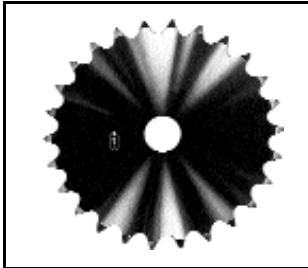


SPROCKETS

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Metric Sprockets ISO STANDARDS

Types A - B & C Stock Sprockets



**TYPE A
SIMPLEX**



**TYPE B
SIMPLEX**



**TYPE C
TRIPLEX**



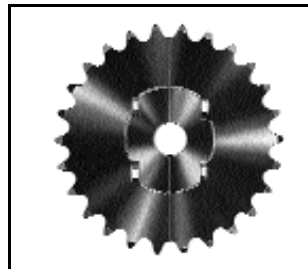
**TYPE B
DUPLEX**



**Taper Bushed
SIMPLEX**



**Taper Bushed
DUPLEX**



**INSTANT
SPLIT SPROCKET**



**Taper Bushed
DOUBLE-SIMPLEX
HARDENED TEETH
Double Simplex**

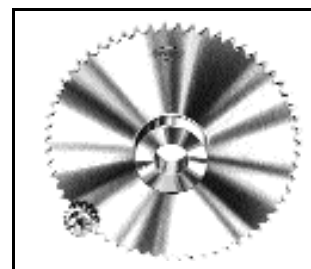
Made-to-Order



**QD
SIMPLEX
QD" Sprockets**



**IDLER
BALL BEARING
Idler Sprockets**



**TYPE B
SIMPLEX
STAINLESS
Stainless Steel**

ISO 05B-1

0.315 INCH (8 mm) PITCH **SIMPLEX**

CHAIN DATA:

BS 228/3

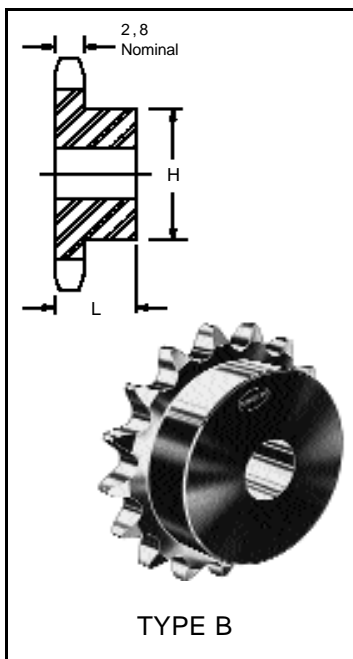
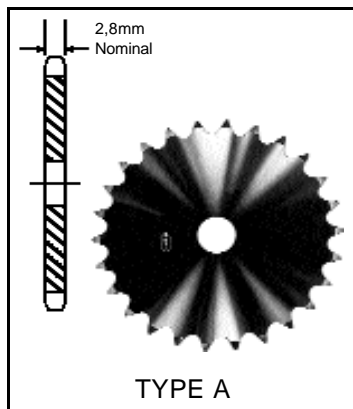
ISO 05B-1

PITCH: 8mm (0.315 in.)

ROLLER DIAMETER: 5mm (.197 in.)

ROLLER WIDTH: 3mm (.118 in.)

TENSILE: 910 kilos (2000 lbs.)



Simplex-Type B — Steel/Cast

Simplex-Type A — Steel

No.	Pitch Diameter	Catalog Number	Bore		Hub		Weight (Approx.)	Catalog Number	Bore Stock	Weight (Approx.)
			Stock	Max.	H	L				
Teeth	MM		MM	MM	MM	MM	Kilos		MM	Kilos
8	20,90	05B8*	6	6	13	12	0,02	05A8	6	0,01
9	23,39	05B9	6	6	15	12	0,02	05A9	6	0,01
10	25,89	05B10	8	8	17	12	0,02	05A10	8	0,01
11	28,39	05B11	8	8	18	13	0,03	05A11	8	0,01
12	30,91	05B12	8	8	20	13	0,03	05A12	8	0,01
13	33,42	05B13	8	8	23	13	0,05	05A13	8	0,01
14	35,95	05B14	8	10	25	13	0,05	05A14	8	0,02
15	38,48	05B15	8	12	28	13	0,07	05A15	8	0,02
16	41,01	05B16	8	14	30	14	0,08	05A16	8	0,02
17	43,53	05B17	8	14	30	14	0,09	05A17	8	0,03
18	46,07	05B18	8	14	30	14	0,09	05A18	8	0,03
19	48,61	05B19	8	14	30	14	0,10	05A19	8	0,03
20	51,14	05B20	8	14	30	14	0,10	05A20	8	0,04
21	53,67	05B21	8	19	35	14	0,13	05A21	8	0,04
22	56,21	05B22	8	19	35	14	0,13	05A22	8	0,05
23	58,75	05B23	8	19	35	14	0,13	05A23	8	0,05
24	61,29	05B24	8	19	35	14	0,15	05A24	8	0,06
25	63,83	05B25	8	19	35	14	0,15	05A25	8	0,06
26	66,37	05B26	10	23	40	16	0,17	05A26	10	0,07
27	68,91	05B27	10	23	40	16	0,19	05A27	10	0,07
28	71,45	05B28	10	23	40	16	0,20	05A28	10	0,08
29	73,99	05B29	10	23	40	16	0,21	05A29	10	0,08
30	76,53	05B30	10	23	40	16	0,22	05A30	10	0,09
31	79,08	05B31*	10	23	40	16	0,23	05A31	10	0,10
32	81,61	05B32*	10	23	40	16	0,23	05A32	10	0,11
33	84,16	05B33*	10	23	40	16	0,24	05A33	10	0,12
34	86,70	05B34*	10	23	40	16	0,25	05A34	10	0,12
35	89,24	05B35*	10	23	40	16	0,25	05A35	10	0,12
36	91,79	05B36*	10	23	40	16	0,26	05A36	10	0,13
37	94,33	05B37*	10	23	40	16	0,26	05A37	10	0,14
38	96,88	05B38	10	23	40	16	0,27	05A38	10	0,15
39	99,42	05B39*	10	23	40	16	0,28	05A39	10	0,16
40	101,97	05B40*	10	23	40	16	0,28	05A40	10	0,16
41	104,51	05B41*	10	23	40	16	0,29	05A41	12	0,17
42	107,05	05B42*	10	23	40	16	0,30	05A42	12	0,18
43	109,60	05B43*	10	23	40	16	0,30	05A43	12	0,19
44	112,14	05B44*	10	23	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	0,33	05A48	12	0,34
54	137,59	05B54*	12	40	60	20	0,37	05A54*	14	0,67
57	145,22	05B57*	14	55	80	20	0,39	05A57	14	1,47
60	152,85	05B60*	14	55	80	20	0,41	05A60*	14	1,53
64	163,04	05B64*	14	55	80	20	0,43	05A64*	16	1,62
70	178,31	05B70*	14	55	80	20	0,47	05A70*	16	1,74
72	183,41	05B72*	14	55	80	20	0,48	05A72*	20	1,79
76	193,59	05B76*	20	55	80	25	0,51	05A76	20	1,87
80	203,77	05B80*	20	55	80	25	0,53	05A80*	20	1,95
84	213,95	05B84*	20	55	80	25	0,56	05A84*	20	2,04
90	229,23	05B90*	20	55	80	25	0,60	05A90*	20	2,16
95	241,96	05B95*	20	55	80	25	0,63	05A95	20	2,27
96	244,50	05B96*	20	55	80	25	0,63	05A96*	20	2,29
114	290,33	05B114*	20	55	80	25	0,75	05A114*	20	2,67
120	305,61							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.

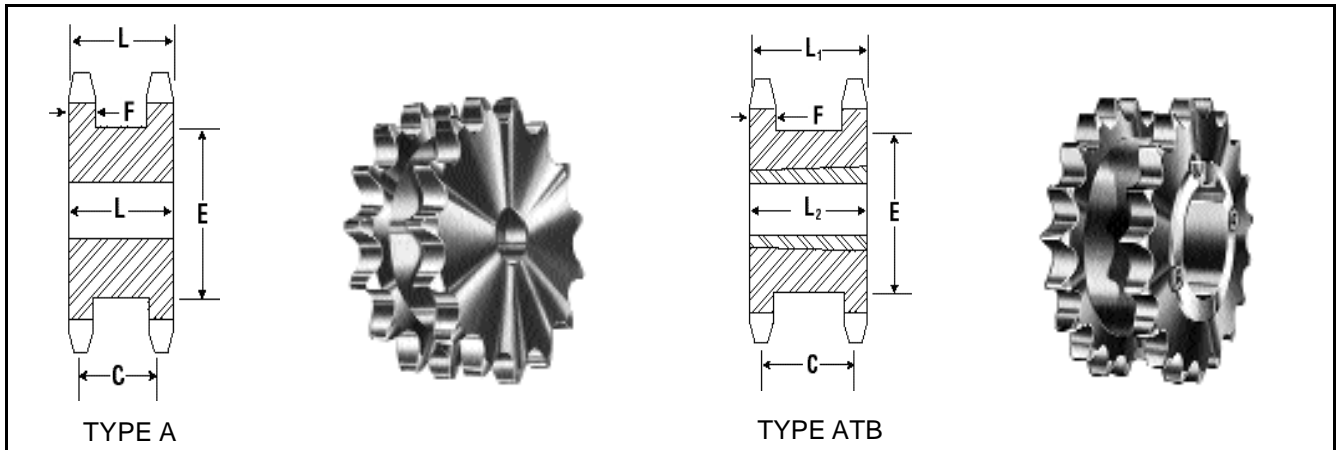
* Check for current availability.

Metric Sprockets

Martin

0.375 INCH (9,525MM) PITCH **Double Single**

ISO **06B-1**



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.)	
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	61,0	5,31	0,61
25	DS06A25	80,00	76,02	A	12	43	23,5	18,17	64,0	5,31	0,67

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 (Norm.)	
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	48,0	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:

BS228/3

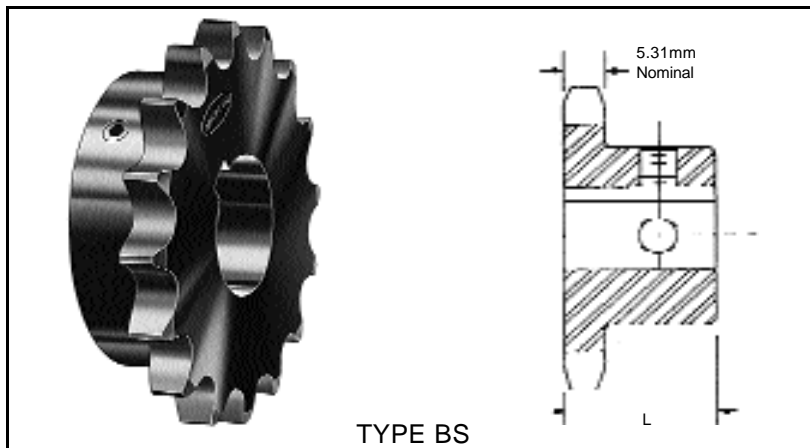
ISO 06B-1

PITCH: 9,525mm (0,375 IN.)

ROLLER DIAMETER: 6,35mm (0,250 IN.)

ROLLER WIDTH: 5,72mm (0,225 IN.)

TENSILE: 11,100 Newtons.



#06B-1 CHAIN

No. Teeth	Catalog Number (mm)	Pitch Diam.	Length Thru Bore	Approx. Wt. (Kilos)	Stock Finished Bores (mm) Includes 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	85,07	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

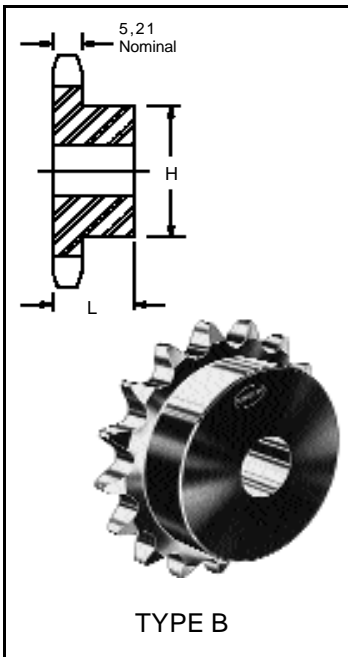
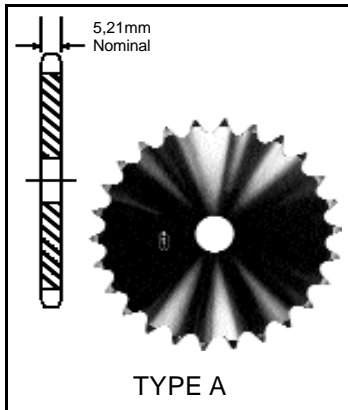
ISO 06B-1

PITCH: 9,525mm (0.375 in.)

ROLLER DIAMETER: 6.35mm (0.250 in.)

ROLLER WIDTH: 5.72mm (0.225 in.)

TENSILE: 11,100 Newtons.



Simplex-Type B — Steel/Cast

No. Teeth	Pitch Diameter MM	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	6	15+	22	0,03	06A8	6	0,02
9	27,85	06B9	8	8	18+	22	0,04	06A9	7	0,02
10	30,82	06B10	8	8	20	22	0,06	06A10	7	0,02
11	33,80	06B11	8	8	22	25	0,08	06A11	8	0,03
12	36,80	06B12	8	10	25	25	0,10	06A12	8	0,04
13	39,79	06B13	10	12	28	25	0,12	06A13	8	0,05
14	42,80	06B14	10	15	31	25	0,15	06A14	8	0,05
15	45,81	06B15	10	18	34	25	0,19	06A15	8	0,06
16	48,82	06B16	10	20	37	28	0,24	06A16	10	0,07
17	51,83	06B17	10	23	40	28	0,29	06A17	10	0,07
18	54,85	06B18	10	26	43	28	0,33	06A18	10	0,08
19	57,87	06B19	10	28	45	28	0,37	06A19	10	0,09
20	60,89	06B20	10	28	46	28	0,39	06A20	10	0,10
21	63,91	06B21	12	30	48	28	0,42	06A21	10	0,11
22	66,93	06B22	12	35	50	28	0,46	06A22	10	0,13
23	69,95	06B23	12	35	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	40	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	28	0,77	06A30	10	0,25
31	94,15	06B31	14	43	65	30	0,88	06A31	12	0,26
32	97,17	06B32	14	43	65	30	0,90	06A32	12	0,28
33	100,20	06B33	14	43	65	30	0,91	06A33	12	0,30
34	103,23	06B34	14	43	65	30	0,94	06A34	12	0,32
35	106,26	06B35	14	43	65	30	0,95	06A35	12	0,34
36	109,29	06B36	16	48	70	30	1,07	06A36	12	0,35
37	112,32	06B37	16	48	70	30	1,09	06A37	12	0,38
38	115,35	06B38	16	48	70	32	1,10	06A38	12	0,39
39	118,37	06B39	16	48	70	30	1,12	06A39	12	0,42
40	121,40	06B40	16	48	70	30	1,16	06A40	12	0,44
41	124,43	06B41*	16	48	70	30	1,28	06A41	12	0,46
42	127,46	06B42	16	48	70	30	1,36	06A42	16	0,48
43	130,49	06B43*	16	48	70	30	1,44	06A43	16	0,51
44	133,52	06B44	16	48	70	30	1,52	06A44	16	0,54
45	136,55	06B45	19	40	70	32	1,40	06A45	16	0,56
46	139,58	06B46*	19	48	70	30	1,68	06A46	16	0,59
47	142,61	06B47*	19	48	70	30	1,76	06A47	16	0,61
48	145,64	06B48	19	48	75	30	1,84	06A48	16	0,63
50	151,69	06B50	19	48	75	30	2,06	06A50	16	0,65
54	163,82	06B54	19	48	75	30	2,32	06A54	16	0,68
57	172,91	06B57	19	40	70	32	1,70	06A57	16	1,71
60	182,00	06B60	19	48	75	30	2,80	06A60	16	0,91
64	194,12	06B64	19	48	75	30	3,12	06A64	16	0,97
65	197,15	06B64	19	48	75	30	3,31	06A65	16	1,01
70	212,30	06B70	19	48	75	30	3,60	06A70	16	1,06
72	218,37	06B72	19	48	75	30	3,76	06A72	16	1,09
76	230,49	06B76	19	48	70	32	2,79	06A76	20	1,64
80	242,61	06B80	19	52	75	30	4,40	06A80	18	1,53
84	254,74	06B84	19	52	75	30	4,72	06A84	18	1,60
85	257,77	06B85	19	52	75	30	4,93	06A85	18	1,66
90	272,93	06B90	19	55	75	30	5,20	06A90	18	1,72
92	278,99	06B92	19	55	75	30	5,45	06A92	18	2,16
95	288,08	06B95	19	55	80	40	3,95	06A95	20	2,60
96	291,11	06B96	19	55	75	30	5,68	06A96*	18	2,20
114	345,68	06B114*	19	55	75	30	7,12	06A114*	18	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.

* Check for current availability.

• 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

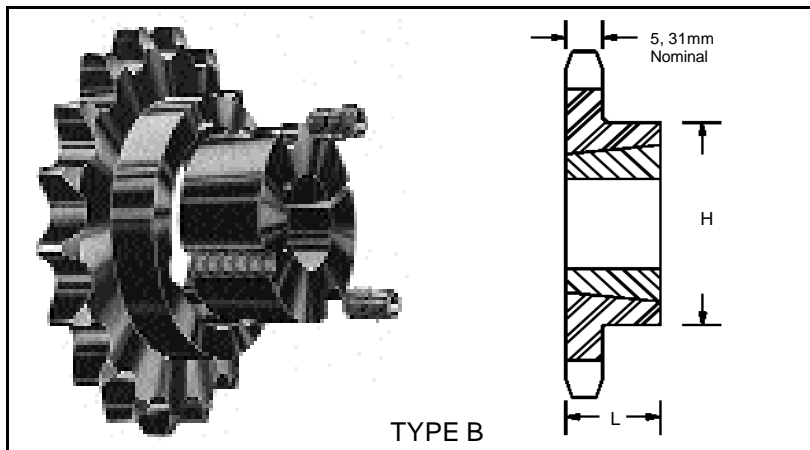
ISO 06B-1

PITCH: 9,525mm (0.375 in.)

ROLLER DIAMETER: 6,35mm (0.250 in.)

ROLLER WIDTH: 5,72mm (0.225 in.)

TENSILE: 11,100 Newtons.



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
16	48,82	06BTB16	1008	25,4	22,2	42,0+	0,12	0,09
17	51,83	06BTB17	1008	25,4	22,2	44,0+	0,13	0,09
18	54,85	06BTB18	1008	25,4	22,2	45,0	0,14	0,09
19	57,87	06BTB19	1008	25,4	22,2	46,0	0,16	0,09
20	60,89	06BTB20	1008	25,4	22,2	46,0	0,18	0,09
21	63,91	06BTB21	1008	25,4	22,2	46,0	0,20	0,09
22	66,93	06BTB22	1108	28,0	22,2	52,0	0,24	0,12
23	69,95	06BTB23	1210	31,8	25,4	63,0+	0,30	0,21
24	72,97	06BTB24	1210	31,8	25,4	63,0	0,32	0,21
25	76,00	06BTB25	1210	31,8	25,4	63,0	0,35	0,21
26	79,02	06BTB26	1210	31,8	25,4	63,0	0,35	0,21
27	82,05	06BTB27	1210	31,8	25,4	63,0	0,38	0,21
28	85,07	06BTB28	1210	31,8	25,4	63,0	0,38	0,21
29	88,09	06BTB29	1210	31,8	25,4	63,0	0,40	0,21
30	91,12	06BTB30	1210	31,8	25,4	63,0	0,41	0,21
32	97,18	06BTB32*	1210	31,8	25,4	63,0	0,58	0,21
35	106,26	06BTB35*	1210	31,8	25,4	63,0	0,76	0,21
36	109,29	06BTB36*	1210	31,8	25,4	63,0	0,82	0,21
38	115,35	06BTB38	1210	31,8	25,4	73,0	0,94	0,21
40	121,40	06BTB40*	1210	31,8	25,4	73,0	1,06	0,21
45	136,55	06BTB45	1210	31,8	25,4	73,0	1,36	0,21
48	145,65	06BTB48*	1210	31,8	25,4	73,0	1,54	0,21
54	163,82	06BTB54*	1210	31,8	25,4	73,0	1,90	0,21
57	172,90	06BTB57	1210	31,8	25,4	83,0	1,60	0,21
60	182,00	06BTB60*	1210	31,8	25,4	83,0	2,26	0,21
70	212,30	06BTB70*	1210	31,8	25,4	83,0	2,86	0,21
76	230,49	06BTB76	1210	31,8	25,4	83,0	2,43	0,21
95	288,08	06BTB95	1210	31,8	25,4	83,0	2,72	0,21
114	345,68	06BTB114	1610	41,3	25,4	83,0	5,50	0,31

,Has recessed groove in hub for chain clearance.

*Check for current availability.

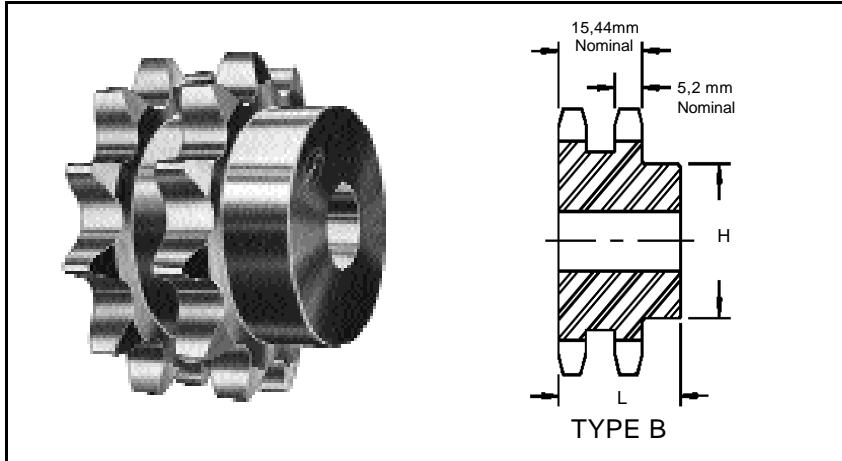
+Recessed hub for chain clearance.

•Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

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

ISO **06B-2**



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 MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock	Max.	H	L	
			MM	MM	MM	MM	
12	36,80	D06B12	10	12	25	25	0,11
13	39,79	D06B13	10	12	28	25	0,14
14	42,80	D06B14	10	18	31	25	0,17
15	45,81	D06B15	10	18	34	25	0,20
16	48,82	D06B16	12	20	37	30	0,26
17	51,83	D06B17	12	23	40	30	0,32
18	54,85	D06B18	12	25	43	30	0,37
19	57,87	D06B19	12	28	46	30	0,42
20	60,89	D06B20	12	25	49	30	0,48
21	63,91	D06B21	12	30	52	30	0,54
22	66,93	D06B22	12	28	55	30	0,61
23	69,95	D06B23	12	35	58	30	0,67
24	72,97	D06B24	12	32	61	30	0,74
25	76,00	D06B25	12	40	64	30	0,81
26	79,02	D06B26	12	32	67	30	0,92
27	82,05	D06B27	12	40	70	30	0,97
28	85,07	D06B28	12	32	73	30	1,08
29	88,09	D06B29	12	32	76	30	1,15
30	91,12	D06B30	12	40	79	30	1,23
32	97,17	D06B32	16	52	80	30	1,38
35	106,26	D06B35	16	52	80	30	1,61
36	109,29	D06B36	16	60	90	30	1,69
38	115,35	D06B38	16	50	90	30	1,84
40	121,40	D06B40	16	52	90	30	2,00
42	127,46	D06B42	19	60	90	35	2,15
45	136,55	D06B45	19	50	90	32	2,01
48	145,64	D06B48	19	60	90	35	2,61
52	157,75	D06B52	19	60	90	35	2,92
57	172,91	D06B57	19	50	90	32	2,34
60	182,00	D06B60	19	60	90	35	3,53
68	206,24	D06B68	19	60	90	35	4,14
70	212,30	D06B70	19	60	90	35	4,30
72	218,37	D06B72	19	60	90	35	4,45
76	230,49	D06B76	19	50	90	32	3,35
84	254,74	D06B84	19	60	90	38	5,37
95	288,08	D06B95	25	62	95	38	6,21
96	291,11	D06B96	25	62	95	38	6,29
114	345,68	D06B114	25	62	95	38	7,67

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.

*Check for current availability.

•Cast iron.

ISO 06B-2

0.375 INCH (9,525MM) PITCH **DUPL**EX

CHAIN DATA:

BS 228/3

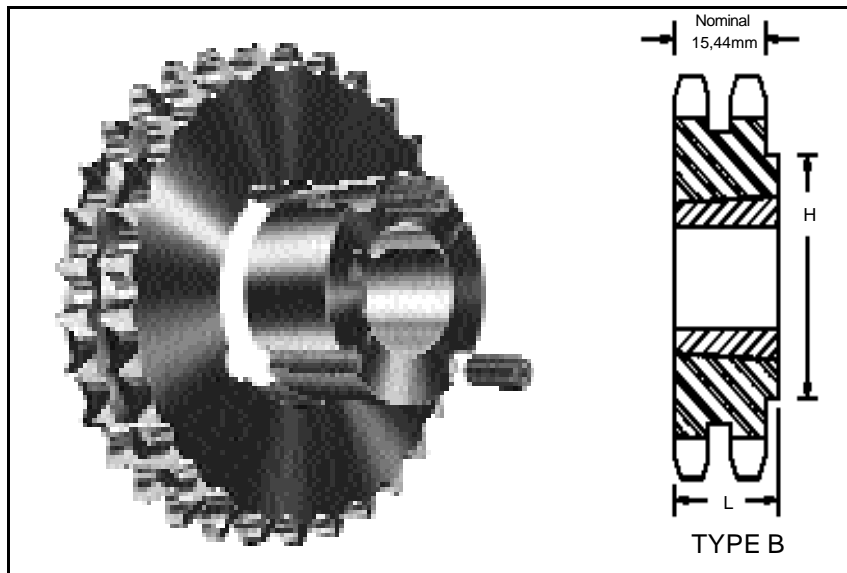
ISO 06B-2

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-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
16	48,82	D06BTB16	1108	25,4	22,2	42,0+	0,06	0,12
17	51,83	D06BTB17	1008	25,4	22,2	44,0+	0,12	0,09
18	54,85	D06BTB18	1008	25,4	22,2	45,0	0,18	0,09
19	57,87	D06BTB19	1008	25,4	22,2	47,0	0,20	0,09
20	60,89	D06BTB20	1008	25,4	22,2	48,0	0,24	0,09
21	63,91	D06BTB21	1008	25,4	22,2	51,0	0,29	0,09
22	66,93	D06BTB22	1108	25,4	22,2	52,0	0,30	0,12
23	69,95	D06BTB23	1210	31,8	25,4	59,0	0,26	0,21
24	72,97	D06BTB24	1210	31,8	25,4	63,0	0,34	0,21
25	76,00	D06BTB25	1210	31,8	25,4	65,0	0,41	0,21
26	79,02	D06BTB26	1210	31,8	25,4	65,0	0,45	0,21
27	82,05	D06BTB27	1210	31,8	25,4	65,0	0,50	0,21
28	85,07	D06BTB28	1210	31,8	25,4	65,0	0,54	0,21
29	88,09	D06BTB29	1210	31,8	25,4	65,0	0,51	0,21
30	91,12	D06BTB30	1210	31,8	25,4	65,0	0,61	0,21
32	97,17	D06BTB32*	1610	41,3	25,4	82,0	0,75	0,31
35	106,26	D06BTB35*	1610	41,3	25,4	82,0	0,95	0,31
38	115,35	D06BTB38	1610	41,3	25,4	89,0	1,16	0,31
40	121,40	D06BTB40*	1610	41,3	25,4	89,0	1,30	0,31
45	136,55	D06BTB45	1610	41,3	25,4	89,0	1,64	0,31
48	145,64	D06BTB48*	1610	41,3	25,4	89,0	1,85	0,31
54	163,82	D06BTB54*	1610	41,3	25,4	89,0	2,26	0,31
57	172,91	D06BTB57	1610	41,3	25,4	89,0	1,75	0,31
60	182,00	D06BTB60*	1610	41,3	25,4	92,1	2,67	0,31
70	212,30	D06BTB70*	1610	41,3	25,4	92,1	3,36	0,31
7	230,49	D06BTB76	1610	41,3	25,4	92,0	3,19	0,31
95	288,08	D06BTB95*	1610	41,3	25,4	92,0	5,08	0,31
114	345,68	D06BTB114*	2012	50,8	38,8	111,0	6,39	0,59

*Check for current availability.

+ 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

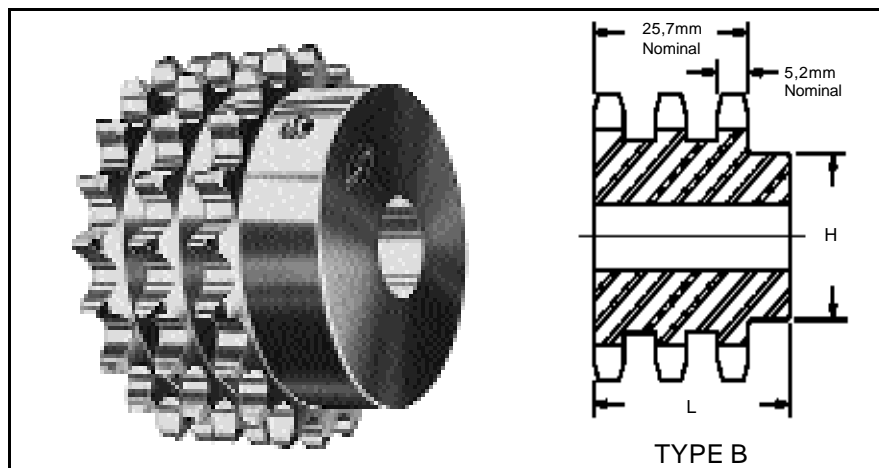
ISO 06B-3

PITCH: 9,525mm (0.375 in.)

ROLLER DIAMETER: 6,35mm (0.250 in.)

ROLLER WIDTH: 5,72mm (0.225 in.)

TENSILE: 27,500 Newtons.



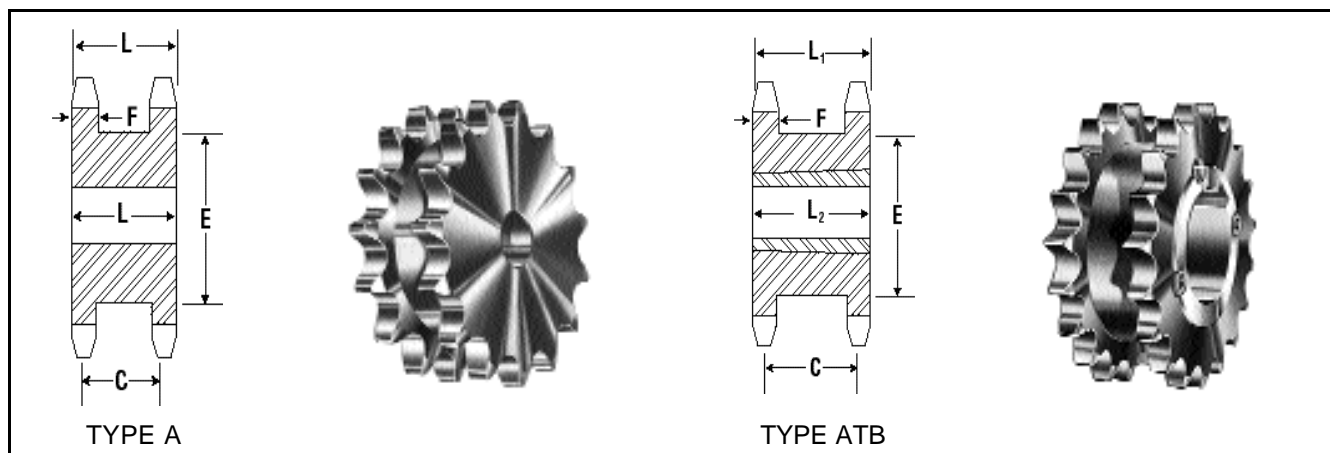
Triplex-Type B — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM	
12	36,80	E06B12	12	16	25	35	0,23
13	39,79	E06B13	12	18	28	35	0,27
14	42,80	E06B14	12	18	31	35	0,32
15	45,81	E06B15	12	20	34	35	0,36
16	48,82	E06B16	12	20	37	35	0,45
17	51,83	E06B17	12	24	40	35	0,54
18	54,85	E06B18	12	25	43	35	0,64
19	57,87	E06B19	12	28	46	35	0,72
20	60,89	E06B20	12	30	49	35	0,77
21	63,91	E06B21	14	30	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	39	61	40	1,18
25	76,02	E06B25	14	40	64	40	1,27
26	79,02	E06B26	14	42	67	40	1,31
27	82,02	E06B27	14	45	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	52	80	40	1,72
32	97,17	E06B32	16	52	80	40	2,00
35	106,26	E06B35	16	52	80	40	2,25
36	109,29	E06B36	16	60	90	48	2,33
38	115,35	E06B38	16	60	90	48	2,49
40	121,40	E06B40	16	60	80	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	80	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	64	100	48	8,48
84	254,74	E06B84	19	64	100	48	9,37
95	288,08	E06B95	25	64	100	54	13,61
96	291,11	E06B96	25	64	100	54	13,75
114	345,69	E06B114	25	64	100	54	17,48

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.

ISO **08B-1**

0.500 INCH (12,70MM) PITCH Double Single



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	DS08A12	53,00	49,07	A	12	24	35,7	28,58	35,0	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	41,0	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	63,0	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	85,22	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	97,29	A	16	54	35,7	28,58	82,0	7,2	1,70
25	DS08A25	105,80	101,33	A	16	57	35,7	28,58	86,0	7,2	1,82

Double Single - Taper Bushed - Steel

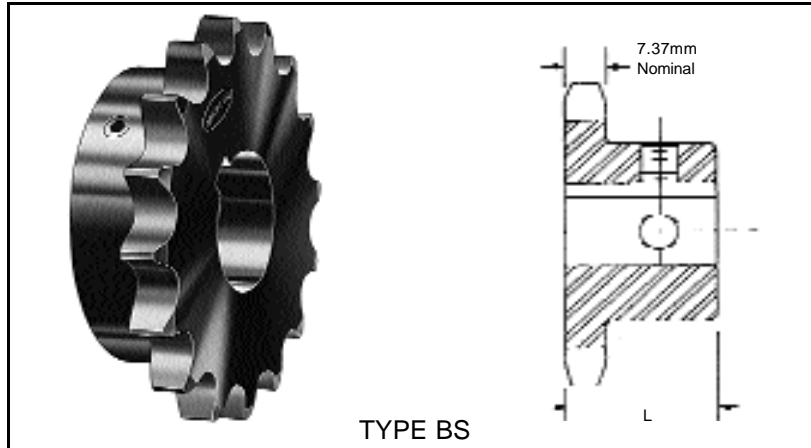
No. Teeth	Catalog Number	Bushings Size	Diameters		Min. Bore	Max. Bore	Type	L ₁	Dimensions				Wt. Rim Only
			Outside Diameter	Pitch Diameter					C	E	L ₂	F (Norm.)	
14	DS08ATB14H	1008	61,80	57,07	9	25	ATB	35,7	28,58	41,0	22,2	7,2	0,32
15	DS08ATB15H	1008	65,30	61,09	9	25	ATB	35,7	28,58	45,0	22,2	7,2	0,40
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	69,11	11	32	ATB	35,7	28,58	53,0	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	77,15	11	32	ATB	35,7	28,58	63,0	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	85,22	14	42	ATB	35,7	28,58	70,0	38,1	7,2	0,59
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	97,29	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	31,8	7,2	0,86

Metric Sprockets

Martin

0,500 INCH (12,70MM) PITCH **Bored-to-Size**

ISO **08B-1**



CHAIN DATA:

BS 228/7

ISO 08B-1

PITCH: 12,70mm (0,500 IN.)

ROLLER DIAMETER: 8,51mm (0,335 IN.)

ROLLERWIDTH: 7,75mm (0,305 IN.)

TENSILE: 19,000 Newtons.

#08B-1 CHAIN

No. Teeth	Catalog Number (mm)	Pitch Diam.	Length Thru Bore	Approx. Wt. (Kilos)	Stock Finished Bores (mm) Includes 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

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos	Catalog Number	Bore Stock MM	Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM				
8	33,18	08B8	10	10	20	25	0,06	08A8	8	0,03
9	37,13	08B9	10	10	24	25	0,09	08A9	8	0,04
10	41,10	08B10	10	11	26	25	0,12	08A10	8	0,06
11	45,07	08B11	10	13	29	25	0,15	08A11	10	0,07
12	49,07	08B12	10	17	33	28	0,21	08A12	10	0,09
13	53,06	08B13	10	20	37	28	0,27	08A13	10	0,10
14	57,07	08B14	10	24	41	28	0,33	08A14	10	0,12
15	61,09	08B15	10	28	45	28	0,39	08A15	10	0,13
16	65,10	08B16	12	30	50	28	0,46	08A16	10	0,16
17	69,11	08B17	12	30	52	28	0,51	08A17	10	0,18
18	73,14	08B18	12	35	56	28	0,59	08A18	10	0,20
19	77,16	08B19	12	40	60	28	0,67	08A19	10	0,23
20	81,19	08B20	12	40	64	28	0,77	08A20	10	0,25
21	85,22	08B21	14	40	68	28	0,85	08A21	12	0,26
22	89,24	08B22	14	40	70	28	0,92	08A22	12	0,30
23	93,27	08B23	14	40	70	28	0,95	08A23	12	0,34
24	97,29	08B24	14	40	70	28	0,98	08A24	12	0,37
25	101,33	08B25	14	40	70	28	1,01	08A25	12	0,41
26	105,36	08B26	15	46	70	30	1,09	08A26	16	0,44
27	109,40	08B27	15	46	70	30	1,13	08A27	16	0,48
28	113,42	08B28	15	46	70	30	1,17	08A28	16	0,51
29	117,46	08B29	15	46	80	30	1,41	08A29	16	0,55
30	121,50	08B30	15	46	80	30	1,46	08A30	16	0,59
31	125,54	08B31	16	46	90	30	1,75	08A31	16	0,63
32	129,56	08B32	16	46	90	30	1,79	08A32	16	0,68
33	133,60	08B33	16	46	90	30	1,83	08A33	16	0,72
34	137,64	08B34	16	46	90	30	1,87	08A34	16	0,78
35	141,68	08B35	16	46	90	30	1,94	08A35	16	0,81
36	145,72	08B36	20	50	90	35	2,21	08A36	16	0,87
37	149,76	08B37	20	50	90	35	2,24	08A37	16	0,92
38	153,80	08B38	20	50	90	35	2,33	08A38	16	0,97
39	157,83	08B39	20	50	90	35	2,30	08A39	16	1,02
40	161,87	08B40	20	50	90	35	2,44	08A40	16	1,08
41	165,91	08B41	19	50	90	35	2,41	08A41	20	1,10
42	169,95	08B42	19	60	90	35	2,38	08A42	20	1,00
43	173,99	08B43*	19	50	90	35	2,35	08A43	20	1,24
44	178,03	08B44*	19	50	90	35	2,32	08A44	20	1,28
45	182,07	08B45	19	50	90	40	2,30	08A45	20	1,00
46	186,10	08B46*	19	50	90	35	2,45	08A46	20	1,43
47	190,14	08B47	19	50	90	35	2,60	08A47	20	1,50
48	194,18	08B48	19	64	100	35	2,85	08A48	20	1,57
50	208,30	08B50	19	64	100	35	2,92	08A50	20	1,81
54	218,43	08B54	19	64	100	35	3,00	08A54	20	2,00
57	230,54	08B57	19	50	70	40	3,13	08A57	20	2,22
60	242,66	08B60	19	64	100	35	3,30	08A60	20	2,50
64	258,82	08B64	19	64	100	35	3,60	08A64	25	2,87
70	283,07	08B70	19	64	100	35	3,80	08A70	25	3,43
72	291,16	08B72	19	64	100	35	4,00	08A72	25	3,62
76	307,33	08B76	23	50	80	40	4,12	08A76	25	3,99
80	323,48	08B80	19	64	100	35	5,00	08A80	25	4,46
84	339,65	08B84	19	64	100	35	6,12	08A84	25	4,93
85	343,69							08A85	25	5,05
92	371,99							08A92	25	5,88
95	384,11	08B95	23	55	80	45	7,38	08A95	25	6,23
96	388,15	08B96	25	64	100	35	8,00	08A96	25	6,35
114	460,90	08B114	25	64	100	35	9,50	08A114	25	8,47

CHAIN DATA:

BS 228/7

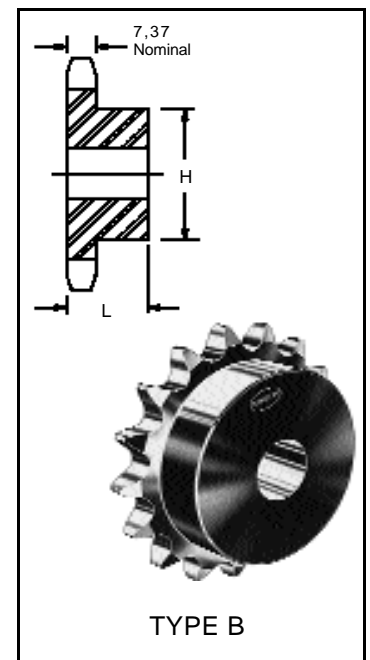
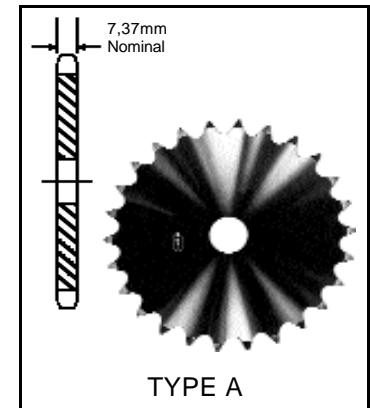
ISO 08B-1

PITCH: 12,70mm (0.500 in.)

ROLLER DIAMETER: 8,51mm (0.335 in.)

ROLLER WIDTH: 7,75mm (0.305 in.)

TENSILE: 19,000 Newtons.



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.

*Check for current availability.

●Available in Cast or Steel.

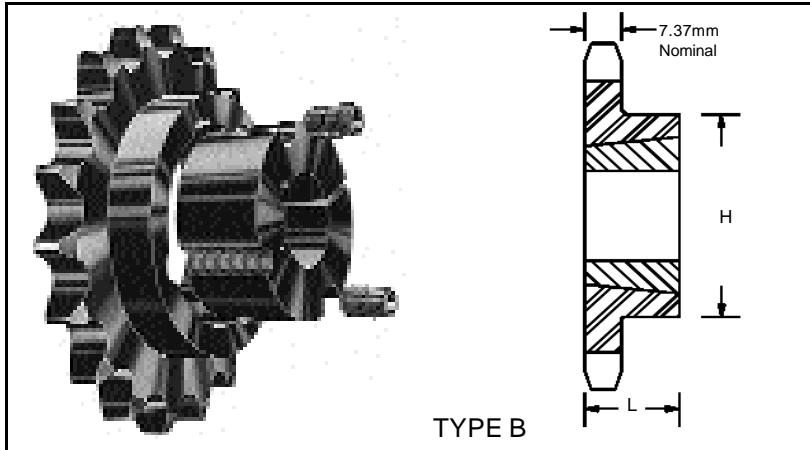
Cast will be shipped unless otherwise specified.

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.

Simplex-Taper Bushed — Steel/Cast

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max.	Dimension		Weight (Approx.)	
	MM			MM	L MM	H MM	Rim Kilos	Bushing Kilos
14	57,07	08BTB14*	1008	25,4	22,2	46+	0,12	0,14
15	61,09	08BTB15	1008	25,4	22,2	46	0,18	0,14
16	65,10	08BTB16	1108	28,0	22,2	52	0,24	0,16
17	69,11	08BTB17	1210	31,8	25,4	60+	0,24	0,27
18	73,14	08BTB18	1210	31,8	25,4	60+	0,30	0,27
19	77,16	08BTB19	1210	31,8	25,4	63	0,33	0,27
20	81,19	08BTB20	1210	31,8	25,4	71*	0,32	0,41
21	85,22	08BTB21	1610	41,3	25,4	71	0,37	0,41
22	89,24	08BTB22	1610	41,3	25,4	76	0,50	0,41
23	93,27	08BTB23	1610	41,3	25,4	76	0,53	0,41
24	97,29	08BTB24	1610	41,3	25,4	76	0,54	0,41
25	101,33	08BTB25	1610	41,3	25,4	76	0,59	0,41
26	105,36	08BTB26	1610	41,3	25,4	76	0,61	0,41
27	109,40	08BTB27	1610	41,3	25,4	76	0,94	0,41
28	113,42	08BTB28	2012	50,8	25,4	90	0,86	0,77
29	117,46	08BTB29	2012	50,8	25,4	90	0,90	0,77
30	121,50	08BTB30	2012	50,8	25,4	90	0,94	0,59
32	129,57	08BTB32*	2012	50,8	25,4	90	1,12	0,59
35	141,68	08BTB35*	2012	50,8	25,4	90	1,30	0,59
36	145,72	08BTB36*	2012	50,8	25,4	90	1,48	0,59
38	153,80	08BTB38	2012	50,8	31,8	102	1,67	0,59
40	161,87	08BTB40*	2012	50,8	25,4	102	1,80	0,59
42	169,94	08BTB42*	2012	50,8	25,4	102	1,93	0,59
45	182,07	08BTB45	2012	50,8	31,8	102	2,06	0,59
48	194,18	08BTB48*	2012	50,8	25,4	102	2,36	0,59
54	218,42	08BTB54*	2012	50,8	25,4	102	2,66	0,59
57	230,53	08BTB57	2012	50,8	31,8	111	3,07	0,59
60	242,66	08BTB60*	2012	50,8	25,4	102	3,23	0,59
70	283,07	08BTB70*	2012	50,8	31,8	102	3,39	0,59
72	291,15	08BTB72*	2012	50,8	31,8	102	3,55	0,59
76	307,31	08BTB76	2012	50,8	31,8	111	3,71	0,59
80	323,49	08BTB80*	2012	50,8	31,8	102	4,55	0,59
84	339,65	08BTB84*	2012	50,8	31,8	102	5,39	0,59
96	384,10	08BTB95	2012	50,8	31,8	111	6,23	0,59
96	388,15	08BTB96*	2012	50,8	31,8	102	7,00	0,59
114	460,90	08BTB114*	2517	63,5	44,5	108	8,10	1,30

+ Has recessed groove in hub for chain clearance.

*Check for current availability.

•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

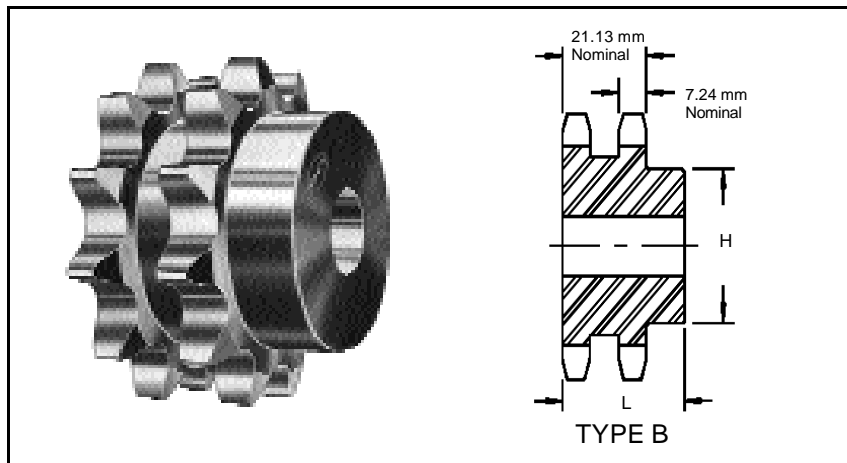
ISO 08B-2

PITCH: 12,70mm (0.500 in.)

ROLLER DIAMETER: 8,51mm (0.335 in.)

ROLLER WIDTH: 7,75mm (0.305 in.)

TENSILE: 36,500 Newtons.



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	
10	41,10	D08B10	10	18	26	32	0,15
11	45,07	D08B11	11	21	30	35	0,22
12	49,07	D08B12	12	19	35	35	0,29
13	53,06	D08B13	12	21	38	35	0,36
14	57,07	D08B14	12	28	42	35	0,44
15	61,09	D08B15	12	28	46	35	0,52
16	65,10	D08B16	14	33	50	35	0,61
17	69,11	D08B17	14	30	54	35	0,70
18	73,14	D08B18	14	38	58	35	0,81
19	77,16	D08B19	14	40	62	35	0,91
20	81,19	D08B20	14	40	66	35	1,10
21	85,22	D08B21	16	40	70	40	1,29
22	89,24	D08B22	16	45	70	40	1,37
23	93,27	D08B23	16	50	70	40	1,46
24	97,29	D08B24	16	50	75	40	1,64
25	101,33	D08B25	16	50	80	40	1,83
26	105,36	D08B26	20	56	85	40	1,96
27	109,40	D08B27	20	50	85	40	2,09
28	113,42	D08B28	20	60	90	40	2,31
29	117,46	D08B29	20	62	95	40	2,53
30	121,50	D08B30	20	50	100	40	2,75
32	129,56	D08B32	20	64	100	40	3,08
34	137,64	D08B34	20	64	100	40	3,24
35	141,68	D08B35	20	64	100	40	3,41
36	145,72	D08B36	20	73	110	40	3,74
38	153,80	D08B38	20	55	110	40	4,08
40	161,87	D08B40	20	73	110	45	4,00
42	169,95	D08B42	20	73	110	45	3,90
45	182,07	D08B45	23	55	90	50	3,70
48	194,18	D08B48	20	73	110	45	4,10
54	218,43	D08B54	25	73	110	45	4,70
57	230,54	D08B57	23	55	90	50	5,01
60	242,66	D08B60	25	73	110	45	5,34
68	274,99	D08B68	25	73	110	45	5,68
72	291,16	D08B72	25	73	110	45	6,02
76	307,33	D08B76	23	60	100	56	6,36
84	339,65	D08B84*	30	80	120	45	8,31
99	384,10	D08B95	23	60	100	56	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 at angle to keyseat.

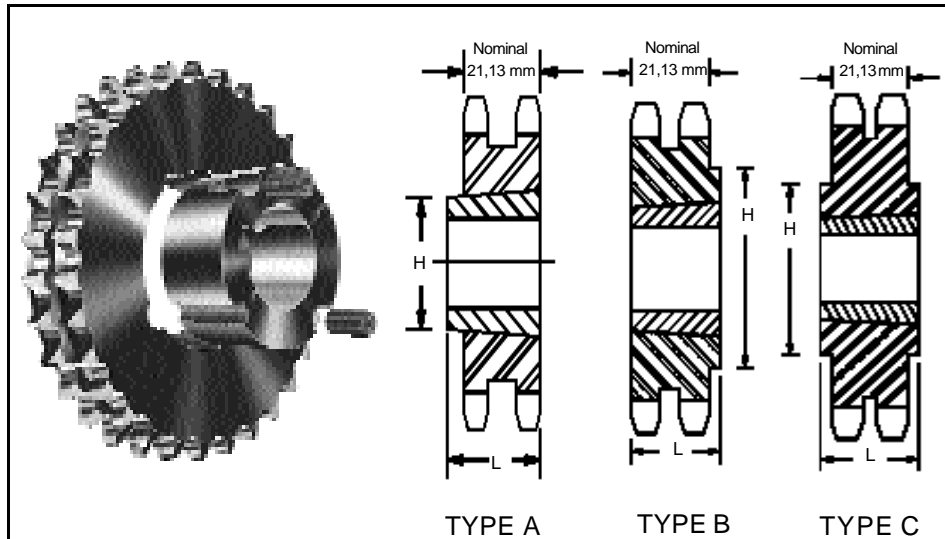
*Check for current availability.

•Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

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	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight (Appox.)	
	MM				L MM	H MM	Rim Kilos	Bushing Kilos
15	61,09	D08ATB15	1008	25,4	22,2	48	0,23	0,09
16	65,10	D08ATB16	1108	28,0	22,2	50	0,25	0,12
17	69,11	D08ATB17	1210	31,8	25,4	56	0,26	0,21
18	73,14	D08BTB18	1210	31,8	25,4	60	0,31	0,21
19	77,16	D08BTB19	1210	31,8	25,4	64	0,43	0,21
20	81,19	D08BTB20	1610	41,3	25,4	68	0,45	0,31
21	85,22	D08BTB21	1610	41,3	25,4	71	0,48	0,31
22	89,24	D08BTB22	1610	41,3	25,4	76	0,54	0,31
23	93,27	D08BTB23	1610	41,3	25,4	79	0,66	0,31
24	97,29	D08BTB24	2012	50,8	31,8	84	0,60	0,59
25	101,33	D08BTB25	2012	50,8	31,8	87	0,74	0,59
26	105,36	D08BTB26	2012	50,8	31,8	87	0,81	0,59
27	109,40	D08BTB27	2012	50,8	31,8	87	0,92	0,59
28	113,42	D08BTB28	2012	50,8	31,8	87	1,03	0,59
29	117,46	D08BTB29	2012	50,8	31,8	87	1,16	0,59
30	121,50	D08BTB30	2012	50,8	31,8	87	1,25	0,59
35	141,68	D08BTB35*	2012	50,8	31,8	102	1,65	0,59
36	145,72	D08BTB36*	2012	50,8	31,8	102	2,05	0,59
38	153,80	D08BTB38	2012	50,8	31,8	102	2,53	0,59
42	169,94	D08CTB42*	2517	63,5	44,5	108	3,13	1,30
45	182,07	D08CTB45	2012	50,8	31,8	102	3,73	0,59
48	194,18	D08CTB48*	2517	63,5	44,5	108	3,84	1,30
54	218,42	D08CTB54*	2517	63,5	44,5	108	3,95	1,30
57	230,53	D08CTB57	2012	50,8	31,8	111	4,07	0,59
60	242,66	D08CTB60*	2517	63,5	44,5	108	4,20	1,30
68	274,99	D08CTB68*	2517	63,5	44,5	108	4,33	1,30
70	283,07	D08CTB70*	2517	63,5	44,5	108	4,46	1,30
72	291,15	D08CTB72*	2517	63,5	44,5	108	4,59	1,30
76	307,31	D08CTB76	2012	50,8	31,8	111	4,72	0,59
84	339,65	D08CTB84*	2517	63,5	44,5	108	6,45	1,30
95	384,10	D08CTB95	2012	50,8	31,8	111	8,18	0,59
96	388,15	D08CTB96*	2517	63,5	44,5	108	9,00	1,30
114	460,90	D08CTB114*	2517	63,5	44,5	108	10,50	1,30

*Check for current availability.

●Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

ISO 08B-3

0.500 INCH (12,70mm) PITCH TRIPLEX

CHAIN DATA:

BS 228/7

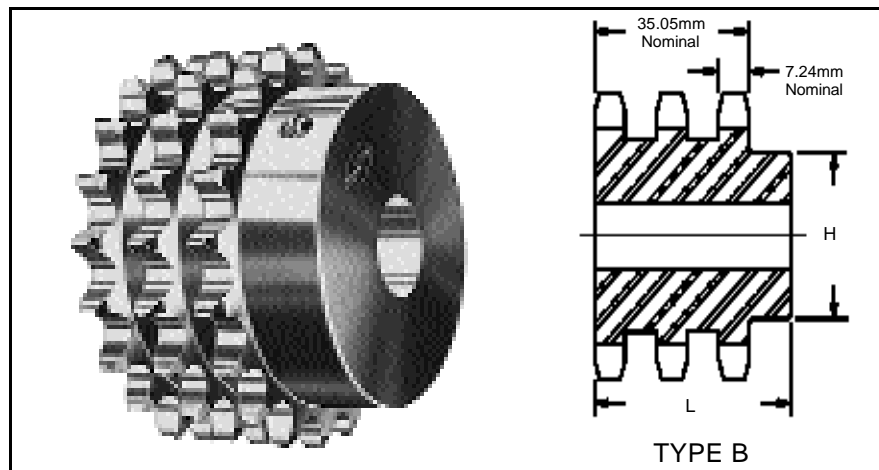
ISO 08B-3

PITCH: 12,70mm (0.500 in.)

ROLLER DIAMETER: 8,51mm (0.335 in.)

ROLLER WIDTH: 7,75mm (0.305 in.)

TENSILE: 56,000 Newtons.



Triplex-Type B — Steel

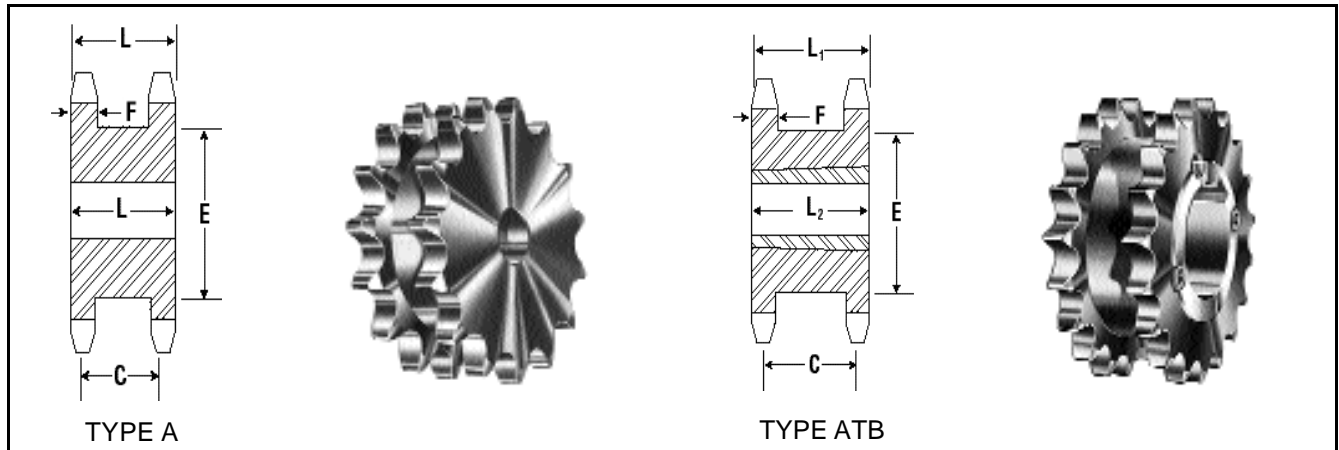
No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM	
11	45,07	E08B11	14	22	30	50	0,32
12	49,07	E08B12	14	24	34	50	0,45
13	53,06	E08B13	14	25	38	50	0,59
14	57,07	E08B14	14	28	42	50	0,72
15	61,09	E08B15	14	31	46	50	0,81
16	65,10	E08B16	16	35	50	50	0,90
17	69,11	E08B17	16	36	54	50	1,04
18	73,14	E08B18	16	38	58	50	1,22
19	77,16	E08B19	16	40	62	50	1,41
20	81,19	E08B20	16	40	66	50	1,58
21	85,22	E08B21	20	45	70	55	1,81
22	89,24	E08B22	20	45	70	55	2,03
23	93,27	E08B23	20	45	70	55	2,27
24	97,29	E08B24	20	50	75	55	2,44
25	101,33	E08B25	20	52	80	55	2,54
26	105,36	E08B26	20	56	85	55	2,85
27	109,40	E08B27	20	56	85	55	2,85
28	113,42	E08B28	20	60	90	55	3,16
29	117,46	E08B29	20	62	95	55	3,34
30	121,50	E08B30	20	64	100	55	3,48
35	141,68	E08B35	20	73	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	85	130	65	13,84
68	274,99	E08B68	25	85	130	65	15,69
72	291,16	E08B72	25	85	130	65	16,61
76	307,33	E08B76	30	85	130	65	22,23
84	339,65	E08B84*	30	85	130	65	24,57
95	384,11	E08B95	30	85	130	65	33,11
114	460,90	E08B114	30	85	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.

*Check for current availability.

0.625 INCH (15,88MM) PITCH Double Single

ISO 10B-1



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	45,0	9,1	0,59
13	DS10A13	73,00	66,32	A	16	34	42,0	33,34	50,0	9,1	0,70
14	DS10A14	78,00	71,34	A	16	36	42,0	33,34	55,0	9,1	0,83
15	DS10A15	83,00	76,36	A	16	40	42,0	33,34	60,0	9,1	0,95
16	DS10A16	88,00	81,37	A	16	42	42,0	33,34	64,0	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	110,0	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 (Norm.)	
12	DS10ATB12H	1108	68,00	61,34	9	28	ATB	42,0	33,34	45,0	22,2	9,1	0,46
13	DS10ATB13H	1108	73,00	66,32	9	28	ATB	42,0	33,34	50,0	22,2	9,1	0,56
14	DS10ATB14H	1108	78,00	71,34	9	28	ATB	42,0	33,34	55,0	22,2	9,1	0,70
15	DS10ATB15H	1215	83,00	76,36	11	32	ATB	42,0	33,34	60,0	38,1	9,1	0,68
16	DS10ATB16H	1215	88,00	81,37	11	32	ATB	42,0	33,34	65,0	38,1	9,1	0,78
17	DS10ATB17H	1615	93,00	86,39	14	42	ATB	42,0	33,34	68,0	38,1	9,1	0,82
18	DS10ATB18H	1615	98,30	91,42	14	42	ATB	42,0	33,34	73,0	38,1	9,1	1,04
19	DS10ATB19H	1615	103,30	96,42	14	42	ATB	42,0	33,34	78,0	38,1	9,1	1,23
20	DS10ATB20H	1615	108,40	101,49	14	42	ATB	42,0	33,34	83,0	38,1	9,1	1,35
21	DS10ATB21H	2012	113,40	106,52	14	50	ATB	42,0	33,34	88,0	31,8	9,1	1,50
22	DS10ATB22H	2012	118,00	111,55	14	50	ATB	42,0	33,34	93,0	31,8	9,1	1,59
23	DS10ATB23H	2012	123,40	116,58	14	50	ATB	42,0	33,34	98,0	31,8	9,1	1,68
24	DS10ATB24H	2012	128,30	121,62	14	50	ATB	42,0	33,34	103,0	31,8	9,1	1,77
25	DS10ATB25H	2012	134,00	126,66	14	50	ATB	42,0	33,34	108,0	31,8	9,1	1,86

ISO 10B-1

0,625 INCH (15,88MM) PITCH Bored-to-Size

CHAIN DATA:

BS228/11

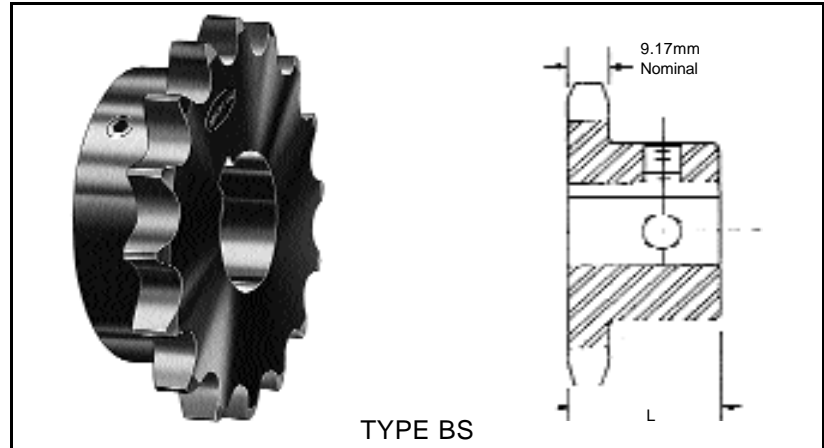
ISO 10B-1

PITCH: 15,875mm (0,625 IN.)

ROLLER DIAMETER: 10,16mm (0,400 IN.)

ROLLERWIDTH: 9,65mm (0,380 IN.)

TENSILE: 23,000 Newtons.



#10B-1 CHAIN

No. Teeth	Catalog Number (mm)	Pitch Diam.	Length Thru Bore	Approx. Wt. (Kilos)	Stock Finished Bores (mm) Includes Keyway and Setscrew											
10	10BS10	51,37	25	,14	16	19	20	22	*24	*25						
11	10BS11	56,34	25	,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	28	,45	16	19	20	22	24	25	28	30	32			
15	10BS15	76,36	28	,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	86,38	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°.

H diameters vary to suit different Bore Sizes.

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**

Simplex-Type A —
Steel

Simplex-Type B — Steel/Cast

CHAIN DATA:

BS 228/11

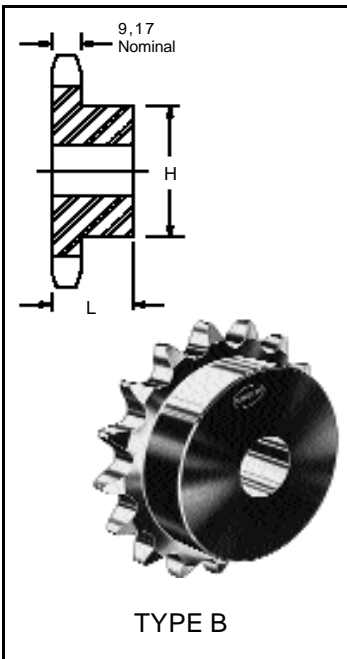
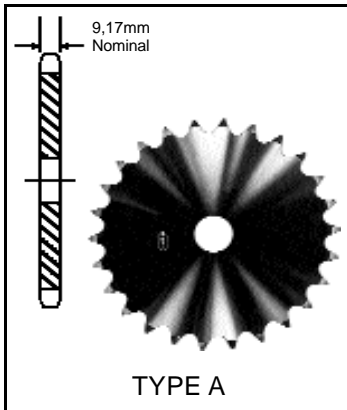
ISO 10B-1

PITCH: 15,88mm (0.625 in.)

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

ROLLER WIDTH: 9,65mm (0.380 in.)

TENSILE: 23,000 Newtons,



No.	Pitch Diameter	Catalog Number	Bore		Hub		Weight (Approx.)	Catalog Number	Bore Stock	Weight (Approx.)
			Stock	Max.	H	L				
Teeth	MM		MM	MM	MM	MM	Kilos		MM	Kilos
8	41,48	10B8	10	11	25	25	0,12	10A8	10	0,07
9	46,42	10B9	10	15	30	25	0,17	10A9	10	0,10
10	51,37	10B10	10	18	35	25	0,23	10A10	10	0,12
11	56,34	10B11	12	21	37	28	0,30	10A11	10	0,15
12	61,34	10B12	12	25	42	28	0,38	10A12	12	0,18
13	66,32	10B13	12	28	47	28	0,47	10A13	12	0,21
14	71,34	10B14	12	32	52	28	0,57	10A14	12	0,24
15	76,36	10B15	12	35	57	28	0,69	10A15	12	0,28
16	81,37	10B16	14	40	60	30	0,77	10A16	12	0,31
17	86,39	10B17	14	40	60	30	0,82	10A17	12	0,36
18	91,42	10B18	14	50	70	30	1,02	10A18	12	0,41
19	96,45	10B19	14	50	70	30	1,06	10A19	12	0,46
20	101,49	10B20	14	50	75	30	1,22	10A20	12	0,52
21	106,52	10B21	16	50	75	30	1,26	10A21	12	0,57
22	111,55	10B22	16	50	80	30	1,42	10A22	12	0,62
23	116,58	10B23	16	50	80	30	1,47	10A23	12	0,67
24	121,62	10B24	16	50	80	30	1,55	10A24	12	0,74
25	126,66	10B25	16	50	80	30	1,62	10A25	12	0,81
26	131,70	10B26	20	55	85	35	2,00	10A26	16	0,88
27	136,75	10B27	20	55	85	35	2,05	10A27	16	0,96
28	141,78	10B28	20	55	90	35	2,27	10A28	16	1,02
29	146,83	10B29	20	55	90	35	2,35	10A29	16	1,09
30	151,87	10B30	20	58	90	35	2,42	10A30	16	1,20
31	156,92	10B31	20	58	95	35	2,66	10A31	16	1,28
32	161,95	10B32	20	58	95	35	2,74	10A32	16	1,38
33	167,00	10B33	20	58	95	35	2,80	10A33	16	1,46
34	172,05	10B34	20	58	95	35	2,90	10A34	16	1,55
35	177,10	10B35	20	58	95	35	3,03	10A35	16	1,63
36	182,15	10B36	20	63	100	35	3,27	10A36	19	2,00
37	187,20	10B37	20	63	100	35	3,39	10A37	19	1,85
38	192,24	10B38	20	63	80	40	3,49	10A38	19	1,93
39	197,29	10B39	20	63	100	35	3,58	10A39	19	2,05
40	202,34	10B40	20	63	100	35	3,69	10A40	19	2,15
41	207,39	10B41	20	57	82	32	3,78	10A41	19	2,25
42	212,44	10B42	20	57	82	32	3,87	10A42	19	2,38
43	217,49	10B43	20	57	82	32	3,96	10A43	19	2,49
44	222,53	10B44	20	57	82	32	4,05	10A44	19	2,61
45	227,58	10B45	19	55	80	40	4,18	10A45	19	2,74
46	232,63	10B46	20	64	95	32	4,34	10A46	19	2,87
47	237,68	10B47	20	64	95	32	4,50	10A47	19	2,99
48	242,73	10B48	25	64	95	32	4,66	10A48	24	3,13
49	247,78	10B49	25	64	95	32	4,82	10A49	24	3,28
50	252,82	10B50	25	64	95	32	4,98	10A50	24	3,43
51	257,87	10B51	25	64	95	32	5,14	10A51	24	3,57
52	262,92	10B52	25	64	95	32	5,30	10A52	24	3,72
53	267,97	10B53	25	64	95	32	5,46	10A53	24	3,87
54	273,03	10B54	25	64	95	32	5,62	10A54	24	4,02
55	278,08	10B55	25	64	95	32	5,78	10A55	24	4,16
56	283,13	10B56	25	64	95	32	5,94	10A56	24	4,31
57	288,18	10B57	23	55	90	45	6,00	10A57	24	4,46
58	293,23	10B58	25	64	95	32	6,44	10A58	24	4,64
59	298,27	10B59	25	64	95	32	6,88	10A59	24	4,83
60	303,32	10B60	25	64	95	32	7,32	10A60	24	5,01
65	328,58							10A65	24	5,92
70	353,84	10B70*	25	64	95	44	7,76	10A70*	24	6,83
72	363,95	10B72*	25	64	95	44	8,20	10A72*	24	7,20
76	384,16	10B76	23	60	90	50	8,68	10A76	24	7,93
80	404,35	10B80*	25	70	108	44	10,20	10A80*	24	8,89
84	424,57	10B84*	25	70	108	44	11,72	10A84*	24	9,85
85	429,62							10A85	24	10,09
92	464,98							10A92	24	11,76
95	480,14	10B95	23	60	100	56	13,24	10A95	24	12,48
96	485,19	10B96*	25	70	108	44	14,00	10A96*	24	12,72
112	566,03	10B112*	25	70	108	44	15,55	10A112*	24	16,55
114	576,13	10B114*	25	70	108	44	16,25	10A114*	24	17,03
120	606,45	10B120	25	70	108	44	18,25	10A120	30	18,50

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.

*Check for current availability.

•Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

ISO 10B-1

0.625 INCH (15,88MM) PITCH **SIMPLEX**

CHAIN DATA:

BS 228/11

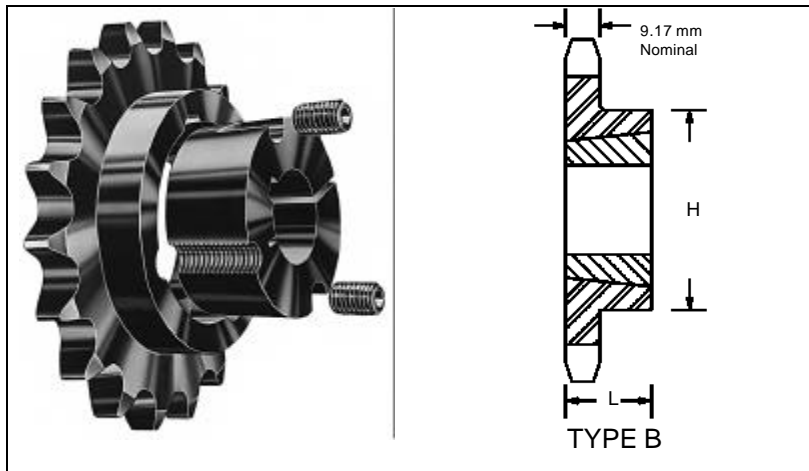
ISO 10B-1

PITCH: 15,875mm (0,625 in.)

ROLLER DIAMETER: 10,16mm (0,400 in.)

ROLLER WIDTH: 9,65mm (0,380 in.)

TENSILE: 23,000 Newtons.



Simplex-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
12	61,34	10BTB12*	1008	25,4	22,2	49,2+	0,21	0,09
13	66,32	10BTB13	1008	25,4	22,2	50,0	0,25	0,09
14	71,34	10BTB14	1108	25,4	22,2	52,0	0,27	0,12
15	76,36	10BTB15	1210	31,8	25,4	63,0+	0,33	0,21
16	81,37	10BTB16	1610	41,3	25,4	70,6+	0,32	0,31
17	86,39	10BTB17	1610	41,3	25,4	71,0+	0,40	0,31
18	91,42	10BTB18	1610	41,3	25,4	75,0	0,50	0,31
19	96,45	10BTB19	1610	41,3	25,4	76,0	0,56	0,31
20	101,49	10BTB20	1610	41,3	25,4	76,0	0,64	0,31
21	106,52	10BTB21	1610	41,3	25,4	76,0	0,69	0,31
22	111,55	10BTB22	1610	41,3	25,4	76,0	0,75	0,31
23	116,58	10BTB23	1610	41,3	25,4	76,0	0,81	0,31
24	121,62	10BTB24	2012	50,8	31,8	90,0	1,00	0,59
25	126,66	10BTB25	2012	50,8	31,8	90,0	1,06	0,59
26	131,70	10BTB26	2012	50,8	31,8	90,0	1,14	0,59
27	136,75	10BTB27	2012	50,8	31,8	90,0	1,19	0,59
28	141,78	10BTB28	2012	50,8	31,8	90,0	1,28	0,59
29	146,83	10BTB29	2012	50,8	31,8	90,0	1,37	0,59
30	151,87	10BTB30	2012	50,8	31,8	98,0	1,65	0,59
32	161,96	10BTB32*	2012	50,8	31,8	98,0	2,21	0,59
35	177,10	10BTB35*	2012	50,8	31,8	98,0	3,05	0,59
36	182,15	10BTB36*	2012	50,8	31,8	98,0	3,33	0,59
38	192,24	10BTB38	2012	50,8	31,8	102,0	3,89	0,59
40	202,33	10BTB40*	2012	50,8	31,8	102,0	4,45	0,59
42	212,43	10BTB42*	2012	50,8	31,8	102,0	5,01	0,59
45•	227,58	10BTB45	2012	50,8	31,8	111,0	3,97	0,59
48	242,73	10BTB48*	2012	50,8	31,8	102,0	6,69	0,59
54	273,03	10BTB54*	2012	50,8	31,8	102,0	8,37	0,59
57•	288,19	10BTB57	2012	50,8	31,8	111,0	5,45	0,59
60	303,33	10BTB60*	2012	50,8	31,8	102,0	10,05	0,59
70	353,84	10BTB70*	2517	63,5	44,5	111,0	12,85	1,30
72	363,95	10BTB72*	2517	63,5	44,5	111,0	13,41	1,30
76•	384,15	10BTB76	2012	50,8	31,8	111,0	7,43	0,59
80	404,35	10BTB80*	2517	63,5	44,5	111,0	15,65	1,30
84	424,70	10BTB84*	2517	63,5	44,5	111,0	16,77	1,30
95	480,14	10BTB95	2012	50,8	44,5	111,0	19,85	0,59
96	485,30	10BTB96*	2517	63,5	44,5	111,0	20,13	1,30
114	576,13	10BTB114*	2517	63,5	44,5	111,0	25,17	1,30

+ Has recessed groove in hub for chain clearance.

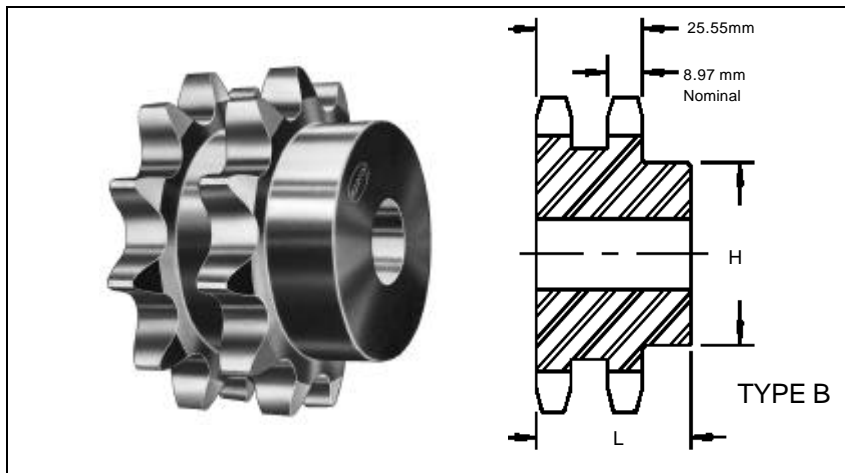
*Check for current availability.

•Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

0.625 INCH (15,88MM) PITCH **DUPLEX**

ISO **10B-2**



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	24	37	40	0,45
12	61,34	D10B12	14	25	44	40	0,57
13	66,32	D10B13	14	29	49	40	0,70
14	71,34	D10B14	14	35	53	40	0,84
15	76,36	D10B15	14	35	59	40	0,99
16	81,37	D10B16	16	40	63	45	1,23
17	86,39	D10B17	16	40	69	45	1,47
18	91,42	D10B18	16	48	73	45	1,68
19	96,45	D10B19	16	46	79	45	1,90
20	101,49	D10B20	16	56	84	45	2,10
21	106,52	D10B21	16	55	85	45	2,31
22	111,55	D10B22	16	60	90	45	2,58
23	116,58	D10B23	16	55	95	45	2,85
24	121,62	D10B24	16	64	100	45	3,14
25	126,66	D10B25	16	55	105	45	3,44
26	131,70	D10B26	20	73	110	45	3,69
27	136,75	D10B27	20	55	110	45	3,95
28	141,78	D10B28	20	76	115	45	4,25
29	146,83	D10B29	20	76	115	45	4,55
30	151,87	D10B30	20	58	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	58	120	45	5,20
40	202,34	D10B40	30	80	120	50	5,41
45•	227,58	D10B45	30	60	100	50	5,94
48	242,73	D10B48	30	80	120	60	7,27
57•	288,18	D10B57	29	60	100	56	8,61
60	303,32	D10B60	32	85	130	60	9,30
70	353,84	D10B70	32	85	130	60	9,99
76•	384,16	D10B76	29	85	100	63	10,68
80	404,35	D10B80	32	85	130	60	11,00
95	480,14	D10B95*	32	85	130	60	12,00
114	576,13	D10B114*	32	85	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 at angle to keyseat.

*Check for current availability.

•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

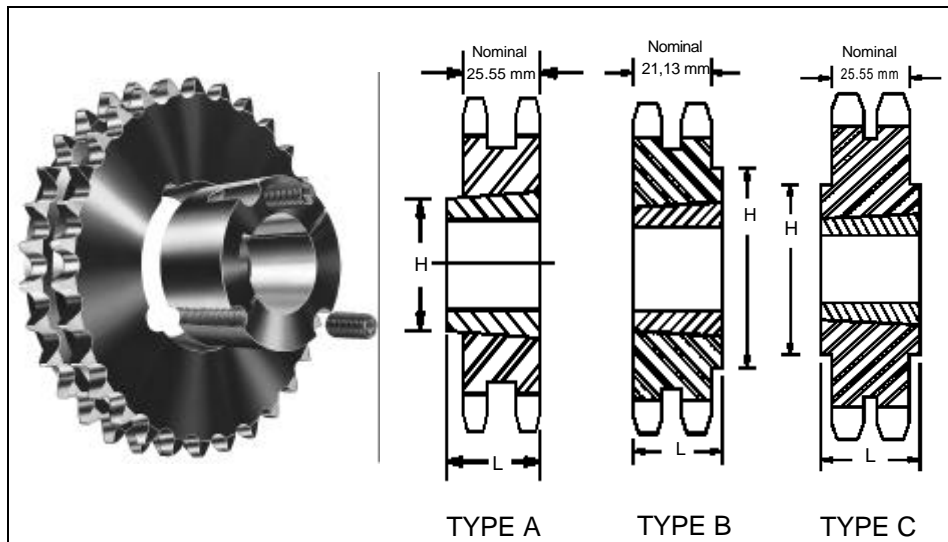
ISO 10B-2

PITCH: 15,875mm (0.625 in.)

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

ROLLER WIDTH: 9,65mm (0.380 in.)

TENSILE: 44,400 Newtons.



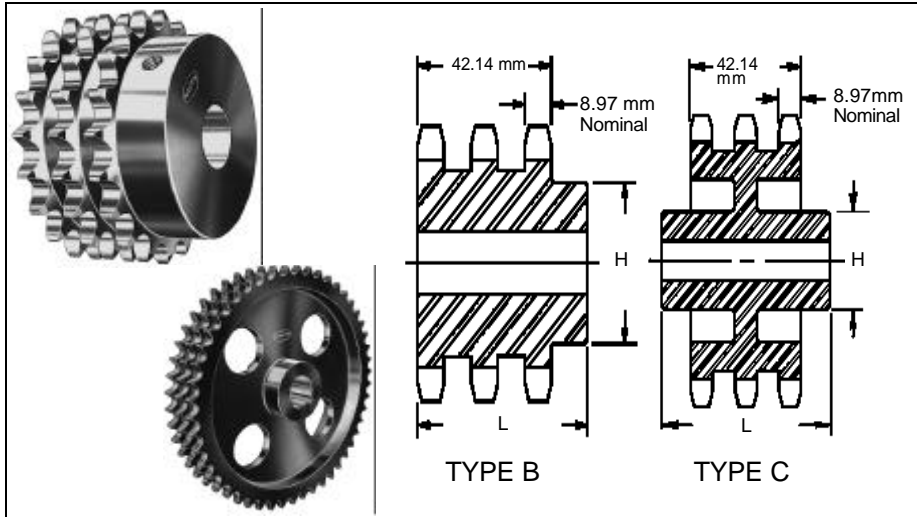
Duplex-Taper Bushed — Steel/Cast

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight	
	MM				L MM	H MM	Rim Kilos	Bushing Kilos
14	71,34	D10ATB14*	1008	25,4	22,2	—	0,43	0,09
15	76,36	D10ATB15	1210	31,8	25,4	—	0,39	0,21
16	81,37	D10ATB16	1610	41,3	25,4	—	0,35	0,31
17	86,39	D10ATB17	1610	41,3	25,4	—	0,46	0,31
18	91,42	D10ATB18	1610	41,3	25,4	—	0,62	0,31
19	96,45	D10ATB19	1610	41,3	25,4	—	0,75	0,31
20	101,49	D10BTB20	1610	41,3	25,4	—	0,87	0,31
21	106,52	D10BTB21	1610	41,3	25,4	—	1,05	0,31
22	111,55	D10BTB22	1610	41,3	31,8	—	1,20	0,31
23	116,58	D10BTB23	1610	41,3	31,8	—	1,38	0,31
24	121,62	D10BTB24	2012	50,8	31,8	90,0	1,43	0,59
25	126,66	D10BTB25	2012	50,8	31,8	90,0	1,62	0,59
26	131,70	D10BTB26	2012	50,8	31,8	90,0	1,79	0,59
27	136,75	D10BTB27	2012	50,8	31,8	90,0	2,00	0,59
28	141,78	D10BTB28	2012	50,8	31,8	90,0	2,20	0,59
29	146,83	D10BTB29	2012	50,8	31,8	90,0	2,43	0,59
30	151,87	D10BTB30	2012	50,8	44,5	108,0	2,66	0,59
36	182,15	D10CTB36*	2517	63,5	44,5	108,0	4,33	1,30
38	192,24	D10CTB38	2012	50,8	44,5	108,0	4,88	0,59
42	212,44	D10CTB42*	2517	63,5	44,5	108,0	5,99	1,30
45	227,58	D10CTB45*	2517	63,5	44,5	108,0	6,83	1,30
48	242,73	D10CTB48*	2517	63,5	44,5	108,0	7,66	1,30
57	288,18	D10CTB57*	2517	63,5	44,5	108,0	10,15	1,30
60	303,32	D10CTB60*	2517	63,5	44,5	108,0	10,99	1,30
68	343,74	D10CTB68*	2517	63,5	44,5	108,0	13,21	1,30
76	384,16	D10CTB76*	2517	63,5	44,5	108,0	15,43	1,30
84	424,57	D10CTB84*	2517	63,5	44,5	108,0	17,65	1,30
95	480,14	D10CTB95*	2517	63,5	44,5	108,0	20,70	1,30
114	576,13	D10CTB114*	2517	63,5	44,5	108,0	25,97	1,30

*Check for current availability.

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

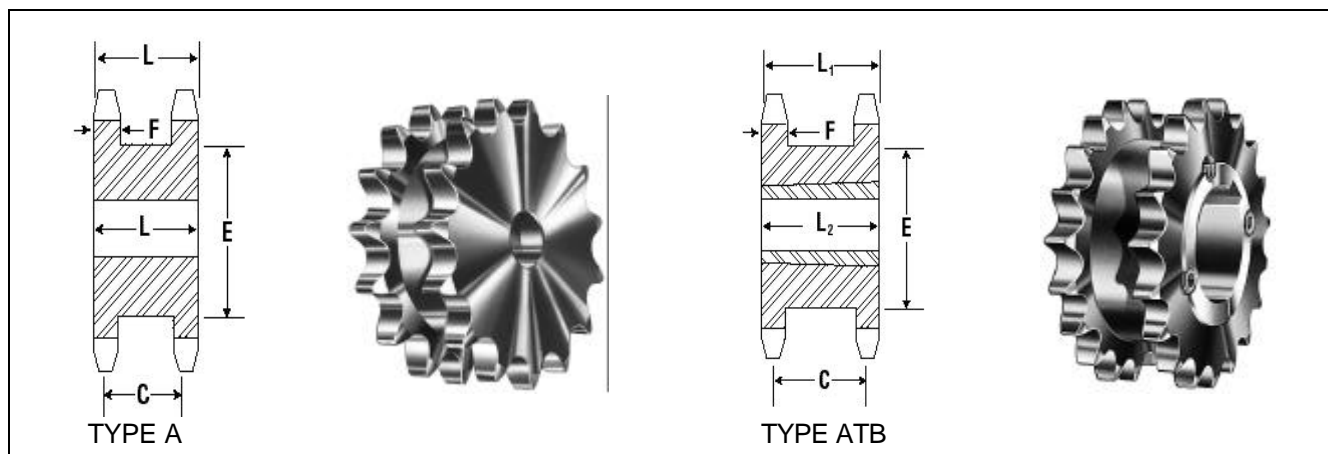
No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM	
11	56,34	E10B11*	16	24	37	55	0,68
12	61,34	E10B12*	16	29	43	55	0,82
13	66,32	E10B13*	16	34	48	55	1,05
14	71,34	E10B14*	16	35	53	55	1,23
15	76,36	E10B15*	16	38	58	55	1,36
16	81,37	E10B16*	16	42	63	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	52	79	60	2,40
20	101,49	E10B20*	16	56	84	60	2,72
21	106,52	E10B21*	20	56	85	60	3,04
22	111,55	E10B22*	20	60	90	60	3,36
23	116,58	E10B23*	20	62	95	60	3,67
24	121,62	E10B24*	20	64	100	60	4,00
25	126,66	E10B25*	20	68	105	60	4,31
26	131,70	E10B26*	20	73	110	60	5,18
27	136,75	E10B27*	20	73	110	60	5,63
28	141,78	E10B28*	20	76	115	60	6,04
29	146,83	E10B29*	20	76	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 at angle to keyseat.

*Check for current availability.

ISO 12B-1

0,750 INCH (19,05MM) PITCH Double Single



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	79,59	A	19	38	49,2	38,1	59,0	11,1	1,29
14	DS12A14	93,60	85,62	A	19	42	49,2	38,1	65,0	11,1	1,52
15	DS12A15	99,80	91,61	A	19	38	49,2	38,1	72,0	11,1	1,73
16	DS12A16	105,50	97,63	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	100,0	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	160,32	151,94	A	24	85	49,2	38,1	130,0	11,1	5,30

Double Single - Taper Bushed - Steel

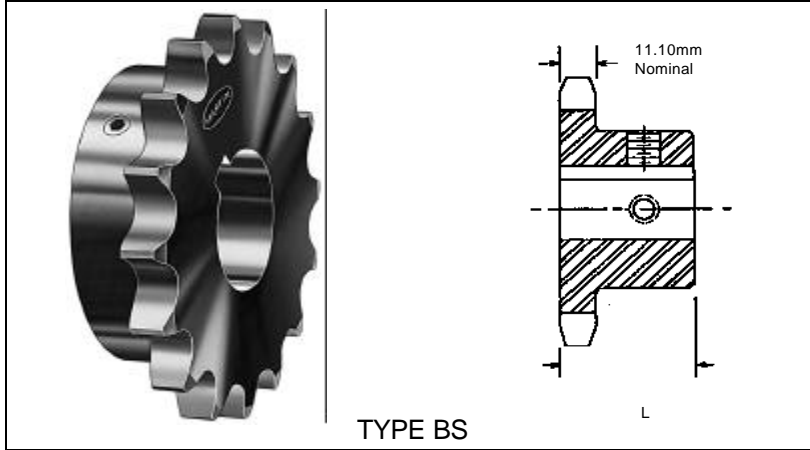
No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	L ₁	Dimensions				Wt. Rim Only
			Outside Diameter	Pitch Diameter					C	E	L ₂	F (Norm.)	
12	DS12ATB12H	1215	81,50	73,61	11	32	ATB	49,2	38,1	53,0	38,1	11,1	0,95
13	DS12ATB13H	1215	87,50	79,59	11	32	ATB	49,2	38,1	59,0	38,1	11,1	1,19
14	DS12ATB14H	1215	93,60	85,62	11	32	ATB	49,2	38,1	65,0	38,1	11,1	1,32
15	DS12ATB15H	1615	99,80	91,61	14	42	ATB	49,2	38,1	72,0	38,1	11,1	1,44
16	DS12ATB16H	1615	105,50	97,63	14	42	ATB	49,2	38,1	77,0	38,1	11,1	1,74
17	DS12ATB17H	1615	111,50	103,67	14	42	ATB	49,2	38,1	82,0	38,1	11,1	2,05
18	DS12ATB18H	2012	118,00	109,71	14	50	ATB	49,2	38,1	88,0	31,8	11,1	2,27
19	DS12ATB19H	2012	124,20	115,75	14	50	ATB	49,2	38,1	94,0	31,8	11,1	2,64
20	DS12ATB20H	2517	129,70	121,78	16	65	ATB	49,2	38,1	100,0	44,5	11,1	2,55
21	DS12ATB21H	2517	136,00	127,82	16	65	ATB	49,2	38,1	106,0	44,5	11,1	2,91
22	DS12ATB22H	2517	141,80	133,86	16	65	ATB	49,2	38,1	112,0	44,5	11,1	3,11
23	DS12ATB23H	2517	149,00	139,90	16	65	ATB	49,2	38,1	118,0	44,5	11,1	3,32
24	DS12ATB24H	2517	153,90	145,94	16	65	ATB	49,2	38,1	124,0	44,5	11,1	3,53
25	DS12ATB25H	2517	160,32	151,94	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**



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 (mm)	Pitch Diam. (mm)	Length Thru Bore	Appox. Wt. (Kilos)	Stock Finished Bores (mm) Includes 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.

Hub diameters vary to suit different Bore Sizes.

KEYWAY IS ON CENTER LINE OF TOOTH.

ISO 12B-1

0.750 INCH (19,05MM) PITCH **SIMPLEX**

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 MM	Max. MM	H MM	L MM				
8	49,78	12B8	12	16	31	30	0,22	12A8	12	0,13
9	55,70	12B9	12	20	37	30	0,31	12A9	12	0,16
10	61,64	12B10	12	23	42	30	0,39	12A10	12	0,21
11	67,61	12B11	14	28	46	35	0,54	12A11	14	0,25
12	73,61	12B12	14	32	52	35	0,68	12A12	14	0,30
13	79,59	12B13	14	36	58	35	0,84	12A13	14	0,37
14	85,61	12B14	14	40	64	35	1,01	12A14	14	0,43
15	91,63	12B15	14	44	70	35	1,19	12A15	14	0,50
16	97,65	12B16	16	48	75	35	1,36	12A16	14	0,56
17	103,67	12B17	16	55	80	35	1,56	12A17	14	0,65
18	109,71	12B18	16	55	80	35	1,73	12A18	14	0,73
19	115,75	12B19	16	55	80	35	1,73	12A19	14	0,82
20	121,78	12B20	16	55	80	35	1,83	12A20	14	0,90
21	127,82	12B21	20	55	90	40	2,37	12A21	16	0,99
22	133,86	12B22	20	55	90	40	2,48	12A22	16	1,08
23	139,90	12B23	20	55	90	40	2,58	12A23	16	1,21
24	145,94	12B24	20	55	90	40	2,70	12A24	19	1,33
25	152,00	12B25	20	55	90	40	2,81	12A25	19	1,43
26	158,04	12B26	20	58	95	40	3,11	12A26	19	1,57
27	164,09	12B27	20	58	95	40	3,24	12A27	19	1,69
28	170,13	12B28	20	58	95	40	3,37	12A28	19	1,83
29	176,19	12B29	20	60	95	40	3,49	12A29	19	1,97
30	182,25	12B30	20	60	95	40	3,66	12A30	19	2,11
31	188,31	12B31	20	64	100	40	3,96	12A31	19	2,26
32	194,36	12B32	20	64	100	40	4,14	12A32	19	2,37
33	200,40	12B33	20	64	100	40	4,28	12A33	19	2,58
34	206,46	12B34	20	64	100	40	4,45	12A34	19	2,72
35	212,52	12B35	20	64	100	40	4,62	12A35	19	2,90
36	218,58	12B36	20	70	100	40	4,79	12A36	19	3,04
37	224,64	12B37	20	70	100	40	4,97	12A37	19	3,27
38	230,69	12B38	20	70	100	56	5,15	12A38	24	3,42
39	236,75	12B39	20	70	100	40	5,34	12A39	24	3,61
40	242,81	12B40	20	70	100	40	5,54	12A40	24	3,80
41	248,87	12B41	25	70	107	40	5,78	12A41	24	3,97
42	254,93	12B42	25	70	107	40	6,02	12A42	24	4,18
43	260,98	12B43	25	70	107	40	6,26	12A43	24	4,43
44	267,04	12B44	25	70	107	40	6,50	12A44	24	4,60
45•	273,10	12B45	23	60	100	56	6,30	12A45	24	4,77
46	279,16	12B46	25	70	107	40	6,98	12A46	24	5,07
47	285,21	12B47	25	70	107	40	7,22	12A47	24	5,30
48	291,27	12B48	25	70	107	40	7,46	12A48	24	5,55
49	297,33	12B49	25	70	107	40	7,70	12A49	24	5,81
50	303,39	12B50	25	70	107	40	7,94	12A50	24	6,06
54	327,64	12B54	32	70	110	45	8,90	12A54	32	7,08
57•	345,81	12B57	29	60	100	56	7,75	12A57	32	7,84
60	363,99	12B60*	32	70	110	45	10,34	12A60	32	8,82
65	394,29	12B65*	32	70	110	45	11,64	12A65	32	10,46
68	412,49							12A68	32	11,44
70	424,60	12B70*	32	70	110	45	12,74	12A70	32	12,10
72	436,74	12B72*	32	80	120	50	13,22	12A72	32	12,75
76•	460,99	12B76	32	60	100	56	12,50	12A76	32	14,06
80	485,22	12B80*	32	80	120	50	15,14	12A80	32	15,73
84	509,48	12B84*	32	80	120	50	16,10	12A84	32	17,40
90	545,85							12A90	32	19,91
92	557,98							12A92	32	20,75
95	576,17	12B95*	32	92	140	55	18,74	12A95	32	22,00
96	582,23	12B96*	32	92	140	55	18,98	12A96	32	22,42
114	691,36	12B114*	32	92	140	55	23,30	12A114	32	29,94

CHAIN DATA:

BS 228/13

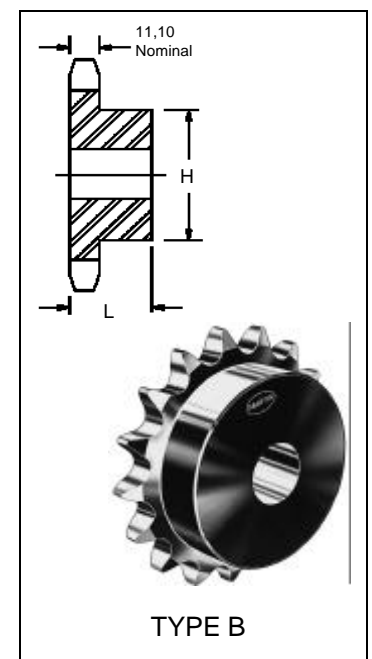
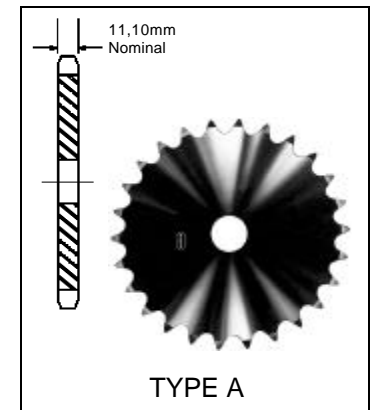
ISO 12B-1

PITCH: 19,05mm (0.750 in.)

ROLLER DIAMETER: 12,07mm (0.475 in.)

ROLLER WIDTH: 11,68mm (0.460 in.)

TENSILE: 30,500 Newtons.



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.

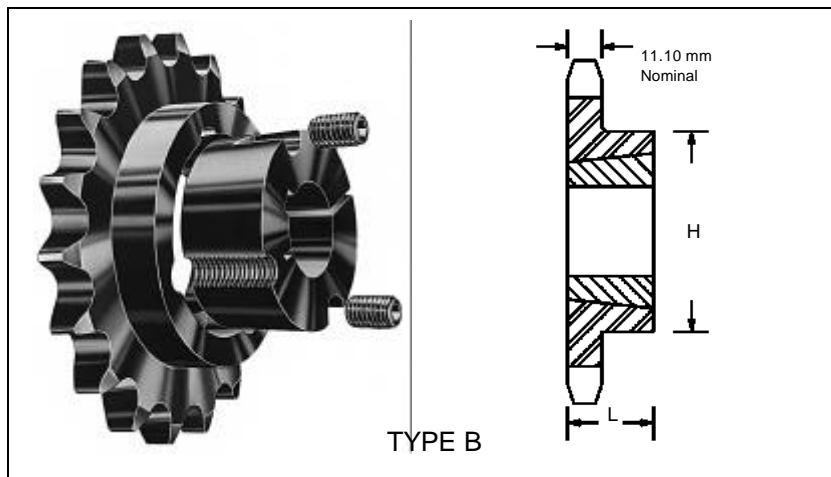
*Check for current availability.

•Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

0.750 INCH (19,05MM) PITCH **SIMPLEX**

ISO 12B-1



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. MM	Dimension		Weight	
	MM				L MM	H MM	Rim Kilos	Bushing Kilos
11	67,61	12BTB11*	1008	25,4	22,2	46,0	0,22	0,09
12	73,61	12BTB12*	1008	25,4	22,2	49,2	0,30	0,09
13	79,59	12BTB13	1210	31,8	25,4	63,0+	0,38	0,21
14	85,61	12BTB14	1610	41,3	25,4	71,0+	0,46	0,31
15	91,63	12BTB15	1610	41,3	25,4	71,0	0,48	0,31
16	97,65	12BTB16	1610	41,3	25,4	75,0	0,60	0,31
17	103,67	12BTB17	1610	41,3	25,4	76,0	0,70	0,31
18	109,71	12BTB18	2012	50,8	31,8	90,0	0,86	0,59
19	115,75	12BTB19	2012	50,8	31,8	90,0	0,98	0,59
20	121,78	12BTB20	2012	50,8	31,8	95,0	1,25	0,59
21	127,82	12BTB21	2517	63,5	44,5	102,0	1,28	1,30
22	133,86	12BTB22	2517	63,5	44,5	102,0	1,37	1,30
23	139,90	12BTB23	2517	63,5	44,5	108,0	1,75	1,30
24	145,94	12BTB24	2517	63,5	44,5	108,0	1,85	1,30
25	152,00	12BTB25	2517	63,5	44,5	108,0	1,95	1,30
26	158,04	12BTB26	2517	63,5	44,5	108,0	2,09	1,30
27	164,09	12BTB27	2517	63,5	44,5	108,0	2,22	1,30
28	170,13	12BTB28	2517	63,5	44,5	108,0	2,36	1,30
29	176,19	12BTB29	2517	63,5	44,5	114,0	2,75	1,30
30	182,25	12BTB30	2517	63,5	44,5	114,0	2,89	1,30
32	194,36	12BTB32*	2517	63,5	44,5	114,0	3,59	1,30
35	212,52	12BTB35*	2517	63,5	44,5	114,0	4,41	1,30
36	218,58	12BTB36*	2517	63,5	44,5	114,0	4,68	1,30
38•	230,69	12BTB38	2517	63,5	44,5	124,0	4,60	1,30
40	242,81	12BTB40*	2517	63,5	44,5	114,0	5,78	1,30
42	254,93	12BTB42*	2517	63,5	44,5	114,0	6,33	1,30
45•	273,10	12BTB45	2517	63,5	44,5	124,0	5,70	1,30
48	291,27	12BTB48*	2517	63,5	44,5	114,0	7,97	1,30
54	327,64	12BTB54*	2517	63,5	44,5	114,0	9,61	1,30
57•	345,81	12BTB57	2517	63,5	44,5	124,0	6,49	1,30
60	363,99	12BTB60*	2517	63,5	44,5	114,0	11,25	1,30
68	412,49	12BTB68*	2517	63,5	44,5	114,0	13,44	1,30
70	424,60	12BTB70*	2517	63,5	44,5	114,0	13,99	1,30
72	436,74	12BTB72*	2517	63,5	44,5	114,0	14,54	1,30
76•	460,99	12BTB76	2517	63,5	44,5	124,0	11,20	1,30
84	509,48	12BTB84*	2517	63,5	44,5	114,0	17,82	1,30
95•	576,17	12BTB95	2517	63,5	44,5	124,0	17,64	1,30
96	582,23	12BTB96*	2517	63,5	44,5	114,0	21,11	1,30
114	691,36	12BTB114*	2517	63,5	44,5	114,0	26,04	1,30

*Check for current availability.

+ 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

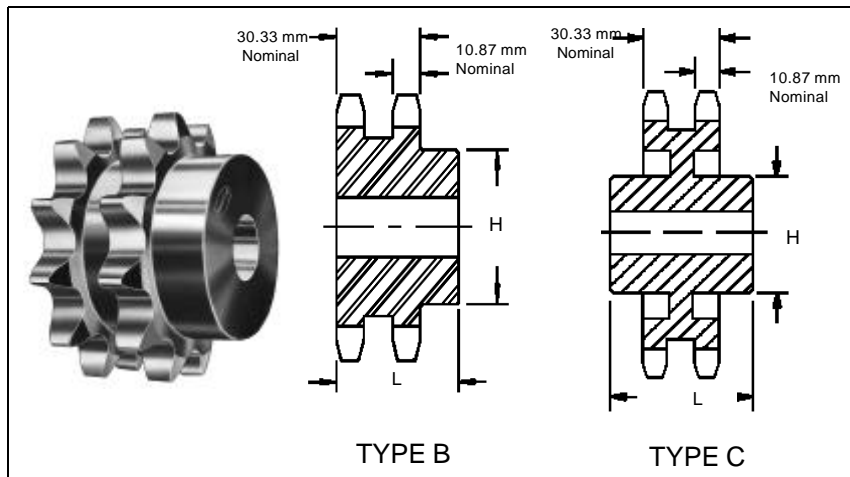
ISO 12B-2

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 MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock	Max.	H	L	
			MM	MM	MM	MM	
10	61,65	D12B10	16	32	47	50	0,57
11	67,61	D12B11	16	32	47	50	0,80
12	73,61	D12B12	16	32	53	50	1,03
13	79,59	D12B13	16	36	59	50	1,26
14	85,61	D12B14	16	42	65	50	1,52
15	91,63	D12B15	16	44	71	50	1,78
16	97,65	D12B16	20	51	77	50	2,08
17	103,67	D12B17	20	55	83	50	2,37
18	109,71	D12B18	20	60	89	50	2,72
19	115,75	D12B19	20	55	95	50	3,07
20	121,78	D12B20	20	64	100	50	3,39
21	127,82	D12B21	20	60	100	50	3,70
22	133,86	D12B22	20	64	100	50	4,11
23	139,90	D12B23	20	60	110	50	4,52
24	145,94	D12B24	20	73	110	50	4,96
25	152,00	D12B25	20	60	120	50	5,39
26	158,04	D12B26	20	80	120	50	5,74
27	164,09	D12B27	20	60	120	50	6,09
28	170,13	D12B28	20	80	120	50	6,45
30	182,25	D12B30	20	60	120	50	7,17
32	194,36	D12B32	20	85	130	50	8,41
35	212,52	D12B35	20	85	130	50	9,70
36	218,58	D12B36	25	85	130	50	10,12
38	230,69	D12B38	25	65	130	50	10,98
40	242,81	D12B40	25	85	130	50	11,84
45•	273,10	D12B45	29	65	110	63	10,58
48	291,27	D12B48	25	85	130	50	15,26
57•	345,81	D12B57	29	70	120	63	11,72
60	363,99	D12B60*	32	85	130	65	20,40
68	412,49	D12C68*	32	85	130	75	23,83
76•	460,99	D12C76	32	80	135	63	18,50
80	485,22	D12C80*	40	85	130	75	28,97
95	576,17	D12C95*	40	93	140	85	35,39
96	582,23	D12C96*	40	93	140	85	35,82
114	691,36	D12C114*	40	93	140	85	43,53

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.

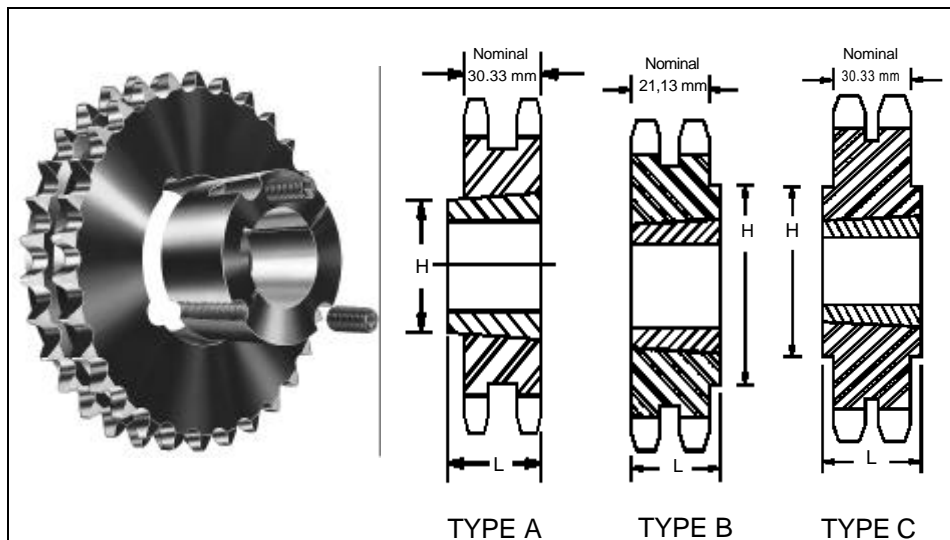
*Check for current availability.

•Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

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. MM	Dimension		Weight	
	MM				L MM	H MM	Rim Kilos	Bushing Kilos
12	73,61	D12ATB12*	1215	31,8	30,3	—	0,19	0,30
13	79,59	D12ATB13*	1215	31,8	30,3	—	0,36	0,30
14	85,61	D12ATB14*	1215	31,8	30,3	—	0,53	0,30
15	91,63	D12BTB15	1610	41,3	30,3	—	0,70	0,31
16	97,65	D12BTB16	1610	41,3	30,3	—	0,87	0,31
17	103,67	D12BTB17	1610	41,3	30,3	—	1,10	0,31
18	109,71	D12BTB18	2012	50,8	31,8	90,0	1,05	0,59
19	115,75	D12BTB19	2012	50,8	31,8	95,0	1,29	0,59
20	121,78	D12BTB20	2517	63,5	44,5	102,0	1,34	1,30
21	127,82	D12BTB21	2517	63,5	44,5	107,0	1,71	1,30
22	133,86	D12BTB22	2517	63,5	44,5	108,0	2,03	1,30
23	139,90	D12BTB23	2517	63,5	44,5	119,0	2,51	1,30
24	145,94	D12BTB24	2517	63,5	44,5	119,0	2,58	1,30
25	152,00	D12BTB25	2517	63,5	44,5	130,0	3,38	1,30
26	158,04	D12BTB26	2517	63,5	44,5	130,0	3,24	1,30
27	164,09	D12BTB27	2517	63,5	44,5	130,0	4,00	1,30
28	170,13	D12BTB28	2517	63,5	44,5	130,0	3,92	1,30
30	182,25	D12BTB30	2517	63,5	44,5	130,0	5,14	1,30
32	194,36	D12BTB32*	2517	63,5	44,5	130,0	5,92	1,30
35	212,52	D12BTB35*	2517	63,5	44,5	130,0	7,08	1,30
38•	230,69	D12BTB38	3020	76,2	50,8	152,0	6,95	2,24
40	242,81	D12CTB40*	3020	76,2	50,8	152,0	9,03	2,24
42	254,93	D12CTB42*	3020	76,2	50,8	152,0	9,81	2,24
45•	273,10	D12CTB45	3020	76,2	50,8	152,0	9,33	2,24
54	327,64	D12CTB54*	3020	76,2	50,8	152,0	14,47	2,24
57•	345,81	D12CTB57	3020	76,2	50,8	160,0	10,50	2,24
60	363,99	D12CTB60*	3020	76,2	50,8	152,0	16,80	2,24
65	394,29	D12CTB65*	3020	76,2	50,8	152,0	18,75	2,24
70	424,60	D12CTB70*	3020	76,2	50,8	152,0	20,69	2,24
76•	460,99	D12CTB76	3020	76,2	50,8	160,0	17,06	2,24
84	509,48	D12CTB84*	3020	76,2	50,8	152,0	26,13	2,24
95•	576,17	D12CTB95	3020	76,2	50,8	160,0	28,50	2,24
114	691,36	D12CTB114*	3020	76,2	50,8	152,0	37,80	2,24

*Check for current availability.

•Available in Cast or Steel.

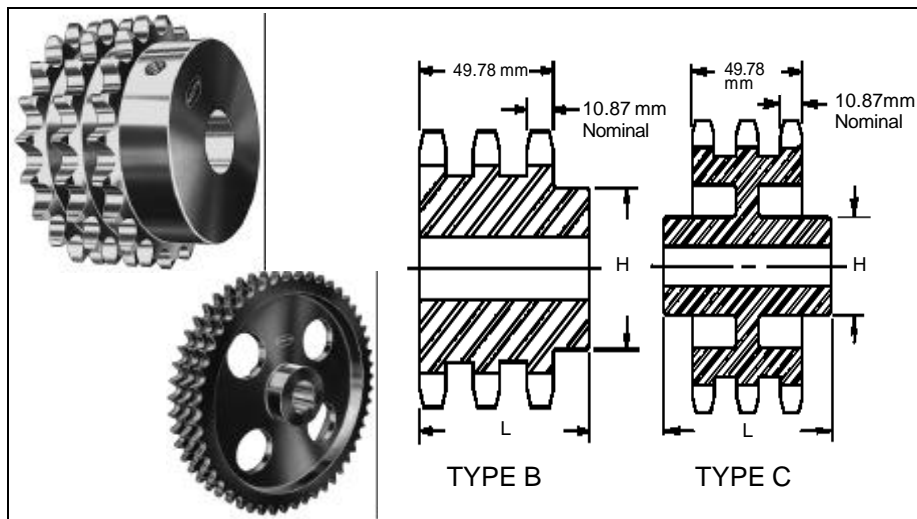
Cast will be shipped unless otherwise specified.

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

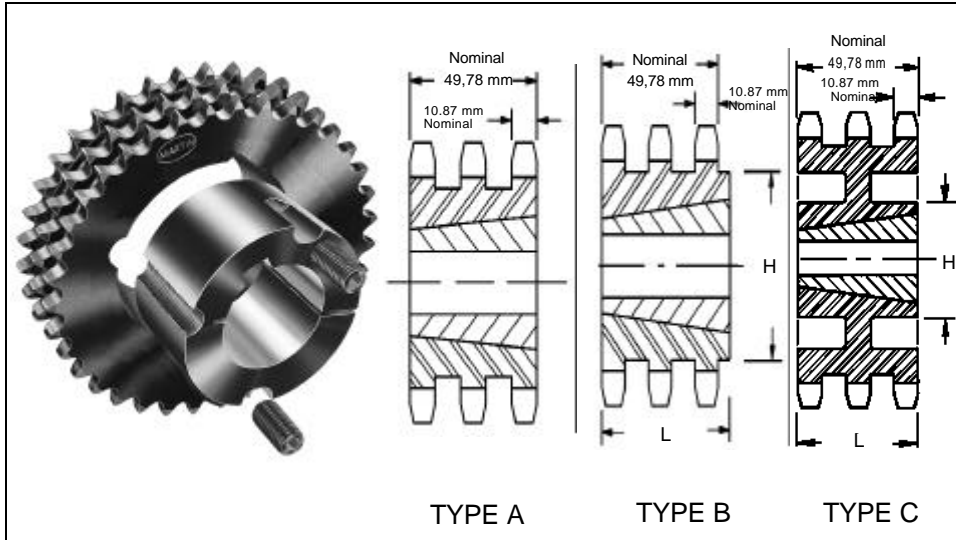
No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM	
11	67,61	E12B11	20	32	47	70	1,13
12	73,61	E12B12	20	36	53	70	1,50
13	79,59	E12B13	20	38	59	70	1,77
14	85,61	E12B14	20	42	65	70	2,04
15	91,63	E12B15	20	45	71	70	2,45
16	97,65	E12B16	20	51	77	70	2,95
17	103,67	E12B17	20	54	83	70	3,49
18	109,71	E12B18	20	60	89	70	3,86
19	115,75	E12B19	20	62	95	70	4,54
20	121,78	E12B20	20	64	100	70	5,08
21	127,82	E12B21	20	64	100	70	5,67
22	133,86	E12B22	20	64	100	70	5,99
23	139,90	E12B23	20	73	110	70	6,62
24	145,94	E12B24	20	73	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	170,13	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	85	130	70	18,95
36	218,58	E12B36	25	85	130	70	19,49
38	230,69	E12B38	25	85	130	70	20,57
45	273,10	E12B45*	25	85	130	70	24,36
48	291,27	E12B48*	25	85	130	70	25,98
57	345,81	E12B57*	32	82	130	85	33,73
60	363,99	E12C60*	32	82	130	85	35,51
68	412,49	E12C68*	32	82	130	85	40,24
76	460,99	E12C76*	40	95	140	85	37,19
80	485,22	E12C80*	40	95	140	85	39,15
95	576,17	E12C95*	40	95	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 at angle to keyseat.

*Check for current availability.

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	Catalog Number	Bushing Number	Bore Max. MM	Hub		Weight (Approx.) Kilos
	MM				L MM	H MM	
17	103,67	E12ATB17	2012	50	—	31,8	1,28
19	115,75	E12ATB19	2012	50	—	31,8	2,02
21	127,82	E12ATB21	2517	65	—	44,5	2,09
23	139,90	E12ATB23	2517	65	—	44,5	3,00
25	152,00	E12ATB25	2517	65	—	44,5	3,97
27	164,09	E12BTB27	3020	75	144	51,0	3,83
30	182,25	E12BTB30	3020	75	143	51,0	5,72
38•	230,69	E12BTB38CI	3020	75	152	51,0	7,76
45•	273,10	E12CTB45CI	3020	75	160	51,0	10,04
57•	345,81	E12CTB57CI	3020	75	160	51,0	14,42
76•	460,99	E12CTB76CI	3020	75	160	51,0	25,50
95	576,17	E12CTB45CI	3020	75	160	51,0	36,58
114	691,36	E12CTB45CI	3020	75	160	51,0	47,66

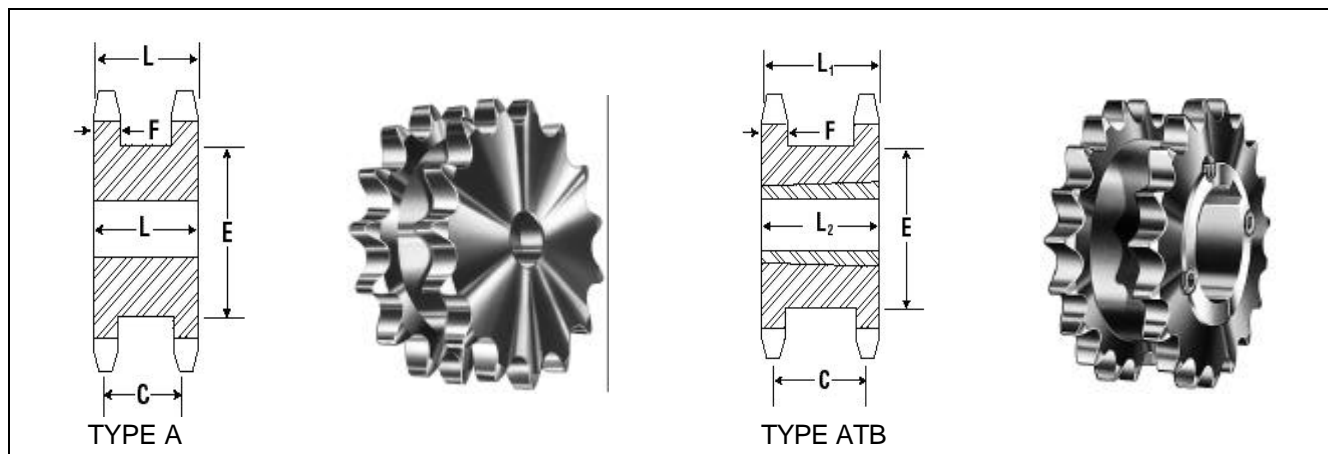
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

•Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

ISO 16B-1

1,00 INCH (25,40MM) PITCH Double Single



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	76,0	16,2	3,09
14	DS16A14	125,00	114,15	A	25	57	63,5	46,5	84,0	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	101,0	16,2	5,00
17	DS16A17	149,00	138,22	A	25	71	63,5	46,5	109,0	16,2	5,75
18	DS16A18	157,00	146,28	A	25	79	63,5	46,5	117,0	16,2	6,50
19	DS16A19	165,20	154,33	A	25	82	63,5	46,5	125,0	16,2	7,40
20	DS16A20	173,20	162,38	A	25	88	63,5	46,5	134,0	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	178,49	A	25	115	63,5	46,5	176,0	16,2	14,40

Double Single - Taper Bushed - Steel

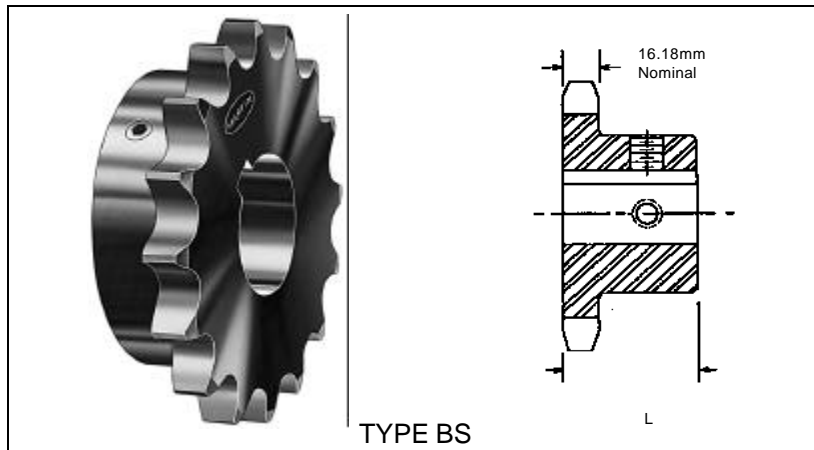
No. Teeth	Catalog Number	Bushings Size	Diameters		Min. Bore	Max. Bore	Type	L ₁	Dimensions				Wt. Rim Only
			Outside Diameter	Pitch Diameter					C	E	L ₂	F (Norm.)	
12	DS16ATB12H	1615	109,00	98,14	14	42	ATB	63,5	46,50	72,0	38,1	16,2	1,92
13	DS16ATB13H	1615	117,00	106,12	14	42	ATB	63,5	46,50	80,0	38,1	16,2	2,53
14	DS16ATB14H	2012	125,00	114,15	14	50	ATB	63,5	46,50	88,0	31,8	16,2	2,53
15	DS16ATB15H	2012	133,00	122,17	14	50	ATB	63,5	46,50	96,0	31,8	16,2	3,10
16	DS16ATB16H	2012	141,00	130,20	14	50	ATB	63,5	46,50	104,0	31,8	16,2	3,68
17	DS16ATB17H	2517	149,00	138,22	16	65	ATB	63,5	46,50	112,0	44,5	16,2	3,89
18	DS16ATB18H	2517	157,00	146,28	16	65	ATB	63,5	46,50	120,0	44,5	16,2	4,65
19	DS16ATB19H	3020	165,20	154,33	25	75	ATB	63,5	46,50	128,0	50,8	16,2	4,50
20	DS16ATB20H	3020	173,20	162,38	25	75	ATB	63,5	46,50	135,0	50,8	16,2	5,10
21	DS16ATB21H	3020	181,20	170,43	25	75	ATB	63,5	46,50	142,0	50,8	16,2	6,00
22	DS16ATB22H	3020	189,30	178,48	25	75	ATB	63,5	46,50	151,0	50,8	16,2	6,20
23	DS16ATB23H	3525	197,50	186,59	35	90	ATB	63,5	46,50	160,0	63,5	16,2	7,15
24	DS16ATB24H	3525	205,50	194,59	35	90	ATB	63,5	46,50	167,0	63,5	16,2	8,10
25	DS16ATB25H	3525	213,50	178,49	35	90	ATB	63,5	46,50	175,0	63,5	16,2	9,00

Metric Sprockets

Martin

1,00 INCH (25,40MM) PITCH **Bored-to-Size**

ISO **16B-1**



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 (mm)	Pitch Diam.	Length Thru Bore	Approx. Wt. (Kilos)	Stock Finished Bores (mm) Includes 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 50
14	16BS14	114,15	40	1,86	25	28	30	32	35	38	40	42	45	48 50
15	16BS15	122,17	40	2,36	25	28	30	32	35	38	40	42	45	48 50
16	16BS16	130,20	45	2,49	25	28	30	32	35	38	40	42	45	48 50
17	16BS17	138,22	45	2,72	25	28	30	32	35	38	40	42	45	48 50
18	16BS18	146,28	45	2,95	25	28	30	32	35	38	40	42	45	48 50
19	16BS19	154,33	45	3,18	25	28	30	32	35	38	40	42	45	48 50
20	16BS20	162,38	45	3,63	25	28	30	32	35	38	40	42	45	48 50
21	16BS21	170,43	50	4,04	25	28	30	32	35	38	40	42	45	48 50
22	16BS22	178,48	50	4,31	25	28	30	32	35	38	40	42	45	48 50
23	16BS23	186,53	50	4,63	25	28	30	32	35	38	40	42	45	48 50
24	16BS24	194,59	50	4,90	25	28	30	32	35	38	40	42	45	48 50
25	16BS25	202,66	50	5,17	25	28	30	32	35	38	40	42	45	48 50
26	16BS26	210,72	50	5,44	25	28	30	32	35	38	40	42	45	48 50
27	16BS27	218,79	50	5,71	25	28	30	32	35	38	40	42	45	48 50
28	16BS28	226,85	50	5,98	25	28	30	32	35	38	40	42	45	48 50
29	16BS29	234,92	50	6,25	25	28	30	32	35	38	40	42	45	48 50
30	16BS30	243,00	65	6,52	25	28	30	32	35	38	40	42	45	48 50

Hub diameters vary to suit different Bore Sizes.

ISO 16B-1

1.00 INCH (25,40MM) PITCH **SIMPLEX**

CHAIN DATA:

BS 228/15

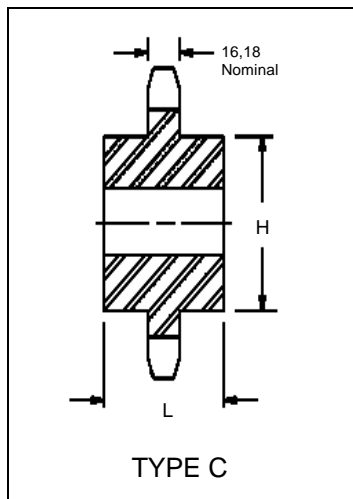
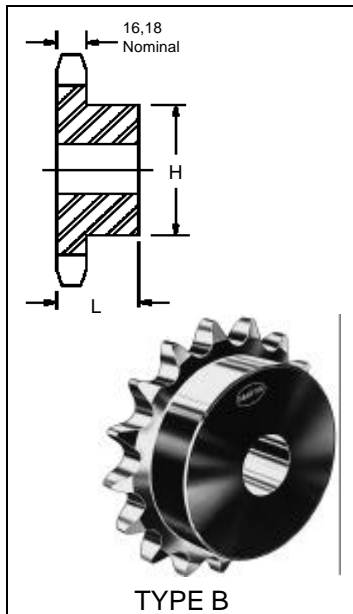
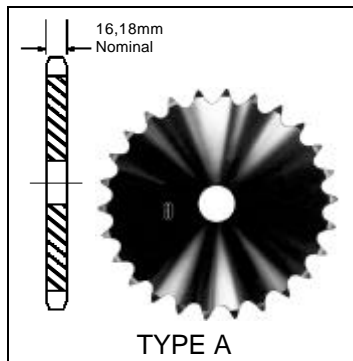
ISO 16B-1

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

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos	Catalog Number	Bore Stock MM	Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM				
8	66,37	16B8	16	22	42	35	0,50	16A8	12	0,34
9	74,27	16B9	16	28	50	35	0,68	16A9	12	0,44
10	82,19	16B10	16	34	55	35	0,87	16A10	12	0,96
11	90,14	16B11	16	38	61	40	1,18	16A11	16	0,68
12	98,14	16B12	16	44	69	40	1,48	16A12	16	0,81
13	106,12	16B13	16	48	78	40	1,82	16A13	16	1,00
14	114,15	16B14	16	53	84	40	2,14	16A14	16	1,13
15	122,17	16B15	16	58	92	40	2,52	16A15	16	1,30
16	130,20	16B16	20	64	100	45	3,19	16A16	19	1,49
17	138,22	16B17	20	70	100	45	3,41	16A17	19	1,68
18	146,28	16B18	20	70	100	45	3,62	16A18	19	1,91
19	154,33	16B19	20	70	100	45	3,86	16A19	19	2,12
20	162,38	16B20	20	70	100	45	4,10	16A20	19	2,39
21	170,43	16B21	20	70	110	50	5,09	16A21	20	2,64
22	178,48	16B22	20	70	110	50	5,35	16A22	20	2,91
23	186,53	16B23	20	70	110	50	5,66	16A23	20	3,16
24	194,59	16B24	20	70	110	50	5,94	16A24	20	3,43
25	202,66	16B25	20	70	110	50	6,25	16A25	20	3,72
26	210,72	16B26	20	76	120	50	7,07	16A26	20	4,08
27	218,79	16B27	20	76	120	50	7,39	16A27	20	4,40
28	226,85	16B28	20	76	120	50	7,72	16A28	20	4,79
29	234,92	16B29	20	76	120	50	8,11	16A29	20	5,14
30	243,00	16B30	20	76	110	65	8,47	16A30	20	5,53
31	251,08	16B31	25	76	120	50	8,78	16A31	25	5,89
32	259,13	16B32	25	76	120	50	9,19	16A32	25	6,33
33	267,21	16B33	25	76	120	50	9,63	16A33	25	6,70
34	275,28	16B34	25	76	120	50	10,02	16A34	25	7,00
35	283,36	16B35	25	76	120	50	10,50	16A35	25	7,60
36	291,44	16B36	25	76	120	50	10,90	16A36	25	8,08
37	299,51	16B37	25	76	120	50	11,30	16A37	25	8,50
38	307,59	16B38	25	76	110	65	11,86	16A38	25	8,98
39	315,67	16B39	25	76	120	50	12,32	16A39	25	9,34
40	323,75	16B40	25	76	120	50	12,86	16A40	25	9,94
41	331,82	16B41*	32	80	120	50	13,40	16A41	32	10,50
42	339,90	16B42*	32	80	120	50	13,94	16A42	32	11,02
43	347,98	16B43*	32	80	120	50	14,48	16A43	32	11,64
44	356,06	16B44*	32	80	120	50	15,02	16A44	32	12,08
45•	364,13	16B45	29	65	110	65	13,00	16A45	32	12,60
46	372,21	16B46*	32	80	120	50	16,10	16A46	32	13,20
47	380,29	16B47*	32	80	120	50	16,64	16A47	32	13,94
48	388,36	16B48*	32	80	120	50	17,18	16A48	32	14,54
50	404,52	16B50*	32	80	120	50	18,26	16A50	32	15,86
54	436,85	16B54*	32	85	130	50	20,42	16A54	32	18,51
57•	461,07	16B57	29	65	125	70	15,50	16A57	32	20,50
60	485,32	16B60*	32	85	130	50	23,66	16A60	32	22,95
65	525,73	16B65*	32	85	130	50	26,36	16A65*	32	27,03
70	566,14	16C70*	40	108	159	90	29,06	16A70*	40	31,11
72	582,32	16C72*	40	108	159	90	30,14	16A72*	40	32,74
76•	614,65	16C76	34	75	125	70	28,50	16A76	40	36,00
80	646,96	16C80*	40	108	159	90	34,46	16A80*	40	40,42
84	679,30	16C84*	40	108	159	90	36,62	16A84*	40	44,84
90	727,81	16C90*	40	108	159	90	39,86	16A90*	40	51,47
95	768,22	16C95	39	85	140	80	42,56	16A95	40	57,00
96	766,31	16C96*	40	108	159	90	43,10	16A96*	40	58,11
114	921,81	16C114*	40	108	159	90	52,82	16A114*	40	78,00

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.

*Check for current availability.

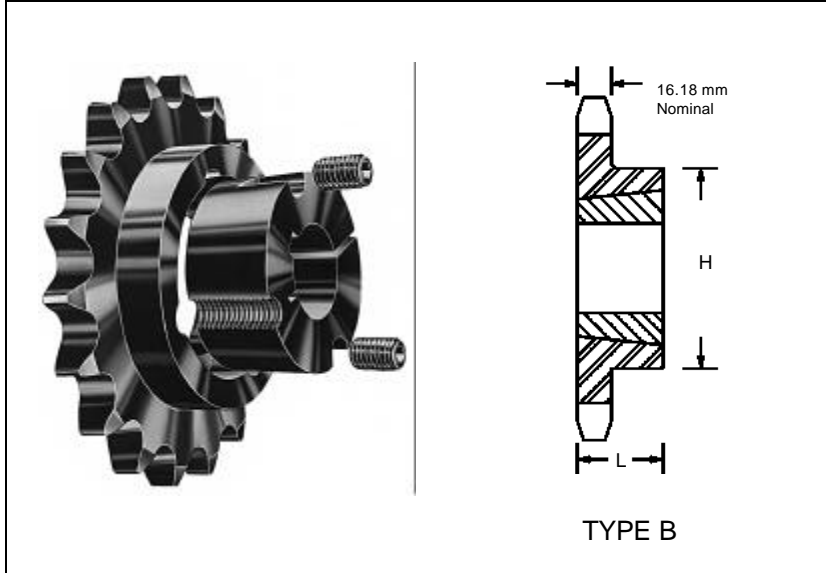
•Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

Simplex-Type A — Steel

1.00 INCH (25,40MM) PITCH **SIMPLEX**

ISO **16B-1**



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. MM	Dimension		Weight	
	MM				L MM	H MM	Rim Kilos	Bushing Kilos
10	82,19	16BTB10	1215	31,8	38,1	62,7	0,34	0,30
11	90,14	16BTB11	1215	31,8	38,1	62,7	0,57	0,30
12	98,14	16BTB12	1615	41,3	38,1	76,2	0,81	0,43
13	106,12	16BTB13	1615	41,3	38,1	73,0	1,03	0,43
14	114,15	16BTB14	1615	41,3	38,1	78,0	1,26	0,43
15	122,17	16BTB15	1615	41,3	38,1	76,0	1,40	0,43
16	130,20	16BTB16	2012	50,8	31,8	90,0	1,42	0,59
17	138,22	16BTB17	2012	50,8	31,8	90,0	1,60	0,59
18	146,28	16BTB18	2517	63,5	31,8	108,0	2,09	1,30
19	154,33	16BTB19	2517	63,5	44,5	108,0	2,30	1,30
20	162,38	16BTB20	2517	63,5	44,5	108,0	2,56	1,30
21	170,43	16BTB21	2517	63,5	44,5	108,0	2,80	1,30
22	178,48	16BTB22	2517	63,5	44,5	108,0	3,36	1,30
23	186,53	16BTB23	2517	63,5	44,5	108,0	3,34	1,30
24	194,59	16BTB24	2517	63,5	44,5	108,0	3,66	1,30
25	202,66	16BTB25	2517	63,5	44,5	108,0	3,96	1,30
26	210,72	16BTB26	2517	63,5	44,5	108,0	4,26	1,30
27	218,79	16BTB27	2517	63,5	44,5	108,0	4,63	1,30
28	226,85	16BTB28	2517	63,5	44,5	108,0	4,97	1,30
29	234,92	16BTB29	3020	76,2	50,8	146,0	6,24	2,24
30	243,00	16BTB30	3020	76,2	50,8	146,0	6,67	2,24
32	259,13	16BTB32	3020	76,2	50,8	146,0	8,37	2,24
35	283,36	16BTB35	3020	76,2	50,8	146,0	10,92	2,24
36	291,44	16BTB36	3020	76,2	50,8	146,0	11,77	2,24
38•	307,59	16BTB38	3020	76,2	50,8	159,0	9,49	2,24
40	323,75	16BTB40	3020	76,2	50,8	146,0	15,17	2,24
45•	364,13	16BTB45	3020	76,2	50,8	159,0	11,70	2,24
48	388,36	16BTB48*	3020	76,2	50,8	146,0	18,91	2,24
54	436,85	16BTB54*	3020	76,2	50,8	146,0	21,72	2,24
57•	461,07	16BTB57	3020	76,2	50,8	159,0	15,00	2,24
60	485,32	16BTB60*	3020	76,2	50,8	146,0	24,52	2,24
64	517,65	16BTB64*	3020	76,2	50,8	146,0	26,39	2,24
70	566,14	16BTB70*	3020	76,2	50,8	146,0	29,20	2,24
76•	614,65	16BTB76	3020	76,2	50,8	159,0	23,00	2,24
80	646,96	16BTB80*	3020	76,2	50,8	146,0	33,87	2,24
84	679,30	16BTB84*	3020	76,2	50,8	146,0	35,74	2,24
95	768,22	16BTB95	3020	76,2	50,8	146,0	40,88	2,24
114	921,81	16BTB114*	3020	76,2	50,8	146,0	49,77	2,24

*Check for current availability.

•Available in Cast or Steel.

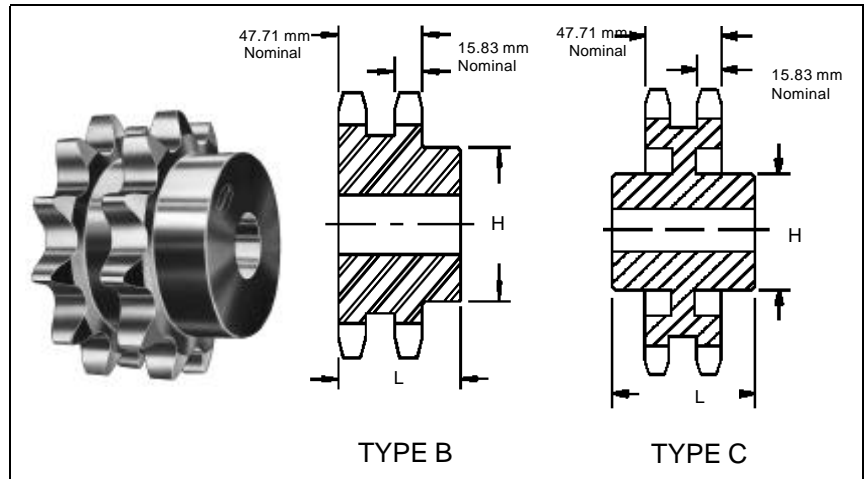
Cast will be shipped unless otherwise specified.

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. MM		Min. MM	Max. MM	H MM	L MM	
11	90,14	D16B11	20	42	63	70	1,86
12	98,14	D16B12	20	45	72	70	2,54
13	106,12	D16B13	20	48	80	70	3,22
14	114,15	D16B14	20	53	88	70	3,90
15	122,17	D16B15	20	58	96	70	4,58
16	130,20	D16B16	20	66	104	70	5,35
17	138,22	D16B17	20	70	112	70	6,12
18	146,28	D16B18	20	80	120	70	7,02
19	154,33	D16B19	20	70	128	70	7,91
20	162,38	D16B20	20	85	130	70	8,59
21	170,43	D16B21	25	75	130	70	9,26
22	178,48	D16B22	25	85	130	70	10,05
23	186,53	D16B23	25	75	130	70	10,84
24	194,59	D16B24	25	85	130	70	11,70
25	202,66	D16B25	25	75	130	70	12,56
26	210,72	D16B26	25	85	130	70	13,52
27	218,79	D16B27	25	75	130	70	14,48
28	226,85	D16B28	25	85	130	70	15,49
29	234,92	D16B29	25	85	130	70	16,51
30	243,00	D16B30	25	75	130	70	17,52
32	259,13	D16B32	32	95	145	75	20,13
35	283,36	D16B35	32	95	145	75	24,04
36	291,44	D16B36	32	95	145	80	25,34
38	307,59	D16B38	39	75	140	70	27,95
42	339,90	D16B42*	40	95	145	80	32,35
45●	364,13	D16C45	40	85	140	75	22,00
57●	461,07	D16C57	40	85	148	75	34,50
60	485,32	D16C60*	40	95	145	95	52,14
68	549,98	D16C68*	40	96	152	102	60,93
76●	614,65	D16C76	40	100	160	90	51,50
80	646,96	D16C80*	40	102	152	108	74,13
95	768,22	D16C95	40	100	175	95	90,62
114	921,81	D16C114*	40	102	152	108	111,51

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.

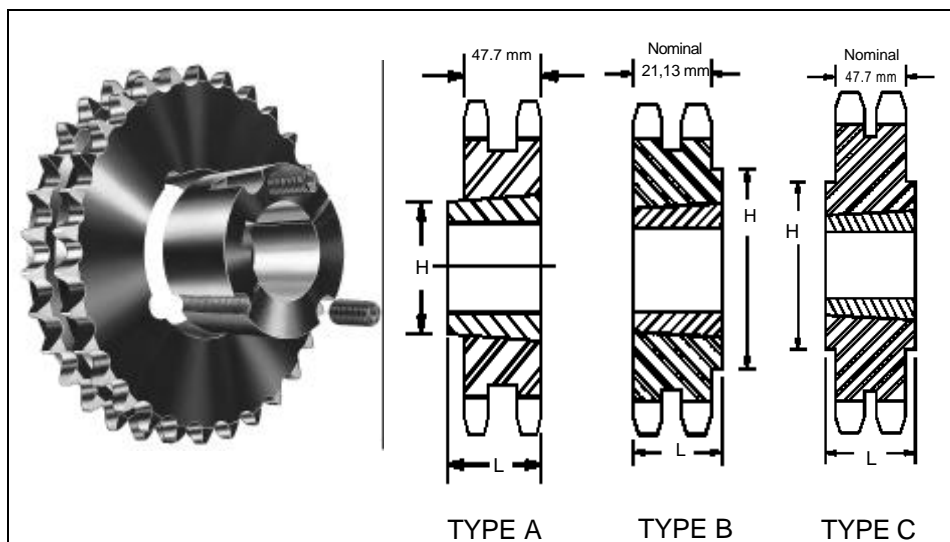
*Check for current availability.

●Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

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	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight	
	MM				L MM	H MM	Rim Kilos	Bushing Kilos
13	106,12	D16ATB13*	2012	50,8	31,8	—	0,51	0,59
14	114,15	D16ATB14*	2012	50,8	31,8	—	1,01	0,59
15	122,17	D16ATB15	2012	50,8	31,8	—	2,12	0,59
16	130,20	D16ATB16	2517	63,5	44,5	—	2,01	1,30
17	138,22	D16ATB17	2517	63,5	44,5	—	2,51	1,30
18	146,28	D16ATB18	2517	63,5	44,5	—	3,13	1,30
19	154,33	D16ATB19	2517	63,5	44,5	—	3,76	1,30
20	162,38	D16BTB20	2517	63,5	44,5	133,4	4,43	1,30
21	170,43	D16BTB21	3020	76,2	50,8	143,0	4,13	2,24
22	178,48	D16BTB22	3020	76,2	50,8	150,0	4,95	2,24
23	186,53	D16BTB23	3020	76,2	50,8	159,0	5,80	2,24
24	194,59	D16BTB24	3020	76,2	50,8	166,0	6,68	2,24
25	202,66	D16BTB25	3020	76,2	50,8	175,0	7,65	2,24
26	210,72	D16BTB26	3020	76,2	50,8	175,0	8,50	2,24
27	218,79	D16BTB27	3020	76,2	50,8	175,0	9,47	2,24
28	226,85	D16BTB28	3020	76,2	50,8	175,0	10,46	2,24
29	234,92	D16BTB29	3020	76,2	50,8	175,0	11,48	2,24
30	243,00	D16BTB30	3030	76,2	50,8	175,0	12,50	3,04
35	283,36	D16CTB35*	3030	76,2	50,8	175,0	16,36	3,04
38•	307,59	D16CTB38	3030	76,2	50,8	152,0	13,48	3,04
42	339,90	D16CTB42*	3030	76,2	50,8	133,4	22,52	2,24
45•	364,13	D16CTB45	3030	76,2	76,2	152,0	18,30	3,04
57•	461,07	D16CTB57	3535	88,9	63,5	178,0	27,00	3,56
76•	614,65	D16CTB76	3535	88,9	63,5	178,0	43,50	3,56
95•	768,22	D16CTB95	4040	101,6	101,6	216,0	67,00	5,54
114	921,81	D16CTB114*	4040	101,6	101,6	152,0	85,88	5,54

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.

*Check for current availability.

•Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

ISO 16B-3

1.00 INCH (25,40MM) PITCH TRIPLEX

CHAIN DATA:

BS 228/15

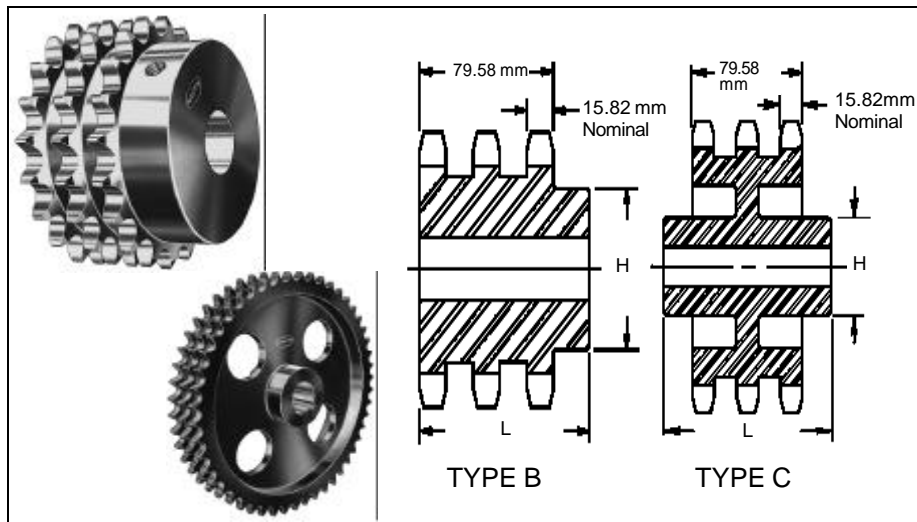
ISO 16B-3

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 MM	Max. MM	H MM	L MM	
10	90,14	E16B10	25	42	63	100	1,85
11	90,14	E16B11	25	42	63	100	3,59
12	98,14	E16B12	25	45	72	100	3,59
13	106,12	E16B13	25	52	80	100	4,13
14	114,15	E16B14	25	58	88	100	4,68
15	122,17	E16B15	25	62	96	100	5,54
16	130,20	E16B16	30	66	104	100	6,81
17	138,22	E16B17	30	74	112	100	8,07
18	146,28	E16B18	30	80	120	100	9,99
19	154,33	E16B19	30	84	128	100	10,89
20	162,38	E16B20	30	85	130	100	11,80
21	170,43	E16B21	30	85	130	100	13,61
22	178,48	E16B22	30	85	130	100	14,07
23	186,53	E16B23	30	85	130	100	14,97
24	194,59	E16B24	30	85	130	100	16,34
25	202,66	E16B25	30	85	130	100	17,70
26	210,72	E16B26	30	85	130	100	19,98
27	218,79	E16B27	30	85	130	100	21,57
28	226,85	E16B28	30	85	130	100	23,15
29	234,92	E16B29	30	85	130	100	24,74
30	243,00	E16B30	32	95	140	105	26,33
35	283,36	E16B35	32	95	140	105	36,06
36	291,44	E16B36*	32	95	140	105	38,06
38	307,59	E16C38*	32	97	152	114	38,22
42	339,89	E16C42*	40	97	152	114	38,51
45	364,13	E16C45	40	97	152	114	41,77
57	461,07	E16C57	40	107	159	120	54,80
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	74,52
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 at angle to keyseat.

*Check for current availability.

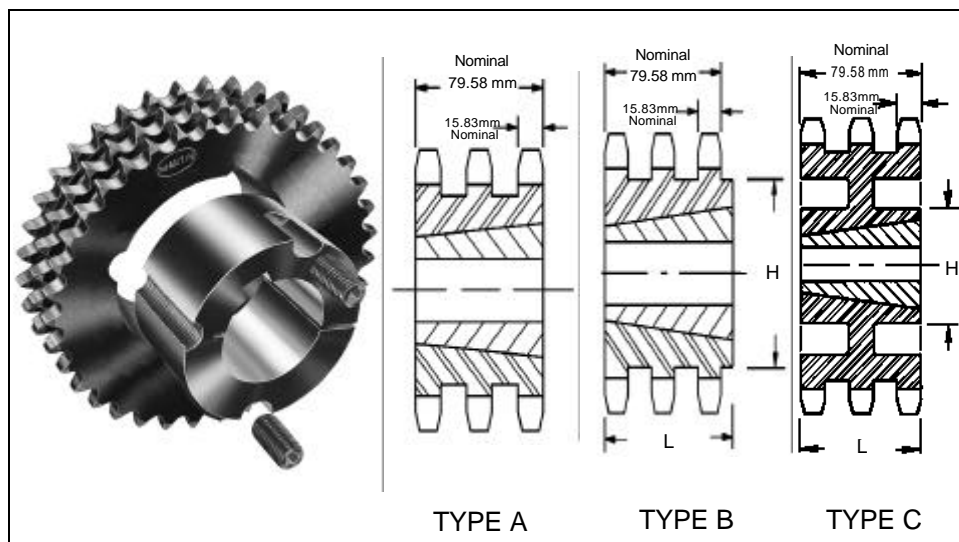
•These sizes are constructed from cast iron.

Metric Sprockets

Martin

1,000 INCH (25,40MM) PITCH **TRIPLEX**

ISO **16B-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: 191,250 Newtons.

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

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Hub		Weight (Approx.) Kilos
					H MM	L MM	
17	138,22	E16ATB17*	2517	65	—	44,5	4,20
19	154,33	E16BTB19*	3030	75	—	76,2	4,30
21	170,43	E16BTB21*	3030	75	—	76,2	6,60
23	186,53	E16BTB23	3535	100	—	65,0	7,00
25	202,66	E16BTB25	3535	100	—	65,0	9,80
27	218,79	E16BTB27*	3535	100	—	65,0	12,80
30	243,00	E16BTB30*	3535	100	—	65,0	18,00
38•	307,59	E16BTB38CI	3535	100	178	89,0	21,50
45•	364,13	E16CTB45CI*	4040	115	216	102,0	33,50
57•	461,07	E16CTB57CI	4040	115	216	102,0	39,50
76•	614,65	E16CTB76CI	4040	115	216	102,0	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 at angle to keyseat.

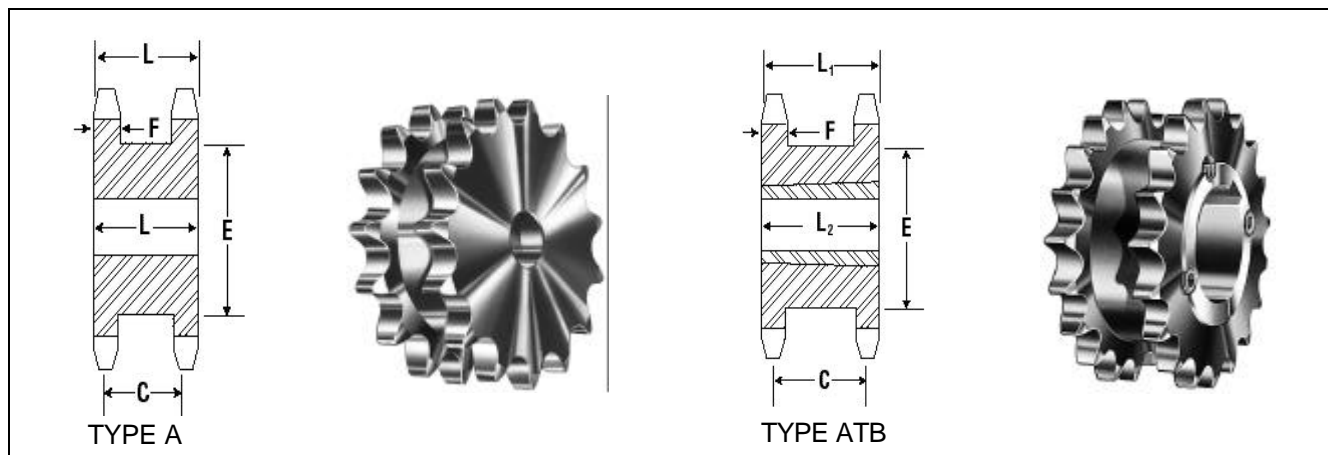
*Check for current availability.

•Available in Cast or Steel.

Cast will be shipped unless otherwise specified.

ISO **20B-1**

1,25 INCH (31,75MM) PITCH **Double Single**



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	132,66	A	25	63,50	68,3	49,8	96,0	18,5	5,09
14	DS20A14	158,24	142,67	A	25	69,85	68,3	49,8	106,0	18,5	6,14
15	DS20A15	168,40	152,70	A	32	77,79	68,3	49,8	116,0	18,5	7,64
16	DS20A16	178,56	162,74	A	32	82,55	68,3	49,8	114,0	18,5	8,77
17	DS20A17	188,98	172,80	A	32	92,08	68,3	49,8	124,0	18,5	9,77
18	DS20A18	199,14	182,83	A	32	95,25	68,3	49,8	134,0	18,5	10,45
19	DS20A19	209,30	192,91	A	32	106,36	68,3	49,8	157,0	18,5	11,36
20	DS20A20	219,46	202,97	A	32	106,36	68,3	49,8	167,0	18,5	12,05
21	DS20A21	229,62	213,03	A	32	133,35	68,3	49,8	177,0	18,5	13,18

Double Single - Taper Bushed - Steel

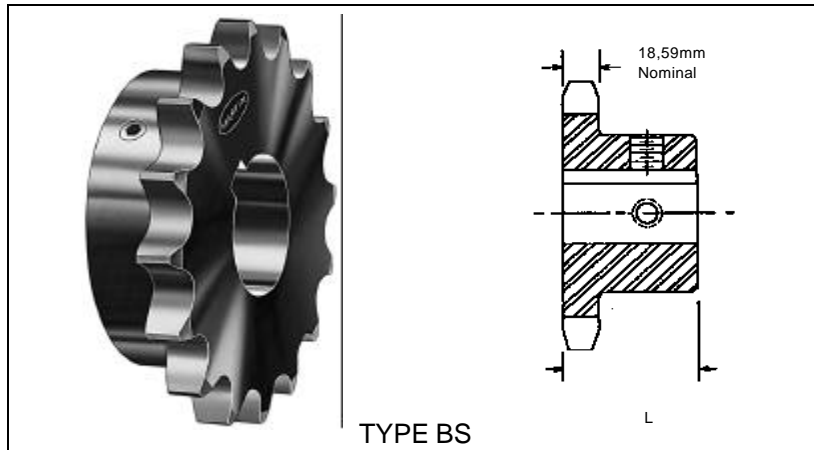
No. Teeth	Catalog Number	Bushing Size	Diameters		Min. Bore	Max. Bore	Type	L ₁	Dimensions				Wt. Rim Only
			Outside Diameter	Pitch Diameter					C	E	L ₂	F (Norm.)	
15	DS20ATB15H	2517	167,90	152,72	16	60	ATB	68,3	49,8	115,0	44,5	18,5	4,20
16	DS20ATB16H	2517	177,90	162,75	16	60	ATB	68,3	49,8	127,0	44,5	18,5	5,91
17	DS20ATB17H	3020	172,80	172,78	25	75	ATB	68,3	49,8	137,0	50,8	18,5	6,36
18	DS20ATB18H	3020	182,83	182,85	25	75	ATB	68,3	49,8	147,0	50,8	18,5	7,27
19	DS20ATB19H	3020	192,91	192,91	25	75	ATB	68,3	49,8	157,0	50,8	18,5	9,09
20	DS20ATB20H	3020	218,10	202,98	25	75	ATB	68,3	49,8	167,0	50,8	18,5	10,85
21	DS20ATB21H	3020	228,28	213,03	25	75	ATB	68,3	49,8	177,0	50,8	18,5	12,50

Metric Sprockets

Martin

1,25 INCH (31,75MM) PITCH **Bored-to-Size**

ISO **20B-1**



CHAIN DATA:

BS 228/17

ISO20B-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 (mm)	Pitch Diam.	Length Thru Bore	Appox. Wt. (Kilos)	Stock Finished Bores (mm) Includes Keyway and Setscrew						
9	20BS11	92,84	40	1,36	25	30	32	35	38		
10	20BS12	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

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos	Catalog Number	Bore Stock MM	Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM				
8	82,97	20B8	25	57	48	48	1,04	20A8*	25	0,63
9	92,83	20B9	25	57	58	48	1,45	20A9*	25	0,95
10	102,75	20B10	25	60	69	48	1,86	20A10*	25	1,27
11	112,70	20B11	25	70	79	48	2,40	20A11*	25	1,59
12	122,67	20B12	25	76	90	48	2,95	20A12*	25	1,91
13	132,67	20B13	25	76	98	41	3,00	20A13*	25	2,18
14	142,68	20B14	25	76	106	41	3,40	20A14*	25	2,49
15	152,71	20B15	25	76	114	44	4,31	20A15*	25	2,68
16	162,75	20B16	25	76	114	44	4,63	20A16*	24	3,08
17	172,79	20B17	32	76	114	44	4,99	20A17*	24	3,54
18	182,84	20B18	32	76	114	44	5,44	20A18*	30	3,81
19	192,90	20B19	32	76	114	51	5,90	20A19*	30	4,31
20	202,96	20B20	32	76	114	51	6,35	20A20*	30	4,58
21	213,03	20B21	32	76	114	51	7,03	20A21*	32	5,17
22	223,10	20B22	32	76	114	51	7,71	20A22*	32	5,72
23	233,17	20B23	32	84	114	51	8,16	20A23*	32	5,99
24	243,25	20B24	32	84	114	51	8,62	20A24*	32	6,62
25	253,32	20B25	32	84	114	51	9,07	20A25*	32	6,94
26	263,41	20B26	32	84	127	51	9,53	20A26*	32	7,62
27	273,49	20B27	32	84	127	51	10,43	20A27*	32	8,35
28	283,57	20B28	32	84	127	51	11,34	20A28*	32	8,85
29	293,66	20B29	32	84	127	51	11,76	20A29*	32	9,43
30	303,75	20B30	32	84	127	51	12,02	20A30*	32	9,98
31	313,83	20B31	32	84	127	51	12,77	20A31*	32	10,73
32	323,92	20B32	32	84	127	51	13,52	20A32*	32	11,49
33	334,01	20B33	32	84	127	51	14,59	20A33*	32	12,24
34	344,10	20B34*	32	84	127	51	15,66	20A34*	32	13,00
35	354,20	20B35*	32	84	127	64	16,74	20A35*	32	13,75
36	364,29	20B36*	32	84	127	64	17,51	20A36*	32	14,50
37	374,38	20B37*	32	84	127	64	18,17	20A37*	32	15,25
38	384,48	20B38*	32	84	125	70	18,82	20A38*	32	16,01
39	394,57	20B39*	32	84	127	64	19,78	20A39*	32	16,76
40	404,67	20B40*	32	84	127	64	21,27	20A40*	32	17,52
41	414,77	20B41*	32	84	127	64	22,07	20A41*	32	18,27
42	424,88	20B42*	32	84	127	64	22,86	20A42*	32	19,03
43	434,96	20B43*	32	84	127	64	23,40	20A43*	32	19,78
44	445,06	20B44*	32	84	127	64	23,95	20A44*	32	20,53
45	455,15	20B45*	32	84	125	70	24,49	20A45*	32	21,29
46	465,25	20B46*	32	84	127	64	26,31	20A46*	32	22,04
47	475,35	20B47*	32	84	127	64	28,12	20A47*	32	22,79
48	485,45	20B48*	40	102	152	64	29,94	20A48*	32	23,55
49	495,55	20B49*	40	102	152	64	31,76	20A49*	32	24,30
50	505,65	20B50*	40	102	152	64	33,57	20A50*	32	25,06
51	515,75	20B51*	40	102	152	64	35,39	20A51*	40	24,43
52	525,85	20B52*	40	102	152	64	37,21	20A52*	40	25,85
53	535,95	20B53*	40	102	152	64	39,02	20A53*	40	27,27
54	546,05	20C54*	40	102	152	82	32,90	20A54*	40	25,70
55	556,15	20C55*	40	102	152	82	34,77	20A55*	40	30,12
56	566,25	20C56*	40	102	152	82	36,63	20A56*	40	31,34
57	576,35	20C57*	40	102	135	80	38,50	20A57*	40	32,96
58	586,45	20C58*	40	102	152	82	40,37	20A58*	40	35,80
59	596,56	20C59*	40	102	152	82	42,24	20A59*	40	37,22
60	606,66	20C60*	40	102	152	82	44,10	20A60*	40	38,64
70	707,68	20C70*	40	133	178	95	65,36	20A70*	40	52,85
72	727,89	20C72*	40	133	178	95	67,23	20A72*	40	55,70
76	768,30	20C76*	40	133	140	90	70,98	20A76*	40	61,38
80	808,71	20C80*	40	133	178	95	74,70	20A80*	40	67,06
84	849,13	20C84*	40	133	178	95	78,43	20A84*	40	72,75
90	909,76	20C90*	40	133	178	95	84,03	20A90*	40	81,27
95	960,28	20C95*	40	133	178	114	117,18	20A95*	40	102,42
96	970,38	20C96*	40	133	178	114	117,56	20A96*	40	103,84
114	1152,27	20C114*	40	133	178	114	124,40	20A114*	40	130,84

Simplex-Type A — Steel

CHAIN DATA:

BS 228/17

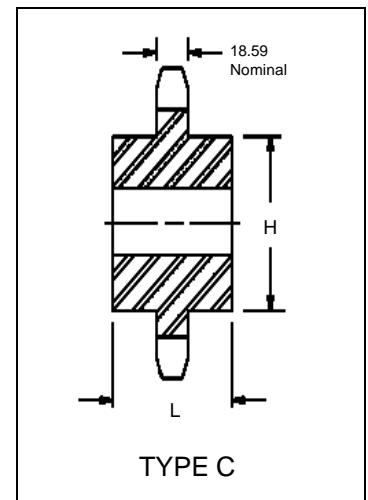
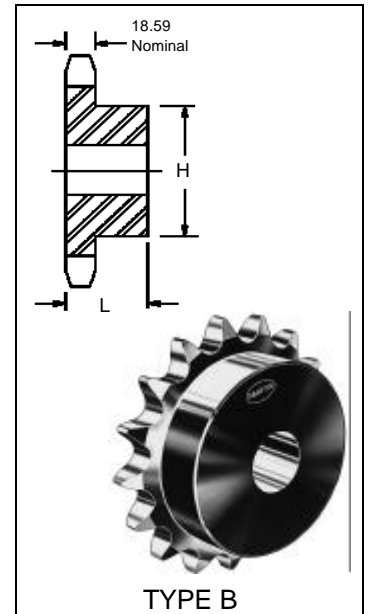
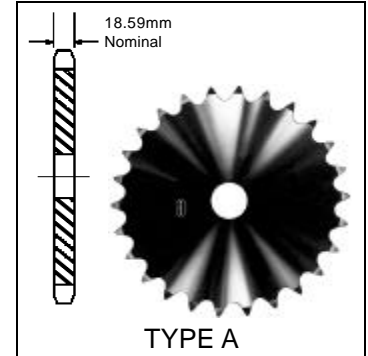
ISO 20B-1

PITCH: 31.75mm (1.250 in.)

ROLLER DIAMETER: 19.05mm (0.750 in.)

ROLLER WIDTH: 19.56mm (0.770 in.)

TENSILE: 98,070 Newtons.

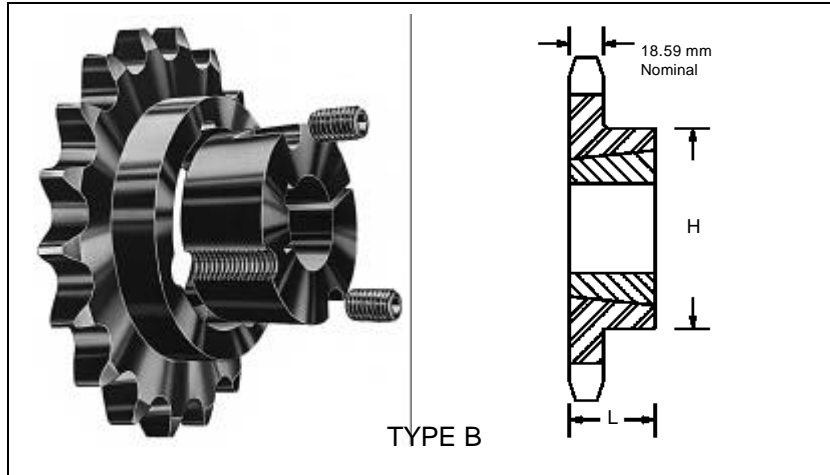


Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

*Check for current availability.

1.25 INCH (31,75MM) PITCH **SIMPLEX**

ISO 20B-1



CHAIN DATA:

BS 228/17

ISO 20B1

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

No. Teeth	Pitch Diameter MM	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight	
					L MM	H MM	Rim Kilos	Bushing Kilos
11	112,70	20BTB11*	1615	41,3	38,1	62,7	1,22	0,43
12	122,67	20BTB12*	1615	41,3	38,1	70,6	1,41	0,43
13	132,67	20BTB13*	2012	50,8	31,8	90,5	1,45	0,59
14	142,68	20BTB14*	2012	50,8	31,8	90,5	1,63	0,59
15	152,71	20BTB15*	2517	63,5	44,5	108,0	2,31	1,30
16	162,75	20BTB16*	2517	63,5	44,5	108,0	2,72	1,30
17	172,79	20BTB17*	2517	63,5	44,5	108,0	3,27	1,30
18	182,84	20BTB18*	2517	63,5	44,5	108,0	3,63	1,30
19	192,90	20BTB19*	2517	63,5	44,5	108,0	4,09	1,30
20	202,96	20BTB20*	2517	63,5	44,5	108,0	4,40	1,30
21	213,03	20BTB21*	2517	63,5	44,5	108,0	4,54	1,30
22	223,10	20BTB22*	2517	63,5	44,5	108,0	4,77	1,30
23	233,17	20BTB23*	2517	63,5	44,5	108,0	5,58	1,30
24	243,25	20BTB24*	2517	63,5	44,5	108,0	6,13	1,30
25	253,32	20BTB25*	2517	63,5	44,5	108,0	6,95	1,30
26	263,41	20BTB26*	2517	63,5	44,5	108,0	7,35	1,30
27	283,57	20BTB27*	3020	76,2	50,8	135,0	7,90	2,24
30	303,75	20BTB30*	3020	76,2	50,8	135,0	9,62	2,24
32	323,92	20BTB32*	3020	76,2	50,8	135,0	11,03	2,24
35	354,20	20BTB35*	3020	76,2	50,8	135,0	13,15	2,24
36	364,29	20BTB36*	3020	76,2	50,8	135,0	13,86	2,24
38	384,48	20BTB38*	3020	76,2	50,8	135,0	15,98	2,24
40	404,67	20BTB40*	3020	76,2	50,8	135,0	19,43	2,24
45	455,15	20BTB45*	3020	76,2	50,8	135,0	25,18	2,24
48	485,45	20BTB48*	3020	76,2	50,8	135,0	28,62	2,24
54	546,05	20BTB54*	3020	76,2	50,8	135,0	35,52	2,24
57	576,35	20BTB57*	3020	76,2	50,8	135,0	37,82	2,24
60	606,66	20BTB60*	3020	76,2	50,8	135,0	41,27	2,24
70	707,68	20CTB70*	3535	88,9	88,9	172,0	51,56	5,18
72	727,89	20CTB72*	3535	88,9	88,9	172,0	53,97	5,18
76	768,30	20CTB76*	3535	88,9	88,9	172,0	60,33	5,18
80	808,71	20CTB80*	3535	88,9	88,9	172,0	66,23	5,18
84	849,13	20CTB84*	3535	88,9	88,9	172,0	73,48	5,18
90	909,76	20CTB90*	3535	88,9	88,9	172,0	94,33	5,18
95	960,28	20CTB95*	3535	88,9	88,9	172,0	96,16	5,18

*Check for current availability.

ISO 20B-2

1.25 INCH (31,75MM) PITCH **DUPLEX**

CHAIN DATA:

BS 228/17

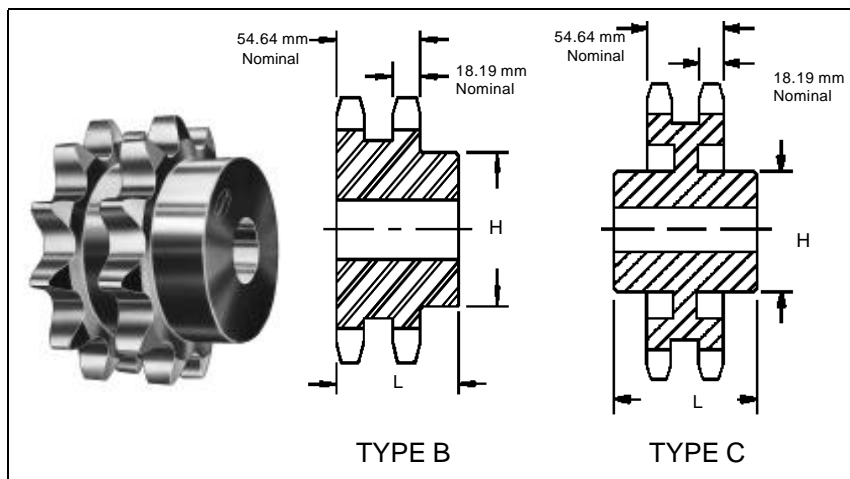
ISO 20B-2

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 MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock MM	Max. MM	Dia. MM	Thru MM	
10	102,75	D20B10	20	45	69	75	2,90
11	112,70	D20B11	20	52	79	80	3,67
12	122,67	D20B12	20	60	90	80	4,31
13	132,67	D20B13	20	64	100	80	5,53
14	142,68	D20B14	20	73	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	92	140	80	16,55
22	223,10	D20B22	25	92	140	80	17,70
23	233,17	D20B23	25	92	140	80	19,05
24	243,25	D20B24	32	96	145	80	20,43
25	253,32	D20B25	32	96	145	80	21,77
26	263,41	D20B26	32	96	145	80	23,15
27	273,49	D20B27	32	96	145	80	24,97
28	283,57	D20B28	32	96	145	80	26,78
30	303,75	D20B30	32	96	145	80	30,41
32	323,92	D20B32*	32	96	145	80	32,22
35	354,20	D20C35*	32	100	152	108	34,02
36	364,29	D20C36*	32	100	152	108	34,70
38	384,48	D20C38*	32	100	140	90	43,72
42	424,86	D20C42*	40	100	152	114	43,55
45	455,15	D20C45*	40	100	140	90	46,72
57	576,35	D20C57*	40	100	160	100	64,10
60	606,66	D20C60*	40	125	191	127	79,38
68	687,48	D20C68*	40	125	191	127	87,74
76	768,30	D20C76*	40	125	180	100	96,11
80	808,71	D20C80*	40	125	191	127	100,30
95	960,28	D20C95*	40	125	191	127	115,98
114	1152,26	D20C114*	40	125	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 at angle to keyseat.

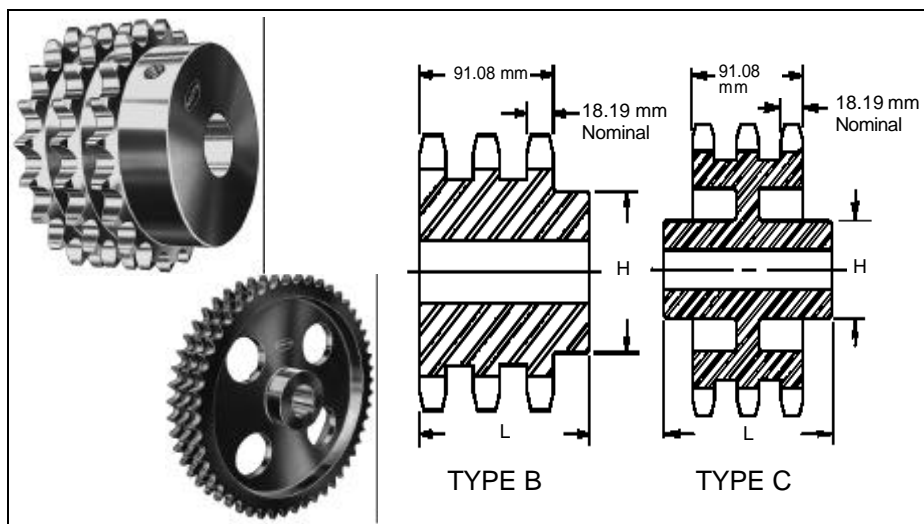
*Check for current availability.

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.

Triples-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	102,75	E20B10	25	47	69	110	3,95
11	112,70	E20B11	25	52	79	115	5,26
12	122,67	E20B12	25	60	90	115	6,21
13	132,67	E20B13	25	64	100	115	9,26
14	142,68	E20B14	25	73	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	202,96	E20B20	25	80	120	115	21,57
21	213,03	E20B21	25	92	140	115	23,36
22	223,10	E20B22	25	92	140	115	25,65
23	233,17	E20B23	25	92	140	115	27,90
24	243,25	E20B24	32	95	145	120	27,19
25	253,32	E20B25	32	95	145	120	27,90
26	263,41	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	97	152	127	57,29
36	364,29	E20C36*	32	97	152	127	59,35
38	384,48	E20C38*	40	97	152	127	62,56
42	424,86	E20C42*	40	97	152	127	70,12
45	455,15	E20C45*	40	97	152	127	75,84
57	576,35	E20C57*	40	102	191	127	100,11
60	606,66	E20C60*	40	102	191	127	104,86
68	687,48	E20C68*	40	102	191	127	117,54
76	768,30	E20C76*	40	102	191	127	130,21
80	808,71	E20C80*	40	102	191	127	136,55
95	960,28	E20C95*	40	102	191	127	160,31
114	1152,27	E20C114*	40	102	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 at angle to keyseat.

*Check for current availability.

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.

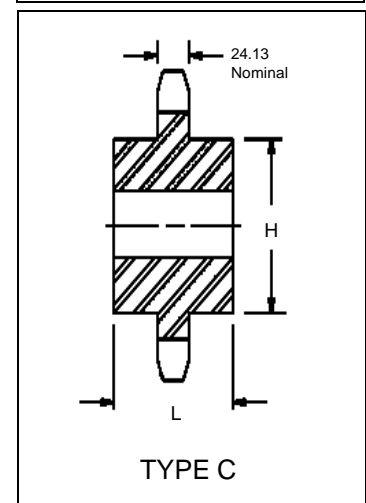
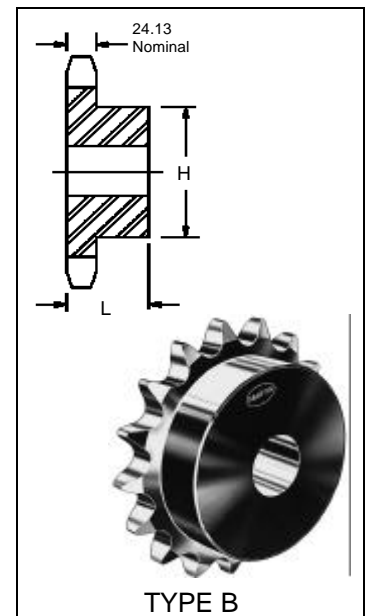
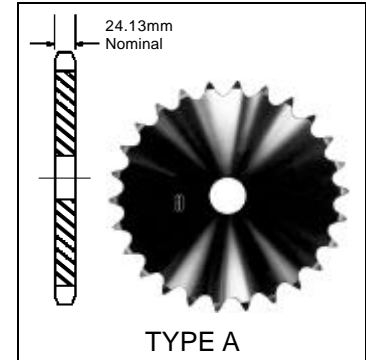
Simplex-Type B/C — Steel

Simplex-Type A — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos	Catalog Number	Bore Stock MM	Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM				
9	111,40	24B9	20	45	69	45	2,02	24A9*	20	1,69
10	123,29	24B10	20	52	80	45	2,61	24A10*	20	1,88
11	135,23	24B11	25	60	90	50	3,77	24A11*	20	2,06
12	147,21	24B12	25	67	102	50	4,77	24A12*	20	2,68
13	159,20	24B13	25	76	114	50	5,91	24A13*	20	3,06
14	171,22	24B14	32	86	127	60	6,68	24A14*	32	3,72
15	183,25	24B15	32	92	140	60	7,49	24A15*	32	4,31
16	195,29	24B16	32	92	140	60	9,08	24A16*	32	4,86
17	207,35	24B17	32	92	140	60	9,76	24A17*	32	5,44
18	219,41	24B18	32	92	140	60	10,49	24A18*	32	6,13
19	231,48	24B19	32	92	140	60	11,21	24A19*	32	7,03
20	243,55	24B20	32	92	140	60	12,26	24A20*	32	7,94
21	255,63	24B21	32	92	140	60	13,38	24A21*	32	8,62
22	267,72	24B22	32	92	140	60	13,67	24A22*	32	9,76
23	179,80	24B23	32	92	140	60	14,74	24A23*	32	10,43
24	291,90	24B24	32	92	140	60	15,48	24A24*	32	11,35
25	303,99	24B25	32	92	140	60	16,38	24A25*	32	12,47
26	316,09	24B26	40	102	150	65	19,43	24A26*	40	13,39
27	328,19	24B27	40	102	150	65	20,39	24A27*	40	14,53
28	340,29	24B28*	40	102	150	65	21,34	24A28*	40	15,89
29	352,39	24B29*	40	102	150	65	22,79	24A29*	40	17,02
30	364,49	24B30*	40	102	150	65	24,25	24A30*	40	18,39
31	376,60	24B31*	40	102	150	65	26,19	24A31*	40	20,02
32	388,71	24B32*	40	102	150	65	28,12	24A32*	40	21,66
33	400,82	24B33*	40	102	150	65	30,05	24A33*	40	23,29
34	412,93	24B34*	40	102	150	65	31,99	24A34*	40	24,93
35	425,04	24B35*	40	102	150	65	33,93	24A35*	40	26,56
36	437,15	24B36*	40	102	152	65	35,86	24A36*	40	28,19
38	461,37	24B38*	40	102	140	90	39,73	24A38*	40	31,46
40	485,6	24B40*	40	102	152	65	42,52	24A40*	40	36,23
42	509,83	24C42*	40	102	152	95	45,31	24A42*	40	40,99
45	546,19	24C45*	40	102	140	90	50,71	24A45*	40	48,14
48	482,54	24C48*	40	102	152	102	57,43	24A48*	40	55,29
50	606,78	24C50*	40	102	152	102	61,57	24A50*	40	60,05
54	655,26	24C54*	40	102	160	102	69,84	24A54*	40	69,58
57	691,62	24C57*	40	133	160	100	76,05	24A57*	40	76,73
60	727,99	24C60*	40	133	178	102	80,05	24A60*	40	85,19
68	824,97	24C70*	40	133	178	102	93,39	24A68*	40	107,74
72	873,43	24C72*	40	133	178	102	111,51	24A72*	40	119,02
76	921,96	24C76*	40	133	191	102	129,62	24A76*	40	130,30
95	921,96	24C95*	40	133	191	102	215,67	24A95*	40	183,88
96	921,96	24C96*	40	133	191	102	220,20	24A96*	40	186,70
114	921,96	24C114*	40	133	191	102	301,71	24A114*	40	237,46

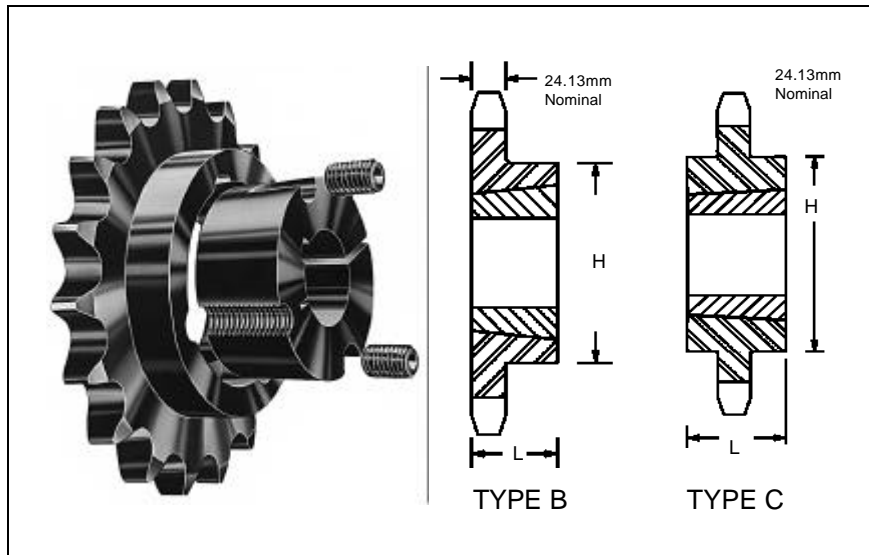
Maximum bores shown will accommodate standard keyseat and setscrew over keyseat. Slightly larger bores are possible with no keyseat, shallow keyseat, or setscrew at angle to keyseat.

*Check for current availability.



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. MM	Dimension		Weight	
	MM				L MM	H MM	Rim Kilos	Bushing Kilos
11	135,23	24BTB11*	2012	50,8	31,8	90,5	2,28	0,59
12	147,21	24BTB12*	2012	50,8	31,8	90,5	2,49	0,59
13	159,20	24BTB13*	2517	63,5	44,5	107,9	2,77	1,30
14	171,22	24BTB14*	2517	63,5	44,5	107,9	3,54	1,30
15	183,25	24BTB15*	2517	63,5	44,5	107,9	4,31	1,30
16	195,29	24BTB16*	3020	76,2	50,8	133,4	4,77	2,24
17	207,35	24BTB17*	3020	76,2	50,8	133,4	5,45	2,24
18	219,41	24BTB18*	3020	76,2	50,8	133,4	6,13	2,24
19	231,48	24BTB19*	3020	76,2	50,8	133,4	6,81	2,24
20	243,55	24BTB20*	3020	76,2	50,8	133,4	7,49	2,24
21	255,63	24BTB21*	3020	76,2	50,8	133,4	7,94	2,24
22	267,72	24BTB22*	3020	76,2	50,8	133,4	8,75	2,24
23	279,80	24BTB23*	3020	76,2	50,8	133,4	9,53	2,24
24	291,90	24BTB24*	3020	76,2	50,8	133,4	10,67	2,24
25	303,99	24BTB25*	3020	76,2	50,8	133,4	11,80	2,24
26	316,09	24BTB26*	3020	76,2	50,8	133,4	12,93	2,24
27	328,19	24BTB27*	3020	76,2	50,8	133,4	13,50	2,24
28	340,29	24BTB28*	3020	76,2	50,8	133,4	14,70	2,24
29	352,29	24BTB29*	3020	76,2	50,8	133,4	14,75	2,24
30	364,49	24BTB30*	3020	76,2	50,8	133,4	15,20	2,24
32	388,71	24BTB32*	3020	76,2	50,8	133,4	15,76	2,24
38	461,37	24BTB38*	3030	76,2	76,2	139,7	24,97	3,04
40	485,60	24CTB40*	3030	76,2	76,2	139,7	28,46	3,04
42	509,83	24CTB42*	3030	76,2	76,2	139,7	31,95	3,04
45	546,19	24CTB45*	3030	76,2	76,2	139,7	37,19	3,04
48	582,54	24CTB48*	3030	76,2	76,2	139,7	42,43	3,04
50	606,78	24CTB50*	3030	76,2	76,2	139,7	45,92	3,04
54	655,26	24CTB54*	3535	88,9	88,9	165,1	63,32	5,18
57	691,62	24CTB57*	3535	88,9	88,9	165,1	71,46	5,18
60	727,99	24CTB60*	3535	88,9	88,9	165,1	79,60	5,18
68	824,97	24CTB68*	3535	88,9	88,9	165,1	101,31	5,18
72	873,46	24CTB72*	3535	88,9	88,9	165,1	112,17	5,18
76	921,96	24CTB76*	3535	88,9	88,9	165,1	123,02	5,18
95	1152,33	24CTB95*	4040	101,6	101,6	196,9	196,67	8,27
96	1164,46	24CTB96*	4040	101,6	101,6	196,9	201,03	8,27
114	1382,72	24CTB114*	4040	101,6	101,6	196,9	279,50	8,27

*Check for current availability.

ISO 24B-2

1.50 INCH (38,10mm) PITCH DUPLEX

CHAIN DATA:

BS 228/18

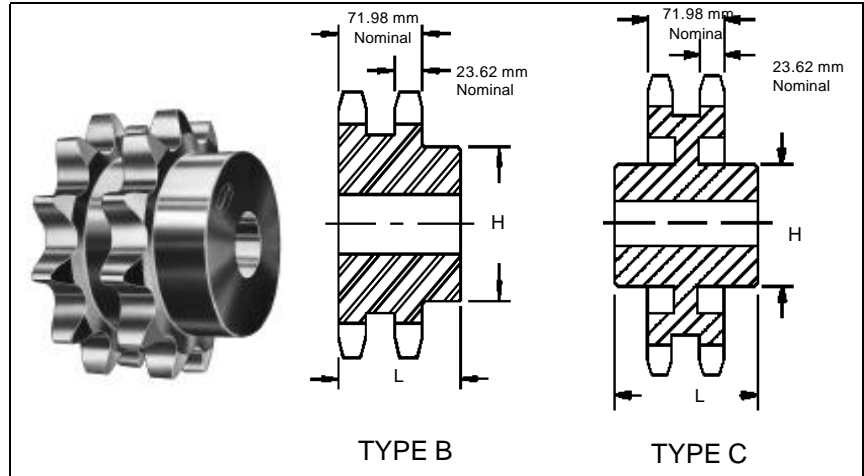
ISO 24B-2

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 MM	Max. MM	H MM	L MM	
11	135,23	D24B11*	32	60	90	100	6,50
12	147,21	D24B12*	32	67	102	100	8,13
13	159,20	D24B13*	32	76	114	100	9,92
14	171,22	D24B14*	32	84	128	100	11,98
15	183,25	D24B15*	32	93	140	100	14,13
16	195,29	D24B16*	32	100	150	100	16,35
17	207,35	D24B17*	40	100	150	100	17,85
18	219,41	D24B18*	40	108	160	100	20,35
19	231,48	D24B19*	40	108	160	100	22,56
20	243,55	D24B20*	40	108	160	100	24,78
21	255,63	D24B21*	40	108	160	100	26,99
22	267,72	D24B22*	40	108	160	102	29,74
23	279,80	D24B23*	40	108	160	102	32,87
24	291,90	D24B24*	40	108	160	102	36,00
25	303,99	D24B25*	40	108	160	102	39,13
26	316,09	D24B26*	40	108	160	102	42,26
27	328,19	D24B27*	40	108	160	102	45,40
28	340,29	D24B28*	40	108	160	102	48,53
29	352,39	D24B29*	40	108	160	102	51,66
30	364,49	D24B30*	40	108	160	102	54,79
32	388,71	D24B32*	40	108	160	102	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	200	110	140,74
60	727,99	D24C60*	40	161	238	159	154,02
68	824,97	D24C68*	40	161	238	159	189,45
72	873,46	D24C72*	40	161	238	159	207,16
76	921,96	D24C76*	40	161	220	120	224,87
95	1152,33	D24C95*	40	161	238	159	309,00
96	1164,46	D24C96*	40	161	238	159	313,43
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 at angle to keyseat.

*Check for current availability.

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.

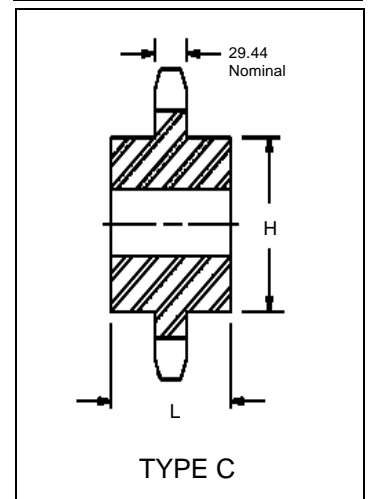
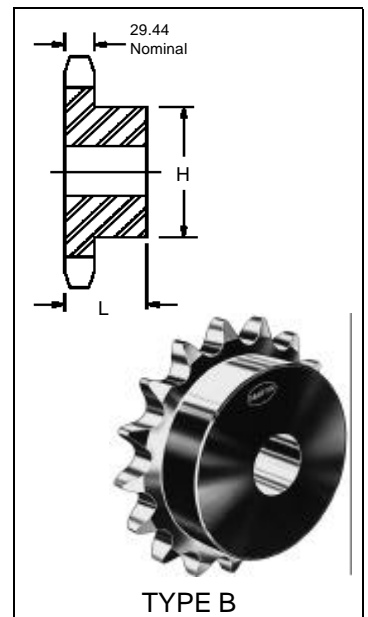
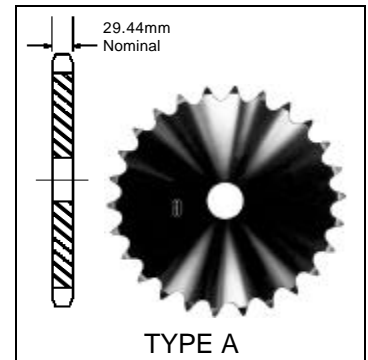
Simplex-Type B/C — Steel

No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos	Catalog Number	Bore Stock MM	Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM				
11	157,77	28B11*	40	73	112	70	5,27	28A11*	32	3,18
12	171,74	28B12*	40	84	125	70	6,40	28A12*	32	3,95
13	185,74	28B13*	40	93	140	70	8,22	28A13*	32	4,31
14	199,76	28B14*	40	93	140	60	9,13	28A14*	32	4,77
15	213,79	28B15*	40	108	160	60	11,40	28A15*	40	5,45
16	227,84	28B16*	40	108	160	64	12,76	28A16*	40	6,81
17	241,91	28B17*	40	108	160	64	13,65	28A17*	40	7,71
18	255,98	28B18*	40	108	160	64	13,65	28A18*	40	8,63
19	270,06	28B19*	40	108	160	64	15,01	28A19*	40	9,53
20	284,14	28B20*	40	108	160	64	16,84	28A20*	40	10,44
21	298,24	28B21*	40	108	160	64	18,19	28A21*	40	11,79
22	312,34	28B22*	40	108	160	64	19,11	28A22*	40	13,17
23	326,44	28B23*	40	108	160	64	20,46	28A23*	40	14,06
24	340,54	28B24*	40	108	160	64	21,84	28A24*	40	15,44
25	354,65	28B25*	40	108	160	64	22,73	28A25*	40	16,78
26	368,77	28B26*	40	108	160	64	26,83	28A26*	40	18,61
27	382,88	28B27*	40	108	160	64	27,74	28A27*	40	20,43
28	397,00	28B28*	40	108	160	64	30,29	28A28*	40	20,88
30	425,24	28B30*	40	108	160	64	32,73	28A30*	40	25,17
32	453,49	28B32*	40	134	180	76	34,84	28A32*	40	31,02
38	538,27	28B38*	40	134	178	102	51,25	28A38*	40	48,58
40	566,54	28C40*	40	134	178	102	52,84	28A40*	40	52,80
42	594,81	28C42*	40	134	178	102	54,43	28A42*	40	57,02
45	637,22	28C45*	40	134	178	102	60,55	28A45*	40	63,35
48	679,63	28C48*	40	134	178	102	62,72	28A48*	40	69,68
54	764,47	28C54*	40	134	178	127	74,60	28A54*	40	82,34
57	806,89	28C57*	40	134	178	127	81,77	28A57*	40	88,67
60	849,32	28C60*	40	134	178	127	88,94	28A60*	40	97,97
68	962,47	28C68*	40	137	191	127	108,05	28A68*	40	122,79
72	1019,04	28C72*	40	137	191	127	117,61	28A72*	40	135,19
76	1075,62	28C76*	40	137	191	127	127,17	28A76*	40	147,60
95	1344,39	28C95*	40	137	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 at angle to keyseat.

*Check for current availability.

Simplex-Type A — Steel



ISO 28B-1

1.75 INCH (44,45mm) PITCH **SIMPLEX**

CHAIN DATA:

BS 228/20

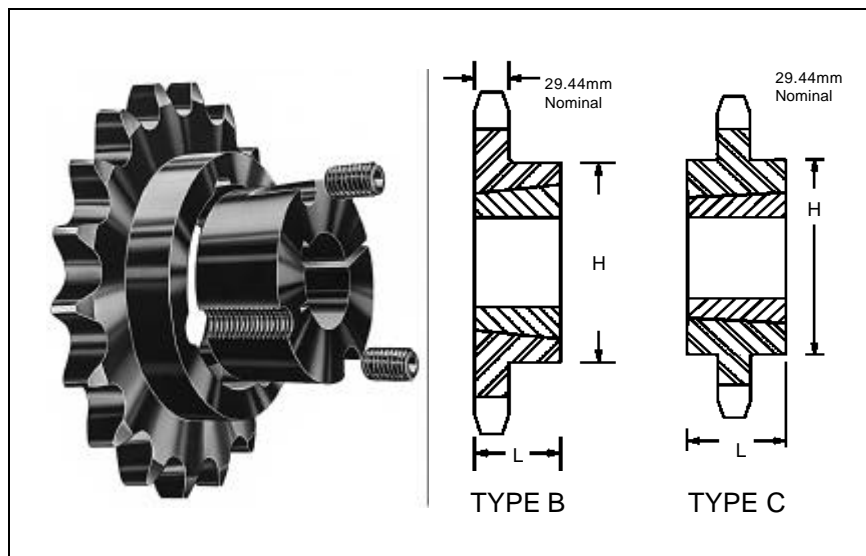
ISO 28B-1

PITCH: 44,45mm (1.75 in.)

ROLLER DIAMETER: 27,94mm (1.10 in.)

ROLLER WIDTH: 30,99mm (1.22 in.)

TENSILE: 200,000 Newtons.



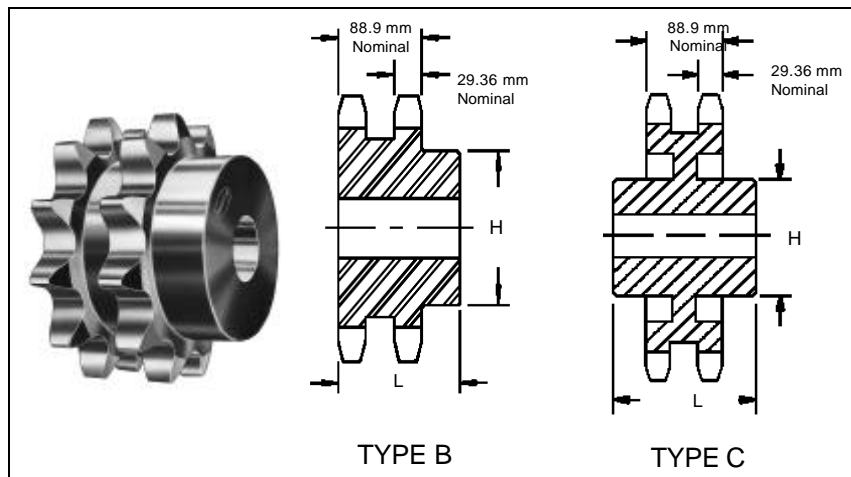
Simplex-Taper Bushed — Steel

No. Teeth	Pitch Diameter	Catalog Number	Bushing Number	Bore Max. MM	Dimension		Weight (Approx.)	
	MM				L MM	H MM	Rim Kilos	Bushing Kilos
11	157,77	28BTB11*	2517	63,5	44,5	107,9	3,53	1,30
12	171,74	28BTB12*	2517	63,5	44,5	107,9	3,86	1,30
13	185,75	28BTB13*	3020	76,2	50,8	133,4	5,90	2,24
14	199,76	28BTB14*	3020	76,2	50,8	133,4	7,04	2,24
15	213,79	28BTB15*	3020	76,2	50,8	133,4	8,17	2,24
16	227,84	28BTB16*	3020	76,2	50,8	133,4	9,76	2,24
17	241,91	28BTB17*	3020	76,2	50,8	133,4	11,35	2,24
18	255,98	28BTB18*	3020	76,2	50,8	133,4	12,49	2,24
19	270,06	28BTB19*	3020	76,2	50,8	133,4	13,62	2,24
20	284,15	28BTB20*	3020	76,2	50,8	133,4	14,3	2,24
21	298,24	28BTB21*	3020	76,2	50,8	133,4	14,98	2,24
22	312,34	28BTB22*	3020	76,2	50,8	133,4	16,91	2,24
23	326,44	28BTB23*	3020	76,2	50,8	133,4	18,84	2,24
24	340,55	28BTB24*	3020	76,2	50,8	133,4	20,77	2,24
25	354,66	28BTB25*	3020	76,2	50,8	133,4	22,70	2,24
26	368,77	28BTB26*	3020	76,2	50,8	133,4	24,63	2,24
27	382,88	28BTB27*	3020	76,2	50,8	133,4	26,56	2,24
28	397,00	28BTB28*	3020	76,2	50,8	133,4	28,49	2,24
30	425,24	28BTB30*	3020	76,2	50,8	133,4	32,35	2,24
32	453,49	28BTB32*	3020	76,2	50,8	133,4	36,21	2,24
38	538,27	28BTB38*	3535	88,9	88,9	165,1	45,40	3,56
40	566,54	28CTB40*	3535	88,9	88,9	165,1	47,79	3,56
42	594,82	28CTB42*	3535	88,9	88,9	165,1	50,18	3,56
45	637,22	28CTB45*	4040	101,6	101,6	219,1	57,35	8,27
48	679,63	28CTB48*	4040	101,6	101,6	219,1	61,17	8,27
54	764,46	28CTB54*	4040	101,6	101,6	219,1	68,82	8,27
57	806,90	28CTB57*	4040	101,6	101,6	219,1	72,64	8,27
60	849,32	28CTB60*	4040	101,6	101,6	219,1	76,44	8,27
68	962,46	28CTB68*	4040	101,6	101,6	219,1	86,63	8,27
72	1019,05	28CTB72*	4040	101,6	101,6	219,1	91,73	8,27
76	1075,62	28CTB76*	4040	101,6	101,6	219,1	96,83	8,27
95	1344,37	28CTB95*	4040	101,6	101,6	219,1	121,03	8,27

*Check for current availability.

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 MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM	
11	157,77	D28B11*	40	73	112	120	10,21
12	171,74	D28B12*	40	84	125	120	13,02
13	185,75	D28B13*	40	84	130	120	16,00
14	199,76	D28B14*	40	87	135	120	19,28
15	213,79	D28B15*	40	96	145	120	22,91
16	227,84	D28B16*	40	108	160	120	26,92
17	241,91	D28B17*	40	114	178	120	30,83
18	255,98	D28B18*	40	114	178	120	34,74
19	270,06	D28B19*	40	133	178	120	38,93
20	284,15	D28B20*	40	133	178	120	44,27
21	298,24	D28B21*	40	133	178	120	45,08
22	312,34	D28B22*	40	133	178	120	48,15
23	326,44	D28B23*	40	133	178	120	51,59
24	340,55	D28B24*	40	133	178	120	55,03
25	354,66	D28B25*	40	133	178	120	58,47
26	368,77	D28B26*	40	133	178	120	64,06
28	397,00	D28B28*	40	133	178	120	76,05
30	425,24	D28B30*	40	133	178	120	89,16
32	453,49	D28B32*	40	133	178	120	103,38
38	538,27	D28B38*	40	133	191	159	97,53
40	566,54	D28C40*	40	137	191	159	109,47
45	637,22	D28C45*	40	137	191	159	137,32
48	679,63	D28C48*	40	137	191	159	153,61
54	764,46	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	1019,05	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 at angle to keyseat.

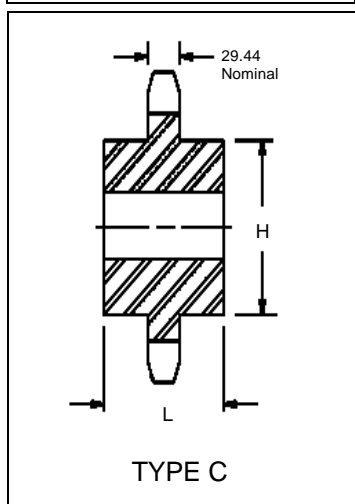
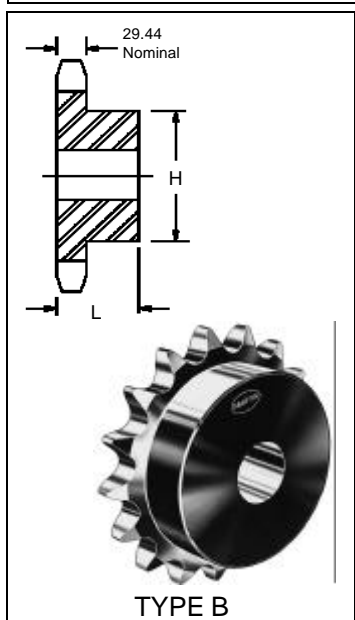
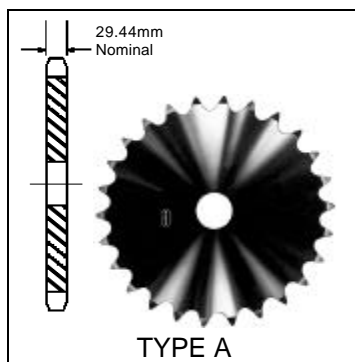
*Check for current availability.

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-Type B/C — Steel/Cast Steel

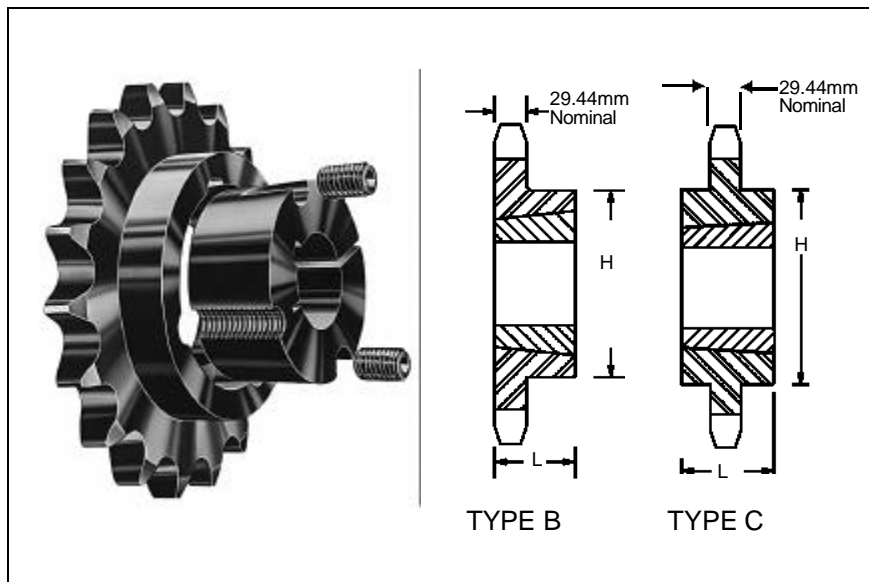
No. Teeth	Pitch Diameter MM	Catalog Number	Bore		Hub		Weight (Approx.) Kilos	Catalog Number	Bore Stock MM	Weight (Approx.) Kilos
			Stock MM	Max. MM	H MM	L MM				
11	180,31	32B11*	40	83	120	80	9,04	32A11*	32	5,00
12	196,28	32B12*	40	89	133	80	11,11	32A12*	32	6,02
13	212,27	32B13*	40	102	152	70	12,61	32A13*	32	7,12
14	228,29	32B14*	40	102	152	70	14,97	32A14*	32	8,32
15	244,33	32B15*	40	102	178	70	17,32	32A15*	40	9,50
16	260,39	32B16*	40	103	178	70	18,78	32A16*	40	11,64
17	276,46	32B17*	40	103	178	70	20,23	32A17*	40	12,35
18	292,55	32B18*	40	103	178	70	21,88	32A18*	40	13,96
19	308,64	32B19*	40	103	178	70	23,53	32A19*	40	15,57
20	324,74	32B20*	40	133	178	70	25,37	32A20*	40	17,36
21	340,84	32B21*	40	133	178	70	27,20	32A21*	40	19,15
22	356,96	32B22*	40	133	178	70	29,23	32A22*	40	21,13
23	373,07	32B23*	40	133	178	70	31,25	32A23*	40	23,10
24	389,19	32B24*	40	133	178	76	35,33	32A24*	40	25,26
25	405,32	32B25*	40	133	178	76	36,80	32A25*	40	27,41
26	421,45	32B26*	40	133	181	76	39,41	32A26*	40	30,25
27	437,58	32B27*	40	133	181	76	42,02	32A27*	40	33,10
28	453,72	32B28*	40	133	181	76	44,62	32A28*	40	35,94
30	485,99	32B30*	40	133	181	76	49,84	32A30*	40	41,63
32	518,28	32B32*	40	139	203	76	58,02	32A32*	40	47,31
38	615,17	32B38*	40	139	203	114	86,78	32A38*	40	64,37
40	647,47	32C40*	40	139	203	114	91,35	32A40*	40	72,98
42	679,78	32C42*	40	139	203	114	95,91	32A42*	40	81,60
45	728,25	32C45*	40	139	203	127	116,97	32A45*	40	94,52
48	776,72	32C48*	40	139	203	127	130,43	32A48*	40	107,44
54	873,68	32C54*	40	139	203	127	157,34	32A54*	40	133,29
57	922,16	32C57*	40	139	203	127	170,79	32A57*	40	146,21
60	970,65	32C60*	40	139	203	127	184,25	32A60*	40	164,35
68	1099,96	32C68*	40	139	203	127	220,13	32A68*	40	212,73
72	1164,62	32C72*	40	139	203	152	282,31	32A72*	40	236,91
76	1229,28	32C76*	40	139	203	152	297,99	32A76*	40	261,10

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.

*Check for current availability.

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. MM	Dimension		Weight (Approx.)	
	MM				H MM	L MM	Rim Kilos	Bushing Kilos
11	180,34	32BTB11*	2517	63,5	44,5	107,9	4,51	1,30
12	196,29	32BTB12*	3020	76,2	50,8	133,4	5,27	2,24
13	212,29	32BTB13*	3020	76,2	50,8	133,4	6,38	2,24
14	228,29	32BTB14*	3020	76,2	50,8	133,4	6,87	2,24
15	244,30	32BTB15*	3535	88,9	88,9	165,1	11,80	5,18
16	260,40	32BTB16*	3535	88,9	88,9	165,1	13,38	5,18
17	276,40	32BTB17*	3535	88,9	88,9	165,1	14,98	5,18
18	292,55	32BTB18*	3535	88,9	88,9	165,1	16,12	5,18
19	308,66	32BTB19*	3535	88,9	88,9	165,1	17,25	5,18
20	324,71	32BTB20*	3535	88,9	88,9	165,1	21,10	5,18
21	340,82	32BTB21*	3535	88,9	88,9	165,1	24,94	5,18
22	356,98	32BTB22*	3535	88,9	88,9	165,1	27,79	5,18
23	373,08	32BTB23*	3535	88,9	88,9	165,1	30,64	5,18
24	389,18	32BTB24*	3535	88,9	88,9	165,1	33,48	5,18
25	405,33	32BTB25*	3535	88,9	88,9	165,1	36,32	5,18
26	421,44	32BTB26*	3535	88,9	88,9	165,1	39,16	5,18
27	437,59	32BTB27*	3535	88,9	88,9	165,1	42,00	5,18
28	453,69	32BTB28*	3535	88,9	88,9	165,1	44,84	5,18
30	486,00	32BTB30*	3535	88,9	88,9	165,1	50,52	5,18
32	518,26	32BTB32*	3535	88,9	88,9	165,1	56,20	5,18
38	615,14	32BTB38*	4040	101,6	101,6	219,1	68,10	8,27
40	647,49	32CTB40*	4040	101,6	101,6	219,1	77,08	8,27
45	728,26	32CTB45*	4040	101,6	101,6	219,1	99,53	8,27
48	776,72	32CTB48*	4040	101,6	101,6	219,1	113,01	8,27
54	873,68	32CTB54*	4040	101,6	114,3	219,1	139,95	8,27
57	922,17	32CTB57*	4545	114,3	114,3	247,7	136,20	9,99
60	970,63	32CTB60*	4545	114,3	114,3	247,7	158,84	9,99
64	1035,30	32CTB64*	4545	114,3	114,3	247,7	189,03	9,99
70	1132,29	32CTB70*	4545	114,3	114,3	247,7	234,32	9,99

*Check for current availability.

ISO 32B-2

2.00 INCH (50,80mm) PITCH **DUPLEX**

CHAIN DATA:

BS 228/22

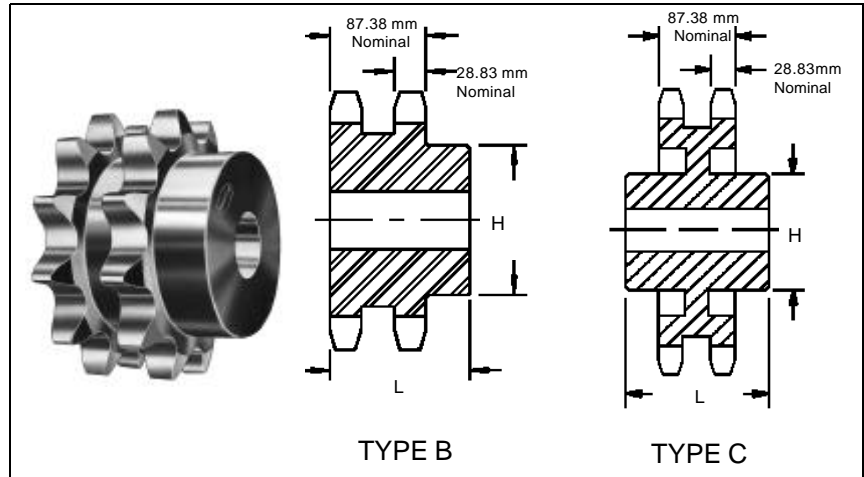
ISO 32B-2

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.) Kilos
	MM		Stock MM	Max. MM	H MM	L MM	
11	180,34	D32B11*	40	80	125	120	10,42
12	196,29	D32B12*	40	89	133	120	16,32
13	212,29	D32B13*	40	96	145	120	21,77
14	228,29	D32B14*	40	103	155	120	26,31
15	244,30	D32B15*	40	106	160	120	30,84
16	260,40	D32B16*	40	120	178	120	34,02
17	276,40	D32B17*	40	120	178	120	41,28
18	292,55	D32B18*	40	120	178	120	43,55
19	308,66	D32B19*	40	120	178	120	48,53
20	324,71	D32B20*	40	130	191	120	53,98
21	340,82	D32B21*	40	130	191	120	58,97
22	356,98	D32B22*	40	130	191	120	63,96
23	373,08	D32B23*	40	130	191	120	71,21
24	389,18	D32B24*	40	130	191	120	77,57
25	405,33	D32B25*	40	130	191	120	84,82
26	421,44	D32B26*	40	130	191	120	91,17
28	453,69	D32B28*	40	130	191	120	101,13
30	486,00	D32B30*	40	130	191	120	116,57
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 at angle to keyseat.

*Check for current availability.

SPROCKET ENGINEERING DATA

ROLLER CHAIN DIMENSIONS

SPROCKET TOOTH DIMENSIONS

MAXIMUM HUB RECOMMENDATIONS

APPLICATION AND SELECTION

HARDENING

CHAIN LENGTH CALCULATION

SPEED RATIOS

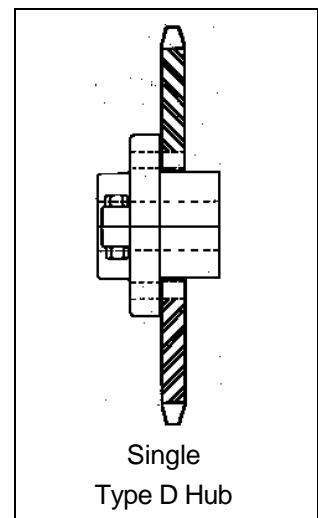
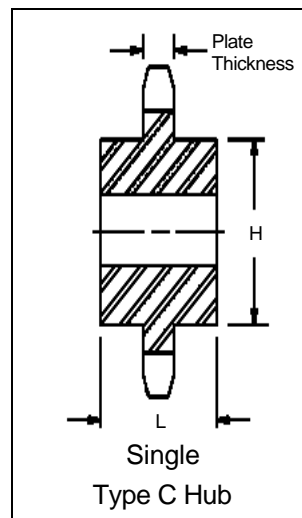
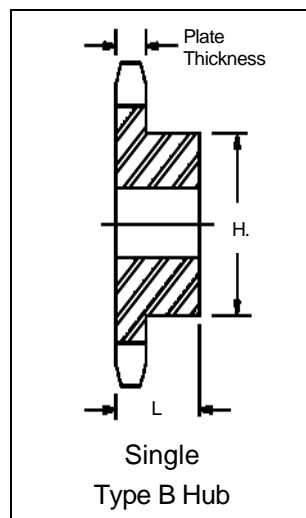
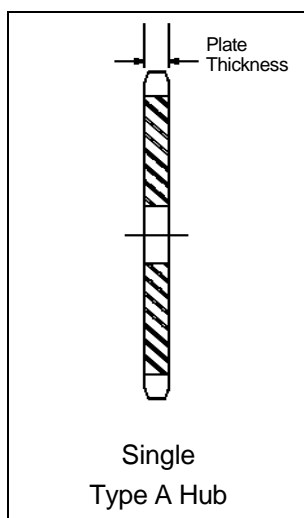
SPROCKET DIAMETERS

KILOWATT RATINGS

SPROCKETS

Sprocket manufacturers have adopted 4 specific types of sprocket construction styles as Standard Nomenclature. In addition to the standard sprockets, special sprockets may be available in the same styles.

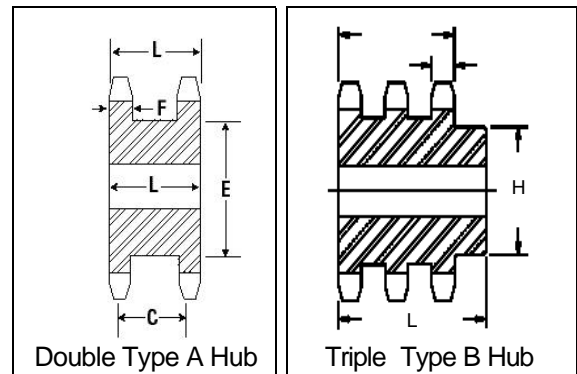
- Style A** - Flat sprocket platewheel with no hub extension either side.
- Style B** - Sprocket with hub extension one side.
- Style C** - Sprocket with hub extension both sides.
- Style D** - Sprocket with a detachable bolt on hub attached to a plate.



Multiple Strand Sprockets -

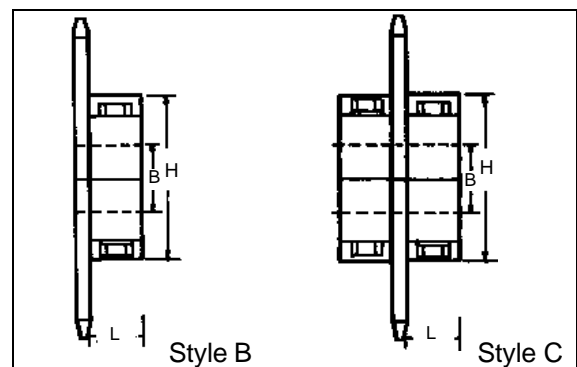
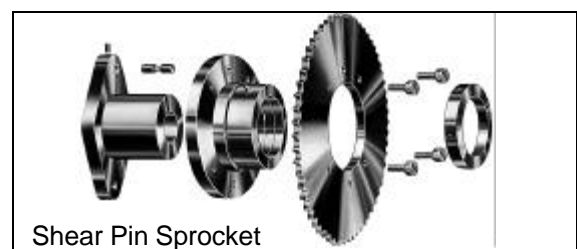
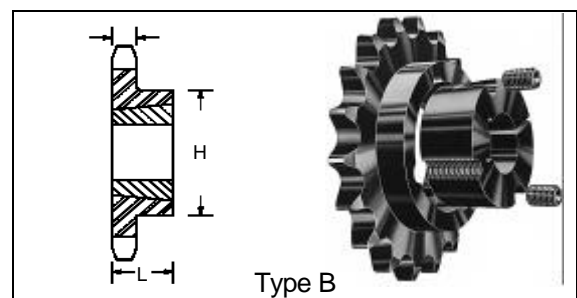
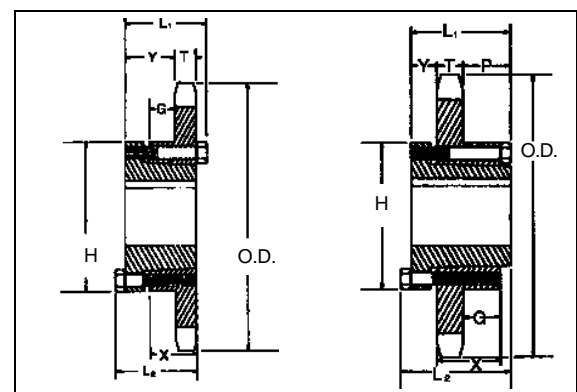
Listed using a letter prefix starting with the letter "D" for Double Strand, "E" for Triple Strand, and "F" for Quadruple, etc. They also have the same hub configuration letter designation listed on previous page.

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



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



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 heat 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.

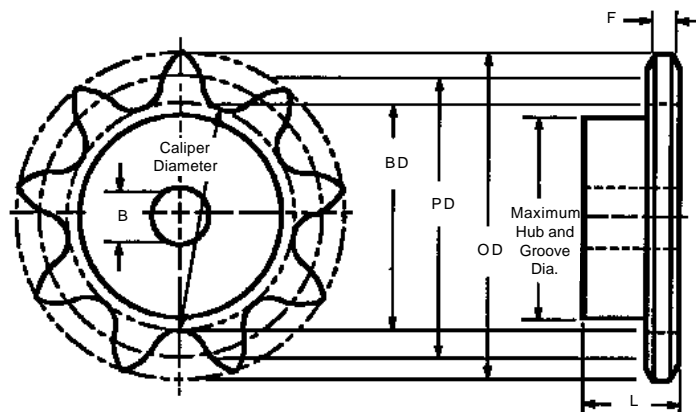
In some instances, the material a sprocket is to be manufactured from will be added into the part number as a suffix.

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

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 (Nn)
05B 05B-2 05B-3	8,00	5,00	3,00	7,11	8,6 14,2 19,9	440 780 1 110
06 06B-2 06B-3	9,525	6,35	5,72	8,26	13,5 23,8 34,0	890 1 690 2 490
08 08B-2 08B-3	12,70	8,51	7,75	11,81	17,0 31,0 44,9	1 780 3 110 4 450
08 A	12,70	7,95	7,85	12,07	17,8	1 380
10B 10B-2 10B-3	15,875	10,16	9,65	14,73	19,6 36,2 52,8	2 220 4 450 6 670
12 B 12B-2 12B-3	19,05	12,07	11,68	16,13	22,7 42,2 61,7	2 890 5 780 8 670
16B 16B-2 16B-3	25,40	15,88	17,02	21,08	36,1 68,0 99,9	4 230 8 450 12 680
20B 20B-2 20B-3	31,75	19,05	19,56	26,42	43,2 79,7 116,1	6 450 12 900 19 350
24B 24B-2 24B-3	38,10	25,40	25,40	33,40	53,4 101,8 150,2	9 790 19 570 29 360
28B 28B-2 28B-3	44,45	27,94	30,99	37,08	65,1 124,7 184,3	12 900 25 800 38 700
32B 32B-2 32B-3	50,80	29,21	30,99	42,29	67,4 126,0 184,5	16 900 33 810 50 710
40B 40B-2 40B-3	63,50	39,37	38,10	52,96	82,6 154,9 227,2	26 240 52 490 78 730
48B 48B-2 48B-3	76,20	48,26	45,72	63,88	99,1 190,4 281,6	40 030 80 070 172 000
56B-1 56B-2	88,90	53,98	53,34	77,8	114,6 221,2	246 000
64B-1 64B-2	101,60	63,50	60,96	90,1	130,9 250,8	325 000
72B-1	114,30	72,39	68,58	103,6	147,4	399 000

Standard Keyway Dimensions (Metric)

Shaft Diameter		Key	Keyway Width	Keyway Depth
Over	Up to and Incl.			
6	8	2 x 2	2	1
8	10	3 x 3	3	1,4
10	12	4 x 4	4	1,8
12	17	5 x 5	5	2,3
17	22	6 x 2	6	2,8
22	30	8 x 7	8	3,3
30	38	10 x 8	10	3,3
38	44	12 x 8	12	3,3
44	50	14 x 9	14	3,8
50	58	16 x 10	16	4,3
58	65	18 x 11	18	4,4
65	75	20 x 12	20	4,9
78	85	22 x 14	22	5,4
85	95	25 x 14	25	5,4
95	110	28 x 16	28	6,4
110	130	32 x 18	32	7,4
130	150	36 x 20	36	8,4
150	170	40 x 22	40	9,4
170	200	45 x 25	45	10,4

Bore Tolerances (Metric)

Stock Metric Bores are machined to a minimum **H7** Tolerance.

Standard Keyway Dimensions (Imperial)

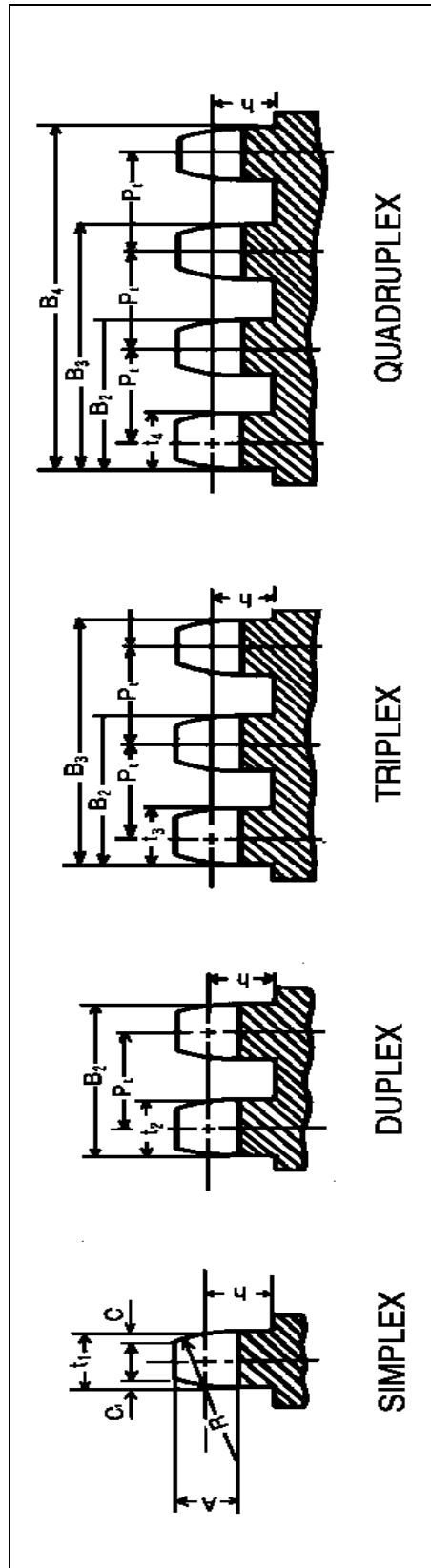
Shaft Diameter	Keyway	Width	Depth
$\frac{1}{2}$ - $\frac{9}{16}$	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{16}$
$\frac{9}{8}$ - $\frac{1}{8}$	$\frac{3}{16} \times \frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{32}$
$\frac{1}{4}$ - $1\frac{1}{4}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{8}$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

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



Chain Data For All Sprockets			H	Chamfer Height	Single Strand T_{HR}	Double and Triple Strand			t_4	B_2	B_3	B_4	P_t	Tolerance on t_1 and T_{HR} 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	—	—	—	—	5,6	0,2
05	8	3,0	5	5,3	4	2,8	2,7	8,3	2,6	8,2	13,8	19,4	35,6	10,2	0,2
06	9,525	5,72	6,35	6,2	4,8	5,3	5,2	15,4	5,0	15,2	25,4	35,6	48,5	13,9	0,2
08	12,70	7,75	8,51	8,4	6,4	7,2	7,0	21,0	6,8	20,7	34,6	48,5	58,8	16,6	0,3
10	15,875	9,65	10,16	10,2	7,9	9,1	9,0	25,6	9,0	25,6	42,2	58,8	69,4	19,5	0,3
12	19,05	11,53	12,07	11,2	9,5	11,1	10,8	30,4	10,9	30,4	49,9	69,4	88,4	23,8	0,3
16	25,40	17,02	15,88	14,6	12,7	16,2	15,8	47,7	15,8	47,7	79,6	111,5	127,5	31,9	0,3
20	31,75	19,56	19,05	18,0	15,9	18,5	18,2	54,6	18,2	54,6	91,0	127,5	166,7	36,5	0,4
24	38,10	25,40	25,40	22,4	19,1	24,1	23,6	72,0	23,6	72,0	120,3	166,7	207,6	48,4	0,4
28	44,45	30,99	27,94	24,9	22,2	29,4	28,8	88,4	28,8	88,4	146,0	207,6	252,3	59,6	0,4
32	50,80	36,38	29,21	28,2	25,4	34,1	33,6	107,7	33,6	107,7	180,0	252,3	316,1	72,3	0,5
40	63,50	45,72	38,10	34,9	31,8	43,3	42,5	133,7	42,5	133,7	224,9	316,1	369,4	91,2	0,5
48	76,20	53,34	48,26	41,8	38,1	50,7	49,6	156,2	49,6	156,2	262,8	369,4	416,4	106,6	0,6
56	88,90	60,96	53,98	50,2	44,5	57,9	56,7	176,6	56,7	176,6	296,5	416,4	472,7	119,9	0,6
64	101,60	68,58	63,50	57,8	50,8	65,2	63,8	200,1	63,8	200,1	336,4	472,7	516,8	136,3	0,6
72	114,30	68,58	72,39	66,0	57,2	65,2	63,8	200,1	63,8	200,1	336,4	472,7	516,8	136,3	0,6

† = 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 x 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	9	3 x 1.4	M4	11.0	8
7	1300	8.5	4	17	7290	34.6	14	27	8655	60.3	23	11	4 x 1.8	M4	12.0	8
8	2080	11.2	6	18	7590	37.2	14	28	8650	62.8	23	12 - 14	5 x 2.3	M5	15.0	10
9	2860	13.8	6	19	7840	39.8	14	29	8625	65.4	23	16 - 22	6 x 2.8	M6	18.0	12
10	3610	16.5	8	20	8050	42.4	14	30	8580	68.0	23	22 - 30	8 x 3.3	M8	23.0	16
11	4310	19.1	8	21	8230	44.9	19	31	8540	70.5	23	32 - 35	10 x 3.3	M10	27.0	20
12	4960	21.7	8	22	8370	47.5	19	32	8465	73.1	23	38 - 44	12 x 3.3	M12	31.0	24
13	5540	24.3	8	23	8480	50.1	19	35	8200	80.7	23					
14	6070	26.9	10	24	8560	52.6	19	40	7580	93.5	23					
15	6530	29.5	12	25	8610	55.2	19	45	6820	106.3	23					

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 x Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall	Steel Sprockets
															Setscrew over Key	Setscrew not over Key
6	290	7.1	4	16	3630	38.5	20	26	4525	69.1	40	11	4 x 1.8	M4	12.0	8
7	680	10.4	5	17	3810	41.6	23	27	4530	72.1	40	12 - 14	5 x 2.3	M5	15.0	1
8	1090	13.6	6	18	3970	44.7	26	28	4525	75.2	40	16 - 22	6 x 2.8	M6	18.0	12
9	1495	16.8	8	19	4100	47.7	28	29	4510	78.2	40	22 - 30	8 x 3.3	M8	23.0	16
10	1885	20.0	8	20	4210	50.8	28	30	4490	81.3	40	32 - 35	10 x 3.3	M10	27.0	20
11	2260	23.1	8	21	4300	53.8	30	31	4470	84.3	43	38 - 44	12 x 3.3	M12	31.0	24
12	2590	26.2	10	22	4380	56.9	35	32	4430	87.4	43	44 - 50	14 x 3.8	M14	36.0	28
13	2900	29.3	12	23	4430	59.9	35	35	4290	96.5	43	50 - 58	16 x 4.3	M16	41.0	32
14	3170	32.4	15	24	4480	63.0	35	40	3970	111.7	48					
15	3420	35.5	18	25	4510	66.0	40	45	3570	126.9	48					

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 x Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall	Steel Sprockets
															Setscrew over Key	Setscrew not over Key
6	130	9.0	6	16	1630	50.8	30	26	2040	91.6	46	16 - 22	6 x 2.8	M6	18.0	12
7	305	13.3	8	17	1720	54.9	30	27	2040	95.6	46	22 - 30	8 x 3.3	M8	23.0	16
8	495	17.6	10	18	1790	60.0	35	28	2040	99.7	46	32 - 35	10 x 3.3	M10	27.0	20
9	675	21.9	10	19	1850	63.1	40	29	2040	103.7	46	38 - 44	12 x 3.3	M12	31.0	24
10	850	26.0	11	20	1890	67.1	40	30	2020	107.8	46	44 - 50	14 x 3.8	M14	36.0	28
11	1020	30.2	13	21	1940	71.2	40	31	2020	111.8	46	50 - 58	16 x 4.3	M16	41.0	32
12	1170	34.4	17	22	1970	75.3	40	32	2000	115.9	46	58 - 65	18 x 4.4	M16	41.0	32
13	1310	38.5	20	23	2000	79.4	40	35	1930	128.1	46	65 - 75	20 x 4.9	M20	50.0	40
14	1430	42.6	24	24	2020	83.4	40	40	1780	148.3	50					
15	1540	46.7	28	25	2030	87.5	40	45	1600	168.6	50					

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 x 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	16 - 22	6 x 2.8	M6	18.0	12
7	510	16.9	10	17	2860	68.8	40	27	3405	119.7	55	22 - 30	8 x 3.3	M8	23.0	16
8	820	22.2	11	18	2980	74.0	50	28	3405	124.3	55	32 - 35	10 x 3.3	M10	27.0	20
9	1125	27.5	15	19	3080	79.1	50	29	3395	129.9	55	38 - 44	12 x 3.3	M12	31.0	24
10	1420	32.8	18	20	3160	84.2	50	30	3370	135.0	58	44 - 50	14 x 3.8	M14	36.0	28
11	1690	38.0	21	21	3230	89.2	50	31	3360	140.0	58	50 - 58	16 x 4.3	M16	41.0	32
12	1940	43.2	25	22	3290	94.3	50	32	3330	145.1	58	58 - 65	18 x 4.4	M16	41.0	32
13	2180	48.3	28	23	3330	99.4	50	35	3220	160.3	58	65 - 75	20 x 4.9	M20	50.0	40
14	2380	53.5	32	24	3360	104.5	50	40	2970	185.6	63					
15	2560	58.6	35	25	3380	109.6	50	45	2670	210.9	64					

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 x Depth	Diameter of Setscrew	Min. added to bore for adequate hub wall	Steel Sprockets
															Setscrew over Key	Setscrew not over Key
6	155	15.5	12	16	1960	78.2	48	26	2445	139.4	58	16 - 22	6 x 2.8	M6	18.0	12
7	370	22.0	15	17	2060	84.4	55	27	2450	145.4	58	22 - 30	8 x 3.3	M8	23.0	16
8	590	24.5	16	18	2150	90.5	55	28	2445	151.5	58	32 - 35	10 x 3.3	M10	27.0	20
9	810	34.8	20	19	2220	96.6	55	29	2440	157.6	60	38 - 44	12 x 3.3	M12	31.0	24
10	1020	41.1	23	20	2280	102.7	55	30	2430	163.7	60	44 - 50	14 x 3.8	M14	36.0	28
11	1220	47.3	28	21	2330	108.9	55	31	2415	169.8	64	50 - 58	16 x 4.3	M16	41.0	32
12	1400	53.6	32	22	2370	115.0	55	32	2395	175.9	64	58 - 65	18 x 4.4	M16	41.0	32
13	1570	59.8	36	23	2400	121.1	55	35	2320	194.1	64	65 - 75	20 x 4.9	M20	50.0	40
14	1720	65.9	40	24	2420	127.2	55	40	2140	224.5	70					
15	1850	72.1	44	25	2440	133.3	55	45	1930	254.9	70					

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	120	21.3	15	16	1480	105.0	64	26	1840	186.5	76	22 - 30	8 x 3.3	M8	23.0	16
7	275	30.1	21	17	1550	113.2	70	27	1845	194.6	76	32 - 35	10 x 3.3	M10	27.0	20
8	445	38.6	22	18	1610	121.4	70	28	1840	202.7	76	38 - 44	12 x 3.3	M12	31.0	24
9	610	47.1	28	19	1670	129.5	70	29	1835	210.9	76	44 - 50	14 x 3.8	M14	36.0	28
10	770	55.5	34	20	1720	137.7	70	30	1830	219.0	76	50 - 58	16 x 4.3	M16	41.0	32
11	920	63.8	38	21	1750	145.8	70	31	1815	227.1	76	58 - 65	18 x 4.4	M16	41.0	32
12	1050	72.1	44	22	1780	154.0	70	32	1800	235.2	76	65 - 75	20 x 4.9	M20	50.0	40
13	1180	80.4	48	23	1800	162.1	70	35	1740	259.5	76	75 - 85	22 x 5.4	M20	51.0	40
14	1290	88.6	53	24	1820	170.2	70	40	1610	300.1	76	85 - 95	25 x 5.4	M20	51.0	40
15	1390	96.8	58	25	1830	178.4	70	45	1450	340.6	80					



Maximum Hub Dimensions

Recommended Max. Hub and Bore Sizes

BRITISH STANDARD (Iso) NO. 20B

												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	
															SS over Key	Steel Sprockets SS not over Key
6	75	26.8	20	16	935	131.4	76	26	1165	233.2	84	22 - 30	8 x 3.3	M8	23.0	16
7	175	37.7	25	17	985	141.6	76	27	1170	243.4	84	32 - 35	10 x 3.3	M10	27.0	20
8	280	48.4	40	18	1020	151.8	76	28	1170	253.6	84	38 - 44	12 x 3.3	M12	31.0	24
9	385	59.0	43	19	1060	162.0	76	29	1165	263.7	84	44 - 50	14 x 3.8	M14	36.0	28
10	485	69.5	45	20	1090	172.2	76	30	1160	273.8	84	50 - 58	16 x 4.3	M16	41.0	32
11	580	79.9	52	21	1110	182.4	76	31	1155	284.0	84	58 - 65	18 x 4.4	M16	41.0	32
12	670	90.3	60	22	1130	192.6	76	32	1143	294.1	84	65 - 75	20 x 4.9	M20	50.0	40
13	750	100.6	64	23	1150	202.8	84	35	1110	324.5	84	75 - 85	22 x 5.4	M20	51.0	40
14	820	110.9	73	24	1160	212.9	84	40	1020	375.2	84	85 - 95	25 x 5.4	M20	51.0	40
15	880	121.1	76	25	1160	223.1	84	45	920	425.8	84					

BRITISH STANDARD (Iso) NO. 24B

												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	
															SS over Key	Steel Sprockets SS not over Key
6	55	30.5	20	16	670	156.0	92	26	830	278.3	102	32 - 35	10 x 3.3	M10	27.0	20
7	125	43.6	30	17	700	168.3	92	27	835	290.5	102	38 - 44	12 x 3.3	M12	31.0	24
8	200	56.5	42	18	730	180.6	92	28	830	302.7	102	44 - 50	14 x 3.8	M14	36.0	28
9	275	69.2	45	19	755	192.8	92	29	830	314.8	102	50 - 58	16 x 4.3	M16	41.0	32
10	350	81.8	52	20	775	205.1	92	30	825	317.0	102	58 - 65	18 x 4.4	M16	41.0	32
11	415	94.3	60	21	790	217.3	92	31	820	339.2	102	65 - 75	20 x 4.9	M20	50.0	40
12	475	106.7	67	22	805	229.5	92	32	815	351.3	102	75 - 85	22 x 5.4	M20	51.0	40
13	535	119.1	76	23	815	241.7	92	35	790	387.8	102	85 - 95	25 x 5.4	M20	51.0	40
14	585	131.4	86	24	825	253.9	92	40	730	448.6	102	95 - 110	28 x 6.4	M20	53.0	40
15	3630	143.8	92	25	830	266.1	92	45	655	509.4	102					

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	
															SS over Key	Steel Sprockets SS not over Key
6	40	37.7	20	16	520	184.1	108	26	650	326.8	108	38 - 44	12 x 3.3	M12	31.0	24
7	100	53.0	28	17	550	198.5	108	27	650	341.0	108	44 - 50	14 x 3.8	M14	36.0	28
8	155	68.0	40	18	570	212.8	108	28	650	355.2	108	50 - 58	16 x 4.3	M16	41.0	32
9	215	82.8	50	19	590	227.1	108	29	650	369.4	108	58 - 65	18 x 4.4	M16	41.0	32
10	270	97.5	60	20	605	241.3	108	30	645	383.6	108	65 - 75	20 x 5.4	M20	51.0	40
11	325	112.1	73	21	620	255.6	108	31	645	397.8	134	75 - 85	22 x 5.4	M20	51.0	40
12	375	126.6	84	22	630	269.8	108	32	640	412.0	134	85 - 95	25 x 5.4	M20	51.0	40
13	415	141.0	93	23	640	284.1	108	35	615	454.6	134	95 - 110	28 x 6.4	M20	53.0	40
14	455	155.4	93	24	645	298.3	108	40	570	525.5	134	115 - 130	32 x 7.4	M24	63.0	48
15	490	169.8	108	25	650	312.5	108	45	515	596.3	134					

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	
															SS over Key	Steel Sprockets SS not over Key
6	30	43.2	20	16	380	210.6	103	26	475	373.6	133	38 - 44	12 x 3.3	M12	31.0	24
7	70	60.7	30	17	400	227.0	103	27	475	389.9	133	44 - 50	14 x 3.8	M14	36.0	28
8	115	77.9	45	18	415	243.4	103	28	475	406.1	133	50 - 58	16 x 4.3	M16	41.0	32
9	150	94.8	60	19	430	259.7	103	29	475	422.4	133	58 - 65	18 x 4.4	M16	41.0	32
10	200	111.6	70	20	440	276.0	133	30	470	438.6	133	65 - 75	20 x 5.4	M20	51.0	40
11	235	128.3	83	21	450	292.3	133	31	470	454.8	139	75 - 85	22 x 5.4	M20	51.0	40
12	270	144.8	89	22	460	308.6	133	32	465	471.0	139	85 - 95	25 x 5.4	M20	51.0	40
13	305	161.4	102	23	465	324.9	133	35	450	519.7	139	95 - 110	28 x 6.4	M20	53.0	40
14	335	177.8	102	24	470	341.1	133	40	415	600.7	139	115 - 130	32 x 7.4	M24	63.0	48
15	360	194.3	102	25	475	357.4	133	45	375	681.7	139					

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	
															SS over Key	Steel Sprockets SS not over Key
6	25	54.1	22	16	325	263.4	152	26	405	467.1	278	44 - 50	14 x 3.8	M14	36.0	28
7	60	70.0	35	17	340	283.9	165	27	405	487.4	278	50 - 58	16 x 4.3	M16	41.0	32
8	100	97.5	44	18	355	304.3	173	28	405	507.7	278	58 - 65	18 x 4.4	M16	41.0	32
9	135	118.6	57	19	365	324.7	189	29	400	528.0	278	65 - 75	20 x 5.4	M20	51.0	40
10	170	139.6	70	20	375	345.1	192	30	400	548.3	278	75 - 85	22 x 5.4	M20	51.0	40
11	200	160.4	83	21	385	365.5	208	31	400	568.6	278	85 - 95	25 x 5.4	M20	51.0	40
12	230	181.1	92	22	390	385.8	225	32	395	588.9	278	95 - 110	28 x 6.4	M20	53.0	40
13	260	201.8	103	23	395	406.2	229	35	380	649.7	278	115 - 130	32 x 7.4	M20	55.0	40
14	280	222.4	125	24	400	426.5	244	40	355	751.0	278	130 - 150	36 x 8.4	M24	65.0	48
15	305	242.9	140	25	400	446.8	260	45	320	852.3	278					

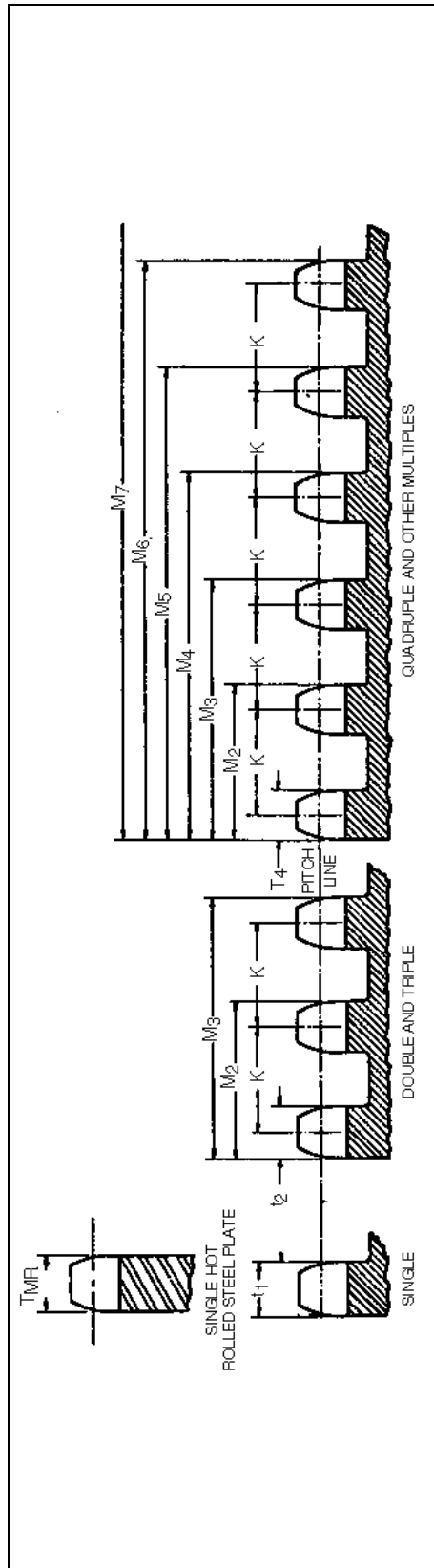
BRITISH STANDARD (Iso) NO. 48B

												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	
															SS over Key	Steel Sprockets SS not over Key
6	20	64.8	32	16	235	315.9	190	26	290	560.4	268	58 - 65	18 x 4.4	M16	41.0	32
7	45	91.0	48	17	245	340.4	198	27	290	584.7	268	65 - 75	20 x 5.4	M20	51.0	40
8	70	110.8	57	18	255	365.0	219	28	290	609.1	268	75 - 85	22 x 5.4	M20	51.0	40
9	95	142.2	71	19	265	389.4	227	29	290	633.5	268	85 - 95	25 x 5.4	M20	51.0	40
10	120	167.3	86	20	270	413.9	248	30	290	657.8	268	95 - 110	28 x 6.4	M20	53.0	40
11	145	192.3	100	21	280	438.4	268	31	400	682.4	268	115 - 130	32 x 7.4	M20	55.0	40
12	165	217.2	127	22	280	462.8	268	32	285	706.5	268	130 - 150	36 x 8.4	M20	57.0	40
13	185	242.0	141	23	285	487.2	268	35	275	779.5	268	150 - 170	40 x 9.4	M20	59.0	40
14	205	266.7	162	24	290	511.6	268	40	255	901.0	268	170 - 190	45 x 10.4	M24	69.0	48
15	220	291.3	165	25	290	536.0	268	45	230	1022.5	268					

ANSI Sprocket Tooth Dimensions

ANSI Sprocket Tooth Dimensions

Martin



Dimensions in Inches

Chain Data For All Sprockets				For 4 or more Strands										Tolerance on t_1 and t_2 Machined	Minus Tolerance on t_1 HR		
A.S.A. Chain No.	Pitch P	Roller Width W	Roller Diameter	Strand t_1 and t_1 HR	Single Double and Triple Strand			(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
					t_2	M_2	M_3	t_4									
STANDARD SERIES ROLLER CHAIN SPROCKETS																	
25	$\frac{1}{4}$	$\frac{1}{8}$	1.130	1.110	107	359	611	348	600	852	1,104	1,356	1,860	2,364	2,868	3,876	252
35	$\frac{5}{16}$	$\frac{3}{16}$	1.200	1.168	162	561	960	548	947	1,346	1,745	2,144	2,942	3,740	4,538	6,134	399
41	$\frac{3}{8}$	$\frac{1}{4}$	1.306	1.227	227	841	1,407	822	1,388	1,954	2,520	3,086	4,218	5,250	6,482	8,746	566
40	$\frac{1}{2}$	$\frac{5}{16}$	1.312	1.284	275	1,045	1,758	1,024	1,737	2,450	3,163	3,876	5,302	6,728	8,154	11,006	713
50	$\frac{5}{8}$	$\frac{3}{4}$	1.400	1.343	332	1,341	2,238	1,315	2,212	3,108	4,006	4,903	6,697	8,491	10,258	13,873	897
60	$\frac{3}{4}$	$\frac{7}{8}$	1.469	1.459	444	1,700	2,863	1,679	2,832	3,985	5,138	6,291	8,597	10,903	13,209	17,821	1,153
80	1	$\frac{1}{2}$	1.625	1.575	557	2,077	3,484	2,041	3,449	4,857	6,265	7,673	10,489	13,305	16,121	21,753	1,408
100	$1\frac{1}{4}$	$\frac{3}{4}$	1.750	1.692	669	2,777	4,633	2,441	4,249	5,857	7,465	9,073	12,281	15,489	18,697	25,305	1,789
120	$1\frac{1}{2}$	1	1.875	1.824	894	2,894	4,722	2,637	4,426	6,215	8,004	9,793	13,371	16,949	20,527	27,531	2,169
140	$1\frac{3}{4}$	$1\frac{1}{8}$	2.000	1.924	1,119	3,188	5,224	3,115	5,112	7,101	9,090	11,080	14,868	18,656	22,444	30,448	2,550
160	2	$1\frac{1}{2}$	2.125	2.031	1,344	3,424	5,729	3,368	5,673	7,978	10,283	12,588	17,198	21,808	26,418	35,422	2,931
180	$2\frac{1}{4}$	$1\frac{3}{4}$	2.250	2.138	1,562	3,851	6,443	3,789	6,381	8,973	11,565	14,157	19,341	24,525	29,709	39,713	3,312
200	$2\frac{1}{2}$	$1\frac{7}{8}$	2.375	2.247	1,789	4,344	7,278	4,095	6,912	9,729	12,546	15,363	20,997	27,631	34,265	45,899	3,693
240	3	$2\frac{1}{4}$	2.625	2.475	2,162	5,140	8,598	4,509	7,517	10,925	14,333	17,741	24,375	31,009	38,643	51,277	4,374

STANDARD SERIES ROLLER CHAIN SPROCKETS

HEAVY SERIES CHAIN SPROCKETS

60H	750	500	469	459	444	1,472	2,500	1,446	2,474	3,502	4,530	5,558	7,614				1,028	-0.06
80H	1,000	625	625	575	557	1,840	3,123	1,809	3,092	4,375	5,568	6,941	9,507				1,283	-0.04
100H	1,250	750	750	692	669	2,208	3,747	2,172	3,711	5,250	6,789	8,328	11,406				1,539	-0.04
120H	1,500	1,000	875	824	894	2,818	4,742	2,772	4,696	6,620	8,544	10,468	14,316				1,924	-0.05
140H	1,750	1,000	1,000	924	894	2,949	5,004	2,903	4,958	7,013	9,068	11,123	15,233				2,055	-0.05
160H	2,000	1,250	1,125	1,156	1,119	3,555	5,991	3,499	5,935	8,371	10,807	13,243	18,115				2,436	-0.06
180H	2,250	1,406	1,406	1,301	1,259	3,982	6,705	3,920	6,643	9,366	12,089	14,812	20,258				2,723	-0.06
200H	2,500	1,500	1,562	1,389	1,344	4,427	7,510	4,361	7,444	10,527	13,610	16,693	22,859				3,063	-0.07

† = 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

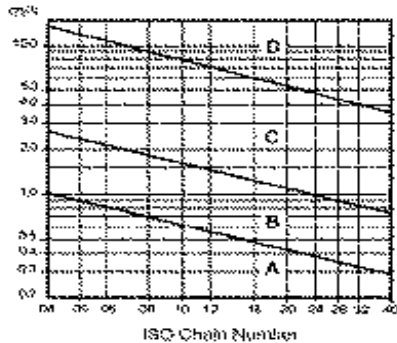
It has been shown that a separate wedge of fluid lubricant is formed in operating chain joints much like that formed in journal bearings. Therefore, fluid lubricant must be applied to assure an oil supply to the joints and minimize metal to metal contact. Lubrication, if supplied in sufficient volume, 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.

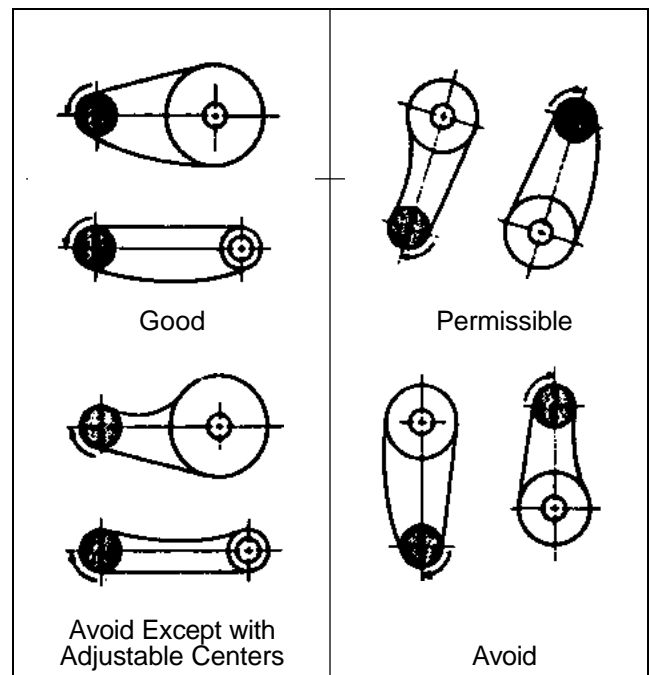
10. Conditions of drive, steady or fluctuating load, hours of operation, lubrication..

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 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-73 using the required speed ratio and size of driver sprocket.

Step VII

Shaft Centers

May be calculated from the formula on page E-71 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-71 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-72 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 II).
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-19)

The driven sprocket is found as follows:

No. Teeth

Driven

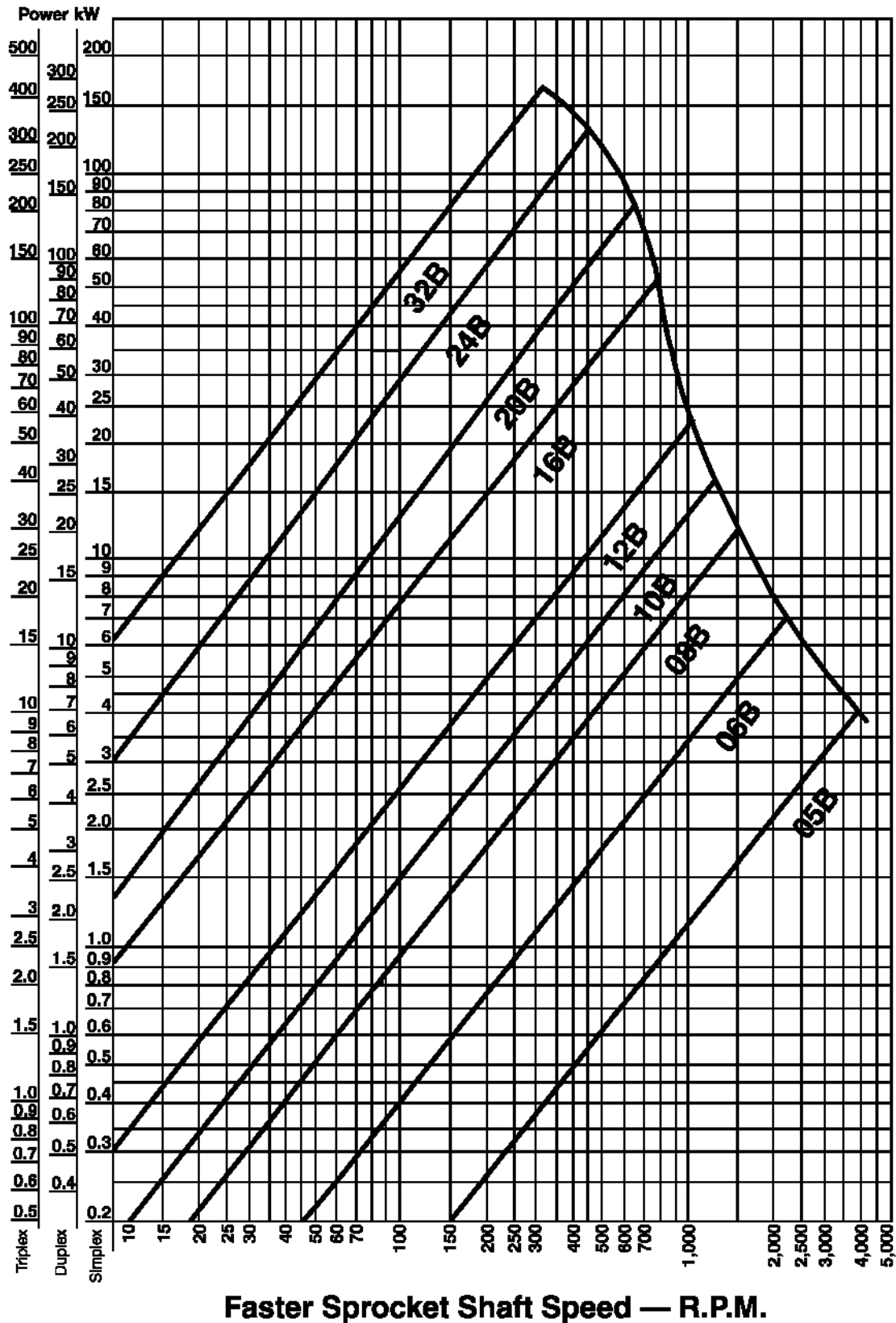
$$\text{Sprocket} = 19 \times \frac{1150}{300} (\text{Ratio}) = 72,83 \text{ or } 73 \text{ Teeth}$$

Since 73 teeth is not a stock size we select 72 teeth. The chain length is calculated as shown on page E-71 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	176
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" 1,6mm Ball 100 Kg.		
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.

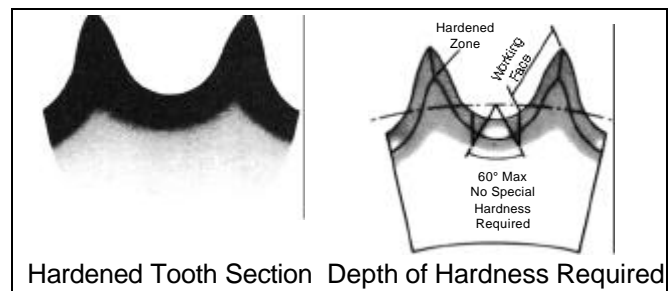
Degree of hardness — this is governed by conditions prevailing each application — for stock sprockets these general suggestions may be used as guide lines:

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).



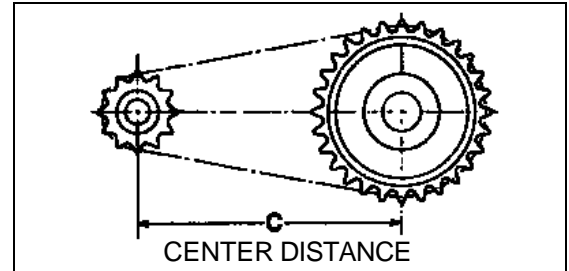
Chain Length Calculation

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

$$L = 2C + \frac{N + n}{2} + \frac{.1013 (N - n)^2}{4C} \quad \text{or substituting A for } \frac{.1013 (N - n)^2}{4} \quad L = 2C + \frac{N + n}{2} + \frac{A}{C}$$

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
- $\pi = 3,1416$
- 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.

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

Values 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	0,8098	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	1,8286	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	0,6193	0,7431	0,9909	1,2386	1,4863	1,7341	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	1,4991	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

		9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
		1,00																	
DRIVEN SPROCKET TEETH	9	1,11																	
	10	1,22	1,00																
	11	1,33	1,10	1,00															
	12	1,44	1,20	1,09	1,00														
	13		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	3,23	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

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	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper 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	46,07	50,17	41,07	84	213,95	218,60	208,95	149	379,45	384,17	374,43
19	48,60	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 diameters" 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	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper 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	448,76	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	451,48
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	85,07	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	496,98
36	109,29	114,59	102,94	102	309,30	314,87	302,95	167	506,36	511,98	499,99
37	112,32	117,63	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	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	21,61	25,10	12,04	71	287,11	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	67,37	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	666,47	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	751,37	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	783,72	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	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper 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	762,99
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	267,97	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	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper 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	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper 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	428,76	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	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper 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	737,99	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	106,28	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	137,54	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	688,63								



Sprocket Diameters

No. 24B
38,1mm Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
5	64,82	75,30	42,60	71	861,34	883,36	842,08	136	1649,50	1671,92	1630,45
6	76,20	88,85	57,15	72	873,46	895,49	854,41	137	1661,63	1684,05	1642,47
7	87,81	101,98	66,56	73	885,59	907,63	866,33	138	1673,75	1696,18	1654,70
8	99,56	114,84	80,51	74	897,71	919,76	878,66	139	1685,88	1708,31	1666,72
9	111,40	127,54	90,66	75	909,84	931,90	890,59	140	1698,01	1720,44	1678,96
10	123,29	140,12	104,24	76	921,96	944,03	902,91	141	1710,13	1732,57	1690,97
11	135,23	152,62	114,80	77	934,08	956,17	914,84	142	1722,26	1744,70	1703,21
12	147,21	165,05	128,16	78	946,21	968,30	927,16	143	1734,39	1756,83	1715,24
13	159,20	177,44	138,99	79	958,33	980,44	939,09	144	1746,51	1768,96	1727,46
14	171,22	189,79	152,17	80	970,46	992,57	951,41	145	1758,64	1781,09	1739,49
15	183,25	202,11	163,20	81	982,58	1004,70	963,35	146	1770,77	1793,22	1751,72
16	195,29	214,40	176,24	82	994,71	1016,84	975,66	147	1782,89	1805,35	1763,74
17	207,35	226,68	187,42	83	1006,83	1028,97	987,60	148	1795,02	1817,48	1775,97
18	219,41	238,94	200,36	84	1018,96	1041,10	999,91	149	1807,15	1829,61	1788,00
19	231,48	251,18	211,64	85	1031,08	1053,24	1011,85	150	1819,27	1841,74	1800,22
20	243,55	263,41	224,50	86	1043,21	1065,37	1024,16	151	1831,40	1853,86	1812,25
21	255,63	275,64	235,87	87	1055,33	1077,50	1036,11	152	1843,53	1865,99	1824,48
22	267,72	287,85	248,67	88	1067,46	1089,64	1048,41	153	1855,65	1878,12	1836,50
23	279,80	300,06	260,10	89	1079,58	1101,77	1060,36	154	1867,78	1890,25	1848,73
24	291,90	312,26	272,85	90	1091,71	1113,90	1072,66	155	1879,91	1902,38	1860,76
25	303,99	324,45	284,34	91	1103,83	1126,03	1084,62	156	1892,03	1914,51	1872,98
26	316,09	336,64	297,04	92	1115,96	1138,17	1096,91	157	1904,16	1926,64	1885,01
27	328,19	348,83	308,58	93	1128,08	1150,30	1108,87	158	1916,29	1938,77	1897,24
28	340,29	361,01	321,24	94	1140,21	1162,43	1121,16	159	1928,41	1950,90	1909,27
29	352,39	373,18	332,82	95	1152,33	1174,56	1133,12	160	1940,54	1963,03	1921,49
30	364,49	385,36	345,44	96	1164,46	1186,69	1145,41	161	1952,67	1975,16	1933,53
31	376,60	397,53	357,07	97	1176,58	1198,83	1157,38	162	1964,80	1987,29	1945,75
32	388,71	409,70	369,66	98	1188,71	1210,96	1169,66	163	1976,92	1999,42	1957,78
33	400,82	421,86	381,32	99	1200,83	1223,09	1181,63	164	1989,05	2011,54	1970,00
34	412,93	434,02	393,88	100	1212,96	1235,22	1193,91	165	2001,18	2023,67	1982,04
35	425,04	446,19	405,56	101	1225,09	1247,35	1205,89	166	2013,30	2035,80	1994,25
36	437,15	458,34	418,10	102	1237,21	1259,48	1218,16	167	2025,43	2047,93	2006,29
37	449,26	470,50	429,81	103	1249,34	1271,62	1230,14	168	2037,56	2060,06	2018,51
38	461,37	482,66	442,32	104	1261,46	1283,75	1242,41	169	2049,68	2072,19	2030,54
39	473,49	494,81	454,06	105	1273,59	1295,88	1254,40	170	2061,81	2084,32	2042,76
40	485,60	506,97	466,55	106	1285,71	1308,01	1266,66	171	2073,94	2096,45	2054,80
41	497,72	519,12	478,30	107	1297,84	1320,14	1278,65	172	2086,06	2108,58	2067,01
42	509,83	531,27	490,78	108	1309,97	1332,27	1290,92	173	2098,19	2120,71	2079,05
43	521,95	543,42	502,55	109	1322,09	1344,40	1302,90	174	2110,32	2132,83	2091,27
44	534,07	555,57	515,02	110	1334,22	1356,53	1315,17	175	2122,45	2144,96	2103,31
45	546,19	567,72	526,81	111	1346,34	1368,66	1327,16	176	2134,57	2157,09	2115,52
46	558,30	579,86	539,25	112	1358,47	1380,80	1339,42	177	2146,70	2169,22	2127,57
47	570,42	592,01	551,05	113	1370,60	1392,93	1351,42	178	2158,83	2181,35	2139,78
48	582,54	604,15	563,49	114	1382,72	1405,06	1363,67	179	2170,95	2193,48	2151,82
49	594,66	616,30	575,30	115	1394,85	1417,19	1375,67	180	2183,08	2205,61	2164,03
50	606,78	628,44	587,73	116	1406,97	1429,32	1387,92	181	2195,21	2217,74	2176,08
51	618,90	640,59	599,56	117	1419,10	1441,45	1399,92	182	2207,33	2229,87	2188,28
52	631,02	652,73	611,97	118	1431,23	1453,58	1412,18	183	2219,46	2241,99	2200,33
53	643,14	664,87	623,81	119	1443,35	1465,71	1424,17	184	2231,59	2254,12	2212,54
54	655,26	677,01	636,21	120	1455,48	1477,84	1436,43	185	2243,72	2266,25	2224,59
55	667,38	689,15	648,06	121	1467,61	1489,97	1448,44	186	2255,84	2278,38	2236,79
56	679,50	701,29	660,45	122	1479,73	1502,10	1460,68	187	2267,97	2290,51	2248,84
57	691,62	713,43	672,31	123	1491,86	1514,23	1472,69	188	2280,10	2302,64	2261,05
58	703,75	725,57	684,70	124	1503,98	1526,36	1484,93	189	2292,22	2314,77	2273,09
59	715,87	737,71	696,57	125	1516,11	1538,49	1496,94	190	2304,35	2326,90	2285,30
60	727,99	749,85	708,94	126	1528,24	1550,62	1509,19	191	2316,48	2339,02	2297,35
61	740,11	761,99	720,81	127	1540,36	1562,75	1521,19	192	2328,60	2351,15	2309,55
62	752,23	774,13	733,18	128	1552,49	1574,88	1533,44	193	2340,73	2363,28	2321,60
63	764,36	786,27	745,07	129	1564,62	1587,01	1545,45	194	2352,86	2375,41	2333,81
64	776,48	798,40	757,43	130	1576,74	1599,14	1557,69	195	2364,99	2387,54	2345,86
65	788,60	810,54	769,32	131	1588,87	1611,27	1569,71	196	2377,11	2399,67	2358,06
66	800,72	822,68	781,67	132	1601,00	1623,40	1581,95	197	2389,24	2411,80	2370,11
67	812,85	834,81	793,58	133	1613,12	1635,53	1593,96	198	2401,37	2423,92	2382,32
68	824,97	846,95	805,92	134	1625,25	1647,66	1606,20	199	2413,49	2436,05	2394,36
69	837,09	859,09	817,82	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	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper 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	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper 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	308,64	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	1392,28	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	2718,09
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	778,05	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	3170,83
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	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper 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	264,38	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	1698,26	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	946,19	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 Diameters

No. 48B
63,5mm Pitch

ROLLER CHAIN SPROCKET DIAMETERS

No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter	No. Teeth	Pitch Diameter	Outside Diameter	Caliper Diameter
6	152,40	177,70	104,14	71	1722,68	1766,72	1674,00	136	3299,00	3343,84	3250,74
7	175,62	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	3517,33
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	535,43	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	2086,65	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	4075,11	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	4463,42
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	4778,48	4823,59	4730,07
68	1649,94	1693,90	1601,68	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-67)

Step 3: _____ (Include additions to basic factor)
Service Factor (Step II Page E-67)

Step 4: Determine Design kW _____ x _____ = _____
kW Service Factor kW Design

Step 5: Speed Ratio _____ ÷ _____ = _____
RPM Faster Shaft RPM Slower Factor Ratio (E-73)

Step 6: From selector chart, select proper chain pitch & driver sprocket.
(check Martin catalog #2001-I, Page E-69)

A. _____ B. _____
Chain Pitch Driver Sprocket
Maximum Bore
(Pages E-3 thru E-55)

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

C. _____
Driven Sprocket Maximum Bore

Step 8: Check manufacturer's catalog for maximum bore recommended & final stock selection. (Pages E-3 thru E-55)

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

TYPE: A BCD (Pages E-66)

Step 10: _____ OR _____ ÷ _____ = _____
Center Dist. (mm) Chain Pitch 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-71)

Warning & Safety Reminder

The Martin logo is displayed in a stylized, white, cursive font on a black rectangular background.

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 your local authorities; other sources may include the latest editions of American Society of Mechanical Engineers at 345 East 47th Street, New York, NY 10017 (+1-212-705-7722)

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate the parts or components manufactured or supplied by *Martin* Sprocket & Gear, Inc., in such a manner as to comply with the requirements of your local laws, ordinances, regulations, authorities, and safety acts which are similar in spirit and intention of the Williams-Steiger Occupational Safety Act in the USA as well as 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 following precautions must be taken.

1. Isolate the power source from the equipment.
2. Disconnect or reconnect any equipment only if the construction is fully visible and understood.
3. Wear eye protection.
4. Wear appropriate protective clothing, hats, gloves and safety shoes as warranted by the circumstances.
5. Check that all tools are used in good working condition only.
6. Loosen tensioning devices carefully.
7. Avoid sudden and unexpected movement of parts of the equipment and/or components.
8. Do not reuse individual components.
9. Do not reuse a damaged or faulty part.

Failure to follow these measures 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 verification.