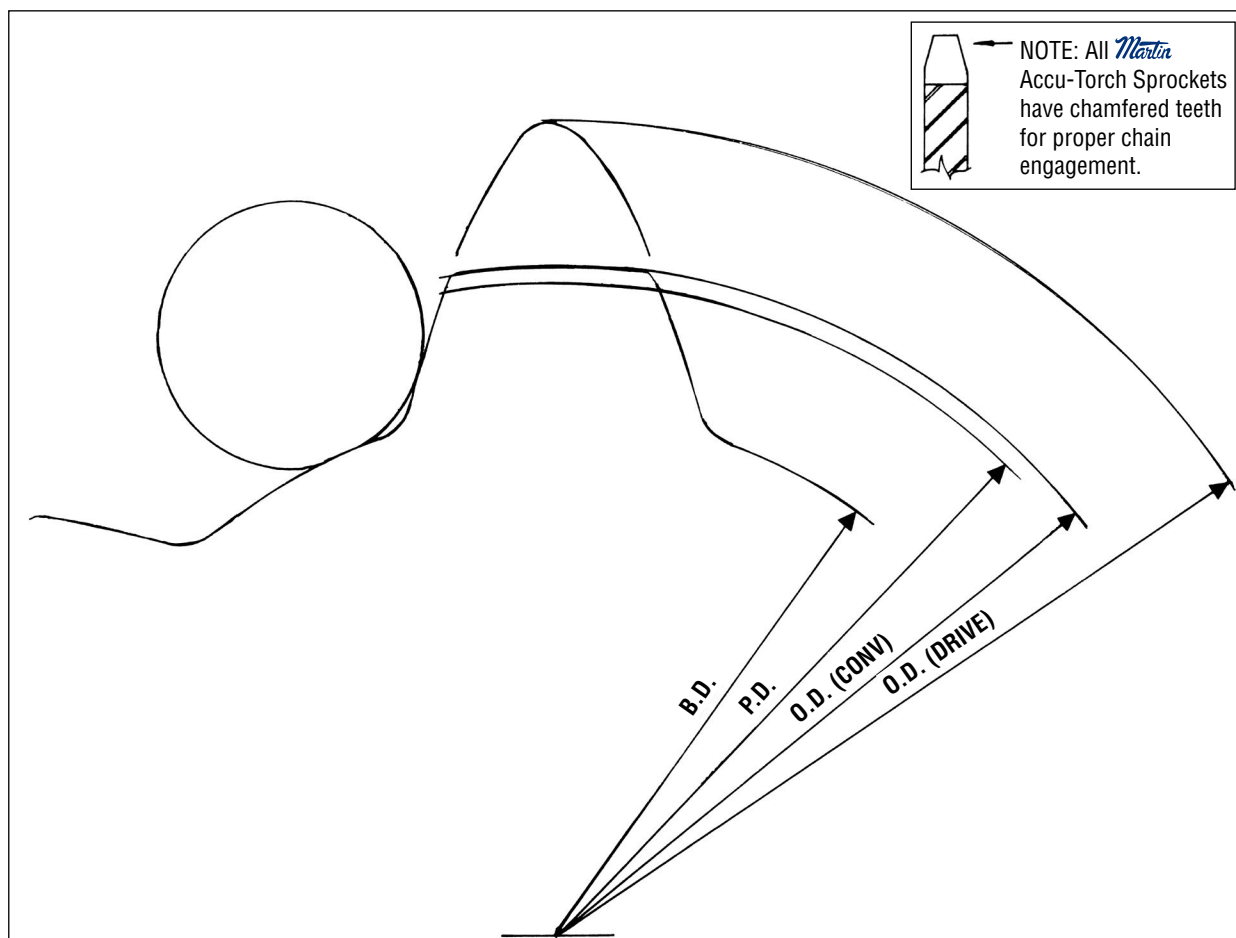
Martin



Conveyor Style Tooth for Chains:
78 — 82 — 124 — 132



Driver Style Tooth for Chains:
62 — 1568 — 1030 — 238 — 1240 — 635 — 1207

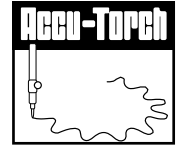


Accu-Torch Sprockets are not intended to replace cut tooth roller chain sprockets.

NOTE: For style other than Type "C" or Type "A", or Tooth Size not shown, consult factory for price. See Current List Price Sheet for Stock Pricing.



Flame Cut Sprockets for Engineering Chains


62

FLAME CUT SPROCKETS FOR CHAINS: 062, 072, 162, 162 R, 2, 378 R, 402 RX, 62 CAST, 62 H, 62 Steel, 62A, 72 1/2, 962, H 62, HF 62 A, IS 620, LXS 627, R 362, R432, RR 362, RR 432, US 620, US 622

Type C – 42.012 mm Pitch

PLATE THICKNESS 19.05 mm
ROLLER DIAMETER 20.638 mm

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (Kilos)	Catalog Number	Stock Bore	Approximate Weight (Kilos)
12	62C12	162.31	23.83	69.85	107.95	79.38	7.18	62A12	23.83	3.09
13	62C13	175.51	23.83	82.55	120.65	76.20	8.82	62A13	23.83	3.64
14	62C14	188.72	23.83	82.55	120.65	76.20	9.36	62A14	23.83	4.18
15	62C15	202.18	23.83	82.55	120.65	76.20	10.00	62A15	23.83	4.77
17	62C17	228.60	23.83	82.55	120.65	76.20	10.91	62A17	23.83	5.45
19	62C19	255.27	23.83	82.55	120.65	76.20	12.73	62A19	23.83	7.64
20	62C20	268.48	23.83	82.55	120.65	76.20	13.64	62A20	23.83	8.45
24	62C24	321.82	31.75	95.25	139.70	111.13	22.27	62A24	31.75	11.82
26	62C26	348.49	31.75	95.25	139.70	111.13	24.09	62A26	31.75	13.64
30	62C30	401.83	31.75	95.25	139.70	111.13	29.55	62A30	31.75	19.09
36	62C36	482.09	31.75	95.25	139.70	111.13	37.27	62A36	31.75	26.82
54	62C54	722.63	31.75	95.25	139.70	111.13	56.82	62A54	31.75	61.36
60	62C60	802.64	31.75	95.25	139.70	111.13	62.73	62A60	31.75	76.82

78

FLAME CUT SPROCKETS FOR CHAINS: 433 1/2, 488, 578 R, 588 R, 7188, 75, 78, 81X, 87R, 88, 988, C 188, H 74, H 75, H 78, H 78 LR, (14, 18 TEETH ONLY), H 78 RT, H 78 SR, H 79, IS 880, IS 881, IS 882, LXS 881, LXS 882, LXS 886, LXS 887, R 588, R 778, RR 588, RR 778, S 188, S 78, SS 188, US 278 R, US 881, US 882, XS 578

Type C – 66.269 mm Pitch

PLATE THICKNESS 22.225 mm
ROLLER DIAMETER 22.225 mm

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (Kilos)	Catalog Number	Stock Bore	Approximate Weight (Kilos)
8	78C8	173.23	23.83	82.55	120.65	79.38	9.55	78A8	23.83	4.09
9	78C9	193.80	31.75	87.33	133.35	98.43	13.18	78A9	31.75	5.14
10	78C10	214.38	31.75	87.33	133.35	98.43	14.09	78A10	31.75	6.32
11	78C11	235.20	31.75	87.33	133.35	98.43	15.45	78A11	31.75	7.59
12	78C12	256.03	31.75	87.33	133.35	98.43	16.82	78A12	31.75	9.00
13	78C13	276.86	31.75	95.25	139.70	114.30	20.91	78A13	31.75	10.45
14	78C14	297.69	31.75	95.25	139.70	114.30	22.27	78A14	31.75	12.27
15	78C15	318.77	38.10	95.25	139.70	114.30	24.09	78A15	38.10	13.64
17	78C17	360.68	38.10	95.25	139.70	114.30	28.18	78A17	38.10	17.73
19	78C19	402.59	38.10	114.30	165.10	136.53	40.91	78A19	38.10	22.73
21	78C21	444.75	38.10	114.30	165.10	136.53	45.91	78A21	38.10	27.73
24	78C24	507.75	38.10	114.30	165.10	136.53	54.09	78A24	38.10	35.91
25	78C25	528.83	38.10	114.30	165.10	136.53	56.36	78A25	38.10	38.18
28	78C28	592.07	38.10	114.30	165.10	136.53	60.00	78A28	38.10	47.73
30	78C30	633.98	38.10	114.30	165.10	136.53	68.18	78A30	38.10	55.91
35	78C35	739.39	38.10	114.30	165.10	136.53	77.27	78A35	38.10	75.45
40	78C40	844.55	38.10	125.43	184.15	171.45	102.73	78A40	38.10	98.18
42	78C42	886.71	38.10	125.43	184.15	171.45	109.09	78A42	38.10	109.09
46	78C46	973.07	38.10	125.43	184.15	171.45	117.27	78A46	38.10	130.00
54	78C54	1139.70	38.10	125.43	184.15	171.45	167.27	78A54	38.10	137.27
60	78C60	1266.19	38.10	125.43	184.15	171.45	176.36	78A60	38.10	146.36

78

BORED-TO-SIZE FLAME CUT SPROCKETS

Type C – 66.267 mm Pitch

PLATE THICKNESS 19.05 mm
ROLLER DIAMETER 20.638 mm

Part Number	Pitch Diameter	Approximate Weight (Kilos)	Stock Finished Bores -Includes Keyway and 2 Setscrews						
78CS8	173.23	9.55	36.53	49.23	50.8	55.58	61.93	74.63	-
78CS9	193.80	13.18	36.53	49.23	50.8	55.58	61.93	74.63	-
78CS10	214.38	14.09	36.53	49.23	50.8	55.58	61.93	74.63	87.33
78CS11	235.20	15.45	-	49.23	50.8	55.58	61.93	74.63	87.33
78CS12	256.03	16.82	-	49.23	50.8	55.58	61.93	74.63	87.33
78CS13	276.86	20.91	-	49.23	-	55.58	61.93	74.63	87.33
78CS14	297.69	22.27	-	49.23	-	55.58	61.93	74.63	87.33

Please contact Martin if Hub OD and Length Thru Bore dimensions are critical. These parts have setscrews at 90 degrees and 180 degrees instead of over keyway and 90 degrees.



Flame Cut Sprockets for Engineering Chains

Martin

1568

FLAME CUT SPROCKETS FOR CHAINS: 1803 A, 1803 AB, AX 1568, IS 3010, IS 3011, JS 3011, LXS 3011, LXS 3011 M, MXS 3011, SS 568, US 3011, X568, XX 568

Type C – 77.902 mm Pitch

**PLATE THICKNESS 31.75 mm
ROLLER DIAMETER 41.275 mm**

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (Kilos)	Catalog Number	Stock Bore	Approximate Weight (Kilos)
10	1568C10	251.97	38.1	95.25	139.7	107.95	20.91	1568A10	38.1	12.73
12	1568C12	300.99	38.1	95.25	139.7	107.95	26.36	1568A12	38.1	18.18
14	1568C14	350.01	38.1	95.25	139.7	107.95	33.18	1568A14	38.1	24.09
30	1568C30	745.24	38.1	114.30	165.1	146.05	98.64	1568A30	38.1	109.09
36	1568C36	893.83	38.1	136.53	190.5	149.23	116.82	1568A36	38.1	131.82
42	1568C42	1042.42	38.1	139.70	203.2	155.58	185.00	1568A42	38.1	154.55
48	1568C48	1191.01	38.1	139.70	203.2	155.58	203.64	1568A48	38.1	173.18

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

1030

FLAME CUT SPROCKETS FOR CHAINS: 1030 , 1037, 1190, 1190 R, 1539, API 3, CHAMPION NO.3, IS 1030, IS 1031, IS 1032, IS 1037,LXS 1031, LXS 1032, R 1033, R 1035, SS 40, SS40 Hyp, SXX, US 1031, US 1032

Type C – 78.105 mm Pitch

**PLATE THICKNESS 31.75 mm
ROLLER DIAMETER 31.75 mm**

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (Kilos)	Catalog Number	Stock Bore	Approximate Weight (Kilos)
8	1030C8	204.47	31.75	82.55	127.0	98.43	14.09	1030C8	31.75	8.14
9	1030C9	228.35	31.75	82.55	127.0	98.43	16.36	1030A9	31.75	10.18
10	1030C10	252.73	31.75	82.55	127.0	98.43	18.18	1030A10	31.75	12.73
11	1030C11	277.11	38.10	95.25	139.7	107.95	23.18	1030A11	38.10	15.00
12	1030C12	301.75	38.10	95.25	139.7	107.95	25.91	1030A12	38.10	17.73
13	1030C13	326.39	38.10	95.25	139.7	107.95	29.09	1030A13	38.10	20.91
15	1030C15	375.67	38.10	101.60	152.4	130.18	41.36	1030A15	38.10	27.27
17	1030C17	424.94	38.10	101.60	152.4	130.18	49.55	1030A17	38.10	35.45
19	1030C19	474.47	38.10	114.30	165.1	146.05	62.27	1030A19	38.10	44.09
21	1030C21	524.00	38.10	114.30	165.1	146.05	71.82	1030A21	38.10	53.64
24	1030C24	598.42	38.10	114.30	165.1	146.05	80.00	1030A24	38.10	70.00
25	1030C25	623.06	38.10	136.53	190.5	149.23	93.64	1030A25	38.10	75.91
28	1030C28	697.48	38.10	136.53	190.5	149.23	107.27	1030A28	38.10	95.45
30	1030C30	747.27	38.10	136.53	190.5	149.23	115.45	1030A30	38.10	109.09
35	1030C35	871.22	38.10	139.70	203.2	155.58	142.27	1030A35	38.10	148.64
40	1030C40	995.43	38.10	139.70	203.2	155.58	163.64	1030A40	38.10	194.09
42	1030C42	1045.21	38.10	139.70	203.2	155.58	186.36	1030A42	38.10	155.91
48	1030C48	1194.56	38.10	165.10	241.3	171.45	227.73	1030A48	38.10	174.55
54	1030C54	1343.41	38.10	165.10	241.3	171.45	249.55	1030A54	38.10	196.36
60	1030C60	1492.25	38.10	177.80	254.0	190.50	291.82	1030A60	38.10	230.00

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



Flame Cut Sprockets for Engineering Chains



82

FLAME CUT SPROCKETS FOR CHAINS: 103, 131, 382, 4103, , 527R, 527RX, 6131 C131. C9103. ER131. H 82. S 131. SB02103, SBS131, SCA9103, SS 131, WH82, WH9103HD, WS 82, WS 82 H

Type C – 78.105 mm Pitch

PLATE THICKNESS 28.575 mm
ROLLER DIAMETER 30.963 mm

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (Kilos)	Catalog Number	Stock Bore	Approximate Weight (Kilos)
7	82C7	180.09	20.65	74.63	114.30	98.43	10.91	82A7	21	5.73
8	82C8	204.22	31.75	95.25	133.35	104.78	15.45	82A8	32	7.27
9	82C9	228.35	31.75	95.25	133.35	104.78	17.27	82A9	32	9.09
10	82C10	252.73	31.75	95.25	133.35	104.78	19.55	82A10	32	11.36
11	82C11	277.11	31.75	100.03	146.05	111.13	24.55	82A11	32	13.64
12	82C12	301.75	31.75	100.03	146.05	111.13	27.27	82A12	32	16.36
13	82C13	326.39	31.75	100.03	146.05	111.13	30.00	82A13	32	19.09
14	82C14	351.03	31.75	100.03	146.05	111.13	32.73	82A14	32	21.82
15	82C15	375.67	38.10	114.30	165.10	142.88	42.73	82A15	38	24.55
16	82C16	400.30	38.10	114.30	165.10	142.88	46.36	82A16	38	28.18
17	82C17	424.94	38.10	114.30	165.10	142.88	50.00	82A17	38	31.82
18	82C18	449.83	38.10	114.30	165.10	142.88	54.09	82A18	38	35.91

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

82

BORED-TO-SIZE FLAME CUT SPROCKETS

Type C – 78.105 mm Pitch

PLATE THICKNESS 28.575 mm
ROLLER DIAMETER 30.963 mm

Part Number	Pitch Diameter	Approximate Weight (Kilos)	Stock Finished Bores-Includes Keyway and 2 Setscrews	
82CS10	252.73	19.55	61.93	74.63
82CS11	277.11	24.55	61.93	74.63
82CS12	301.75	27.27	61.93	74.63

Please contact [Martin](#) if Hub OD and Length Thru Bore dimensions are critical.

238

FLAME CUT SPROCKETS FOR CHAINS: 1616 A, IS 3514 J, LXS 3514, LXS 3514 M, MXS 3514, RX 238, US 3514

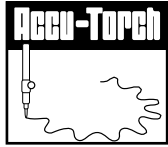
Type C – 88.9 mm Pitch

PLATE THICKNESS 31.75 mm
ROLLER DIAMETER 44.45 mm

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore(mm)	Hub Diameter(mm)	L.T.B.(mm)	Approximate Weight (Kilos)	Catalog Number	Stock Bore(mm)	Approximate Weight (Kilos)
10	238C10	287.78	38.1	95.25	139.7	107.95	24.55	238A10	38.1	15.91
12	238C12	343.41	38.1	95.25	139.7	107.95	31.82	238A12	38.1	23.18
14	238C14	399.54	38.1	95.25	139.7	107.95	40.00	238A14	38.1	27.27
30	238C30	850.39	38.1	101.60	152.4	130.18	141.82	238A30	38.1	115.00
36	238C36	1020.06	38.1	101.60	152.4	130.18	202.27	238A36	38.1	168.18
42	238C42	1189.74	38.1	139.70	203.2	155.58	202.73	238A42	38.1	172.27
48	238C48	1359.41	38.1	139.70	203.2	155.58	235.00	238A48	38.1	204.55

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



Flame Cut Sprockets for Engineering Chains

Martin

124

FLAME CUT SPROCKETS FOR CHAINS: H 124, W 124, WH 124, WR 124, WS 124

Type C – 101.6 mm Pitch

**PLATE THICKNESS 38.1 mm
ROLLER DIAMETER 38.1 mm**

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (Kilos)	Catalog Number	Stock Bore	Approximate Weight (Kilos)
6	124C6	203.20	23.83	82.55	120.65	117.48	16.36	124A6	23.83	9.55
7	124C7	234.19	25.40	100.03	146.05	120.65	23.64	124A7	25.40	12.73
8	124C8	265.43	25.40	100.03	146.05	120.65	27.73	124A8	25.40	16.82
9	124C9	297.18	25.40	100.03	146.05	120.65	31.82	124A9	25.40	20.91
10	124C10	328.68	25.40	100.03	146.05	120.65	35.91	124A10	25.40	25.00
11	124C11	360.68	38.10	107.95	158.75	120.65	43.18	124A11	38.10	30.91
12	124C12	392.43	38.10	107.95	158.75	120.65	48.64	124A12	38.10	36.36
13	124C13	424.69	38.10	107.95	158.75	120.65	54.55	124A13	38.10	42.27
14	124C14	456.69	38.10	107.95	158.75	120.65	61.36	124A14	38.10	49.09
15	124C15	488.70	38.10	111.13	171.45	152.40	76.36	124A15	38.10	56.36
16	124C16	520.70	38.10	111.13	171.45	152.40	84.09	124A16	38.10	64.09

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

124

BORED-TO-SIZE FLAME CUT SPROCKETS

Type C – 101.6 mm Pitch

**PLATE THICKNESS 38.1 mm
ROLLER DIAMETER 38.1 mm**

Part Number	Pitch Diameter	Approximate Weight (Kilos)	Stock Finished Bores-Includes Keyway and 2 Setscrews			
124CS9	297.18	31.82	55.58	61.93	74.63	
124CS10	328.68	35.91		61.93	74.63	87.33
124CS11	360.68	43.18			74.63	87.33
124CS12	392.43	48.64			74.63	87.33

Please contact *Martin* if Hub OD and Length Thru Bore dimensions are critical.

1030

FLAME CUT SPROCKETS FOR CHAINS: 1240, 1244, 3 BAR HYPER,API4, CHAMPION NO.4, IS 1242, IS1425, LXS 1242, LXS 1245,R 1248, SS 124, SS 124 D, SS 124 DP

Type C – 103.20 mm Pitch

**PLATE THICKNESS 44.45 mm
ROLLER DIAMETER 44.45 mm**

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (Kilos)	Catalog Number	Stock Bore	Approximate Weight (Kilos)
6	1240C6	206.50	23.83	63.50	101.60	101.60	15.45	1240A6	23.83	11.82
7	1240C7	237.74	31.75	95.25	133.35	120.65	23.18	1240A7	31.75	15.45
8	1240C8	269.75	38.10	114.30	165.10	127.00	35.45	1240A8	38.10	20.00
9	1240C9	301.75	38.10	114.30	165.10	127.00	40.45	1240A9	38.10	25.00
10	1240C10	334.01	38.10	114.30	165.10	127.00	45.91	1240A10	38.10	30.45
11	1240C11	366.27	38.10	114.30	165.10	127.00	52.27	1240A11	38.10	36.82
12	1240C12	398.78	38.10	133.35	177.80	152.40	63.64	1240A12	38.10	43.64
13	1240C13	431.29	38.10	133.35	177.80	152.40	70.45	1240A13	38.10	50.45
14	1240C14	463.80	38.10	133.35	177.80	152.40	79.09	1240A14	38.10	59.09
15	1240C15	496.32	38.10	133.35	177.80	152.40	87.27	1240A15	38.10	67.27
16	1240C16	529.08	38.10	139.70	203.20	158.75	104.55	1240A16	38.10	76.36
18	1240C18	594.36	38.10	139.70	203.20	158.75	125.00	1240A18	38.10	96.82
20	1240C20	659.64	38.10	139.70	203.20	158.75	136.36	1240A20	38.10	119.55
21	1240C21	692.40	38.10	139.70	203.20	158.75	145.00	1240A21	38.10	131.36
24	1240C24	790.45	38.10	139.70	203.20	158.75	175.91	1240A24	38.10	171.36
25	1240C25	848.87	38.10	152.40	228.60	158.75	193.64	1240A25	38.10	185.91
28	1240C28	921.77	38.10	152.40	228.60	158.75	224.55	1240A28	38.10	231.36
30	1240C30	987.30	38.10	177.80	254.00	171.45	265.00	1240A30	38.10	266.82
35	1240C35	1151.38	38.10	177.80	254.00	171.45	331.36	1240A35	38.10	281.82
40	1240C40	1315.21	38.10	190.50	279.40	196.85	423.64	1240A40	38.10	327.73
48	1240C48	1577.85	38.10	190.50	279.40	196.85	490.00	1240A48	38.10	394.09

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.



Flame Cut Sprockets for Engineering Chains



635

FLAME CUT SPROCKETS FOR CHAINS: 1350, 1340 RX, 450 SX, 450 SXX, B 635, IS 4522, LXS 4522 M, RO 635, X 635

Type C – 114.3 mm Pitch

**PLATE THICKNESS 44.45 mm
ROLLER DIAMETER 57.15 mm**

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (Kilos)	Catalog Number	Stock Bore	Approximate Weight (Kilos)
10	635C10	369.82	38.1	101.60	165.1	127.00	50.45	635A10	38.1	39.55
12	635C12	441.71	38.1	101.60	165.1	127.00	67.27	635A12	38.1	54.09
14	635C14	513.59	38.1	101.60	165.1	127.00	85.45	635A14	38.1	72.27
30	635C30	1093.47	38.1	136.53	190.5	149.23	269.09	635A30	38.1	246.36
36	635C36	1311.40	38.1	136.53	190.5	149.23	347.27	635A36	38.1	325.00
42	635C42	1529.59	38.1	165.10	241.3	184.15	401.82	635A42	38.1	352.73
48	635C48	1747.77	38.1	190.50	279.4	184.15	533.64	635A48	38.1	437.73

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

1207

FLAME CUT SPROCKETS FOR CHAINS: 1510 XX, 1602 A, 1602 AA, A 1302, JS 5031, LXS 5028, LXS 6038 M, MXS 5028, RO 1205,RX 1207, US 5201 A

Type C – 127.00 mm Pitch

**PLATE THICKNESS 44.45 mm
ROLLER DIAMETER 57.15 mm**

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore	Hub Diameter	L.T.B.	Approximate Weight (Kilos)	Catalog Number	Stock Bore	Approximate Weight (Kilos)
10	1207C10	410.97	38.1	114.30	165.1	139.70	72.73	1207A10	38.1	59.55
12	1207C12	490.73	38.1	114.30	165.1	139.70	97.73	1207A12	38.1	85.00
14	1207C14	570.74	38.1	136.53	190.5	149.23	135.45	1207A14	38.1	115.45
30	1207C30	1215.14	38.1	152.40	228.6	171.45	367.73	1207A30	38.1	331.82
36	1207C36	1457.20	38.1	177.80	254.0	215.90	527.73	1207A36	38.1	465.91
42	1207C42	1699.51	38.1	177.80	254.0	215.90	565.91	1207A42	38.1	504.09
48	1207C48	1941.83	38.1	190.50	279.4	260.35	911.36	1207A48	38.1	815.45

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

132

FLAME CUT SPROCKETS FOR CHAINS: 6150, 150 X, A 132, A 132 WS, C 132, C 132 M, C 132 W, SX 150, SXA

Type C – 153.67 mm Pitch

**PLATE THICKNESS 69.85 mm
ROLLER DIAMETER 43.66 mm**

Type A

Number of Teeth	Catalog Number	Pitch Diameter	Stock Bore	Max. Bore(mm)	Hub Diameter(mm)	L.T.B.(mm)	Approximate Weight (Kilos)	Catalog Number	Stock Bore(mm)	Approximate Weight (Kilos)
6	132C6	307.34	38.1	114.30	165.1	152.40	54.09	132A6	38.1	40.91
7	132C7	354.33	38.1	114.30	165.1	152.40	67.73	132A7	38.1	54.55
8	132C8	401.57	38.1	114.30	165.1	152.40	82.73	132A8	38.1	69.55
9	132C9	449.33	38.1	136.53	190.5	161.93	107.27	132A9	38.1	87.27
10	132C10	497.33	38.1	136.53	190.5	161.93	126.36	132A10	38.1	106.82
11	132C11	545.34	38.1	136.53	190.5	161.93	148.18	132A11	38.1	128.64
12	132C12	593.85	38.1	136.53	190.5	161.93	171.82	132A12	38.1	151.82

Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

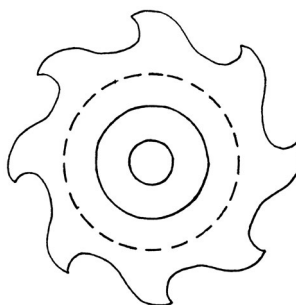
Veneer Dryer Parts

Martin

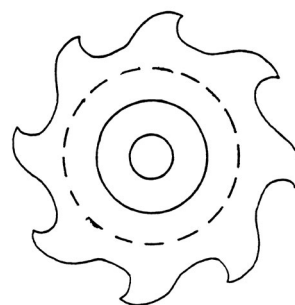
81X 81 X (2.609)

Hooked Tooth Sprocket B Style (Right and Left Hand)

Number of Teeth	Catalog Number	Outside Diameter	Type	Bore		Hub (Inches)	
				Stock	Max.	Diam.	L.T.B.
8	81X-B8RH	165.1	B	25.4	38.1	60.33	41.28
8	81X-B8LH	165.1	B	25.4	38.1	60.33	41.28



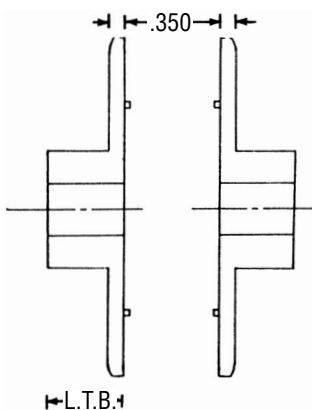
(RH) Right Hand



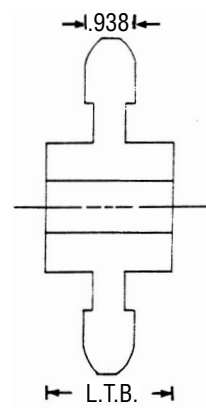
(LH) Left Hand

C Style

Number of Teeth	Catalog Number	Outside Diameter	Type	Bore		Hub (Inches)	
				Stock	Max.	Diam.	L.T.B.
7	81X-C7	146.05	C	19.05	38.1	60.33	60.33
8	81X-C8	171.45	C	19.05	38.1	60.33	60.33
9	81X-C9	188.93	C	19.05	38.1	60.33	60.33



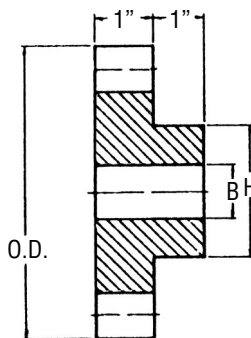
Type B
(Cast Iron)



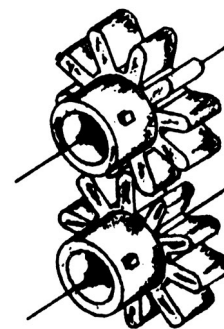
Type C
(Cast Iron)

Star Gear

Number of Teeth	Catalog Number	Outside Diameter	Type	Bore		Hub (Inches)	
				Stock	Max.	Diam.	L.T.B.
10	SG510	113.89	B	25.40	38.1	60.33	50.80



Type B
(Cast Iron)



Call *Martin* for Price and Availability.

MTO Engineered Class Cast Iron Sprockets



Cast Split Sprockets

Hunting Tooth Sprockets

Rivetless Chain Sprocket

Drag Chain Sprockets

- Plain
- Flanged

Traction Wheels

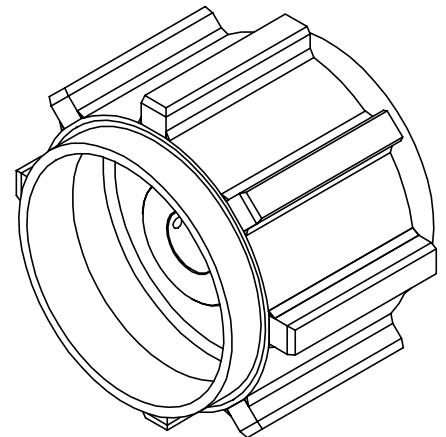
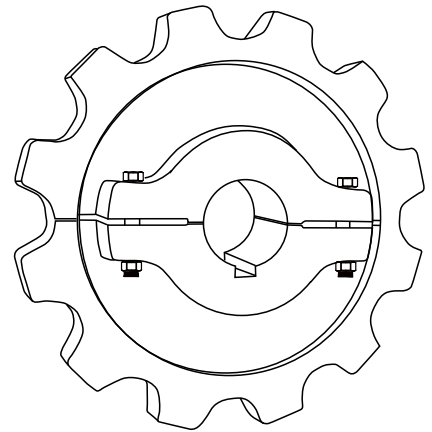
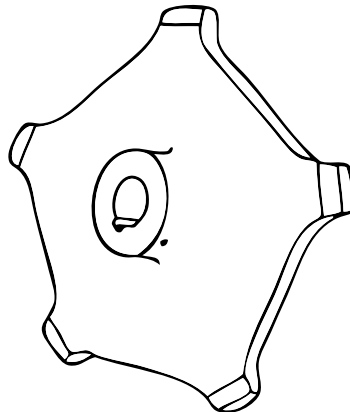
- Plain
- Flanged

Plate Body Sprockets

Chain Saver Rim Sprockets

Adjustable Hub Sprockets

Chilled Rim Sprockets



Sprockets Available to fit Standard Chain Sizes

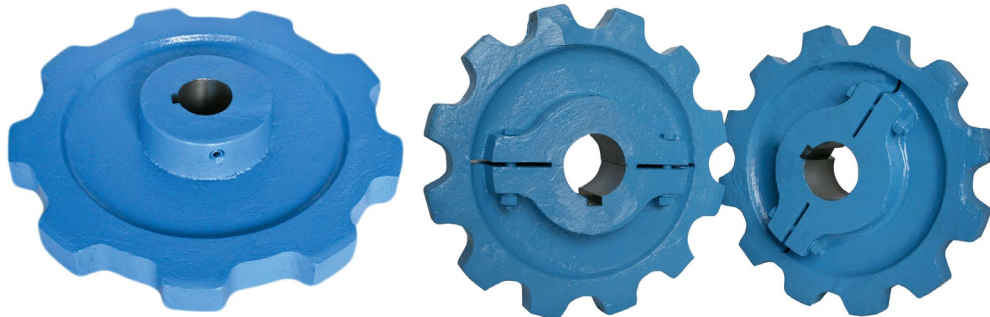
55	103	H121	197	678	856	998
D60	H104	SD121	348	698	859	1030
62	W-106	WD-122	348	CS720S	F912R	1036
67	S-110	WD-123	458	720S	E922	1113
78	WD-110	WD-124	468	730	F922	1120
W-78	111SP	130	WD-480	A730	925R	1131
94R	111	132	483	CS730	933	F1222
95R	WD-112	183	520	823	951	2124
102B	WD-116	188	531	825	D963R	2180
H102	WD-119	194	625R	830	E963R	4850
102.5	WD-120	196	667	844	F963R	9250

Not all sprockets fit all chain sizes, see factory for availability.

Cast Iron Sprocket Types

Martin

Now Stocking Select Sizes - Call *Martin* for Availability



C

830

C

9

CR S

Cast Iron

CWD if Wide Drag

Chain

Example:

132 - 82

102B - 55

78 - 131

Sprocket Type

A - Plate Only

B - Hub One Side

C - Hub Both Sides

D - Detachable Hubs

No. of Teeth

Special Instructions

CR - Chilled Rim

S - Split

CS - Chain Saver

F - Flanged

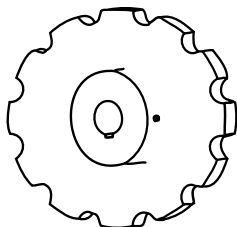
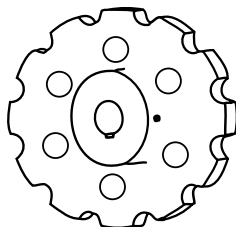
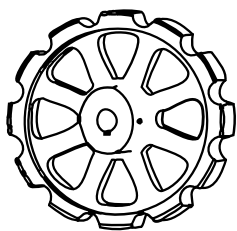


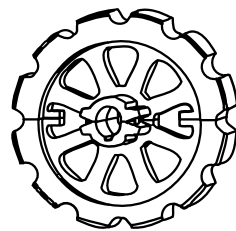
Plate Body



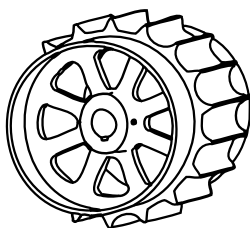
**Plate Body
with Lightening Holes**



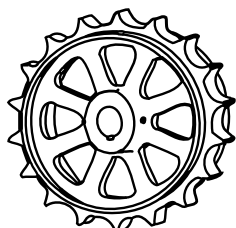
Arm Body



**Split
Arm Body**



**Drum Chainsaver Rim
Arm Body**



Chainsaver Rim

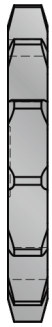
SPROCKET STYLES

Cast Arm Body is often used in larger diameter sprockets. The arms are advantageous because they reduce the weight as well as the cost.

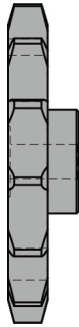
Cast Split (Arm or Plate) Body - The split style sprocket eases maintenance and installation. The sprocket can be removed without having to disassemble an entire system.

Cast Plate Body style is primarily used in smaller diameter sprockets when the arm body style is unnecessary. Larger diameter sprockets only use this plate body style when the torque is beyond the limits of the arm body style.

Special Sprockets - *Martin* also offers special made-to-order sprockets such as the flanged-rim sprocket (image to the left).



Type A



Type B

Hub Types

Cast Iron Sprockets are offered in different hub types including Type A, B, and C.

Type A

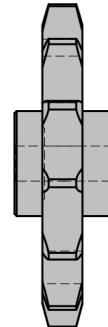
An A Style Sprocket is a flat sprocket with no hub extension on either side.

Type B

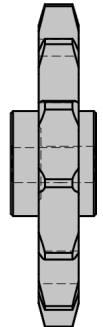
A B Style Sprocket is a sprocket with a hub extension on one side.

Type C

A C Style Sprocket is a sprocket with a hub extension on both sides.

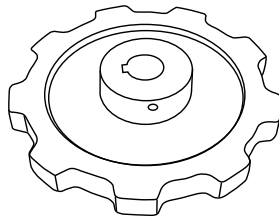


Type C

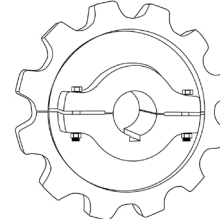


Type C Offset

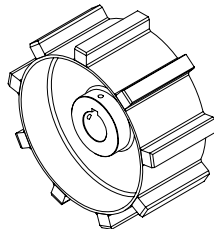
Type C Offset hubs are the same as a "Type C", however the hubs are slightly off center.



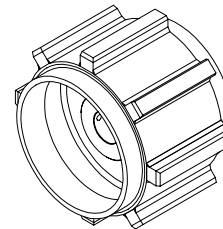
Non-Split Engineering Class Sprockets These sprockets can be supplied in various cast materials, with or without hardened teeth.



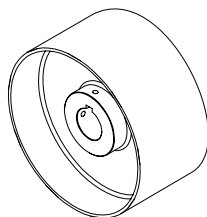
Split Sprockets are made in one piece, machined, then split into two halves after machining. The two halves can then be bolted onto the shaft without removing the shaft or the bearings from the installation. Also available in Chilled Rim.



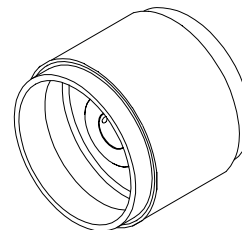
Drag Chain Sprockets are of drum type design with full width teeth. These sprockets are available plain, as shown here, or drum flanged as shown below. All types have been redesigned to provide additional wear life on the welded steel drag chains that have largely replaced malleable types.



Drum Flanged Drag Chain Sprockets have side extension flanges extending from below the root line. These flanges are used with refuse over the end of conveyors and to serve as a guard if chains jump sprockets or traction wheels.



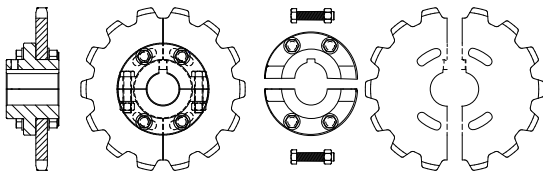
Drag Chain Traction Wheels are identical to sprockets but have no teeth. They are commonly used to turn chains at the ends of conveyors or to increase chain wrap in "S" Wrap drive designs. They are available plain (left) or drum flanged.



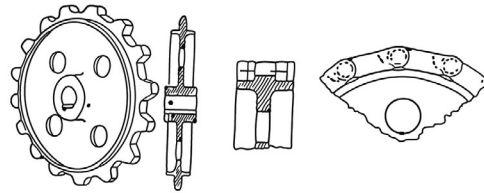
Drum Flanged Traction Wheels are used with drag chains either at the discharge end of the conveyor to guide the refuse over the end, or as a chain guard. Flanges on drag chain sprockets and traction wheels are available in many different lengths.

Cast Iron Sprocket Types

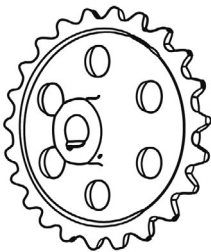
Martin



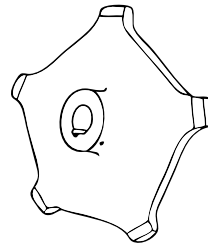
Adjustable Hub Sprockets are designed for use in multi-strand conveyors using top carriers or flights, where alignment of adjacent strands is a problem. The hub allows the chain to be moved forward or backward several inches as conditions in the conveyor require. The adjustable sprockets are available in solid or split construction.



Chainsaver Rims are short flanges below the root line of the sprocket which make contact with the sidebars of the chain. The rims help support the chain and keep the chain running on the true pitch line of the sprocket. Chainsaver Rims are particularly advantageous when used on elevator headshaft sprockets handling heavy or abrasive loads, and in sewage treatment applications where long, unsupported strands are common.



Hunting Tooth Sprockets are designed with an odd number of teeth, with the pitch of the teeth 1/2 the pitch of the chain. This allows each tooth to contact the chain only every other revolution. Wear life of the sprocket is effectively doubled. A Chainsaver Rim is frequently added to these sprocket to give even longer life.



Drop Forged or Rivetless Chain Sprockets are of skip tooth design, since the block link of these chains is solid. Sprockets are available for all popular drop forged chains in both regular and X series.

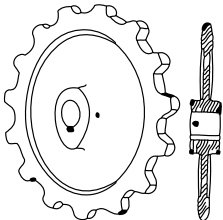


Plate Body with Cam-Shaped Hubs
All sprockets are produced with plate type bodies as shown. Few spoked sprockets are offered due to strength limitations of this type design. As space permits, many smaller sprockets are made with cam-shaped hubs, which give additional strength over the keyway, but reduces weight compared to conventional round hubs of the same diameter.

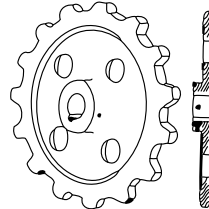
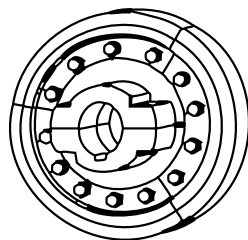
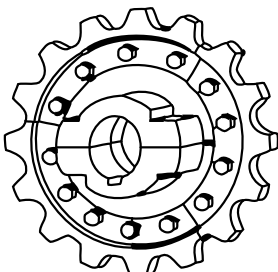
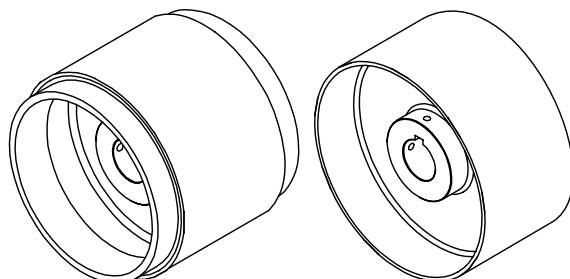


Plate body with Lightening Holes Where space permits, larger sprockets are made with lightening holes cast through the body to reduce weight and facilitate handling. Standard round hubs are used on most larger sprockets, with diameters of hubs as appropriate according to chain type and ANSI hub specifications.



Segmental Sprockets - *Martin* offers segmental sprockets with either solid or split hub bodies. Segmental sprockets greatly reduce the labor costs as well as the downtime associated with replacing worn standard type sprockets. Worn segments can be replaced by simply removing and replacing segments only, eliminating the need to remove the shaft, and or bearing assemblies, as well as the need to realign the hub.



Traction Wheels - Traction Wheels are offered in solid or segmental construction. They are often used in bucket elevators and can withstand abrasive materials.



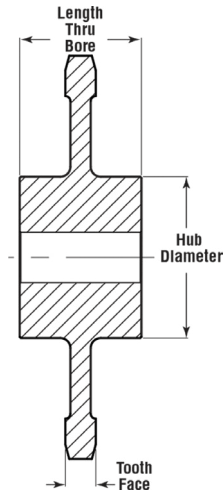
Information Needed to Quote/Order

The following information should be given when ordering sprockets or traction wheels:

1. **QUANTITY** _____
(Number of sprockets required)
2. **CHAIN** _____
(Number and type to be used)
3. **NO. OF TEETH** _____
(The effective number of teeth should be specified when ordering a double duty, hunting tooth or skip tooth sprocket)
4. **PITCH DIAMETER** _____
(For traction wheels, the outside diameter should be specified in place of the pitch diameter)
5. **MATERIAL** _____
(Specify Chilled Rim if hardened teeth required)
6. **CONSTRUCTION** _____
(Standard, split or segmental construction should be specified)
7. **TYPE** _____
(Standard, hunting tooth, double duty, chain saver, etc., must be specified. Chain saver sprockets increase their life by having flanges on each side of the teeth so that the sidebar engages the flange, thereby distributing the wear over a greater area)
8. **BORE** _____
(Sprockets and traction wheels are usually furnished with specific bores)
9. **HUB STYLE** _____
(All hubs are furnished (C style) unless specified otherwise)
10. **KEYWAY AND SETSCREWS** _____
(Standard straight keyways are finished with one setscrew over the keyway and one at 90°)

Cast Iron Sprocket

Martin



55 CAST TOOTH SPROCKETS — PITCH 41.427 mm

FOR CHAINS NO.: 55, SS55, C55L, C55D, C55B, C55A, C55

Tooth Face at Pitch Line: 17.475 mm — Roller Diameter: 18.237 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
5	C55C5	70.36	C	50.80	50.80	23.88	0.91
6	C55C6	82.80	C	50.80	50.80	23.88	0.91
7	C55B7	95.50	B	63.50	50.80	41.40	1.36
8	C55B8	108.20	B	63.50	50.80	41.40	1.82
9	C55C9	120.90	C	76.20	50.80	49.28	2.27
10	C55C10	133.60	C	88.90	50.80	55.63	2.27
11	C55C11	146.56	C	114.30	76.20	73.15	2.73
12	C55C12	160.02	C	114.30	76.20	73.15	4.55
13	C55C13	172.72	C	114.30	76.20	73.15	4.55
14	C55C14	185.67	C	114.30	76.20	73.15	5.45
15	C55C15	198.88	C	114.30	76.20	73.15	5.91
16	C55C16	211.84	C	114.30	76.20	73.15	5.91
17	C55C17	224.79	C	114.30	76.20	73.15	7.73
18	C55C18	238.51	C	114.30	76.20	73.15	9.09
19	C55C19	251.97	C	114.30	76.20	73.15	9.09
20	C55C20	264.92	C	152.40	88.90	73.15	9.09
21	C55C21	277.88	C	152.40	88.90	101.60	10.45
22	C55C22	290.32	C	152.40	88.90	101.60	10.91
23	C55C23	304.04	C	152.40	88.90	101.60	13.18
24	C55C24	316.74	C	152.40	88.90	101.60	14.55
25	C55C26	330.20	C	203.20	101.60	152.40	14.09
27	C55C27	357.38	C	203.20	101.60	152.40	17.27
28	C55C28	369.32	C	203.20	101.60	152.40	19.09
29	C55C29	383.03	C	203.20	101.60	152.40	11.82
30	C55C30	395.99	C	203.20	101.60	152.40	24.55
31	C55C31	409.19	C	203.20	101.60	152.40	26.36
32	C55C32	422.40	C	203.20	101.60	152.40	28.64
34	C55C34	448.82	C	203.20	101.60	152.40	14.09
35	C55C35	462.28	C	203.20	101.60	152.40	31.36
36	C55C36	474.98	C	203.20	101.60	152.40	35.00
38	C55C38	501.65	C	203.20	101.60	152.40	15.91
40	C55C40	528.07	C	254.00	101.60	203.20	16.82
41	C55C41	541.27	C	254.00	101.60	203.20	16.36
48	C55C48	633.48	C	254.00	101.60	203.20	20.45
50	C55C50	659.89	C	254.00	101.60	203.20	21.36
54	C55C54	711.20	C	254.00	101.60	203.20	22.73

62 CAST TOOTH SPROCKETS — PITCH 42.012 mm CHILLED RIM

FOR CHAINS NO.: 62, 72, 362, H62

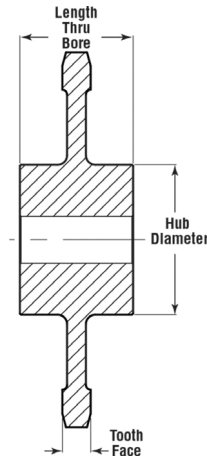
Tooth Face at Pitch Line: 20.625 mm — Roller Diameter: 20.625 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
5	C62C5CR	71.37	C	35.05	31.75	19.05	0.68
6	C62C6CR	84.33	C	44.45	31.75	23.88	1.36
7	C62C7CR	97.03	C	63.50	50.80	41.15	0.91
8	C62C8CR	109.73	C	76.20	50.80	45.97	1.82
9	C62C9CR	122.94	C	76.20	50.80	45.97	2.27
10	C62C10CR	135.89	C	101.60	76.20	63.50	4.09
11	C62C11	149.10	C	101.60	76.20	63.50	4.09
12	C62C12	162.31	C	120.65	88.90	63.50	3.18
13	C62C13	175.51	C	120.65	88.90	76.20	6.36
14	C62C14	188.72	C	120.65	88.90	76.20	10.91
15	C62C15	202.18	C	127.00	88.90	88.90	11.82
16	C62C16	215.39	C	127.00	88.90	88.90	11.36
17	C62C17	228.60	C	127.00	88.90	88.90	11.82
18	C62C18	242.06	C	127.00	88.90	88.90	12.73
19	C62C19	255.27	C	127.00	88.90	88.90	10.00
20	C62C20	268.48	C	139.70	101.60	101.60	10.91
21	C62C21	281.94	C	139.70	101.60	101.60	17.73
22	C62C22	295.40	C	139.70	101.60	101.60	12.27
23	C62C23	308.61	C	139.70	101.60	101.60	13.64
24	C62C24	321.82	C	139.70	101.60	101.60	16.36
25	C62C25	335.28	C	139.70	114.30	101.60	16.36
26	C62C26	348.49	C	139.70	114.30	101.60	16.36
27	C62C27	361.95	C	139.70	114.30	101.60	26.36
28	C62C28	375.16	C	139.70	114.30	101.60	27.27
29	C62C29	388.62	C	139.70	114.30	101.60	14.36
30	C62C30	401.83	C	152.40	114.30	114.30	20.00
32	C62C32	428.75	C	152.40	114.30	114.30	21.82
33	C62C33	442.98	C	152.40	114.30	114.30	22.73
34	C62C34	455.42	C	152.40	114.30	114.30	35.00
36	C62C36	482.09	C	152.40	114.30	114.30	40.91
38	C62C38	508.76	C	152.40	127.00	114.30	42.27
39	C62C39	521.97	C	152.40	127.00	114.30	27.73
40	C62C40	535.18	C	152.40	127.00	114.30	18.27
41	C62C41	548.89	C	152.40	127.00	114.30	29.55
42	C62C42	562.10	C	152.40	127.00	114.30	32.73
43	C62C43	575.56	C	203.20	139.70	152.40	33.64
45	C62C45	602.23	C	203.20	139.70	152.40	35.00
46	C62C46	615.70	C	203.20	139.70	152.40	36.36
47	C62C47	629.16	C	203.20	139.70	152.40	22.09
48	C62C48	642.37	C	203.20	139.70	152.40	37.73
49	C62C49	655.83	C	203.20	139.70	152.40	38.18
54	C62C54	722.63	C	203.20	139.70	152.40	42.27
60	C62C60	802.64	C	203.20	139.70	152.40	32.27

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.

CHAINSAVER rims available on request.

HEAT TREAT available upon request.



67 CAST TOOTH SPROCKETS — 58.623 mm CHILLED RIM

FOR CHAINS NO.: 57, 67, 77, 467, 477, 967, 977, C77, H-60, SM477

Tooth Face at Pitch Line: 17.45 mm — Roller Diameter: 20.625 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
5	C67C5CR	99.82	C	57.15	44.45	30.23	1.82
6	C67C6CR	117.35	C	76.20	50.80	45.97	2.73
7	C67C7CR	135.13	C	88.90	76.20	55.63	3.64
8	C67C8CR	153.16	C	101.60	76.20	63.50	4.55
9	C67C9CR	171.45	C	114.30	76.20	73.15	5.45
10	C67C10CR	189.48	C	114.30	76.20	73.15	6.36
11	C67C11CR	208.03	C	114.30	76.20	73.15	8.18
12	C67C12CR	226.57	C	114.30	76.20	73.15	9.09
13	C67C13CR	244.86	C	114.30	76.20	73.15	10.45
14	C67C14CR	263.40	C	127.00	76.20	88.90	10.00
15	C67C15CR	281.94	C	127.00	88.90	88.90	12.73
16	C67C16CR	300.48	C	127.00	88.90	88.90	13.64
17	C67C17CR	319.02	C	152.40	88.90	114.30	14.09
18	C67C18CR	337.57	C	152.40	88.90	114.30	15.91
19	C67C19CR	356.11	C	152.40	88.90	114.30	19.55
20	C67C20CR	374.65	C	152.40	101.60	114.30	23.18
21	C67C21CR	391.92	C	152.40	101.60	114.30	25.00
22	C67C22CR	410.46	C	152.40	101.60	114.30	26.36
23	C67C23CR	429.01	C	152.40	101.60	114.30	28.18
24	C67C24CR	449.07	C	152.40	101.60	114.30	30.45
25	C67C25CR	466.09	C	203.20	114.30	152.40	24.09
26	C67C26CR	486.16	C	203.20	114.30	152.40	24.55
27	C67C27CR	505.21	C	203.20	114.30	152.40	26.82
28	C67C28CR	523.49	C	203.20	114.30	152.40	15.45
30	C67C30CR	560.58	C	203.20	114.30	152.40	30.45
32	C67C32CR	597.92	C	203.20	114.30	152.40	10.45
33	C67C33CR	616.46	C	203.20	114.30	152.40	34.09
34	C67C34CR	635.00	C	203.20	114.30	152.40	21.82
35	C67C35CR	653.80	C	203.20	114.30	152.40	36.36
36	C67C36CR	672.34	C	203.20	114.30	152.40	38.18
38	C67C38CR	709.68	C	254.00	152.40	203.20	40.00
40	C67C40CR	746.76	C	254.00	152.40	203.20	42.73
44	C67C44CR	821.44	C	254.00	152.40	203.20	54.55
45	C67C45CR	839.72	C	254.00	152.40	203.20	56.82
48	C67C48CR	895.86	C	254.00	152.40	203.20	52.27
60	C67C60CR	1119.63	C	254.00	152.40	203.20	67.27

78 CAST TOOTH SPROCKETS — PITCH 66.269 mm

FOR CHAINS NO.: 75, 78, 88, 188, 488, 433-1/2, 81X, BRH, BRH188, C188, H74, H75, H78, H78A, H78B, H78SR, H79, MSR-1288, MW188RT, MXS882, SS188, SS578

Tooth Face at Pitch Line: 23.8 mm — Roller Diameter: 22.225 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
5	C78C5	112.78	C	63.50	63.50	30.23	2.27
6	C78C6	132.59	C	88.90	69.85	36.58	2.73
7	C78C7	152.65	C	101.60	76.20	61.98	5.00
8	C78C8	173.23	C	120.65	79.25	71.37	6.82
9	C78C9	193.80	C	133.35	98.55	82.55	7.27
10	C78C10	214.38	C	133.35	98.55	82.55	8.64
11	C78C11	235.20	C	133.35	98.55	82.55	10.45
12	C78C12	256.03	C	152.40	98.55	82.55	12.73
13	C78C13	276.86	C	152.40	114.30	84.07	16.36
14	C78C14	297.69	C	152.40	114.30	84.07	17.73
15	C78C15	318.77	C	152.40	114.30	84.07	18.18
16	C78C16	339.60	C	152.40	114.30	84.07	24.09
17	C78C17	360.68	C	152.40	114.30	84.07	25.00
18	C78C18	381.51	C	152.40	114.30	103.12	27.73
19	C78C19	402.59	C	165.10	136.65	103.12	29.09
20	C78C20	423.67	C	165.10	136.65	103.12	30.45
21	C78C21	444.50	C	165.10	136.65	103.12	35.91
22	C78C22	465.58	C	165.10	136.65	103.12	40.45
23	C78C23	486.66	C	165.10	136.65	103.12	41.36
24	C78C24	507.75	C	177.80	136.65	103.12	45.00
25	C78C25	528.57	C	177.80	136.65	103.12	48.64
26	C78C26	549.66	C	177.80	136.65	103.12	50.45
27	C78C27	570.74	C	177.80	136.65	103.12	50.91
28	C78C28	591.82	C	177.80	136.65	103.12	51.82
29	C78C29	610.87	C	177.80	136.65	103.12	52.73
30	C78C30	633.98	C	177.80	136.65	103.12	54.09
31	C78C31	655.07	C	177.80	136.65	103.12	55.91
32	C78C32	676.15	C	177.80	136.65	103.12	59.09
33	C78C33	695.45	C	177.80	136.65	103.12	61.82
34	C78C34	718.31	C	177.80	136.65	103.12	64.09
35	C78C35	739.39	C	177.80	136.65	103.12	66.36
36	C78C36	760.22	C	177.80	136.65	103.12	69.55
38	C78C38	802.64	C	177.80	136.65	103.12	73.64
39	C78C39	823.47	C	177.80	136.65	103.12	77.27
40	C78C40	844.55	C	184.15	171.45	117.35	80.00
41	C78C41	865.63	C	184.15	171.45	117.35	81.82
42	C78C42	886.71	C	184.15	171.45	117.35	87.73
43	C78C43	905.51	C	184.15	171.45	117.35	89.55
44	C78C44	928.88	C	184.15	171.45	117.35	91.82
45	C78C45	947.67	C	184.15	171.45	117.35	96.36
46	C78C46	971.04	C	184.15	171.45	117.35	100.45
48	C78C48	987.81	C	184.15	171.45	117.35	113.18
54	C78C54	1139.70	C	184.15	171.45	117.35	120.45

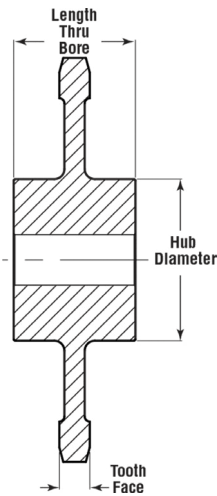
NOTE: Weights and Dimensions are approximate. Please consult [Martin](#) for max hub information. All Cast Sprockets available as Split Sprockets.

CHAINSAVER rims available on request.

HEAT TREAT available upon request.

Cast Iron Sprocket

Martin



95R CAST TOOTH SPROCKETS — PITCH 101.6 mm CHILLED RIM

FOR CHAINS NO.: 1120, 1520, 4013, 1520C, 95R, LXS4013, MSR4013, RR1120, RS4013, SS1120

Tooth Face at Pitch Line: 17.45 mm — Roller Diameter: 38.1 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
5	C95RC5CR	172.97	C	114.30	76.20	63.50	5.45
6	C95RC6CR	203.20	C	127.00	76.20	76.20	6.36
7	C95RC7CR	234.19	C	152.40	76.20	101.60	8.18
8	C95RC8CR	265.43	C	152.40	76.20	101.60	10.91
9	C95RC9CR	297.18	C	152.40	76.20	101.60	13.64
10	C95RC10CR	328.68	C	152.40	76.20	101.60	18.18
11	C95RC11CR	360.43	C	152.40	76.20	101.60	20.45
12	C95RC12CR	392.43	C	152.40	76.20	101.60	27.73
14	C95RC14CR	456.69	C	152.40	76.20	101.60	34.55
15	C95RC15CR	488.70	C	177.80	101.60	127.00	39.09
18	C95RC18CR	585.22	C	203.20	127.00	152.40	52.27
19	C95RC19CR	617.22	C	203.20	127.00	152.40	56.82
22	C95RC22CR	713.99	C	203.20	127.00	152.40	75.00

94R CAST TOOTH SPROCKETS — PITCH 101.6 mm CHILLED RIM

FOR CHAINS NO.: 4, 4019, 40SP, 94R, LXS4019, SS4

Tooth Face at Pitch Line: 19.05 mm — Roller Diameter: 38.1 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C94RC5CR	203.20	C	127.00	69.85	76.20	10.00
8	C94RC8CR	265.43	C	152.40	76.20	101.60	12.27
9	C94RC9CR	297.18	C	152.40	76.20	101.60	16.36
10	C94RC10CR	328.68	C	165.10	76.20	101.60	17.73
12	C94RC12CR	392.43	C	165.10	76.20	101.60	26.82
14	C94RC14CR	456.69	C	177.80	101.60	127.00	33.64
15	C94RC15CR	488.70	C	177.80	101.60	127.00	38.18
16	C94RC16CR	520.70	C	177.80	101.60	127.00	43.18

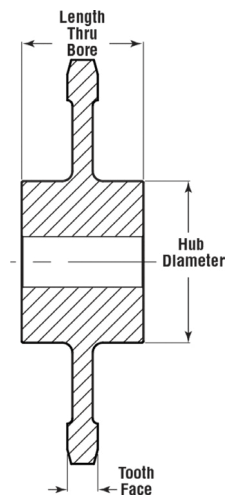
102B CAST TOOTH SPROCKETS — PITCH 101.6 mm CHILLED RIM

FOR CHAINS NO.: 6102B, A102B, C102B, ER102B, S102B, SBS102B, SS102B

Tooth Face at Pitch Line: 47.625 mm — Roller Diameter: 25.4 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C102BC6CR	203.20	C	152.40	101.60	100.08	15.00
7	C102BC7CR	234.19	C	152.40	101.60	100.08	20.00
8	C102BC8CR	265.43	C	165.10	101.60	112.78	21.36
9	C102BC9CR	297.18	C	177.80	127.00	115.82	27.27
10	C102BC10CR	328.68	C	177.80	127.00	115.82	30.91
11	C102BC11CR	360.68	C	177.80	127.00	115.82	32.73
12	C102BC12CR	392.43	C	177.80	127.00	115.82	41.36
13	C102BC13CR	424.43	C	177.80	127.00	115.82	48.64
14	C102BC14CR	456.69	C	177.80	127.00	115.82	50.00
15	C102BC15CR	488.70	C	177.80	127.00	115.82	55.45
16	C102BC16CR	520.70	C	177.80	127.00	115.82	61.36
17	C102BC17CR	552.70	C	177.80	127.00	115.82	65.91
18	C102BC18CR	585.22	C	177.80	127.00	115.82	59.09
19	C102BC19CR	617.22	C	177.80	127.00	114.30	77.27
20	C102BC20CR	649.48	C	254.00	152.40	152.40	79.55
21	C102BC21CR	681.74	C	254.00	152.40	152.40	84.09
22	C102BC22CR	713.99	C	254.00	152.40	152.40	88.18
24	C102BC24CR	778.51	C	254.00	152.40	152.40	97.27

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.
 CHAINSAVER rims available on request.
 HEAT TREAT available upon request.



H102 CAST TOOTH SPROCKETS — PITCH 127 mm

FOR CHAINS NO.: H102, WD102, WDH102

Tooth Face at Pitch Line: 15.875 mm — Roller Diameter: 38.1 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	CWD102C6	254.00	C	152.4	184.15	101.60	29.55
7	CWD102C7	292.61	C	152.4	184.15	101.60	36.36
8	CWD102C8	331.98	C	165.1	184.15	114.30	55.45
8	CWD102C8F	331.98	C	165.1	184.15	114.30	72.73
9	CWD102C9	371.35	C	177.8	203.20	127.00	63.64
10	CWD102C10	410.97	C	177.8	203.20	127.00	65.00
11	CWD102C11	450.85	C	177.8	203.20	127.00	75.00
12	CWD102C12	490.73	C	190.5	203.20	139.70	96.36
13	CWD102C13	530.61	C	190.5	203.20	139.70	111.36

102.5 CAST TOOTH SPROCKETS — PITCH 102.616 mm

FOR CHAINS NO.: A102-1/2, C102-1/2, C102.5, ER102.5, S102-1/2, SBS102.5, SS102-1/2

Tooth Face at Pitch Line: 47.625 mm — Roller Diameter: 34.925 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C102.5C6	205.23	C	127.0	88.9	100.08	13.64
8	C102.5C8	268.22	C	152.4	101.6	112.78	25.00
9	C102.5C9	299.97	C	152.4	101.6	138.18	28.18
10	C102.5C10	331.98	C	152.4	101.6	150.88	28.18
11	C102.5C11	364.24	C	152.4	101.6	150.88	34.55
12	C102.5C12	396.49	C	152.4	101.6	150.88	48.18
13	C102.5C13	428.75	C	152.4	101.6	150.88	38.64
14	C102.5C14	461.26	C	152.4	101.6	150.88	42.73
15	C102.5C15	493.52	C	152.4	101.6	150.88	47.73
16	C102.5C16	526.03	C	203.2	127.0	152.40	50.91
17	C102.5C17	558.29	C	203.2	127.0	152.40	55.45
19	C102.5C19	623.57	C	203.2	127.0	152.40	63.64
20	C102.5C20	656.08	C	254.0	152.4	203.20	68.18
22	C102.5C22	721.11	C	254.0	152.4	203.20	79.55
24	C102.5C24	786.13	C	254.0	152.4	203.20	86.36
25	C102.5C25	818.64	C	254.0	152.4	203.20	95.45
26	C102.5C26	846.58	C	254.0	152.4	203.20	104.55

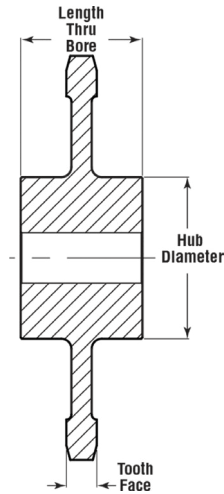
NOTE: Weights and Dimensions are approximate. Please consult [Martin](#) for max hub information. All Cast Sprockets available as Split Sprockets.

CHAINSAVER rims available on request.

HEAT TREAT available upon request.

Cast Iron Sprocket

Martin



H104 CAST TOOTH SPROCKETS — PITCH 152.4 mm

FOR CHAINS NO.: 6104, H104, WDH104

Tooth Face at Pitch Line: 101.6 mm — Roller Diameter: 38.1 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
5	CWD104C5	259.33	C	152.4	120.65	101.6	36.36
6	CWD104C6	304.80	C	152.4	120.65	101.6	41.36
7	CWD104C7	351.28	C	152.4	120.65	101.6	54.55
7	CWD104C7*		C	152.4	120.65	101.6	52.73
8	CWD104C8	398.27	C	190.5	127.00	127.0	55.45
8	CWD104C8*		C	190.5	127.00	127.0	62.27
9	CWD104C9	445.52	C	190.5	127.00	127.0	69.09
9	CWD104C9*		C	190.5	127.00	127.0	75.91
10	CWD104C10	493.27	C	203.2	139.70	152.4	72.73
10	CWD104C10*		C	203.2	139.70	152.4	79.55
11	CWD104C11	541.02	C	203.2	139.70	152.4	78.18
12	CWD104C12	588.77	C	203.2	139.70	152.4	84.09
13	CWD104C13	636.78	C	203.2	139.70	152.4	90.00

★ Available Flanged - Consult Factory.

W106 CAST TOOTH SPROCKETS — PITCH 152.4 mm

FOR CHAINS NO.: W106, WH106HD, WH110, WR106, WR106HD

Tooth Face at Pitch Line: 38.1 mm — Roller Diameter: 31.75 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
5	C106C5CR	257.81	C	152.4	120.65	101.60	13.64
8	C106C8CR	398.27	C	177.8	120.65	127.00	38.64
9	C106C9CR	445.52	C	177.8	120.65	127.00	45.45

S110 CAST TOOTH SPROCKETS — PITCH 152.4 mm

FOR CHAINS NO.: 6110, C110, ER110, C110C, RR542, SBS110, SS110, WH110, WS110

Tooth Face at Pitch Line: 47.625 mm — Roller Diameter: 31.75 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C110C6	304.80	C	152.4	101.6	100.1	28.64
7	C110C7	351.54	C	177.8	101.6	114.3	30.91
8	C110C8	398.27	C	177.8	127.0	114.3	34.55
9	C110C9	445.52	C	177.8	127.0	114.3	37.73
10	C110C10	493.27	C	190.5	127.0	127.0	40.00
11	C110C11	541.02	C	190.5	127.0	127.0	55.00
12	C110C12	588.77	C	190.5	127.0	127.0	59.55
13	C110C13	636.78	C	190.5	127.0	127.0	69.09
14	C110C14	684.78	C	190.5	127.0	127.0	72.73
15	C110C15	733.04	C	190.5	127.0	127.0	77.27
16	C110C16	781.30	C	203.2	152.4	152.4	82.27
18	C110C18	877.57	C	203.2	152.4	152.4	93.64
19	C110C19	926.08	C	254.0	152.4	152.4	97.27
24	C110C24	1167.64	C	254.0	203.2	203.2	154.55

WD110 CAST TOOTH SPROCKETS — PITCH 152.4 mm

FOR CHAINS NO.: 6110 (DRAG), H-110, H110, WD110, WD113, WDH2210, WHD110, WS110 (PT-C), WSD110

Tooth Face at Pitch Line: 225.425 mm — Roller Diameter: 38.1 mm

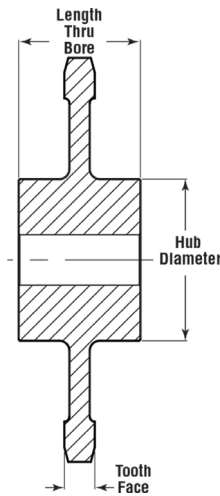
Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
5	CWD110C5	257.81	C	152.4	76.2	101.6	54.55
6	CWD110C6*	304.80	C	152.4	76.2	101.6	58.64
7	CWD110C7*	351.54	C	177.8	76.2	127.0	78.18
8	CWD110C8*	398.27	C	203.2	88.9	152.4	91.82
9	CWD110C9*	445.52	C	203.2	88.9	152.4	109.09
10	CWD110C10*	493.27	C	203.2	88.9	152.4	115.00
11	CWD110C11*	541.02	C	203.2	101.6	152.4	120.45
12	CWD110C12*	588.77	C	203.2	101.6	152.4	160.00
15	CWD110C15	733.04	C	203.2	101.6	152.4	277.27

★ Available Flanged - Consult Factory.

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.

CHAINSAVER rims available on request.

HEAT TREAT available upon request.



111SP CAST TOOTH SPROCKETS —DOUBLE PITCH 120.904 mm AND 183.896 mm

FOR CHAINS NO.: 6111 Spec., C111 Spec., ER111SP, SS111 Spec.

Tooth Face at Pitch Tooth Face at Pitch Line: 60.325 mm — Roller Diameter: 36.525 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
8	CDP111C8CR	399.80	C	190.5	152.4	127.0	40.91
10	CDP111C10CR	492.76	C	190.5	152.4	127.0	48.64
12	CDP111C12CR	589.79	C	203.2	152.4	152.4	86.36

111 CAST TOOTH SPROCKETS —DOUBLE PITCH 120.904 mm

FOR CHAINS NO.: 6111 Spec., C111 Spec., ER111SP, SS111 Spec.

Tooth Face at Pitch Tooth Face at Pitch Line: 60.325 mm — Roller Diameter: 36.525 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C111C6CR	241.81	C	177.80	101.60	101.60	29.1
7	C111C7CR	279.15	C	177.80	101.60	127.00	36.8
8	C111C8CR	315.98	C	190.50	152.40	128.52	44.6
9	C111C9CR	353.57	C	177.80	152.40	128.52	48.6
10	C111C10CR	391.16	C	190.50	152.40	128.52	55.5
11	C111C11CR	429.26	C	190.50	152.40	128.52	61.8
12	C111C12CR	467.11	C	190.50	152.40	128.52	65.9
13	C111C13CR	505.21	C	190.50	152.40	128.52	54.6
14	C111C14CR	543.31	C	203.20	152.40	152.40	56.8
15	C111C15CR	618.49	C	203.20	152.40	152.40	81.8
16	C111C16CR	618.49	C	203.20	152.40	152.40	85.9
17	C111C17CR	657.86	C	203.20	152.40	152.40	99.1
18	C111C18CR	696.21	C	203.20	152.40	152.40	103.6
20	C111C20CR	770.64	C	203.20	152.40	152.40	112.7
22	C111C22CR	849.38	C	254.00	152.40	203.20	118.6
24	C111C24CR	926.34	C	254.00	152.40	203.20	124.6

WD112 CAST TOOTH SPROCKETS — PITCH 203.2 mm

FOR CHAINS NO.: H112, SDH112, WD112, WSD112

Tooth Face at Pitch Tooth Face at Pitch Line: 228.6 mm — Roller Diameter: 38.1 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
7	CWD112C7	468.38	C	203.2	152.4	176.23	118.18
8	CWD112C8	530.86	C	203.2	152.4	176.23	127.73
9	CWD112C9	594.11	C	203.2	152.4	176.23	140.00
10	CWD112C10	657.61	C	203.2	152.4	176.23	157.27

WD116 CAST TOOTH SPROCKETS — PITCH 203.2 mm

FOR CHAINS NO.: 8116, HC8116, WD116, WDH116, WDH2316, WS116, WSD116

Tooth Face at Pitch Tooth Face at Pitch Line: 323.85 mm — Roller Diameter: 41.275 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	CWD116C6*	406.40	C	177.8	152.4	127.0	95.45
7	CWD116C7*	468.38	C	177.8	152.4	127.0	137.73
8	CWD116C8*	530.86	C	203.2	152.4	152.4	157.27
9	CWD116C9*	594.11	C	203.2	152.4	152.4	200.91
10	CWD116C10	658.37	C	203.2	152.4	152.4	204.55

★ Available Flanged - Consult Factory.

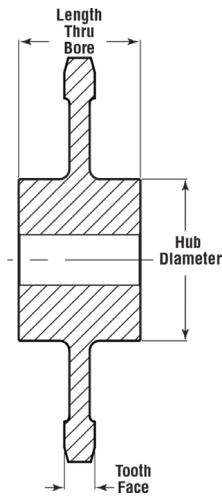
NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.

CHAINSAVER rims available on request.

HEAT TREAT available upon request.

Cast Iron Sprocket

Martin



WD119

CAST TOOTH SPROCKETS — PITCH 152.4 mm

FOR CHAINS NO.: CC119, HC119, SD-19, SD19A

Tooth Face at Pitch Line: 92.075 mm — Roller Diameter: 50.8 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	CWD119C6	304.80	C	152.4	127.0	101.60	43.18

WD122

CAST TOOTH SPROCKETS — PITCH 203.2 mm

FOR CHAINS NO.: H-122, WD122, WDH122

Tooth Face at Pitch Line: 222.25 mm — Roller Diameter: 50.8 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	CWD122C6CR	406.40	C	190.5	127.0	152.4	81.82
6	CWD122C6CRF*	406.40	C	203.2	127.0	152.4	122.73
7	CWD122C7CR	468.38	C	203.2	127.0	152.4	95.45

★ Available Flanged - Consult Factory.

WD120

CAST TOOTH SPROCKETS — PITCH 152.4 mm

FOR CHAINS NO.: H-120, WD120, WDH120

Tooth Face at Pitch Line: 222.25 mm — Roller Diameter: 50.8 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	CWD120C6	304.80	C	152.4	127.0	127.0	59.09
8	CWD120C8	398.27	C	152.4	127.0	127.0	113.64
9	CWD120C9	445.52	C	203.2	127.0	152.4	105.45
10	CWD120C10	493.27	C	203.2	127.0	152.4	97.73
11	CWD120C11	541.02	C	203.2	127.0	152.4	140.00

WD123

CAST TOOTH SPROCKETS — PITCH 228.6 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
8	CWD123C8	597.41	C	203.2	152.4	163.58	218.64

H121

CAST TOOTH SPROCKETS — PITCH 152.4 mm

FOR CHAINS NO.: CC121, HC121, SD21, SD21A

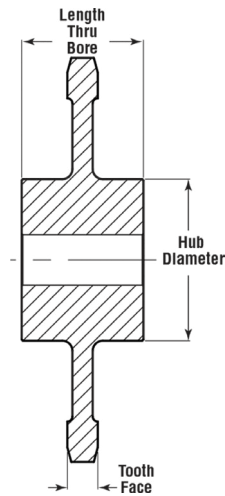
Tooth Face at Pitch Line: 219.075 mm — Roller Diameter: 63.5 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
8	CWD121C8	597.41	C	254.0	152.40	203.20	59.09

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.

CHAINSAVER rims available on request.

HEAT TREAT available upon request.



H124 CAST TOOTH SPROCKETS — PITCH 101.6 mm CHILLED RIM

FOR CHAINS NO.: C124, H124, H87, WH124, WHX124, WHX124HD, WR124, WS124, WSX124

Tooth Face at Pitch Line: 38.1 mm— Roller Diameter: 36.525 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
7	C124C7CR	234.19	C	152.4	101.60	100.08	17.27
8	C124C8CR	265.43	C	165.1	107.95	125.48	23.64
9	C124C9CR	297.18	C	165.1	107.95	138.18	20.45
10	C124C10CR	328.68	C	177.8	107.95	138.18	33.18
11	C124C11CR	360.68	C	177.8	107.95	151.13	34.09
12	C124C12CR	392.43	C	177.8	107.95	152.40	36.36
13	C124C13CR	424.43	C	177.8	133.35	152.40	45.45
14	C124C15CR	456.69	C	177.8	133.35	152.40	46.82
15	C124C16CR	488.70	C	177.8	133.35	152.40	50.91
16	C124C17CR	520.70	C	177.8	133.35	152.40	56.82
17	C124C18CR	552.96	C	190.5	139.70	165.10	61.36
18	C124C19CR	585.22	C	190.5	139.70	165.10	65.91
19	C124C20CR	617.22	C	190.5	139.70	165.10	70.00
20	C124C22CR	649.48	C	203.2	152.40	165.10	73.18
22	C124C27CR	713.99	C	203.2	152.40	165.10	80.00
27	C124C28CR	875.28	C	254.0	152.40	203.20	109.09
30	C124C30CR	972.06	C	254.0	152.40	203.20	131.82
34	C124C34CR	1101.09	C	254.0	152.40	203.20	136.36
37	C124C37CR	1198.37	C	254.0	152.40	203.20	186.36

130 CAST TOOTH SPROCKETS — PITCH 101.6 mm CHILLED RIM

FOR CHAINS NO.: 131, 138, 130RT, H-130, H-138, WH784, WHT130/138, WS784

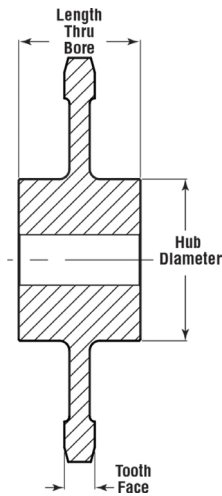
Tooth Face at Pitch Line: 25.4 mm— Roller Diameter: 25.4 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
5	C130C5CR	171.96	C	76.20	69.85	50.8	8.18
6	C130C6CR	203.20	C	114.30	76.20	63.5	9.09
7	C130C7CR	234.19	C	120.65	76.20	100.1	10.91
8	C130C8CR	265.43	C	133.35	76.20	114.3	12.27
9	C130C9CR	297.18	C	146.05	76.20	114.3	15.00
10	C130C10CR	328.68	C	152.40	101.60	127.0	20.91
11	C130C11CR	360.68	C	152.40	101.60	127.0	24.55
12	C130C12CR	392.43	C	165.10	101.60	139.7	33.18
13	C130C13CR	424.43	C	165.10	101.60	139.7	26.36
14	C130C14CR	455.93	C	165.10	101.60	139.7	36.36
16	C130C16CR	520.70	C	165.10	101.60	139.7	34.09
24	C130C24CR	926.34	C	254.00	152.40	203.2	124.55

NOTE: Weights and Dimensions are approximate. Please consult [Martin](#) for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprocket

Martin



132 CAST TOOTH SPROCKETS — PITCH 153.67 mm CHILLED RIM

FOR CHAINS NO.: 6150PM, A132, A132WS, AX132, AX132WS, AZ132WS, C132, C132C, C132M, C132W1, C132W2, CR-N132, DW132, ER150, ERA150, HSB150, MBP132, MBP132C, MPB132, MPBP132C, PW132, SS150+, SXA150, W132, W157, WH132, WH132HD, WH132XHD, WH150, WH150HD, WH150XHD, WH157, WH2012, WH2855, WH3855, WHX132, WHX150, WHX150, SX150, WHX155, WHX157, WHX159, WHX2855, WHX3855, WSX132

Tooth Face at Pitch Line: 92.075 mm — Roller Diameter: 50.8 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight Kilos
5	C132C5CR	259.08	C	152.4	152.4	101.6	26.82
6	C132C6CR	307.34	C	152.4	152.4	101.6	45.45
8	C132C8CR*	401.57	C	203.2	177.8	152.4	74.09
9	C132C9CR*	449.33	C	203.2	177.8	152.4	75.00
10	C132C10CR*	497.08	C	203.2	177.8	152.4	84.55
11	C132C11CR*	545.34	C	203.2	203.2	152.4	97.73
12	C132C12CR*	593.85	C	203.2	203.2	152.4	117.27
13	C132C13CR	642.11	C	203.2	203.2	152.4	127.27
14	C132C14CR	690.63	C	254.0	203.2	203.2	134.55
15	C132C15CR	739.14	C	254.0	203.2	203.2	169.09
16	C132C16CR	787.65	C	254.0	203.2	203.2	137.27
18	C132C17CR	884.94	C	254.0	203.2	203.2	202.27
19	C132C18CR	933.70	C	254.0	203.2	203.2	220.91
20	C132C19CR	982.22	C	254.0	203.2	203.2	225.00

★ Available Flanged - Consult Factory.

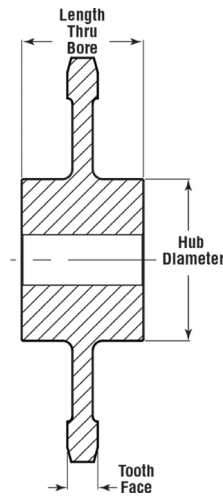
182 CAST TOOTH SPROCKETS — PITCH 76.2 mm CHILLED RIM

FOR CHAINS NO.: 1183, 1583, 3013, 53R, MSR-3013, RS3013, SR183

Tooth Face at Pitch Line: 20.638 mm — Roller Diameter: 38.1 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight Kilos
6	C183C6CR	152.40	C	101.6	76.2	68.07	4.55
7	C183C7CR	175.77	C	101.6	76.2	68.07	6.36
8	C183C8CR	199.14	C	101.6	76.2	68.07	6.36
9	C183C9CR	222.76	C	127.0	76.2	74.68	10.00
10	C183C10CR	246.63	C	127.0	76.2	74.68	9.55
11	C183C11CR	270.51	C	127.0	76.2	74.68	13.64
12	C183C12CR	294.39	C	127.0	76.2	80.77	12.73
13	C183C13CR	318.52	C	152.4	76.2	88.65	17.27
14	C183C14CR	342.39	C	152.4	101.6	101.60	18.18
15	C183C15CR	366.52	C	152.4	101.6	101.60	19.55
16	C183C16CR	390.65	C	152.4	101.6	101.60	20.91
18	C183C18CR	438.91	C	152.4	101.6	101.60	25.00
19	C183C19CR	463.04	C	152.4	101.6	101.60	30.45
20	C183C20CR	487.17	C	203.2	101.6	152.40	29.55
24	C183C24CR	583.69	C	203.2	101.6	152.40	34.09
25	C183C25CR	608.08	C	203.2	101.6	152.40	38.64
38	C183C38CR	922.78	C	203.2	101.6	152.40	63.64

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.
 CHAINSAVER rims available on request.
 HEAT TREAT available upon request.



188 CAST TOOTH SPROCKETS — PITCH 101.6 mm CHILLED RIM

FOR CHAINS NO.: 1188, 2188, 4113, 91R, LXS-4113, RS2188, RS4113.
NOT for C-188 (2.609P) see W-78, SR188, SS218

Tooth Face at Pitch Line: 23.813 mm — Roller Diameter: 44.45 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
5	C188C5CR	172.21	C	101.6	76.2	63.50	6.36
6	C188C6CR	203.20	C	101.6	76.2	87.38	6.82
7	C188C7CR	234.19	C	101.6	76.2	93.47	12.27
8	C188C8CR	265.43	C	152.4	101.6	100.08	15.91
9	C188C9CR	297.18	C	152.4	101.6	100.08	14.55
10	C188C10CR	328.68	C	152.4	101.6	100.08	19.55
11	C188C11CR	360.43	C	165.1	101.6	112.78	22.73
12	C188C12CR	392.43	C	165.1	101.6	112.78	27.27
13	C188C13CR	424.43	C	203.2	127.0	127.00	16.36
15	C188C15CR	488.70	C	203.2	127.0	127.00	17.73
19	C188C19CR	617.22	C	254.0	127.0	152.40	21.82
24	C188C24CR	778.26	C	254.0	127.0	152.40	26.36

194 CAST TOOTH SPROCKETS — PITCH 101.6 mm CHILLED RIM

FOR CHAINS NO.: 194, 1400, 1594, 2066, 4215, 14-1/2, 83-R, 83R, GL-194, LXS-4216, S1194, SR-194, SR194, U194, US-90-R, US90R

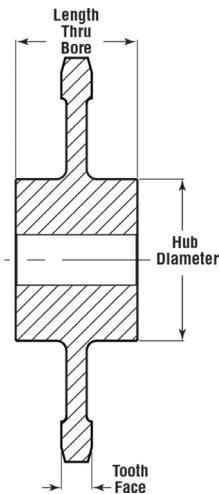
Tooth Face at Pitch Line: 25.4 mm — Roller Diameter: 50.8 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
7	C194C7CR	234.19	C	101.6	76.2	93.47	12.27
8	C194C8CR	265.43	C	152.4	101.6	100.08	15.91
9	C194C9CR	297.18	C	152.4	101.6	100.08	14.55
10	C194C10CR	328.68	C	152.4	101.6	100.08	19.55
11	C194C11CR	360.43	C	165.1	101.6	112.78	22.73
12	C194C12CR	392.43	C	165.1	101.6	112.78	27.27
13	C194C13CR	424.43	C	203.2	127.0	127.00	16.36
15	C194C15CR	488.70	C	203.2	127.0	127.00	17.73
19	C194C19CR	617.22	C	254.0	127.0	152.40	21.82

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprocket

Martin



196 CAST TOOTH SPROCKETS — PITCH 152.4 mm CHILLED RIM

FOR CHAINS NO.: 196, 1114, 1116, 2126, 6018, 604R, 627R, 634R, GL-196, MSR-1116, MSR-6018, SR196, SR911, SRC196, SRD1960, SS-1114, US196R, US196RA42

Tooth Face at Pitch Line: 25.4 mm — Roller Diameter: 50.8 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
5	C196C5CR	259.33	C	152.4	101.6	101.60	12.73
6	C196C6CR	304.80	C	152.4	101.6	101.60	15.00
7	C196C7CR	351.28	C	165.1	101.6	101.60	22.27
8	C196C8CR	398.27	C	165.1	127.0	115.82	38.18
9	C196C9CR	445.52	C	165.1	127.0	115.82	42.27
10	C196C10CR	493.27	C	177.8	127.0	115.82	51.82
12	C196C12CR	588.77	C	177.8	127.0	115.82	67.27
13	C196C13CR	636.78	C	177.8	127.0	115.82	54.09
14	C196C14CR	684.78	C	177.8	127.0	115.82	58.18
16	C196C16CR	781.30	C	203.2	127.0	115.82	72.73
18	C196C18CR	877.57	C	203.2	127.0	115.82	88.64
19	C196C19CR	925.83	C	203.2	127.0	115.82	95.45
25	C196C25CR	1215.90	C	203.2	127.0	115.82	138.18

197 CAST TOOTH SPROCKETS — PITCH 152.4 mm CHILLED RIM

FOR CHAINS NO.: 614, 1130, 1617, 6018, 607R, 614R, CC5, GL-197, LXS-6238, MR-1130, RS2190 197, SR-3130, SS-2190

Tooth Face at Pitch Line: 28.575 mm — Roller Diameter: 63.5 mm

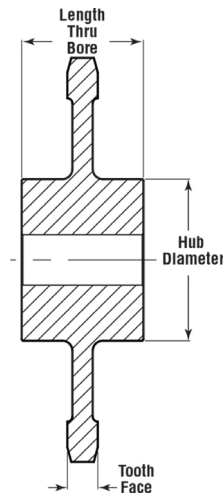
Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C197C6CR	304.80	C	152.4	127.0	120.65	20.45
7	C197C7CR	351.28	C	165.1	127.0	120.65	27.27
8	C197C8CR	398.27	C	165.1	127.0	120.65	34.09
9	C197C9CR	445.52	C	165.1	127.0	120.65	38.18
10	C197C10CR	493.27	C	177.8	127.0	120.65	42.73
11	C197C11CR	541.02	C	177.8	127.0	120.65	45.45
12	C197C12CR	588.77	C	177.8	127.0	120.65	56.82
15	C197C15CR	733.04	C	177.8	127.0	120.65	80.91

348 CAST TOOTH SPROCKETS — PITCH 76.987 mm CHILLED RIM

Tooth Face at Pitch Line: 17.450 mm — Roller Diameter: 26.988 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
4	C384C4CR	201.17	C	101.6	101.6	50.8	5.00
5	C384C5CR	246.63	C	101.6	101.6	50.8	8.64
6	C384C6CR	294.39	C	127.0	101.6	76.2	10.91
7	C384C7CR	342.39	C	127.0	101.6	76.2	19.55
8	C384C8CR	394.72	C	127.0	101.6	76.2	19.55
9	C384C9CR	438.91	C	177.8	101.6	127.0	23.18
10	C384C10CR	487.17	C	177.8	101.6	127.0	30.91
11	C384C11CR	534.16	C	177.8	101.6	127.0	34.09
12	C384C12CR	583.69	C	177.8	101.6	127.0	37.73
16	C384C16CR	777.24	C	177.8	101.6	127.0	54.55
19	C384C19CR	922.78	C	177.8	101.6	127.0	72.27

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.
 CHAINSAVER rims available on request.
 HEAT TREAT available upon request.



458 CAST TOOTH SPROCKETS — PITCH 102.387 mm CHILLED RIM

FOR CHAINS NO.: 458, S458, X458

Tooth Face at Pitch Line: 22.225 mm — Roller Diameter: 35.052 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
3	C458C3CR	201.93	C	114.3	127	50.80	6.36
4	C458C4CR	267.72	C	127.0	127	76.20	12.27
5	C458C5CR	331.47	C	152.4	127	128.52	18.18
6	C458C6CR	395.73	C	152.4	127	128.52	28.64
7	C458C7CR	460.25	C	177.8	127	128.52	31.82
8	C458C8CR	524.76	C	177.8	127	128.52	42.27
9	C458C9CR	587.50	C	190.5	127	128.52	59.09
10	C458C10CR	654.56	C	190.5	127	128.52	65.91
11	C458C11CR	719.58	C	190.5	127	128.52	87.73
12	C458C12CR	779.27	C	190.5	127	128.52	90.91
14	C458C14CR	911.10	C	203.2	127	128.52	103.64
19	C458C19CR	1235.20	C	203.2	127	128.52	156.82

WD480 CAST TOOTH SPROCKETS — PITCH 203.2 mm CHILLED RIM

FOR CHAINS NO.: 480, 8480, H480, WD480, WDH2380, WDH480, WDH580, WDH680, WS480, WSD480

Tooth Face at Pitch Line: 28.575 mm — Roller Diameter: 50.8 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	CWD480C6*	406.4	C	177.8	127	127	107.73
7	CWD480C7*	468.38	C	190.5	127	127	134.09
8	CWD480C8*	530.86	C	190.5	152.4	152.4	131.82
9	CWD480C9*	594.11	C	190.5	152.4	152.4	172.73
10	CWD480C10*	657.61	C	203.2	152.4	152.4	173.18
11	CWD480C11	721.36	C	203.2	152.4	152.4	229.55

★ Available Flanged - Consult Factory.

468 CAST TOOTH SPROCKETS — PITCH 102.387 mm CHILLED RIM

FOR CHAINS NO.: 468, 468A, S468

Tooth Face at Pitch Line: 34.925 mm — Roller Diameter: 47.752 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
4	C468C4CR	267.46	C	127.0	101.6	76.2	16.36
5	C468C5CR	331.47	C	152.4	101.6	101.6	23.64
6	C468C6CR	395.73	C	165.1	101.6	114.3	36.36
7	C468C7CR	460.25	C	165.1	101.6	114.3	41.82
8	C468C8CR	524.76	C	165.1	101.6	114.3	53.64
9	C468C9CR	589.53	C	177.8	101.6	127.0	67.27
10	C468C10CR	654.56	C	177.8	101.6	127.0	72.73
12	C468C12CR	784.35	C	177.8	101.6	127.0	109.09

463 CAST TOOTH SPROCKETS — PITCH 101.6 mm CHILLED RIM

FOR CHAINS NO.: 483, S4830K23

Tooth Face at Pitch Line: 22.225 mm — Roller Diameter: 23.876 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
8	C483C8	265.43	C	127	127	69.85	13.64
9	C483C9	297.18	C	127	127	69.85	15.91
12	C483C12	392.43	C	152.4	127	76.2	29.55
13	C483C13	424.69	C	152.4	127	76.2	31.82
19	C483C19	617.22	C	203.2	127	152.4	56.36

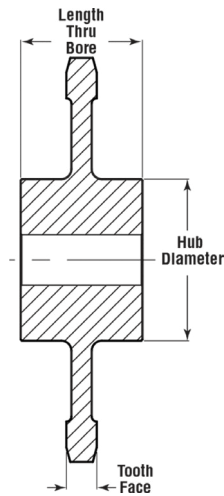
NOTE: Weights and Dimensions are approximate. Please consult [Martin](#) for max hub information. All Cast Sprockets available as Split Sprockets.

CHAINSAVER rims available on request.

HEAT TREAT available upon request.

Cast Iron Sprocket

Martin



520 CAST TOOTH SPROCKETS — PITCH 65.1 mm CHILLED RIM

FOR CHAINS NO.: 520-RX, 520RX, A520, IS-2625, 1S2625, SS-520, SS520

Tooth Face at Pitch Line: 22.225 mm — Roller Diameter: 28.575 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
10	C520C10CR	210.6	C	101.6	76.2	50.8	1.82
12	C520C11CR	251.5	C	101.6	76.2	50.8	2.27
14	C520C12CR	292.9	C	127.0	76.2	63.5	15.45
18	C520C13CR	374.9	C	127.0	76.2	63.5	29.55
24	C520C14CR	498.9	C	152.4	76.2	76.2	45.45
30	C520C15CR	622.8	C	190.5	76.2	76.2	50.91
40	C520C16CR	829.8	C	190.5	76.2	76.2	75.00

625R CAST TOOTH SPROCKETS — PITCH 152.4 mm CHILLED RIM

FOR CHAINS NO.: 1258, 1604R, 625R, 626R, 629R, SS658

Tooth Face at Pitch Line: 28.575 mm — Roller Diameter: 76.2 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C625C6CR	304.80	C	152.4	101.6	101.6	28.18
8	C625C8CR	398.27	C	177.8	101.6	127.0	35.45
10	C625C10CR	493.27	C	203.2	127.0	152.4	43.64
12	C625C12CR	588.77	C	203.2	127.0	152.4	51.82
13	C625C13CR	636.78	C	203.2	127.0	152.4	55.91

531 CAST TOOTH SPROCKETS — PITCH 101.6 mm CHILLED RIM

FOR CHAINS NO.: 149, 531, 4328, 89R, 1S4328, LXS4328, MSR4328, RS4328

Tooth Face at Pitch Line: 30.150 mm — Roller Diameter: 57.15 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C531C6	203.20	C	127.0	101.6	74.68	15.45
8	C531C8	265.43	C	152.4	101.6	87.38	15.45
10	C531C10	328.68	C	177.8	101.6	100.08	21.36
12	C531C12	392.43	C	177.8	101.6	112.78	30.00
14	C531C14	456.95	C	190.5	101.6	127.00	34.09
15	C531C15	488.70	C	190.5	101.6	127.00	38.64
16	C531C16	520.70	C	190.5	101.6	127.00	42.73
17	C531C17	552.96	C	190.5	101.6	127.00	48.64
19	C531C19	617.22	C	190.5	101.6	127.00	54.55

667 CAST TOOTH SPROCKETS — PITCH 57.15 mm CHILLED RIM

FOR CHAINS NO.: 667, J-X-K-53

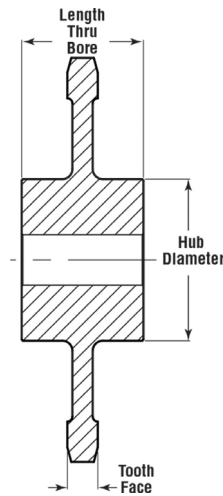
Tooth Face at Pitch Line: 25.4 mm — Roller Diameter: 26.975 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C667C6CR	114.30	C	63.5	63.5	38.1	4.09
8	C667C8CR	149.10	C	76.2	69.85	38.1	4.55
11	C667C11CR	202.69	C	101.6	69.85	50.8	6.82

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.

CHAINSAVER rims available on request.

HEAT TREAT available upon request.



678 CAST TOOTH SPROCKETS — PITCH 153.187 mm CHILLED RIM

FOR CHAINS NO.: 678, S678, X678

Tooth Face at Pitch Line: 30.150 mm — Roller Diameter: 50.8 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
3	C678C3CR	306.32	C	152.4	114.3	76.2	13.64
4	C678C4CR	399.29	C	152.4	114.3	76.2	35.00
5	C678C5CR	495.81	C	177.8	114.3	88.9	42.27
6	C678C6CR	592.84	C	203.2	114.3	101.6	66.36
7	C678C7CR	686.56	C	215.9	114.3	101.6	86.36
8	C678C8CR	783.08	C	215.9	114.3	101.6	109.09

698 CAST TOOTH SPROCKETS — PITCH 153.187 mm CHILLED RIM

FOR CHAINS NO.: 698, S698, S698HD

Tooth Face at Pitch Line: 34.925 mm — Roller Diameter: 68.326 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
5	C698C5CR	495.81	C	203.2	127	152.4	55.45
6	C698C6CR	591.31	C	203.2	127	152.4	61.36
7	C698C7CR	684.78	C	203.2	127	152.4	90.91
8	C698C8CR	785.37	C	203.2	127	152.4	125.00

CS720S CAST TOOTH SPROCKETS — PITCH 152.4 mm CHILLED RIM

FOR CHAINS NO.: CS720S, WH720CS

Tooth Face at Pitch Line: 25.4 mm — Roller Diameter: 36.576 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6.5P-13T	CS720C13HCR*	327.41	C	152.4	101.6	76.2	29.55
8.5P-17T	CS720C17HCR*	421.39	C	152.4	101.6	76.2	44.64
9	CS720C9HCR	444.75	C	152.4	101.6	76.2	36.36
9.5P-19T	CS720C19HCR*	469.39	C	152.4	101.6	76.2	52.41
10	CS720C10HCR	493.27	C	152.4	101.6	76.2	43.18
10.5P-21T	CS720C21HCR*	516.38	C	177.8	127.0	88.9	50.00
11	CS720C11HCR	541.02	C	177.8	127.0	88.9	47.73
11.5P-23T	CS720C23HCR*	564.90	C	177.8	127.0	88.9	58.05
12.5P-25T	CS720C25HCR*	612.65	C	177.8	127.0	88.9	64.23
13	CS720C13HCR	636.78	C	177.8	127.0	88.9	59.09
16	CS720C16HCR	781.05	C	177.8	127.0	88.9	81.82

★ Regular and DoubleLife (Hunting Tooth) Designs

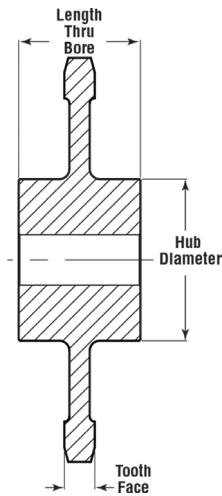
NOTE: Weights and Dimensions are approximate. Please consult [Martin](#) for max hub information. All Cast Sprockets available as Split Sprockets.

CHAINSAVER rims available on request.

HEAT TREAT available upon request.

Cast Iron Sprocket

Martin



720S

CAST TOOTH SPROCKETS — PITCH 152.4 mm CHILLED RIM

FOR CHAINS NO.: 720, 720S

Tooth Face at Pitch Line: 25.4 mm — Roller Diameter: 36.513 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C720C6CR	304.80	C	152.4	101.6	76.2	21.36
6.5P-13T	C720C13HCR*	327.91	C	152.4	101.6	76.2	24.14
8	C720C8CR	398.27	C	152.4	101.6	76.2	31.82
8.5P-17T	C720C17HCR*	421.89	C	152.4	101.6	76.2	41.91
9	C720C9CR	444.75	C	152.4	101.6	76.2	36.36
9.5P-19T	C720C19HCR*	469.39	C	152.4	101.6	76.2	48.77
10	C720C10CR	493.27	C	152.4	101.6	76.2	43.18
10.5P-21T	C720C21HCR*	516.38	C	152.4	101.6	76.2	50.00
11	C720C11CR	541.02	C	152.4	101.6	76.2	47.73
11.5P-23T	C720C23HCR*	612.65	C	152.4	101.6	76.2	59.77
12	C720C12CR	588.77	C	177.8	127.0	88.9	54.55
12.5P-25T	C720C25HCR*	612.65	C	177.8	127.0	88.9	59.77
13	C720C13CR	636.78	C	177.8	127.0	88.9	59.09
15	C720C15CR	733.04	C	177.8	127.0	88.9	70.45
16	C720C16CR	781.05	C	177.8	127.0	88.9	81.82
19	C720C19CR	925.58	C	190.5	127.0	95.25	100.00
20	C720C20CR	974.34	C	190.5	127.0	95.25	110.00
21	C720C21CR	1022.35	C	190.5	127.0	95.25	118.64
23	C720C23CR	1119.12	C	190.5	127.0	95.25	144.55
25	C720C25CR	1215.90	C	190.5	127.0	95.25	155.45

★ Regular and DoubleLife (Hunting Tooth) Designs

A730

CAST TOOTH SPROCKETS — PITCH 152.4 mm CHILLED RIM

FOR CHAINS NO.: 730, A730

Tooth Face at Pitch Line: 28.575 mm — Roller Diameter: 38.1 mm

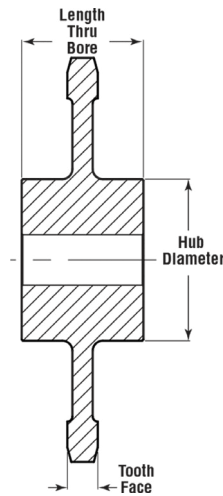
Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C730C6CR	304.80	C	152.4	101.6	76.2	21.77
8	C730C8CR	398.27	C	152.4	101.6	76.2	32.41
9	C730C9CR	445.52	C	152.4	101.6	76.2	38.86
9.5P-19T	C730C19HCR*	469.39	C	152.4	101.6	76.2	48.77
10P-20T	C730C20HCR*	493.27	C	152.4	101.6	76.2	52.45
11	C730C11CR	541.02	C	152.4	101.6	76.2	47.73
11.5P-23T	C730C23HCR*	564.90	C	152.4	101.6	76.2	47.50
12	C730C12CR	587.76	C	177.8	127	88.9	50.36
12.5P-25T	C730C25HCR*	612.65	C	177.8	127	88.9	53.59
13	C730C13CR	636.78	C	177.8	127	88.9	56.86
13.5P-27T	C730C27HCR*	660.91	C	177.8	127	88.9	60.23
14	C730C14CR	684.78	C	177.8	127	88.9	69.86
15	C730C15CR	733.04	C	177.8	127	88.9	77.27
16	C730C16CR	781.05	C	177.8	127	88.9	85.09
18	C730C18CR	877.57	C	203.2	127	101.6	102.36
24	C730C24CR	1163.07	C	203.2	127	101.6	165.23
27	C730C27CR	1465.07	C	203.2	127	101.6	185.45

★ Regular and DoubleLife (Hunting Tooth) Designs

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.

CHAINSAVER rims available on request.

HEAT TREAT available upon request.



823 CAST TOOTH SPROCKETS — PITCH 152.4 mm CHILLED RIM

FOR CHAINS NO.: 823

Tooth Face at Pitch Line: 28.702 mm — Roller Diameter: 19.812 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
8	C823C8CR	265.43	C	152.4	101.6	61.98	11.36
10	C823C10CR	328.93	C	152.4	101.6	80.77	20.45
11	C823C11CR	365.76	C	152.4	101.6	93.47	24.55
12	C823C12CR	392.68	C	152.4	101.6	100.08	25.45
13	C823C13CR	424.43	C	152.4	101.6	112.78	27.27
14	C823C14CR	456.69	C	177.8	101.6	125.48	29.55
16	C823C16CR	520.95	C	177.8	101.6	138.18	36.82
17	C823C17CR	552.96	C	190.5	101.6	150.88	39.09
18	C823C18CR	585.22	C	190.5	101.6	150.88	41.36
19	C823C19CR	616.2	C	203.2	101.6	152.40	43.18
24	C823C24CR	778.51	C	203.2	101.6	152.40	62.73

830 CAST TOOTH SPROCKETS — PITCH 152.4 mm CHILLED RIM

FOR CHAINS NO.: 830, 6830, 830R, HSB830, RR830, SR830

Tooth Face at Pitch Line: 33.325 mm — Roller Diameter: 29.362 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C830C6CR	304.80	C	152.4	101.6	101.6	26.59
8	C830C8CR	397.51	C	177.8	101.6	127.0	37.73
9	C830C9CR	445.52	C	177.8	101.6	127.0	43.18
10	C830C10CR	493.27	C	177.8	101.6	127.0	46.36
11	C830C11CR	538.48	C	177.8	101.6	127.0	47.73
11.5-23T	C830C23THCR★	564.13	C	190.5	127.0	139.7	56.82
12	C830C12CR	588.77	C	190.5	127.0	139.7	55.00
13	C830C13CR	636.78	C	215.9	127.0	152.4	64.55
15	C830C15CR	733.04	C	215.9	127.0	152.4	76.36
16	C830C16CR	781.05	C	215.9	127.0	152.4	81.82

★ Hunting Tooth

825 CAST TOOTH SPROCKETS — PITCH 101.6 mm CHILLED RIM

FOR CHAINS NO.: 825, SR825

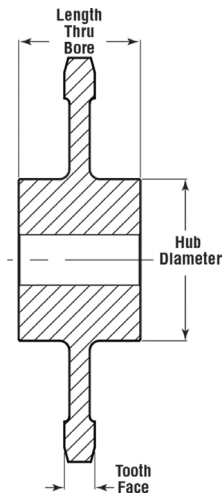
Tooth Face at Pitch Line: 31.75 mm — Roller Diameter: 29.362 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
10	C825C10CR	328.68	C	152.4	101.6	76.2	26.36
11	C825C11CR	360.68	C	152.4	101.6	76.2	29.55
12	C825C12CR	392.43	C	152.4	101.6	76.2	35.45
13	C825C13CR	424.43	C	152.4	101.6	76.2	37.27
14	C825C14CR	456.69	C	203.2	101.6	76.2	42.73
15	C825C15CR	488.70	C	203.2	101.6	101.6	50.91
16	C825C16CR	520.70	C	203.2	101.6	101.6	52.27
19	C825C19CR	617.22	C	203.2	101.6	101.6	63.64

NOTE: Weights and Dimensions are approximate. Please consult [Martin](#) for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprocket

Martin



844 CAST TOOTH SPROCKETS — PITCH 152.4 mm CHILLED RIM

FOR CHAINS NO.: 844, 6844, 6844M, 844R, HSB844, HSB844S, S844, S8S844, SR844

Tooth Face at Pitch Line: 53.975 mm— Roller Diameter: 30.226 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
8	C844C8CR	403.35	C	177.8	127.0	127.0	42.73
9	C844C9CR	445.52	C	177.8	127.0	127.0	50.91
10	C844C10CR	493.27	C	177.8	127.0	127.0	56.82
11	C844C11CR	541.02	C	177.8	127.0	127.0	63.64
12	C844C12CR	588.77	C	203.2	152.4	152.4	72.73
13	C844C13CR	636.78	C	203.2	152.4	152.4	77.73
15	C844C15CR	733.04	C	203.2	152.4	152.4	90.91
16	C844C16CR	781.05	C	203.2	152.4	152.4	98.64
19	C844C19CR	925.83	C	203.2	152.4	152.4	125.00

E922 CAST TOOTH SPROCKETS — PITCH 152.4 mm CHILLED RIM

FOR CHAINS NO.: 1751, ER922, MRS927, SS927

Tooth Face at Pitch Line: 41.275 mm— Roller Diameter: 88.9 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	CE922C6CR	457.2	C	203.2	152.4	150.88	50.91
8	CE922C8CR	597.41	C	203.2	152.4	150.88	77.27

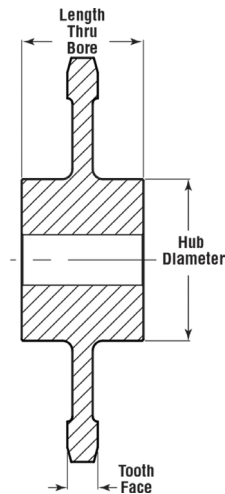
856 CAST TOOTH SPROCKETS — PITCH 152.4 mm CHILLED RIM

FOR CHAINS NO.: 844, 6844, 6844M, 844R, HSB844, HSB844S, S844, S8S844, SR844

Tooth Face at Pitch Line: 53.975 mm— Roller Diameter: 30.226 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
7	C856C7	351.28	C	165.1	127	120.65	55.45
8	C856C8	398.27	C	165.1	127	120.65	59.09
10	C856C10	493.27	C	177.8	127	120.65	90.91
11	C856C11	541.02	C	177.8	127	120.65	104.55
12	C856C12	588.77	C	177.8	139.7	127.0	111.36
13	C856C13	636.78	C	190.5	139.7	127.0	118.18
14	C856C14	684.78	C	190.5	139.7	127.0	129.55
15	C856C15	733.04	C	190.5	139.7	127.0	136.36

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.
 CHAINSAVER rims available on request.
 HEAT TREAT available upon request.



F933 CAST TOOTH SPROCKETS — PITCH 228.6 mm CHILLED RIM

FOR CHAINS NO.: 933, B964R, E933, ER933, F-933, F929, F932, F933, F940, FB40, FR933, RS933F, RS933P, SS932, SS933, SS940

Tooth Face at Pitch Line: 31.75 mm — Roller Diameter: 101.6 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	CF933C6CR	457.20	C	203.2	203.2	150.88	42.27
7	CF933C7CR	526.80	C	203.2	203.2	150.88	54.55
8	CF933C8CR	597.41	C	203.2	203.2	150.88	69.09

B963R CAST TOOTH SPROCKETS — PITCH 228.6 mm CHILLED RIM

FOR CHAINS NO.: 809, 925R, B963R, E931, F922, F930, FR922, SS4002, SS922, SS930

Tooth Face at Pitch Line: 28.575 mm — Roller Diameter: 88.9 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	CB963CR6CR	457.2	C	152.4	152.4	74.42	33.64
8	CB963CR8CR	597.41	C	203.2	152.4	87.38	68.18
9	CB963CR9CR	668.27	C	203.2	152.4	87.38	72.73
10	CB963CR10CR	739.65	C	203.2	152.4	87.38	79.55
11	CB963CR11CR	811.53	C	203.2	152.4	101.6	82.27
12	CB963CR12CR	883.16	C	203.2	152.4	101.6	88.64

951 CAST TOOTH SPROCKETS — PITCH 228.6 mm CHILLED RIM

FOR CHAINS NO.: 1734, 1906, 2183, 2184, 1131 R, 126C, 126CMR, 156CMR, 2184AC, 2184R, 6 Spec., 626R, 631 R, F2183, LXS6438, MR126C, MR156C, S1131, S951, SS1131, SS2184, SS314, SS951, U1131

Tooth Face at Pitch Line: 26.975 mm — Roller Diameter: 76.2 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C951C6CR	304.80	C	152.4	152.4	100.08	28.18
8	C951C8CR	398.27	C	152.4	152.4	100.08	35.45
9	C951C9CR	445.52	C	152.4	152.4	100.08	41.82
12	C951C12CR	588.77	C	203.2	152.4	112.78	69.55
13	C951C13CR	635.76	C	203.2	152.4	112.78	79.55
14	C951C14CR	684.78	C	203.2	152.4	112.78	86.36
16	C951C16CR	781.05	C	203.2	152.4	112.78	102.27
25	C951C25CR	1215.90	C	203.2	152.4	112.78	159.09

D963R CAST TOOTH SPROCKETS — PITCH 228.6 mm CHILLED RIM

FOR CHAINS NO.: D-963R

Tooth Face at Pitch Line: 44.45 mm — Roller Diameter: 88.9 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
8	CD963C8CR	597.41	C	254	203.2	163.58	77.27
9	CD963C9CR	668.27	C	254	203.2	163.58	82.73
10	CD963C10CR	739.65	C	254	203.2	163.58	90.00
11	CD963C11CR	811.53	C	254	203.2	163.58	97.73
12	CD963C12CR	883.16	C	254	203.2	163.58	104.55

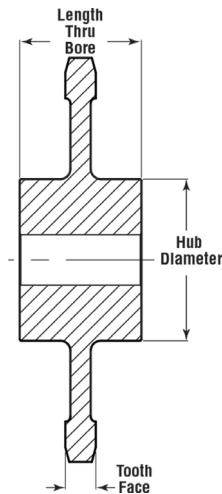
NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.

CHAINSAVER rims available on request.

HEAT TREAT available upon request.

Cast Iron Sprocket

Martin



E963R CAST TOOTH SPROCKETS — PITCH 228.6mm CHILLED RIM

FOR CHAINS NO.: E-963R

Tooth Face at Pitch Line: 31.75 mm — Roller Diameter: 101.6 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
8	CE963C8	597.41	C	254	203.2	163.58	69.09
9	CE963C9	668.27	C	254	203.2	163.58	74.55
10	CE963C10	739.65	C	254	203.2	163.58	81.36
11	CE963C11	811.53	C	254	203.2	163.58	88.18
12	CE963C12	883.16	C	254	203.2	163.58	101.82

F963R CAST TOOTH SPROCKETS — PITCH 228.6mm CHILLED RIM

FOR CHAINS NO.: F-963R (Hitachi)

Tooth Face at Pitch Line: 31.75 mm — Roller Diameter: 101.6 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	CF963C8	457.20	C	203.2	152.4	152.4	36.36
8	CF963C9	597.41	C	203.2	152.4	152.4	36.36

998 CAST TOOTH SPROCKETS — PITCH 229.387 mm CHILLED RIM

FOR CHAINS NO.: 998, S998, SS5998

Tooth Face at Pitch Line: 34.925 mm — Roller Diameter: 68.326 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
4	C197C6CR	597.66	C	228.6	152.4	163.58	88.64
5	C197C7CR	740.16	C	228.6	152.4	163.58	117.27
6	C197C8CR	884.17	C	228.6	152.4	163.58	147.73

1030 CAST TOOTH SPROCKETS — PITCH 78.105 mm CHILLED RIM

FOR CHAINS NO.: 1030, 1037, 1359, CHAMP 3, JS-1030, MSR-1539, MXS-1031, MXS-3075, MXS-40, R1033, R1035, R1037, ROA1031, ROA1032, ROA40 HYPER, RS1539, CHAMP3, SJLR1037, SS40, SS554, US-1030

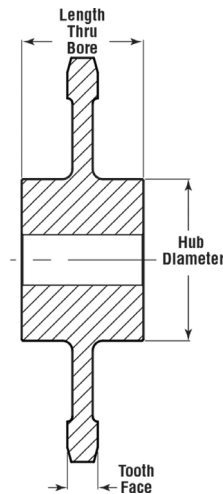
Tooth Face at Pitch Line: 31.75 mm — Roller Diameter: 31.75 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C1030C6CR	156.21	C	76.2	76.2	61.98	9.55
8	C1030C8CR	204.22	C	101.6	101.6	61.98	10.91
9	C1030C9CR	228.35	C	101.6	101.6	61.98	20.00
10	C1030C10CR	252.73	C	127.0	101.6	87.38	19.55
11	C1030C11CR	277.37	C	127.0	101.6	87.38	23.18
12	C1030C12CR	301.75	C	127.0	101.6	87.38	22.73
13	C1030C13CR	326.39	C	127.0	101.6	87.38	29.09
14	C1030C14CR	351.03	C	127.0	101.6	87.38	33.18
15	C1030C15CR	375.67	C	152.4	101.6	100.08	34.55
16	C1030C16CR	400.30	C	152.4	101.6	100.08	37.27
17	C1030C17CR	424.94	C	152.4	101.6	100.08	45.45
18	C1030C18CR	449.83	C	152.4	101.6	100.08	47.73
19	C1030C19CR	474.47	C	152.4	101.6	100.08	50.91
20	C1030C20CR	499.36	C	152.4	101.6	100.08	45.45
21	C1030C21CR	524.00	C	190.5	127.0	123.95	47.73
22	C1030C22CR	548.89	C	190.5	127.0	123.95	59.09
23	C1030C23CR	573.28	C	190.5	127.0	123.95	60.00
24	C1030C24CR	598.42	C	190.5	127.0	123.95	65.91
26	C1030C26CR	647.95	C	190.5	127.0	123.95	67.27
27	C1030C27CR	672.85	C	190.5	127.0	123.95	75.00
28	C1030C28CR	697.48	C	190.5	127.0	123.95	77.73
30	C1030C30CR	747.27	C	203.2	127.0	125.48	81.82
31	C1030C31CR	771.91	C	203.2	127.0	125.48	85.91
32	C1030C32CR	796.80	C	203.2	127.0	125.48	87.73
33	C1030C33CR	821.69	C	203.2	127.0	125.48	97.73
34	C1030C34CR	846.58	C	203.2	127.0	125.48	98.64
35	C1030C35CR	871.47	C	241.3	165.1	149.35	100.00
36	C1030C36CR	896.11	C	241.3	165.1	149.35	104.09
37	C1030C37CR	921.00	C	241.3	165.1	149.35	106.36
38	C1030C38CR	945.90	C	241.3	165.1	149.35	114.55
39	C1030C39CR	971.55	C	241.3	165.1	149.35	113.64
40	C1030C40CR	995.43	C	241.3	165.1	149.35	118.64
42	C1030C42CR	1045.21	C	241.3	165.1	149.35	136.36
44	C1030C44CR	1094.74	C	241.3	165.1	149.35	145.91
46	C1030C46CR	1144.52	C	241.3	165.1	149.35	150.00
48	C1030C48CR	1194.31	C	254.0	165.1	149.35	272.73
55	C1030C55CR	1368.04	C	254.0	165.1	174.75	355.45

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.

CHAINSAVER rims available on request.

HEAT TREAT available upon request.



1113 CAST TOOTH SPROCKETS — PITCH 102.616 mm CHILLED RIM

FOR CHAINS NO.: 3420, A3420, B3420, R02113, RS1113, SR3113, SS1113, SS60
Tooth Face at Pitch Line: 28.575 mm — Roller Diameter: 50.8 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C1113C6CR	205.23	C	101.60	76.20	61.98	10.91
8	C1113C8CR	268.22	C	101.60	101.60	74.68	17.27
9	C1113C9CR	299.97	C	127.00	101.60	80.77	18.18
10	C1113C10CR	331.98	C	127.00	101.60	93.47	20.45
11	C1113C11CR	364.24	C	127.00	127.00	100.08	22.73
12	C1113C12CR	396.49	C	152.40	127.00	112.78	27.27
13	C1113C13CR	428.75	C	152.40	127.00	125.48	30.91
14	C1113C14CR	461.26	C	152.40	127.00	125.48	38.64
16	C1113C16CR	526.03	C	152.40	127.00	125.48	43.18
17	C1113C17CR	558.55	C	152.40	127.00	125.48	47.27
18	C1113C18CR	601.22	C	203.20	152.40	125.48	50.00
24	C1113C24CR	786.13	C	203.20	152.40	125.48	80.91

1131 CAST TOOTH SPROCKETS — PITCH 152.4 mm CHILLED RIM

FOR CHAINS NO.: 2183, 6SP, A2184, RS1131

Tooth Face at Pitch Line: 31.75 mm — Roller Diameter: 76.2 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C1131C6CR	304.80	C	152.4	127.0	100.08	28.18
8	C1131C8CR	398.27	C	152.4	127.0	100.08	35.45
9	C1131C9CR	445.52	C	152.4	127.0	100.33	54.55
12	C1131C12CR	588.77	C	177.8	152.4	112.78	69.55
13	C1131C13CR	635.76	C	177.8	152.4	125.48	79.55
14	C1131C14CR	684.78	C	203.2	152.4	127.00	86.36
16	C1131C16CR	781.05	C	203.2	152.4	127.00	102.27
24	C1131C24CR	1215.90	C	203.2	152.4	127.00	159.09

1120 CAST TOOTH SPROCKETS — PITCH 101.6 mm CHILLED RIM

FOR CHAINS NO.: 1120 (TBL 13-47), 2761, 4, 40SP, LXS 4019, RR1120 (TBL 13-14 R95), RS4029, SS4

Tooth Face at Pitch Line: 19.05 mm — Roller Diameter: 38.1 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
5	C1120C5CR	172.97	C	88.9	76.2	55.37	5.45
6	C1120C6CR	203.20	C	101.6	76.2	61.98	10.45
7	C1120C7CR	234.19	C	114.3	76.2	93.47	32.73
8	C1120C8CR	265.43	C	114.3	76.2	93.47	13.18
9	C1120C9CR	297.18	C	127.0	76.2	100.08	17.27
10	C1120C10CR	328.68	C	127.0	101.6	100.08	18.18
11	C1120C11CR	360.43	C	152.4	101.6	107.95	22.73
12	C1120C12CR	392.43	C	152.4	101.6	107.95	29.55
14	C1120C14CR	456.69	C	152.4	101.6	107.95	35.00
15	C1120C15CR	488.70	C	152.4	101.6	107.95	39.09
16	C1120C16CR	520.70	C	203.2	127.0	152.40	44.09
18	C1120C18CR	585.22	C	203.2	127.0	152.40	52.27
19	C1120C19CR	617.22	C	203.2	127.0	152.40	56.82
22	C1120C22CR	713.99	C	203.2	127.0	152.40	75.00
24	C1120C24CR	778.51	C	203.2	127.0	152.40	86.36
31	C1120C31CR	1004.32	C	241.3	152.4	177.80	110.91
35	C1120C35CR	1133.35	C	241.3	152.4	177.80	146.36

F1122 CAST TOOTH SPROCKETS — PITCH 304.8 mm CHILLED RIM

FOR CHAINS NO.: A1263, B1263R, FR1222, SS1222

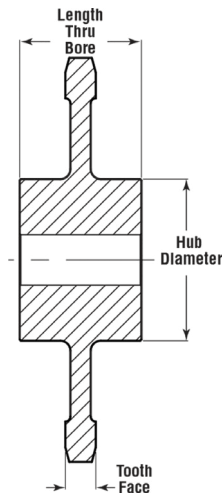
Tooth Face at Pitch Line: 25.4 mm — Roller Diameter: 114.3 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	CF1222C6CR	609.60	C	190.5	127.0	150.88	65.00
8	CF1222C8CR	796.54	C	203.2	127.0	150.88	95.45

NOTE: Weights and Dimensions are approximate. Please consult [Martin](#) for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.

Cast Iron Sprocket

Martin



2180 CAST TOOTH SPROCKETS — PITCH 152.4 mm CHILLED RIM

Tooth Face at Pitch Line: 28.575 mm — Roller Diameter: 57.15 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C2180C6CR	304.80	C	152.4	127.0	101.6	22.73
8	C2180C8CR	304.90	C	152.4	127.0	101.6	29.09
16	C2180C16CR	304.10	C	203.2	152.4	152.4	90.91
20	C2180C20CR	304.11	C	254.0	152.4	203.2	118.18

9250 CAST TOOTH SPROCKETS — PITCH 63.5 mm CHILLED RIM

Tooth Face at Pitch Line: 19.05 mm — Roller Diameter: 28.702 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C9250C6CR	127.00	C	76.2	69.85	38.1	2.27
7	C9250C6CR	146.30	C	76.2	69.85	38.1	4.09
8	C9250C6CR	165.86	C	101.6	69.85	50.8	4.55
10	C9250C6CR	205.49	C	101.6	76.20	63.5	5.91
11	C9250C6CR	225.30	C	101.6	76.20	63.5	7.27
12	C9250C6CR	245.36	C	101.6	76.20	63.5	8.18
14	C9250C6CR	285.50	C	152.4	76.20	76.2	10.45
15	C9250C6CR	305.56	C	152.4	76.20	76.2	12.73
16	C9250C6CR	325.37	C	152.4	76.20	76.2	13.64

1240 CAST TOOTH SPROCKETS — PITCH 103.2002 mm CHILLED RIM

FOR CHAINS NO.: 1240, 1241, 1244, IS-4106, IS-4110, LXS1242, R1248, RDA124, RDA1242, SS124

Tooth Face at Pitch Line: 44.45 mm — Roller Diameter: 44.45 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
6	C1240C6CR	206.50	C	101.6	101.60	58.67	13.64
7	C1240C7CR	351.28	C	133.4	120.65	82.55	17.73
8	C1240C8CR	274.83	C	165.1	127.00	103.12	23.64
9	C1240C9CR	301.75	C	165.1	127.00	103.12	27.73
10	C1240C10CR	334.01	C	165.1	127.00	103.12	31.36
11	C1240C11CR	366.27	C	165.1	127.00	103.12	35.45
12	C1240C12CR	398.78	C	177.8	152.40	115.82	43.64
13	C1240C13CR	431.29	C	177.8	152.40	115.82	46.36
14	C1240C14CR	463.80	C	177.8	152.40	115.82	50.91
15	C1240C15CR	496.32	C	177.8	152.40	115.82	55.45
16	C1240C16CR	528.83	C	203.2	158.75	134.87	63.64
17	C1240C17CR	561.59	C	203.2	158.75	134.87	64.55
18	C1240C18CR	594.36	C	203.2	158.75	134.87	73.18
19	C1240C19CR	626.87	C	203.2	158.75	134.87	79.55
21	C1240C21CR	692.40	C	203.2	158.75	134.87	95.45
22	C1240C22CR	725.17	C	203.2	158.75	134.87	99.09
24	C1240C24CR	790.45	C	203.2	158.75	134.87	109.09
25	C1240C25CR	848.87	C	228.6	158.75	153.92	113.64
28	C1240C28CR	921.77	C	228.6	158.75	153.92	140.91
29	C1240C29CR	954.53	C	228.6	171.45	153.92	150.00
30	C1240C30CR	987.30	C	254.0	171.45	181.10	157.27
32	C1240C32CR	1052.83	C	254.0	171.45	181.10	171.82
34	C1240C34CR	1118.36	C	254.0	171.45	181.10	182.73
37	C1240C37CR	1216.66	C	279.4	196.85	181.10	214.09

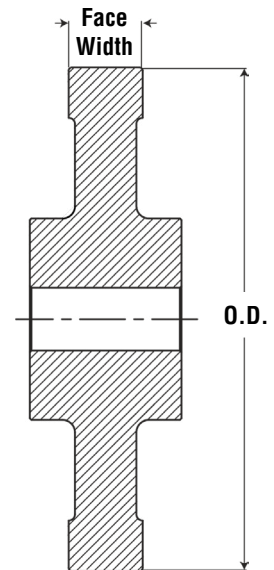
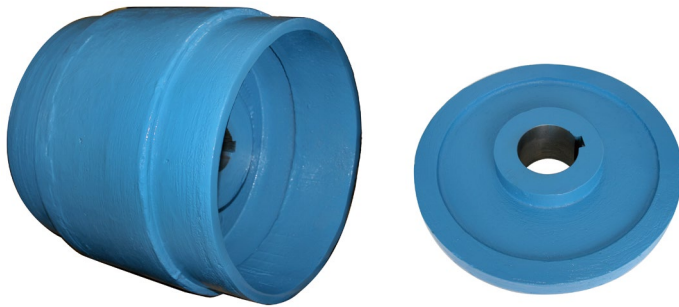
4850 CAST TOOTH SPROCKETS — PITCH 304.8 mm CHILLED RIM

FOR CHAINS NO.: RS4850, S81265R

Tooth Face at Pitch Line: 50.8 mm — Roller Diameter: 76.2 mm

Number of Teeth	Catalog Number	Pitch Diameter	Style	Hub Diameter	Length Thru Bore	Max. Bore	Approx. Weight (Kilos)
8	C4850C8CR	798.32	C	254	152.4	152.4	100

NOTE: Weights and Dimensions are approximate. Please consult *Martin* for max hub information. All Cast Sprockets available as Split Sprockets.
CHAINSAVER rims available on request.
HEAT TREAT available upon request.



Martin traction wheels are offered as either solid construction or as a solid hub with segmental teeth. Segmental traction wheels can greatly reduce downtime since you do not have to disassemble the components around it. Traction wheels are in bucket elevators and can withstand abrasive materials.

Cast Traction Wheels and Drum Flanged Traction Wheels

Chain: 78.88

F = 23.876

Part Number	Outside Diameter	Face Width	Weight Each (Kilos)
C10.0TW	254.0	23.88	13.64
C12.0TW	304.8	23.88	20.45
C12.5TW	317.5	23.88	22.73
C13.25TW	336.6	23.88	26.36
C14.0TW	355.6	23.88	28.18
C15.0TW	381.0	23.88	29.55
C15.5TW	393.7	23.88	30.91
C16.0TW	406.4	23.88	31.82
C18.0TW	457.2	23.88	34.09
C19.0TW	482.6	23.88	36.36
C20.0TW	508.0	23.88	38.64

Chain: H102

F = 158.75

Part Number	Outside Diameter	Face Width	Weight Each (Kilos)
C8.5TW	215.90	158.75	34.55
C10.0TW	254.00	158.75	57.27
C11.5TW	292.10	158.75	84.09
C13.0TW	330.20	158.75	65.45
C14.63TW	371.60	158.75	69.55
C16.25TW	412.75	158.75	73.64
C17.75TW	450.85	158.75	86.36
C19.38TW	492.25	158.75	97.73

Chain: C102B, C110, C102-1/2

F=47.752

Part Number	Outside Diameter	Face Width	Weight Each (Kilos)
C12.0TW	304.8	47.75	22.73
C13.5TW	342.9	47.75	27.27
C14.0TW	355.6	47.75	28.64
C16.63TW	371.6	47.75	30.91
C15.75TW	400.0	47.75	35.45
C16.75TW	425.5	47.75	40.45
C17.0TW	431.8	47.75	41.82
C18.0TW	457.2	47.75	45.45
C19.75TW	501.7	47.75	49.09
C21.0TW	533.4	47.75	53.18
C22.0TW	558.8	47.75	57.73
C22.75TW	577.9	47.75	61.36
C23.0TW	584.2	47.75	63.18
C23.75TW	603.3	47.75	65.00
C27.63TW	701.8	47.75	72.73
C29.63TW	752.6	47.75	75.45
C33.0TW	838.2	47.75	79.55

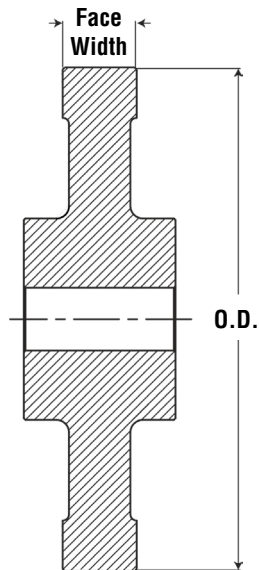
Chain: H82, C131, 823, 4103, S131, 103, 730

F = 28.702

Part Number	Outside Diameter	Face Width	Weight Each (Kilos)
C7.0TW	177.8	28.7	11.36
C9.63TW	244.6	28.7	17.27
C14.63T	371.6	28.7	22.27
C16.0TW	406.4	28.7	27.27
C17.0TW	431.8	28.7	31.82
C18.0TW	457.2	28.7	34.09
C20.0TW	508.0	28.7	40.91
C22.0TW	558.8	28.7	52.27
C22.5TW	571.5	28.7	56.82
C24.0TW	609.6	28.7	61.36
C29.38TW	746.3	28.7	77.27

Traction Wheels

Martin



Chain: H104

F = 101.6

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (Kilos)
C10.5TW	266.70	101.6	304.8	56.82
C12.38TW	314.45	101.6	304.8	65.91
C14.0TW	355.60	101.6	304.8	77.27
C16.0TW	406.40	101.6	304.8	93.18
C17.75TW	450.85	101.6	304.8	113.64
C19.75TW	501.65	101.6	304.8	138.64
C20.0TW	508.76	101.6	304.8	156.82

Chain: H110

F = 225.552

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (Kilos)
C10.25TW	260.35	225.55	416.05	79.55
C14.0TW	355.60	225.55	416.05	113.64
C15.0TW	403.35	225.55	416.05	131.82
C17.75TW	450.85	225.55	416.05	152.27
C19.63TW	498.60	225.55	416.05	165.91

Chain: C111

F = 57.15

Part Number	Outside Diameter	Face Width	Weight Each (Kilos)
C9.5TW	241.30	57.15	22.73
C14.5TW	369.82	57.15	38.64
C15.5TW	393.70	57.15	41.36
C18.0TW	457.20	57.15	47.73
C20.0TW	508.00	57.15	61.36
C22.0TW	558.80	57.15	65.00
C23.0TW	584.20	57.15	66.36
C23.75TW	603.25	57.15	67.73
C26.0TW	660.40	57.15	75.00
C29.5TW	749.30	57.15	90.00
C30.75TW	781.05	57.15	95.45

Chain: H112

F = 228.6

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (Kilos)
C16.75TW	425.45	228.6	419.1	90.91
C19.25TW	488.95	228.6	419.1	104.55

Chain: H116

F = 330.2

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (Kilos)
C16.88TW	428.75	330.2	520.7	179.55
C19.0TW	482.60	330.2	520.7	220.45
C21.75TW	552.45	330.2	520.7	250.00

Chain: H118

F = 330.2

Part Number	Outside Diameter	Face Width	Weight Each (Kilos)
C13.88TW	352.55	330.2	225.00
C16.5TW	419.10	330.2	254.55

Chain: C132

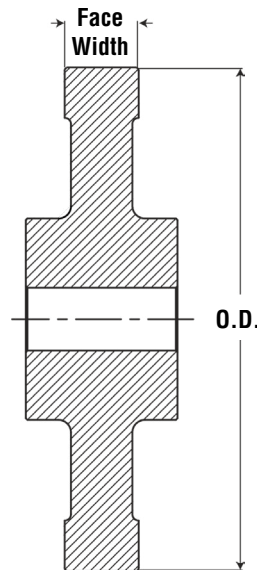
F = 69.85

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (Kilos)
C13.0TW	330.20	69.85		54.55
C13.75TW	349.25	69.85		56.36
C16.0TW	406.40	69.85		58.18
C16.25TW	412.75	69.85	355.6	231.82
C17.0TW	431.80	69.85		62.73
C18.0TW	457.20	69.85		66.82
C18.25TW	463.55	69.85	355.6	259.09
C20.25TW	514.35	69.85	355.6	281.82
C21.63TW	549.40	69.85		84.55
C22.0TW	558.80	69.85		86.36
C24.0TW	609.60	69.85		93.18
C26.19TW	665.23	69.85		95.45
C27.75TW	704.85	69.85		102.27
C30.0TW	762.00	69.85		127.27

Unit Number H480

F = 282.702

Part Number	Outside Diameter	Face Width	Drum Width	Weight Each (Kilos)
C13.88TW	352.55	282.7	558.8	200.00
C16.25TW	412.75	282.7	558.8	231.82
C18.75TW	476.25	282.7	558.8	245.45
C21.13TW	536.70	282.7	558.8	272.73
C23.75TW	603.25	282.7	558.8	286.36



Chain: SS40, 825, 830

F = 31.75 mm

Part Number	Outside Diameter	Face Width	Weight Each (Kilos)
C10.5TW	266.70	31.75	20.45
C14.0TW	355.60	31.75	27.27
C15.5TW	393.70	31.75	30.91
C16.0TW	406.40	31.75	32.73
C17.0TW	431.80	31.75	35.91
C18.25TW	463.55	31.75	39.09
C20.0TW	508.00	31.75	43.18
C22.0TW	558.80	31.75	47.73
C24.0TW	609.60	31.75	54.55
C27.75TW	704.85	31.75	63.64
C31.0TW	787.40	31.75	72.73

Chain: 844, 844R

F = 54.102 mm

Part Number	Outside Diameter	Face Width	Weight Each (Kilos)
C12.0TW	304.80	54.1	29.55
C16.0TW	406.40	54.1	40.91
C19.75TW	501.65	54.1	49.55
C22.25TW	565.15	54.1	59.09
C23.75TW	603.25	54.1	67.27
C27.75TW	704.85	54.1	78.18
C29.0TW	736.60	54.1	86.36

Chain: S856

F = 66.802 mm

Part Number	Outside Diameter	Face Width	Weight Each (Kilos)
C20.0TW	508.0	66.8	77.27
C21.5TW	546.1	66.8	85.00
C26.0TW	660.4	66.8	90.91
C27.75TW	704.9	66.8	99.09
C29.5TW	749.3	66.8	102.27
C30.0TW	762.0	66.8	107.27

F = 17.526 mm

Chain: 955

Part Number	Outside Diameter	Face Width	Weight Each (Kilos)
C08.0TW	203.2	17.53	10.91
C18.75TW	476.3	17.53	29.55

F = 25.4 mm

Chain: 720

Part Number	Outside Diameter	Face Width	Weight Each (Kilos)
C15.0TW	381.00	25.4	28.18
C15.5TW	393.70	25.4	29.55
C18.25TW	463.55	25.4	38.64

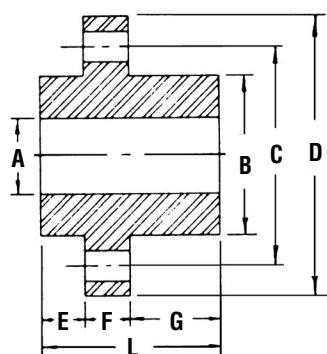
Segmental Hubs



Segmental sprockets greatly reduce the labor costs as well as the downtime associated with replacing worn standard type sprockets. Worn segments can be replaced by simply disassembling the unit, eliminating the need to remove shaft and or bearing assemblies as well as the need to re-align the hub.

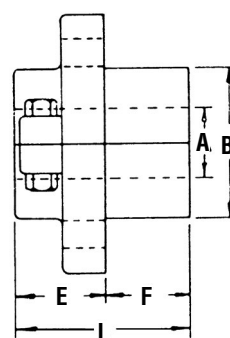
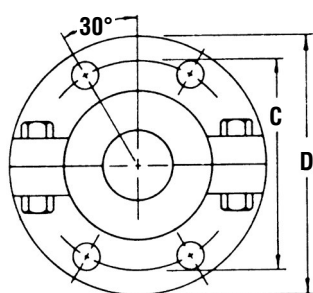
Solid Hub Bodies

Solid hub bodies are recommended for new installations. They are available precisely machined of high quality cast iron or USA grade alloy steel.



Split Hub Bodies

Split hubs can be easily installed on existing installations without the need to remove the shaft, bearings or the chain. They are available precisely machined of high quality cast iron or USA grade alloy steel.



Steel Solid Hub

Part Number	Outside Diameter	Bore Range		Length Thru Bore Range	
		Minimum	Maximum	Minimum	Maximum
MUS10	304.8	49.28	125.48	107.95	152.4
MUS12	368.3	49.28	150.88	107.95	152.4
MUS16	469.9	49.28	214.38	107.95	203.2
MUS20	571.5	61.98	252.48	127.00	241.3
MUS25	698.5	49.28	214.38	139.70	279.4
MUS35	965.2	49.28	214.38	139.70	279.4

Cast Solid Hub

Part Number	Outside Diameter	Bore Range		Length Thru Bore Range	
		Minimum	Maximum	Minimum	Maximum
MUS10C	304.8	49.28	112.78	107.95	152.4
MUS12C	368.3	49.28	125.48	107.95	152.4
MUS16C	469.9	49.28	176.28	107.95	203.2
MUS20C	571.5	61.98	176.28	127.00	241.3

Steel Split Hub

Part Number	Outside Diameter	Bore Range		Length Thru Bore Range	
		Minimum	Maximum	Minimum	Maximum
MUS12S	368.3	49.28	125.48	171.45	196.85
MUS16S	469.9	49.28	150.88	171.45	196.85
MUS20S	571.5	49.28	227.08	171.45	222.25
MUS25S	698.5	49.28	201.68	171.45	222.25
MUS35S	965.2	49.28	227.08	171.45	222.25

Cast Split Hub

Part Number	Outside Diameter	Bore Range		Length Thru Bore Range	
		Minimum	Maximum	Minimum	Maximum
MUS10SC	304.8	49.28	61.98	142.88	142.88
MUS12SC	368.3	49.28	100.08	142.88	177.80
MUS16SC	469.9	49.28	125.48	165.10	209.55
MUS20SC	571.5	61.98	188.98	165.10	282.45

★ Maximum bores shown are maximum bores with standard keyseat and setscrew.

Segmental Rim Sprockets and Traction Wheels

Cast Rims

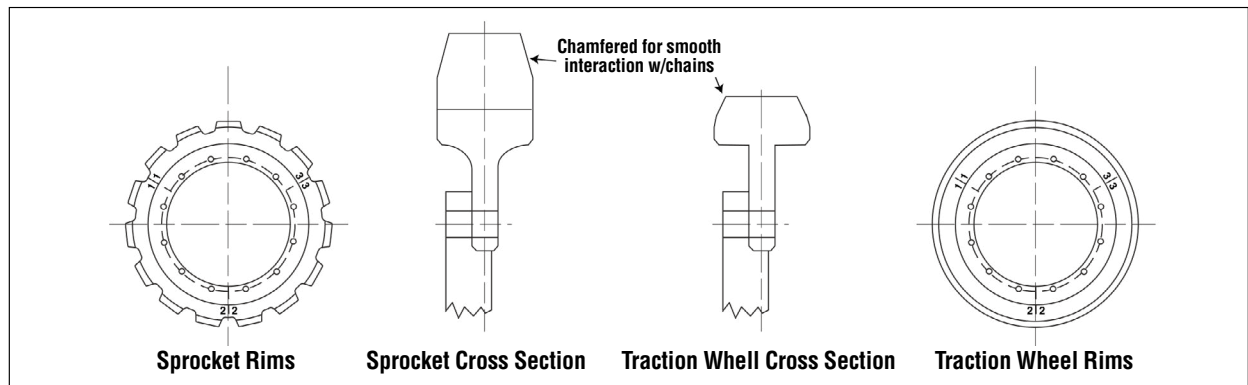
Each traction wheel rim and sprocket rim is induction hardened to the highest practical hardness around the entire circumference. The hardness depth is controlled to give the longest wear life, yet leaving the interior tough and ductile-perfect qualities for absorbing the impact and shock loads encountered in elevator-conveyor service. Segmental sprocket rims can be reversed (back side of tooth becomes the working face), in order to maximize wear.

Segmental traction wheel rims can be easily installed, no need to even remove the chain in order to replace worn out rims. No burning or cutting is necessary.

The "T" head traction wheel design moves the center of the chain load more closely over the body flange, thus reducing the possibility of hub fatigue problems. Segmental rim traction wheels are split with cuts in the rims that are made diagonally. These diagonal cuts eliminate the possibility of the segments spalling or chipping at the line of split as a result of chain bushing or barrel impact.

The sides of the segmental traction wheel and sprocket rims are chamfered to allow the chain to "enter" and "leave" smoothly without damaging the chain components.

All rims are furnished with high strength UNC thread nuts and bolts as standard.



Available Cast Traction Wheel Rims (mm)

Rex Chain No.	Link-Belt Chain No.	No. of Teeth	Use Body No.*	Pitch Dia.	Wt. Each Kilos.	Pitch Dia.
S110 A102B S102B S102-1/2 S102-1/2	SBS110 C102B SBS102B C102-1/2 SBS102-1/2	24	16	1167.64	0.80	2921
ES111 A111	SBS111 C111	22 24 26 30	16 16 20 20	849.63 875.54 1003.05 1156.72	1.02	2794 3302 3556 4191
RS856 ER857 ER956	SBX856 SBX2857	20 22 24 26 28 30	12 16 16 20 20 20	974.34 1070.86 1167.64 1264.41 1368.81 1457.96	1.25	2286 2921 3683 3937 4318 4699
ER859 ER864	SBX2856 SBX2864	24 26 30 36 42 49	16 20 20 20 35 35	1167.64 1264.41 1457.96 1748.54 2039.37 2378.71	1.59	4191 4699 5461 6731 7620 9525

Keyways and Setscrews



Keyseating, Keys and Setscrews

All *Martin* bored-to-size Cast Iron Sprockets include a keyway and two setscrews. All parts are shipped less key stock. Keyway and setscrew sizes are supplied according to the table below, unless specified. Our standard setscrew locations are one over the keyway and one at 90 degrees.

Standard Keyways and Setscrews (mm)

Bore (mm)	Keyway Width X Depth	Diameter Of Screw	Bore (mm)	Keyway Width X Depth	Diameter Of Screw
12.70 to 14.22	3.30 × 1.52	2.54	58.67 to 69.85	16.00 to 7.87	16.00
16.00 to 22.35	4.83 × 2.29	6.35	71.37 to 82.55	19.05 to 9.65	16.00
23.88 to 31.75	6.35 × 3.30	7.87	84.07 to 95.25	22.35 to 11.18	19.05
33.27 to 35.05	7.87 × 4.06	9.65	96.77 to 114.30	25.40 to 12.70	19.05
36.58 to 44.45	9.65 × 4.83	9.65	115.82 to 139.70	31.75 to 16.00	22.35
45.97 to 57.15	12.70 × 6.35	12.70	141.22 to 165.10	38.10 to 19.05	25.40



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