



U.S. Tsubaki, Inc.

Power Transmission Components Division

# Sprocket Catalog



[www.ustsubaki.com](http://www.ustsubaki.com)

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# U.S. Tsubaki Sprockets

## Total quality systems start here.

System performance depends on proper chain-sprocket interaction, which means your choice for sprockets can drive your operation's success. Make the right — and easy — choice with sprockets from U.S. Tsubaki.

Only U.S. Tsubaki offers both chain and sprocket manufacturing capabilities — providing not only the best chain for your application, but sprockets designed to maximize system performance. When chains and sprockets articulate correctly, you get longer service life from your chain. That means long-term savings and real value for your operation.

- Reduced downtime for maintenance
- Increased productivity
- Lower replacement costs

## Keep your system on the cutting edge with U.S. Tsubaki Sprockets.

### Quality Construction

Discover the difference quality makes. U.S. Tsubaki Sprockets are built from top-grade, heat-treated carbon steel to offer long wear life, resist abrasion, and withstand heavy shock loads. Alloy and stainless steel sprockets are also available for extra corrosion resistance and food-grade applications. Precision manufacturing at our ISO-certified facilities ensures that every U.S. Tsubaki Sprocket stands up to critical design specifications and meets the highest quality standards. You get long service life and reliable performance, turn after turn, time after time.

### Complete Selection

Get up and running — right away — in new or retrofit operations. U.S. Tsubaki Sprockets are available in the styles and sizes you need. No. 25 through No. 240 pitch styles ship quickly in a wide range of bore sizes and tooth counts.

- Type A Plain Bore (no hub extension)
- Type B Plain Bore (one-sided hub extension)
- Type C Plain Bore (two-sided hub extension)
- Finished Bore
- TAPER-LOCK® Sprockets and Bushings
- QD® Sprockets and Bushings

### Value Delivered

Get the quality you need from one of the most trusted names in power transmission. U.S. Tsubaki Sprockets save you time and money. Take advantage of our outstanding customer service and consolidate your shipments. Simplify inventory management, improve material handling, and increase profits with U.S. Tsubaki Sprockets.



# 1/4" Pitch — Plain Bore



Dimensions are in inches unless otherwise indicated.

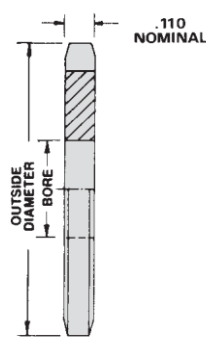
Sprocket Diameters				Type A				Type B						
No. Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalog Number	List Price	Plain Bore	Wt. Lbs.	Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.
9	.837	.731	.590					25B9			1/4	7/16	1/2	.03
10	.919	.809	.679					25B10			1/4	1/2	1/2	.04
11	1.001	.887	.748					25B11			5/16	9/16	1/2	.05
12	1.083	.966	.836					25B12			3/8	5/8	1/2	.06
13	1.164	1.045	.907					25B13			7/16	23/32	1/2	.07
14	1.245	1.123	.994					25B14			9/16	13/16	1/2	.08
15	1.326	1.203	1.066					25B15			9/16	7/8	1/2	.10
16	1.407	1.282	1.152					25B16			5/8	31/32	1/2	.12
17	1.487	1.361	1.225					25B17			21/32	11/32	1/2	.14
18	1.568	1.440	1.310	25A18		1/4	.04	25B18			3/4	1 1/8	1/2	.16
19	1.648	1.519	1.384	25A19		1/4	.04	25B19			13/16	17/32	1/2	.19
20	1.728	1.598	1.468	25A20		1/4	.04	25B20			7/8	1 1/32	5/8	.25
21	1.809	1.677	1.543	25A21		1/4	.04	25B21			7/8	1 3/8	5/8	.28
22	1.889	1.757	1.627	25A22		1/4	.06	25B22			15/16	1 7/16	5/8	.31
23	1.969	1.836	1.702	25A23		1/4	.06	25B23			1	1 1/2	5/8	.32
24	2.049	1.915	1.785	25A24		3/8	.08	25B24		3/8	1	1 1/2	5/8	.33
25	2.129	1.995	1.861	25A25		3/8	.08	25B25		3/8	1	1 1/2	5/8	.34
26	2.209	2.074	1.944	25A26		3/8	.09	25B26		3/8	1	1 1/2	5/8	.35
28	2.369	2.233	2.103	25A28		3/8	.10	25B28			1	1 1/2	5/8	.37
30	2.529	2.392	2.262	25A30		3/8	.12	25B30			1	1 1/2	5/8	.39
32	2.688	2.551	2.421	25A32		3/8	.14	25B32			1	1 1/2	5/8	.41
35	2.928	2.789	2.656	25A35		3/8	.16	25B35			1	1 1/2	5/8	.46
36	3.008	2.868	2.738	25A36		3/8	.18	25B36			1	1 1/2	3/4	.49
40	3.327	3.186	3.056	25A40		3/8	.20	25B40			1 1/4	2	3/4	.52
45	3.725	3.584	3.452	25A45		1/2	.25	25B45			1 1/4	2	3/4	.55
48	3.964	3.822	3.692	25A48		1/2	.32	25B48			1 1/4	2	3/4	.57
54	4.442	4.300	4.170	25A54		1/2	.38	25B54			1 1/4	2	3/4	.98
60	4.920	4.777	4.647	25A60		1/2	.54	25B60			1 1/4	2	3/4	1.10
72	5.876	5.731	5.601	25A72		1/2	.74	25B72			1 1/4	2	3/4	1.30

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

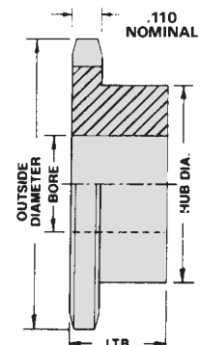
† Dimensions shown allow for standard keyway with set screw at 90°

## CHAIN TECHNICAL DATA

Size	25
Pitch	1/4"
Inside Width	1/8"
Roller Diameter	.130"



TYPE A

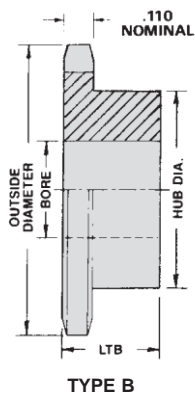


TYPE B

# No. 25 <sup>1</sup>/<sub>4</sub>" Pitch — Stainless Steel

Dimensions are in inches unless otherwise indicated.

Single — Type B — Stainless Steel								
No. Teeth	Outside Diameter	Catalog Number	List Price	Plain Bore	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
9	.837	25B9SS		1/4	1/4	7/16	1/2	.03
10	.919	25B10SS		1/4	1/4	1/2	1/2	.04
11	1.001	25B11SS		1/4	5/16	9/16	1/2	.05
12	1.083	25B12SS		1/4	3/8	5/8	1/2	.06
13	1.164	25B13SS		1/4	7/16	23/32	1/2	.07
14	1.245	25B14SS		1/4	9/16	13/16	1/2	.08
15	1.326	25B15SS		1/4	9/16	7/8	1/2	.10
16	1.407	25B16SS		1/4	5/8	31/32	1/2	.12
17	1.487	25B17SS		1/4	21/32	1 1/32	1/2	.14
18	1.568	25B18SS		1/4	3/4	1 1/8	1/2	.16
19	1.648	25B19SS		1/4	13/16	1 7/32	1/2	.19
20	1.728	25B20SS		1/4	7/8	1 9/32	5/8	.25
21	1.809	25B21SS		1/4	7/8	1 3/8	5/8	.28
22	1.889	25B22SS		1/4	15/16	1 7/16	5/8	.31
23	1.969	25B23SS		1/4	1	1 1/2	5/8	.32
24	2.049	25B24SS		3/8	1	1 1/2	5/8	.33
25	2.129	25B25SS		3/8	1	1 1/2	5/8	.34
26	2.209	25B26SS		3/8	1	1 1/2	5/8	.35
28	2.369	25B28SS		3/8	1	1 1/2	5/8	.37
30	2.529	25B30SS		3/8	1	1 1/2	5/8	.39
36	3.008	25B36SS		3/8	1	1 1/2	3/4	.49
40	3.327	25B40SS		3/8	1 1/4	2	3/4	.52
45	3.725	25B45SS		1/2	1 1/4	2	3/4	.55
60	4.920	25B60SS		1/2	1 1/4	2	3/4	1.10



### CHAIN TECHNICAL DATA

Size	25
Pitch	1/4"
Inside Width	1/8"
Roller Diameter	.130"

# 3/8" Pitch — Plain Bore



Dimensions are in inches unless otherwise indicated.

Type A					Type B Plain Bore						
No. Teeth	Catalog Number	List Price	Plain Bore	Wt. Lbs.	Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.
8					35B8		3/8	7/16	3/4 ▲	3/4	.11
9					35B9		3/8	3/8	27/32 ▲	3/4	.12
10					35B10		3/8	9/16	31/32 ▲	3/4	.14
11					35B11		3/8	3/4	1 1/16 ▲	3/4	.16
12					35B12		1/2	3/4	1 1/32 ▲	3/4	.21
13					35B13		1/2	3/4	1 1/4 ▲	3/4	.25
14					35B14		1/2	3/4	1 1/4	3/4	.25
15	35A15		1/2	.11	35B15		1/2	1	1 3/8	3/4	.34
16	35A16		1/2	.12	35B16		1/2	1	1 15/32	3/4	.37
17	35A17		1/2	.14	35B17		1/2	1	1 5/8	3/4	.46
18	35A18		1/2	.16	35B18		1/2	1 1/16	1 3/4	3/4	.53
19	35A19		1/2	.17	35B19		1/2	1 3/16	1 7/8	3/4	.60
20	35A20		1/2	.19	35B20		1/2	1 3/16	1 15/16	3/4	.68
21	35A21		1/2	.21	35B21		1/2	1 1/4	2 1/8	3/4	.74
22	35A22		1/2	.24	35B22		1/2	1 1/4	2 1/8	3/4	.78
23	35A23		1/2	.26	35B23		1/2	1 1/4	2 1/8	3/4	.81
24	35A24		1/2	.28	35B24		1/2	1 1/4	2 1/8	7/8	.90
25	35A25		1/2	.31	35B25		1/2	1 1/4	2 1/8	7/8	.93
26	35A26		1/2	.33	35B26		1/2	1 1/2	2 1/4	1	1.30
27	35A27		1/2	.36	35B27		1/2	1 1/2	2 1/4	1	1.40
28	35A28		1/2	.38	35B28		1/2	1 1/2	2 1/4	1	1.40
30	35A30		1/2	.44	35B30		1/2	1 1/2	2 1/4	1	1.50
32	35A32		1/2	.50	35B32		1/2	1 1/2	2 1/4	1	1.60
35	35A35		1/2	.61	35B35		1/2	1 1/2	2 1/4	1	1.70
36	35A36		1/2	.64	35B36		1/2	1 1/2	2 1/4	1	1.70
40	35A40		5/8	.79	35B40		5/8	1 1/2	2 1/4	1	1.80
42	35A42		5/8	.90	35B42		5/8	1 1/2	2 1/4	1	1.90
45	35A45		5/8	1.00	35B45		5/8	1 1/2	2 1/4	1	2.00
48	35A48		5/8	1.10	35B48		5/8	1 1/2	2 1/4	1	2.10
54	35A54		5/8	1.40	35B54		5/8	1 1/2	2 1/4	1	2.40
60	35A60		3/4	1.80	35B60		3/4	1 1/2	2 1/4	1	2.80
70	35A70		3/4	2.40	35B70		3/4	1 1/2	2 1/4	1	3.40
72	35A72		3/4	2.60	35B72		3/4	1 1/2	2 1/4	1	3.60
80	35A80		3/4	3.20	35B80		3/4	1 1/2	2 1/4	1	4.20
84	35A84		3/4	3.50	35B84		3/4	1 1/2	2 1/4	1	4.50
96	35A96		3/4	4.60	35B96		3/4	1 1/2	2 1/4	1	5.60
112	35A112		3/4	6.30							

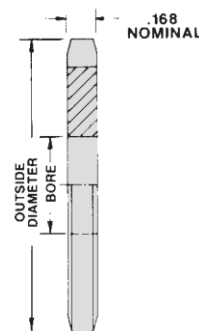
SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

▲ Has recessed groove in hub for chain clearance

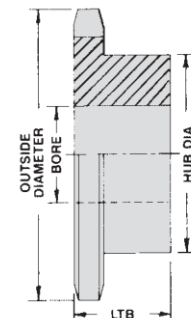
† Dimensions shown allow for standard keyway with set screw at 90°

## CHAIN TECHNICAL DATA

Size	35
Pitch	3/8"
Inside Width	3/16"
Roller Diameter	.200"



TYPE A



TYPE B

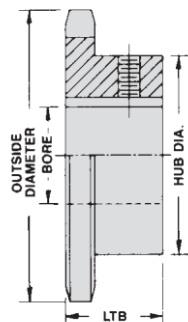
# No. 35 <sup>3</sup>/<sub>8</sub>" Pitch — Finished Bore

Dimensions are in inches unless otherwise indicated.

Type F Bored to Size							Sprocket Diameters <sup>3</sup> / <sub>8</sub> " Pitch				
No. Teeth	Catalog Number	List Price	Available Bores (Includes Standard KW & 2SS)				Outside Diameter	Pitch Diameter	Caliper Diameter		
9	35B9F		<sup>3</sup> / <sub>8</sub> ■				1.255	1.096	.880		
10	35B10F		<sup>3</sup> / <sub>8</sub> ■, <sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ●			1.379	1.214	1.014		
11	35B11F		<sup>3</sup> / <sub>8</sub> ■, <sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ●		1.502	1.331	1.118		
12	35B12F		<sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub>		1.625	1.449	1.249		
13	35B13F		<sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub>		1.746	1.567	1.356		
14	35B14F		<sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub>		1.868	1.685	1.485		
15	35B15F		<sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	1 ●	1.989	1.804	1.594		
16	35B16F		<sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	1 ●	2.110	1.922	1.722		
17	35B17F		<sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	1	2.231	2.041	1.832		
18	35B18F		<sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	1	2.352	2.160	1.960		
19	35B19F		<sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	1	2.472	2.278	2.071		
20	35B20F		<sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	1	2.593	2.397	2.197		
21	35B21F		<sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	1	2.713	2.516	2.309		
22	35B22F		<sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	1	2.833	2.635	2.435		
23	35B23F		<sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	1	2.953	2.754	2.548		
24	35B24F		<sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	1	3.073	2.873	2.673		
25	35B25F		<sup>1</sup> / <sub>2</sub> ,	<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	1	3.194	2.992	2.786		
26	35B26F		<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	<sup>7</sup> / <sub>8</sub> ,	1, <sup>1</sup> / <sub>8</sub> ,	<sup>1</sup> / <sub>16</sub> ,	<sup>1</sup> / <sub>4</sub>	3.313	3.111	2.911
28	35B28F		<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	<sup>7</sup> / <sub>8</sub> ,	1, <sup>1</sup> / <sub>8</sub> ,	<sup>1</sup> / <sub>16</sub> ,	<sup>1</sup> / <sub>4</sub>	3.553	3.349	3.149
30	35B30F		<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	<sup>7</sup> / <sub>8</sub> ,	1, <sup>1</sup> / <sub>8</sub> ,	<sup>1</sup> / <sub>16</sub> ,	<sup>1</sup> / <sub>4</sub>	3.793	3.588	3.388
32	35B32F		<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	<sup>7</sup> / <sub>8</sub> ,	1, <sup>1</sup> / <sub>8</sub> ,	<sup>1</sup> / <sub>16</sub> ,	<sup>1</sup> / <sub>4</sub>	4.032	3.826	3.626
35	35B35F		<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	<sup>7</sup> / <sub>8</sub> ,	1, <sup>1</sup> / <sub>8</sub> ,	<sup>1</sup> / <sub>16</sub> ,	<sup>1</sup> / <sub>4</sub>	4.392	4.183	3.979
36	35B36F		<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	<sup>7</sup> / <sub>8</sub> ,	1, <sup>1</sup> / <sub>8</sub> ,	<sup>1</sup> / <sub>16</sub> ,	<sup>1</sup> / <sub>4</sub>	4.511	4.303	4.103
40	35B40F		<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	<sup>7</sup> / <sub>8</sub> ,	1, <sup>1</sup> / <sub>8</sub> ,	<sup>1</sup> / <sub>16</sub> ,	<sup>1</sup> / <sub>4</sub>	4.990	4.780	4.580
42	35B42F		<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	<sup>7</sup> / <sub>8</sub> ,	1, <sup>1</sup> / <sub>8</sub> ,	<sup>1</sup> / <sub>16</sub> ,	<sup>1</sup> / <sub>4</sub>	5.229	5.018	4.818
45	35B45F		<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	<sup>7</sup> / <sub>8</sub> ,	1, <sup>1</sup> / <sub>8</sub> ,	<sup>1</sup> / <sub>16</sub> ,	<sup>1</sup> / <sub>4</sub>	5.588	5.376	5.173
48	35B48F		<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	<sup>7</sup> / <sub>8</sub> ,	1, <sup>1</sup> / <sub>8</sub> ,	<sup>1</sup> / <sub>16</sub> ,	<sup>1</sup> / <sub>4</sub>	5.946	5.734	5.534
54	35B54F		<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	<sup>7</sup> / <sub>8</sub> ,	1, <sup>1</sup> / <sub>8</sub> ,	<sup>1</sup> / <sub>16</sub> ,	<sup>1</sup> / <sub>4</sub>	6.664	6.449	6.249
60	35B60F		<sup>5</sup> / <sub>8</sub> ,	<sup>3</sup> / <sub>4</sub> ,	<sup>7</sup> / <sub>8</sub> ,	1, <sup>1</sup> / <sub>8</sub> ,	<sup>1</sup> / <sub>16</sub> ,	<sup>1</sup> / <sub>4</sub>	7.380	7.165	6.965

Hub diameter may vary to suit bore sizes

- Indicates set screw at 90° and 180° from keyway
- Furnished without keyway



TYPE B

### CHAIN TECHNICAL DATA

Size	35
Pitch	<sup>3</sup> / <sub>8</sub> "
Inside Width	<sup>3</sup> / <sub>16</sub> "
Roller Diameter	.200"

# 3/8" Pitch — Stainless Steel



Dimensions are in inches unless otherwise indicated.

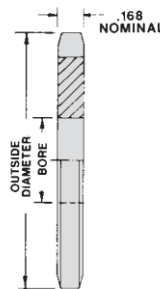
Single — Type B — Stainless Steel								
No. Teeth	Outside Diameter	Catalog Number	List Price	Plain Bore	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
9	1.260	35B9SS		3/8	3/8	27/32 ▲	3/4	.10
10	1.380	35B10SS		3/8	9/16	31/32 ▲	3/4	.15
11	1.500	35B11SS		3/8	9/16	1 1/16 ▲	3/4	.20
12	1.630	35B12SS		1/2	5/8	1 1/32 ▲	3/4	.22
13	1.750	35B13SS		1/2	3/4	1 1/4 ▲	3/4	.25
14	1.870	35B14SS		1/2	7/8	1 1/4	3/4	.26
15	1.990	35B15SS		1/2	7/8	1 11/32	3/4	.30
16	2.110	35B16SS		1/2	15/16	1 15/32	3/4	.40
17	2.230	35B17SS		1/2	1 1/16	1 19/32	3/4	.43
18	2.350	35B18SS		1/2	1 3/16	1 23/32	3/4	.50
19	2.470	35B19SS		1/2	1 1/4	1 27/32	3/4	.56
20	2.590	35B20SS		1/2	1 5/16	1 15/16	3/4	.68
21	2.710	35B21SS		1/2	1 3/8	2	7/8	.80
22	2.833	35B22SS		1/2	1 3/8	2	7/8	.82
23	2.950	35B23SS		1/2	1 3/8	2	7/8	.87
24	3.070	35B24SS		1/2	1 3/8	2	7/8	.89
25	3.190	35B25SS		1/2	1 3/8	2	7/8	.91
26	3.310	35B26SS		1/2	1 3/8	2	7/8	.93
28	3.550	35B28SS		1/2	1 1/2	2 1/4	1	1.00
30	3.790	35B30SS		1/2	1 1/2	2 1/4	1	1.06
32	4.032	35B32SS		1/2	1 1/2	2 1/4	1	1.13
35	4.390	35B35SS		1/2	1 1/2	2 1/4	1	1.56
40	4.990	35B40SS		1/2	1 1/2	2 1/4	1	1.70
45	5.590	35B45SS		1/2	1 1/2	2 1/4	1	2.18
60	7.380	35B60SS		1/2	1 1/2	2 1/4	1	3.00

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

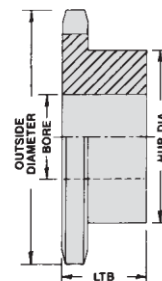
▲ Has recessed groove in hub for chain clearance

## CHAIN TECHNICAL DATA

Size	35SS
Pitch	3/8"
Inside Width	3/16"
Roller Diameter	.200"



TYPE A



TYPE B



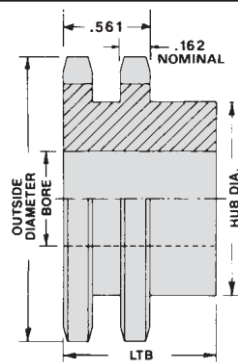
# No. 35 <sup>3/8"</sup> Pitch — Multiple Strand

Dimensions are in inches unless otherwise indicated.

Basic Sprocket Dimensions			35-2 Double Strand					
No. Teeth	Outside Diameter	Plain Bore	Catalog Number	List Price	Hub Dia.	LTB	†Max. Bore	Wt. Lbs.
13	1.746	1/2	D35B13		1 1/8	1 1/4	3/4	.35
14	1.868	1/2	D35B14		1 1/4	1 1/4	13/16	.42
15	1.989	1/2	D35B15		1 11/32	1 1/4	7/8	.53
16	2.110	1/2	D35B16		1 19/32	1 1/4	15/16	.63
17	2.231	1/2	D35B17		1 19/32	1 1/4	1 1/16	.74
18	2.352	1/2	D35B18		1 23/32	1 1/4	1 1/8	.86
19	2.472	1/2	D35B19		1 27/32	1 1/4	1 1/4	.98
20	2.593	1/2	D35B20		1 31/32	1 3/8	1 5/16	1.21
21	2.713	1/2	D35B21		2 1/16	1 3/8	1 3/8	1.37
22	2.833	1/2	D35B22		2 3/16	1 3/8	1 1/16	1.54
23	2.954	1/2	D35B23		2 5/16	1 3/8	1 1/2	1.70
24	3.074	1/2	D35B24		2 7/16	1 3/8	1 5/8	1.90
25	3.194	1/2	D35B25		2 9/16	1 3/8	1 11/16	2.07
26	3.314	1/2	D35B26		2 11/16	1 3/8	1 3/4	2.26
30	3.793	1/2	D35B30		3 5/32	1 3/8	2	3.15
36	4.511	1 1/16	D35B36		2 1/2	1 3/8	1 3/4	3.30
42	5.229	1 1/16	D35B42		2 1/2	1 3/8	1 3/4	4.30
48	5.946	1 1/16	D35B48		2 1/2	1 3/8	1 3/4	5.40
52	6.425	1 1/16	D35B52		2 1/2	1 3/8	1 3/4	6.20
60	7.380	1 1/16	D35B60		2 1/2	1 3/8	1 3/4	8.00

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

† Dimensions shown allow for standard keyway with set screw at 90°



TYPE B

### CHAIN TECHNICAL DATA

Size	35-2
Pitch	3/8"
Inside Width	3/16"
Roller Diameter	.200"

# 3/8" Pitch — TAPER-LOCK®



Dimensions are in inches unless otherwise indicated.

Type B TAPER-LOCK®								
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
18	2.352	35BTL18		1008	1	1 7/8 ▲	7/8	.40
19	2.472	35BTL19		1008	1	1 13/16	7/8	.50
20	2.593	35BTL20		1008	1	1 15/16	7/8	.60
21	2.713	35BTL21		1008	1	2 1/16	7/8	.70
22	2.883	35BTL22		1210	1 1/4	2 3/8 ▲	1	.80

▲Has recessed groove in hub for chain clearance

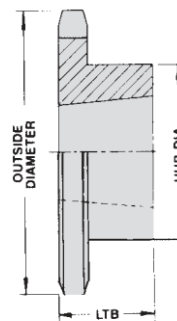
Dimensions are in inches unless otherwise indicated.

TAPER-LOCK® Bushings			
Bushing	List Price	Bore Range	Wt. Lbs.
1008		1/2 — 1	.20
1210		1/2 — 1 1/4	.55

TAPER-LOCK® is a registered trademark of Rockwell Automation.

## CHAIN TECHNICAL DATA

Size	35
Pitch	3/8"
Inside Width	3/16"
Roller Diameter	.200"



TYPE B

# No. 35 <sup>3</sup>/<sub>8</sub>" Pitch — QD®

Dimensions are in inches unless otherwise indicated.

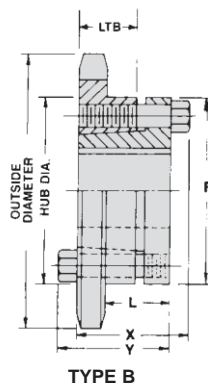
35 QD® 3/8" Pitch													
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Hub Type	Dia.	LTB	X	Y	L	F	Wt. Lbs.
19	2.472	35JA19		JA	1 <sup>1</sup> / <sub>4</sub>	B	2 <sup>1</sup> / <sub>16</sub>	<sup>9</sup> / <sub>16</sub>	1	1	<sup>45</sup> / <sub>64</sub>	2	.30
20	2.593	35JA20		JA	1 <sup>1</sup> / <sub>4</sub>	B	2 <sup>1</sup> / <sub>16</sub>	<sup>9</sup> / <sub>16</sub>	1	1	<sup>45</sup> / <sub>64</sub>	2	.30
21	2.713	35JA21		JA	1 <sup>1</sup> / <sub>4</sub>	B	2 <sup>1</sup> / <sub>16</sub>	<sup>9</sup> / <sub>16</sub>	1	1	<sup>45</sup> / <sub>64</sub>	2	.30
24	3.074	35JA24		JA	1 <sup>1</sup> / <sub>4</sub>	B	2 <sup>1</sup> / <sub>4</sub>	<sup>9</sup> / <sub>16</sub>	1	1	<sup>45</sup> / <sub>64</sub>	2	.50
25	3.194	35JA25		JA	1 <sup>1</sup> / <sub>4</sub>	B	2 <sup>1</sup> / <sub>4</sub>	<sup>9</sup> / <sub>16</sub>	1	1	<sup>45</sup> / <sub>64</sub>	2	.50
26	3.314	35JA26		JA	1 <sup>1</sup> / <sub>4</sub>	B	2 <sup>1</sup> / <sub>4</sub>	<sup>9</sup> / <sub>16</sub>	1	1	<sup>45</sup> / <sub>64</sub>	2	.50
27	3.434	35JA27		JA	1 <sup>1</sup> / <sub>4</sub>	B	2 <sup>1</sup> / <sub>4</sub>	<sup>9</sup> / <sub>16</sub>	1	1	<sup>45</sup> / <sub>64</sub>	2	.60
28	3.553	35JA28		JA	1 <sup>1</sup> / <sub>4</sub>	B	2 <sup>1</sup> / <sub>4</sub>	<sup>9</sup> / <sub>16</sub>	1	1	<sup>45</sup> / <sub>64</sub>	2	.60
30	3.793	35JA30		JA	1 <sup>1</sup> / <sub>4</sub>	B	2 <sup>1</sup> / <sub>4</sub>	<sup>9</sup> / <sub>16</sub>	1	1	<sup>45</sup> / <sub>64</sub>	2	.70
40	4.990	35SH40		SH	1 <sup>11</sup> / <sub>16</sub>	B	3	<sup>9</sup> / <sub>16</sub>	<sup>13</sup> / <sub>8</sub>	<sup>13</sup> / <sub>8</sub>	<sup>1</sup> / <sub>64</sub>	2 <sup>11</sup> / <sub>16</sub>	1.40
48	5.946	35SH48		SH	1 <sup>11</sup> / <sub>16</sub>	B	3	<sup>13</sup> / <sub>16</sub>	<sup>13</sup> / <sub>8</sub>	<sup>13</sup> / <sub>8</sub>	<sup>1</sup> / <sub>64</sub>	2 <sup>11</sup> / <sub>16</sub>	1.70

Dimensions are in inches unless otherwise indicated.

QD® Bushings					
Bushing	List Price	Bore Range		No Keyway	Wt. Lbs.
		Standard Keyway	Shallow Keyway		
JA		<sup>1</sup> / <sub>2</sub> — 1	1 <sup>1</sup> / <sub>16</sub> — 1 <sup>3</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>4</sub>	.80
SH		<sup>1</sup> / <sub>2</sub> — 1 <sup>3</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>16</sub> — 1 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	.70

Refer to page 72 for bushing specifications

QD® is a registered trademark of and is used under license from Emerson Power Transmission Manufacturing, L.P.



### CHAIN TECHNICAL DATA

Size	35
Pitch	<sup>3</sup> / <sub>8</sub> "
Inside Width	<sup>3</sup> / <sub>16</sub> "
Roller Diameter	.200"

# 1/2" Pitch — Plain Bore



Dimensions are in inches unless otherwise indicated.

Type A					Type B Plain Bore						
No. Teeth	Catalog Number	List Price	Plain Bore	Wt. Lbs.	Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.
8					40B8		1/2	1/2	31/32 ▲	7/8	.12
9					40B9		1/2	5/8	1 1/8 ▲	7/8	.22
10					40B10		1/2	3/4	1 1/4 ▲	7/8	.25
11					40B11		1/2	7/8	1 29/64 ▲	7/8	.38
12	40A12		1/2	.26	40B12		1/2	1	1 9/16 ▲	7/8	.44
13	40A13		1/2	.30	40B13		1/2	1	1 1/16	7/8	.50
14	40A14		1/2	.34	40B14		1/2	1	1 1/16	7/8	.57
15	40A15		5/8	.38	40B15		1/2	1 1/4	1 9/16	7/8	.69
16	40A16		5/8	.41	40B16		5/8	1 1/4	2	7/8	.81
17	40A17		5/8	.44	40B17		5/8	1 5/16	2 1/8	7/8	.94
18	40A18		5/8	.46	40B18		5/8	1 1/2	2 9/16	7/8	1.12
19	40A19		5/8	.52	40B19		5/8	1 3/4	2 1/2	7/8	1.30
20	40A20		5/8	.58	40B20		5/8	1 3/4	2 5/8	1	1.60
21	40A21		5/8	.64	40B21		5/8	1 3/4	2 29/32	1	1.80
22	40A22		5/8	.70	40B22		5/8	1 3/4	2 1/2	1	2.00
23	40A23		5/8	.77	40B23		5/8	1 3/4	2 1/2	1	2.10
24	40A24		5/8	.84	40B24		5/8	1 3/4	2 1/2	1	2.20
25	40A25		5/8	.91	40B25		5/8	1 3/4	2 1/2	1	2.30
26	40A26		5/8	1.00	40B26		5/8	1 3/4	2 1/2	1	2.40
27	40A27		5/8	1.10	40B27		5/8	1 3/4	2 1/2	1	2.50
28	40A28		5/8	1.10	40B28		5/8	1 3/4	2 1/2	1	2.50
29	40A29		5/8	1.20	40B29		5/8	1 3/4	2 1/2	1	2.60
30	40A30		5/8	1.30	40B30		5/8	1 3/4	2 1/2	1	2.70
31	40A31		3/4	1.40	40B31		3/4	1 3/4	2 1/2	1	2.70
32	40A32		3/4	1.50	40B32		3/4	1 3/4	2 1/2	1	2.80
33	40A33		3/4	1.60	40B33		3/4	1 3/4	2 1/2	1	2.90
34	40A34		3/4	1.70	40B34		3/4	1 3/4	2 1/2	1	3.00
35	40A35		3/4	1.80	40B35		3/4	1 3/4	2 1/2	1	3.10
36	40A36		3/4	1.90	40B36		3/4	1 3/4	2 1/2	1	3.20
38	40A38		3/4	2.10	40B38		3/4	2	3	1 1/8	3.80
40	40A40		3/4	2.40	40B40		3/4	2	3	1 1/8	4.10
42	40A42		3/4	2.60	40B42		3/4	2	3	1 1/8	4.30
44	40A44		3/4	2.90	40B44		3/4	2	3	1 1/8	4.60
45	40A45		3/4	3.00	40B45		3/4	2	3	1 1/8	4.70
46	40A46		3/4	3.10	40B46		3/4	2	3	1 1/8	4.90
47	40A47		3/4	3.30	40B47		3/4	2	3	1 1/8	5.10
48	40A48		3/4	3.40	40B48		3/4	2	3	1 1/8	5.20
50	40A50		3/4	3.70	40B50		3/4	2	3	1 1/8	5.40
54	40A54		3/4	4.30	40B54		3/4	2	3	1 1/8	6.00
60	40A60		3/4	5.30	40B60		3/4	2	3	1 1/8	7.00
70	40A70		1	7.20	40B70		1	2	3	1 1/8	8.90
72	40A72		1	7.70	40B72		1	2	3	1 1/8	9.50
80	40A80		1	9.50	40B80		1	2	3	1 1/8	11.20
84	40A84		1	10.40	40B84		1	2	3	1 1/8	12.10
96	40A96		1	13.70	40B96		1	2	3	1 1/8	15.40
112	40A112		1	18.60	40B112		1	2	3	1 1/8	20.30

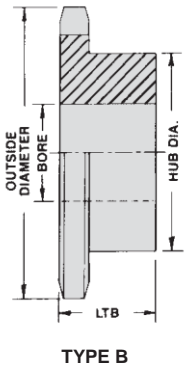
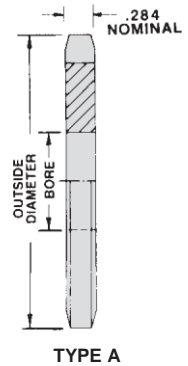
SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

▲ Has recessed groove in hub for chain clearance †Dimensions shown allow for standard keyway with set screw at 90°

Note: Consult U.S. Tsubaki for availability of No. 41 Plain Bore Sprockets.

## CHAIN TECHNICAL DATA

Size	40
Pitch	1/2"
Inside Width	5/16"
Roller Diameter	.312"



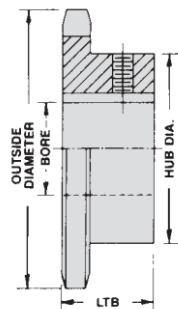
# No. 40

## 1/2" Pitch — Finished Bore

Dimensions are in inches unless otherwise indicated.

Type F Bored to Size							Sprocket Diameters 1/2" Pitch		
No. Teeth	Catalog Number	List Price	Available Bores (Includes Standard KW & 2SS)				Outside Diameter	Pitch Diameter	Caliper Diameter
9	40B9F		1/2, 5/8				1.674	1.462	1.127
10	40B10F		1/2, 5/8, 3/4				1.839	1.618	1.305
11	40B11F		1/2, 5/8, 3/4, 7/8				2.003	1.775	1.444
12	40B12F		1/2, 5/8, 3/4, 7/8, 1				2.166	1.932	1.620
13	40B13F		1/2, 5/8, 3/4, 7/8, 1				2.328	2.089	1.761
14	40B14F		1/2, 5/8, 3/4, 7/8, 1				2.490	2.247	1.934
15	40B15F		1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16 ●, 1 1/4 ●				2.652	2.405	2.079
16	40B16F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4				2.814	2.563	2.250
17	40B17F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4				2.974	2.721	2.397
18	40B18F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16 ●, 1 1/2 ●				3.136	2.879	2.567
19	40B19F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				3.292	3.038	2.715
20	40B20F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				3.457	3.196	2.883
21	40B21F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				3.618	3.355	3.033
22	40B22F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				3.778	3.513	3.201
23	40B23F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				3.938	3.672	3.351
24	40B24F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				4.098	3.831	3.518
25	40B25F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				4.258	3.989	3.669
26	40B26F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				4.418	4.148	3.835
27	40B27F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				4.578	4.307	3.987
28	40B28F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				4.738	4.465	4.153
30	40B30F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				5.057	4.783	4.471
32	40B32F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				5.376	5.101	4.788
34	40B34F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				5.696	5.419	5.107
35	40B35F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				5.856	5.578	5.260
36	40B36F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				6.015	5.737	5.425
38	40B38F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				6.334	6.055	5.742
40	40B40F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				6.653	6.373	6.061
42	40B42F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				6.972	6.691	6.379
45	40B45F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				7.450	7.168	6.851
48	40B48F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				7.928	7.645	7.332
49	40B49F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				8.088	7.804	7.487
50	40B50F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				8.248	7.963	7.650
54	40B54F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				8.884	8.599	8.286
60	40B60F		5/8, 3/4, 7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 7/16, 1 1/2				9.840	9.554	9.241

● Indicates set screw at 90° and 180° from keyway  
 Note: Consult U.S. Tsubaki for availability of No. 41 Finished Bore Sprockets.



TYPE B

### CHAIN TECHNICAL DATA

Size	40
Pitch	1/2"
Inside Width	5/16"
Roller Diameter	.312"

# 1/2" Pitch — Stainless Steel



Dimensions are in inches unless otherwise indicated.

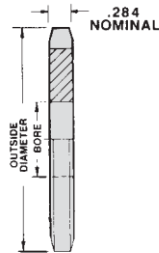
Single — Type B — Stainless Steel									Single — Type A			
No. Teeth	Outside Diameter	Catalog Number	List Price	Plain Bore	Max. Bore	Hub Dia.	LTB	Wt. Lbs.	Catalog Number	List Price	Stock Bore	Wt. Lbs.
10	1.840	40B10SS		1/2	3/4	1 1/4 ▲	7/8	.28				
11	2.000	40B11SS		1/2	13/16	1 3/8 ▲	7/8	.36				
12	2.170	40B12SS		1/2	15/16	1 9/16 ▲	7/8	.44				
13	2.330	40B13SS		1/2	1 1/16	1 7/8	7/8	.50				
14	2.490	40B14SS		1/2	1 1/8	1 11/16	7/8	.60				
15	2.650	40B15SS		1/2	1 1/4	1 13/16	7/8	.68				
16	2.810	40B16SS		5/8	1 3/8	2	7/8	.82				
17	2.980	40B17SS		5/8	1 7/16	2 1/8	1	1.20				
18	3.140	40B18SS		5/8	1 1/2	2 5/16	1	1.24				
19	3.300	40B19SS		5/8	1 3/4	2 1/2	1	1.42				
20	3.460	40B20SS		5/8	1 7/8	2 5/8	1	1.60				
21	3.620	40B21SS		5/8	1 7/8	2 3/4	1	1.68				
22	3.780	40B22SS		5/8	1 7/8	2 7/8	1	1.81				
23	3.940	40B23SS		5/8	2	3	1	2.18				
24	4.100	40B24SS		5/8	2	3	1	2.20	40A24SS	\$251.20	1 9/32	.80
25	4.260	40B25SS		5/8	2	3	1	2.39	40A25SS	266.80	1 9/32	.90
26	4.420	40B26SS		5/8	2	3	1	2.40	40A26SS	302.60	1 9/32	1.30
28	4.740	40B28SS		5/8	2	3	1	2.75	40A28SS	327.00	1 9/32	1.30
30	5.060	40B30SS		5/8	2	3	1	2.88	40A30SS	402.80	1 9/32	1.30
35	5.860	40B35SS		5/8	2	3	1	3.32	40A35SS	431.60	1 9/32	1.90
40	6.650	40B40SS		5/8	2	3	1	4.28	40A40SS	516.20	1 9/32	2.30
45	7.450	40B45SS		5/8	2	3	1	4.68	40A45SS	551.80	1 9/32	3.10
60	9.840	40B60SS		5/8	2	3	1	7.00	40A60SS	640.80	1 9/32	5.50

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

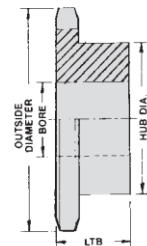
▲ Has recessed groove in hub for chain clearance

## CHAIN TECHNICAL DATA

Size	40SS
Pitch	1/2"
Inside Width	5/16"
Roller Diameter	.312"



TYPE A



TYPE B

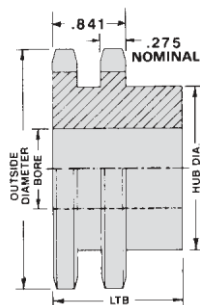
# No. 40 <sup>1</sup>/<sub>2</sub>" Pitch — Multiple Strand

Dimensions are in inches unless otherwise indicated.

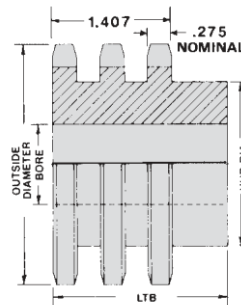
Basic Sprocket Dimensions			40-2 Double Strand					40-3 Triple Strand						
No. Teeth	Outside Diameter	Plain Bore	Catalog Number	List Price	Hub Dia.	LTB	†Max. Bore	Wt. Lbs.	Catalog Number	List Price	Hub Dia.	LTB	†Max. Bore	Wt. Lbs.
11	2.003	1/2	D40B11		1 1/16	1 1/2	3/4	.60	T40B11		1 1/16	2 1/8	3/4	.80
12	2.166	1/2	D40B12		1 1/16	1 1/2	7/8	.70	T40B12		1 1/16	2 1/8	7/8	1.10
13	2.328	1/2	D40B13		1 1/2	1 1/2	1	.80	T40B13		1 1/2	2 1/8	1	1.20
14	2.490	1/2	D40B14		1 21/32	1 1/2	1 1/8	1.00	T40B14		1 21/32	2 1/8	1 1/8	1.50
15	2.650	1/2	D40B15		1 13/16	1 1/2	1 1/4	1.20	T40B15		1 13/16	2 1/8	1 1/4	1.70
16	2.814	5/8	D40B16		1 31/32	1 1/2	1 3/8	1.40	T40B16		1 31/32	2 1/8	1 3/8	2.00
17	2.974	5/8	D40B17		2 5/32	1 1/2	1 7/16	1.60	T40B17		2 5/32	2 1/8	1 7/16	2.40
18	3.136	5/8	D40B18		2 5/16	1 1/2	1 1/2	1.90	T40B18		2 5/16	2 1/8	1 1/2	2.70
19	3.292	5/8	D40B19		2 15/32	1 1/2	1 5/8	2.10	T40B19		2 15/32	2 1/8	1 5/8	3.10
20	3.457	5/8	D40B20		2 5/8	1 5/8	1 3/4	2.60	T40B20		2 5/8	2 1/4	1 3/4	3.70
21	3.618	5/8	D40B21		2 25/32	1 5/8	1 7/8	2.90	T40B21		2 25/32	2 1/4	1 7/8	4.10
22	3.778	5/8	D40B22		2 15/16	1 5/8	1 7/8	3.30	T40B22		2 15/16	2 1/4	1 7/8	4.60
23	3.938	5/8	D40B23		3 3/32	1 5/8	2	3.60	T40B23		3 3/32	2 1/4	2	5.10
24	4.098	5/8	D40B24		3 3/32	1 5/8	2 1/4	4.00	T40B24		3 3/32	2 1/4	2 1/4	5.60
25	4.258	5/8	D40B25		3 7/16	1 5/8	2 1/4	4.40	T40B25		3 7/16	2 1/4	2 1/4	6.20
26	4.418	5/8	D40B26		3 19/32	1 5/8	2 3/8	4.80	T40B26		3 19/32	2 1/4	2 3/8	6.80
30	5.057	1 1/16	D40B30		3 1/4	1 5/8	2 1/4	5.60	T40B30		3 1/4	2 1/4	2 1/4	8.00
35	5.856	1 1/16	D40B35		3 1/4	1 5/8	2 1/4	7.10	T40B35		3 1/4	2 1/4	2 1/4	10.50
36	6.015	1 5/16	D40B36		3 3/4	1 3/4	2 1/2	9.40	T40B36		3 3/4	2 3/8	2 1/2	12.20
40	6.653	1 5/16	D40B40		3 3/4	1 3/4	2 1/2	10.80						
45	7.450	1 5/16	D40B45		3 3/4	1 3/4	2 1/2	12.90						
48	7.928	1 5/16	D40B48		3 3/4	1 3/4	2 1/2	14.20						
54	8.884	1 5/16	D40B54		3 3/4	1 3/4	2 1/2	17.20						
60	9.840	1 5/16	D40B60		3 3/4	1 3/4	2 1/2	20.60						

† Dimensions shown allow for standard keyway with set screw at 90°

▲ Has recessed groove in hub for chain clearance



TYPE B



TYPE B

### CHAIN TECHNICAL DATA

Size	40-2, 40-3
Pitch	1/2"
Inside Width	5/16"
Roller Diameter	.312"

# 1/2" Pitch — TAPER-LOCK®



Dimensions are in inches unless otherwise indicated.

Type B TAPER-LOCK®								
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
14	2.491	40BTL14		1008	1	1 <sup>13</sup> / <sub>16</sub> ▲	7/8	.30
15	2.652	40BTL15		1008	1	1 <sup>13</sup> / <sub>16</sub>	7/8	.40
16	2.814	40BTL16		1008	1	1 <sup>15</sup> / <sub>16</sub>	7/8	.50
17	2.975	40BTL17		1210	1 1/4	2 <sup>3</sup> / <sub>8</sub> ▲	1	.50
18	3.135	40BTL18		1210	1 1/4	2 <sup>15</sup> / <sub>32</sub> ▲	1	.60
19	3.296	40BTL19		1210	1 1/4	2 <sup>15</sup> / <sub>32</sub>	1	.70
20	3.457	40BTL20		1610	1 5/8	2 <sup>25</sup> / <sub>32</sub> ▲	1	.70
21	3.617	40BTL21		1610	1 5/8	2 <sup>25</sup> / <sub>32</sub>	1	.80
22	3.778	40BTL22		1610	1 5/8	2 <sup>25</sup> / <sub>32</sub>	1	.90
23	3.938	40BTL23		1610	1 5/8	3	1	1.00
24	4.098	40BTL24		1610	1 5/8	3 1/4	1	1.40
25	4.258	40BTL25		1610	1 5/8	3 1/4	1	1.50
26	4.418	40BTL26		1610	1 5/8	3 1/4	1	1.70
28	4.738	40BTL28		1610	1 5/8	3	1	1.80
30	5.057	40BTL30		1610	1 5/8	3	1	1.90
32	5.377	40BTL32		1610	1 5/8	3	1	1.90
35	5.855	40BTL35		1610	1 5/8	3	1	2.30
36	6.015	40BTL36		1610	1 5/8	3	1	2.40
40	6.653	40BTL40		1610	1 5/8	3	1	2.80
42	6.972	40BTL42		1610	1 5/8	3	1	2.90
45	7.451	40BTL45		1610	1 5/8	3	1	3.50
48	7.928	40BTL48		1610	1 5/8	3	1	4.00
54	8.885	40BTL54		1610	1 5/8	3	1	4.90
60	9.841	40BTL60		1610	1 5/8	3	1	6.00
70	11.434	40BTL70		2012	2	3 5/8	1 1/4	8.20
72	11.752	40BTL72		2012	2	3 5/8	1 1/4	9.00
80	13.026	40BTL80		2012	2	3 5/8	1 1/4	10.80
84	13.663	40BTL84		2012	2	3 5/8	1 1/4	11.30
96	15.573	40BTL96		2012	2	3 5/8	1 1/4	14.60
112	18.122	40BTL112		2517	2 1/2	4 1/4	1 3/4	20.50

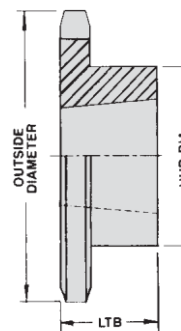
▲ Has recessed groove in hub for chain clearance

Note: Consult U.S. Tsubaki for availability of No. 41 TAPER-LOCK Sprockets.

TAPER-LOCK® is a registered trademark of Rockwell Automation.

## CHAIN TECHNICAL DATA

Size	40
Pitch	1/2"
Inside Width	5/16"
Roller Diameter	.312"



TYPE B



# No. 40 <sup>1</sup>/<sub>2</sub>" Pitch — TAPER-LOCK®

Dimensions are in inches unless otherwise indicated.

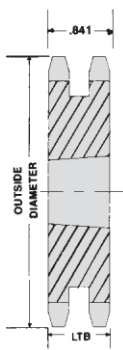
Double TAPER-LOCK®								
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
15	2.652	D40ATL15		1008	1	1 <sup>17</sup> / <sub>64</sub>	<sup>7</sup> / <sub>8</sub>	.50
16	2.814	D40ATL16		1008	1	1 <sup>17</sup> / <sub>64</sub>	<sup>7</sup> / <sub>8</sub>	.60
17	2.975	D40ATL17		1008	1	1 <sup>17</sup> / <sub>64</sub>	<sup>7</sup> / <sub>8</sub>	.80
18	3.135	D40BTL18		1210	1 <sup>1</sup> / <sub>4</sub>	2 <sup>9</sup> / <sub>16</sub>	1	.70
19	3.296	D40BTL19		1210	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	1	.90
20	3.457	D40BTL20		1610	1 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	1	.70
21	3.617	D40BTL21		1610	1 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	1	.90
23	3.938	D40BTL23		1610	1 <sup>5</sup> / <sub>8</sub>	3	1	1.30
25	4.258	D40BTL25		2012	2	3 <sup>13</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>4</sub>	1.70
30	5.057	D40BTL30		2012	2	4 <sup>15</sup> / <sub>64</sub>	1 <sup>1</sup> / <sub>4</sub>	3.40
36	6.015	D40BTL36		2012	2	5 <sup>5</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>4</sub>	6.00
42	6.972	D40CTL42		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	7.00
48	7.928	D40CTL48		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	9.60

Dimensions are in inches unless otherwise indicated.

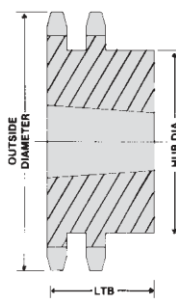
TAPER-LOCK® Bushings			
Bushing	List Price	Bore Range	Wt. Lbs.
1008		<sup>1</sup> / <sub>2</sub> — 1	.20
1210		<sup>1</sup> / <sub>2</sub> — 1 <sup>1</sup> / <sub>4</sub>	.50
1610		<sup>1</sup> / <sub>2</sub> — 1 <sup>5</sup> / <sub>8</sub>	.70
2012		<sup>1</sup> / <sub>2</sub> — 2	1.40
2517		<sup>1</sup> / <sub>2</sub> — 2 <sup>1</sup> / <sub>2</sub>	3.20

Refer to page 69 for bushing specifications

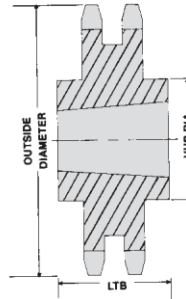
TAPER-LOCK® is a registered trademark of Rockwell Automation.



TYPE A



TYPE B



TYPE C

### CHAIN TECHNICAL DATA

Size	40
Pitch	<sup>1</sup> / <sub>2</sub> "
Inside Width	<sup>5</sup> / <sub>16</sub> "
Roller Diameter	.312"

# 1/2" Pitch — QD®



Dimensions are in inches unless otherwise indicated.

40 QD® 1/2" Pitch													
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Type	Hub Dia.	LTB	X	Y	L	F	Wt. Lbs.
15	2.652	40JA15		JA	1 1/4	B	2 1/16	9/16	1	1	19/32	2	.30
16	2.814	40JA16		JA	1 1/4	B	2 1/16	9/16	1	1	19/32	2	.40
17	2.974	40JA17		JA	1 1/4	B	2 3/16	9/16	1	1	19/32	2	.50
18	3.136	40JA18		JA	1 1/4	B	2 1/4	9/16	1	1	19/32	2	.50
19	3.292	40JA19		JA	1 1/4	B	2 1/4	9/16	1	1	19/32	2	.60
20	3.457	40SH20		SH	1 11/16	B	2 3/4	13/16	1 3/8	1 3/8	29/32	2 11/16	.60
21	3.618	40SH21		SH	1 11/16	B	2 3/4	13/16	1 3/8	1 3/8	29/32	2 11/16	.80
22	3.778	40SH22		SH	1 11/16	B	3	13/16	1 3/8	1 3/8	29/32	2 11/16	1.10
23	3.938	40SH23		SH	1 11/16	B	3	13/16	1 3/8	1 3/8	29/32	2 11/16	1.10
24	4.098	40SH24		SH	1 11/16	B	3	13/16	1 3/8	1 3/8	29/32	2 11/16	1.20
25	4.258	40SH25		SH	1 11/16	B	3	13/16	1 3/8	1 3/8	29/32	2 11/16	1.30
26	4.418	40SH26		SH	1 11/16	B	3	13/16	1 3/8	1 3/8	29/32	2 11/16	1.40
27	4.578	40SH27		SH	1 11/16	B	3	13/16	1 3/8	1 3/8	29/32	2 11/16	1.50
28	4.738	40SH28		SH	1 11/16	B	3	13/16	1 3/8	1 3/8	29/32	2 11/16	1.60
30	5.057	40SH30		SH	1 11/16	B	3	13/16	1 3/8	1 3/8	29/32	2 11/16	1.70
32	5.376	40SH32		SH	1 11/16	B	3	13/16	1 3/8	1 3/8	29/32	2 11/16	1.90
35	5.856	40SH35		SH	1 11/16	B	3	13/16	1 3/8	1 3/8	29/32	2 11/16	2.20
36	6.015	40SDS36		SDS	2	B	3 1/2	3/4	1 7/16	1 7/16	31/32	3 3/16	2.30
40	6.653	40SDS40		SDS	2	B	3 1/2	3/4	1 7/16	1 7/16	31/32	3 3/16	2.80
42	6.972	40SDS42		SDS	2	B	3 1/2	3/4	1 7/16	1 7/16	31/32	3 3/16	3.00
45	7.450	40SDS45		SDS	2	B	3 1/2	3/4	1 7/16	1 7/16	31/32	3 3/16	3.40
48	7.928	40SDS48		SDS	2	B	3 1/2	3/4	1 7/16	1 7/16	31/32	3 3/16	3.90
54	8.884	40SDS54		SDS	2	B	3 1/2	3/4	1 7/16	1 7/16	31/32	3 3/16	4.70
60	9.840	40SDS60		SDS	2	B	3 1/2	3/4	1 7/16	1 7/16	31/32	3 3/16	5.80
70	11.433	40SK70		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 17/32	3 7/8	9.00
72	11.752	40SK72		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 17/32	3 7/8	9.10
80	13.026	40SK80		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 17/32	3 7/8	11.10
84	13.663	40SK84		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 17/32	3 7/8	11.60
96	15.573	40SK96		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 17/32	3 7/8	15.30
112	18.121	40SK112		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 17/32	3 7/8	19.50

QD® is a registered trademark of and is used under license from Emerson Power Transmission Manufacturing, L.P.

Dimensions are in inches unless otherwise indicated.

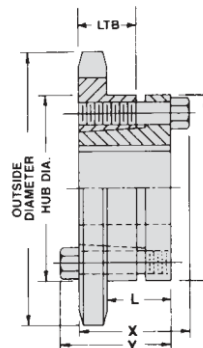
Note: Consult U.S. Tsubaki for availability of No. 41 QD Sprockets.

QD® Bushings					
Bushing	List Price	Bore Range		No Keyway	Wt. Lbs.
		Standard Keyway	Shallow Keyway		
JA		1/2 — 1	1/16 — 13/16	1 1/4	.80
SH		1/2 — 1 3/8	7/16 — 1 5/8	1 11/16	.70
SDS		1/2 — 1 11/16	3/4 — 1 5/16	2	1.00
SK		1/2 — 2 1/8	2 3/16 — 2 1/2	2 9/16 — 2 5/8	2.10

Refer to page 72 for bushing specifications

## CHAIN TECHNICAL DATA

Size	40
Pitch	1/2"
Inside Width	5/16"
Roller Diameter	.312"



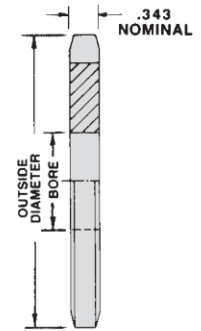
TYPE B

# No. 50 $\frac{5}{8}$ " Pitch — Plain Bore

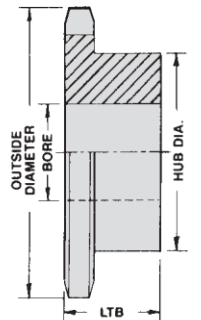
Dimensions are in inches unless otherwise indicated.

Type A					Type B Plain Bore						
No. Teeth	Catalog Number	List Price	Plain Bore	Wt. Lbs.	Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.
8					50B8		$\frac{5}{8}$	$\frac{3}{4}$	$1\frac{1}{8}$ ▲	1	.25
9					50B9		$\frac{5}{8}$	$\frac{3}{4}$	$1\frac{3}{8}$ ▲	1	.43
10					50B10		$\frac{5}{8}$	1	$1\frac{9}{16}$ ▲	1	.49
11					50B11		$\frac{5}{8}$	1	$1\frac{13}{16}$ ▲	1	.64
12	50A12		$\frac{5}{8}$	.33	50B12		$\frac{5}{8}$	$1\frac{1}{4}$	2 ▲	1	.81
13	50A13		$\frac{5}{8}$	.42	50B13		$\frac{5}{8}$	$1\frac{1}{4}$	2 ▲	1	.92
14	50A14		$\frac{5}{8}$	.48	50B14		$\frac{5}{8}$	$1\frac{1}{4}$	$2\frac{1}{8}$ ▲	1	1.00
15	50A15		$\frac{5}{8}$	.54	50B15		$\frac{5}{8}$	$1\frac{1}{2}$	$2\frac{3}{8}$ ▲	1	1.20
16	50A16		$\frac{5}{8}$	.67	50B16		$\frac{5}{8}$	$1\frac{9}{16}$	$2\frac{1}{2}$ ▲	1	1.40
17	50A17		$\frac{5}{8}$	.71	50B17		$\frac{5}{8}$	$1\frac{7}{8}$	$2\frac{1}{16}$ ▲	1	1.80
18	50A18		$\frac{5}{8}$	.82	50B18		$\frac{5}{8}$	$1\frac{7}{8}$	$2\frac{3}{8}$ ▲	$1\frac{1}{8}$	2.20
19	50A19		$\frac{5}{8}$	.94	50B19		$\frac{5}{8}$	2	3 ▲	$1\frac{1}{8}$	2.50
20	50A20		$\frac{5}{8}$	1.00	50B20		$\frac{5}{8}$	2	3 ▲	$1\frac{1}{8}$	2.70
21	50A21		$\frac{3}{4}$	1.10	50B21		$\frac{3}{4}$	2	3 ▲	$1\frac{1}{4}$	2.90
22	50A22		$\frac{3}{4}$	1.30	50B22		$\frac{3}{4}$	2	3 ▲	$1\frac{1}{4}$	3.00
23	50A23		$\frac{3}{4}$	1.40	50B23		$\frac{3}{4}$	2	3 ▲	$1\frac{1}{4}$	3.10
24	50A24		$\frac{3}{4}$	1.50	50B24		$\frac{3}{4}$	2	3 ▲	$1\frac{1}{4}$	3.20
25	50A25		$\frac{3}{4}$	1.60	50B25		$\frac{3}{4}$	2	3 ▲	$1\frac{1}{4}$	3.30
26	50A26		$\frac{3}{4}$	1.80	50B26		$\frac{3}{4}$	2	3 ▲	$1\frac{1}{4}$	3.40
27	50A27		$\frac{3}{4}$	1.90	50B27		$\frac{3}{4}$	2	3 ▲	$1\frac{1}{4}$	3.60
28	50A28		$\frac{3}{4}$	2.10	50B28		$\frac{3}{4}$	2	3 ▲	$1\frac{1}{4}$	3.80
29	50A29		$\frac{3}{4}$	2.20	50B29		$\frac{3}{4}$	2	3 ▲	$1\frac{1}{4}$	3.90
30	50A30		$\frac{3}{4}$	2.30	50B30		$\frac{3}{4}$	2	3 ▲	$1\frac{1}{4}$	4.00
31	50A31		$\frac{3}{4}$	2.40	50B31		$\frac{3}{4}$	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	4.90
32	50A32		$\frac{3}{4}$	2.60	50B32		$\frac{3}{4}$	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	5.10
33	50A33		$\frac{3}{4}$	3.00	50B33		$\frac{3}{4}$	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	5.20
34	50A34		$\frac{3}{4}$	3.20	50B34		$\frac{3}{4}$	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	5.30
35	50A35		$\frac{3}{4}$	3.30	50B35		$\frac{3}{4}$	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	5.40
36	50A36		$\frac{3}{4}$	3.50	50B36		$\frac{3}{4}$	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	5.70
37	50A37		$\frac{3}{4}$	3.90	50B37		$\frac{3}{4}$	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	6.00
38	50A38		$\frac{3}{4}$	3.90	50B38		$\frac{3}{4}$	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	6.30
39	50A39		$\frac{3}{4}$	4.00	50B39		$\frac{3}{4}$	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	6.40
40	50A40		$\frac{3}{4}$	4.30	50B40		$\frac{3}{4}$	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	6.60
42	50A42		$\frac{3}{4}$	4.70	50B42		$\frac{3}{4}$	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	7.10
43	50A43		$\frac{3}{4}$	4.90	50B43		$\frac{3}{4}$	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	7.40
44	50A44		$\frac{3}{4}$	5.10	50B44		$\frac{3}{4}$	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	7.70
45	50A45		$\frac{3}{4}$	5.30	50B45		$\frac{3}{4}$	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	7.80
48	50A48		1	6.10	50B48		1	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	8.50
49	50A49		1	6.30	50B49		1	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	9.00
50	50A50		1	6.70	50B50		1	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	9.40
52	50A52		1	7.30	50B52		1	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	10.10
54	50A54		1	8.10	50B54		1	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	10.80
55	50A55		1	8.20	50B55		1	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	11.00
60	50A60		1	10.30	50B60		1	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	12.10
70	50A70		1	13.60	50B70		1	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	15.70
72	50A72		1	14.50	50B72		1	$2\frac{1}{8}$	$3\frac{1}{4}$ ▲	$1\frac{3}{8}$	16.40
80	50A80		1	18.40	50B80		1	$2\frac{3}{4}$	4 ▲	$1\frac{3}{8}$	22.80
84	50A84		1	19.30							
96	50A96		1	26.00							
112	50A112		1	36.40							

CHAIN TECHNICAL DATA	
Size	50
Pitch	$\frac{5}{8}$ "
Inside Width	$\frac{3}{8}$ "
Roller Diameter	.400"



TYPE A



TYPE B

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

▲ Has recessed groove in hub for chain clearance †Dimensions shown allow for standard keyway with set screw at 90°

# 5/8" Pitch — Finished Bore



Dimensions are in inches unless otherwise indicated.

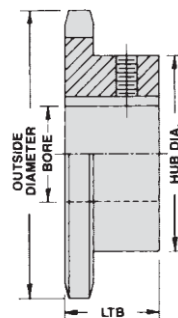
Type F Bored to Size						Sprocket Diameters		
No. Teeth	Catalog Number	List Price	Available Bores (Includes Standard KW & 2SS)			5/8" Pitch		
						Outside Diameter	Pitch Diameter	Caliper Diameter
9	50B9F		5/8,	3/4		2.093	1.828	1.400
10	50B10F		5/8,	3/4,	7/8, 1•	2.299	2.023	1.623
11	50B11F		5/8,	3/4,	7/8, 1	2.504	2.219	1.796
12	50B12F		5/8,	3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4	2.708	2.415	2.015
13	50B13F		5/8,	3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4	2.911	2.612	2.193
14	50B14F		5/8,	3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4	3.113	2.809	2.409
15	50B15F		5/8,	3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16	3.315	3.006	2.590
16	50B16F		5/8,	3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	3.517	3.204	2.804
17	50B17F		5/8,	3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	3.718	3.401	2.987
18	50B18F		5/8,	3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	3.919	3.599	3.199
19	50B19F		5/8,	3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	4.121	3.798	3.384
20	50B20F		5/8,	3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	4.321	3.995	3.595
21	50B21F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	4.522	4.194	3.782	
22	50B22F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	4.722	4.392	3.992	
23	50B23F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	4.923	4.590	4.179	
24	50B24F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	5.123	4.788	4.388	
25	50B25F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	5.323	4.987	4.577	
26	50B26F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	5.523	5.185	4.785	
27	50B27F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	5.723	5.384	4.975	
28	50B28F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	5.922	5.582	5.182	
29	50B29F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	6.122	5.781	5.371	
30	50B30F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2	6.321	5.979	5.579	
31	50B31F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	6.521	6.178	5.770	
32	50B32F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	6.721	6.376	5.976	
33	50B33F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	6.921	6.575	6.168	
34	50B34F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	7.120	6.774	6.374	
35	50B35F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	7.319	6.973	6.565	
36	50B36F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	7.519	7.171	6.771	
37	50B37F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	7.718	7.370	6.963	
38	50B38F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	7.918	7.569	7.169	
40	50B40F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	8.316	7.966	7.566	
42	50B42F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	8.715	8.364	7.964	
45	50B45F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	9.313	8.960	8.554	
48	50B48F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	9.911	9.556	9.156	
50	50B50F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	10.309	9.954	9.554	
55	50B55F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	11.305	10.948	10.543	
60	50B60F		3/4,	7/8, 1, 1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 7/16, 1 1/2, 1 3/4, 1 15/16	12.301	11.942	11.542	

Hub diameters may vary to suit bore sizes

- Indicates set screw at 90° and 180° from keyway

## CHAIN TECHNICAL DATA

Size	50
Pitch	5/8"
Inside Width	3/8"
Roller Diameter	.400"



TYPE B

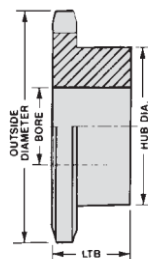
# No. 50 $\frac{5}{8}$ " Pitch — Stainless Steel

Dimensions are in inches unless otherwise indicated.

Single — Type B — Stainless Steel								
No. Teeth	Outside Diameter	Catalog Number	List Price	Plain Bore	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
10	2.300	50B10SS		$\frac{5}{8}$	$\frac{7}{8}$	1 $\frac{9}{16}$ ▲	1	.50
11	2.500	50B11SS		$\frac{5}{8}$	1	1 $\frac{3}{4}$ ▲	1	.60
12	2.710	50B12SS		$\frac{5}{8}$	1 $\frac{1}{4}$	1 $\frac{63}{64}$ ▲	1	.70
13	2.910	50B13SS		$\frac{5}{8}$	1 $\frac{1}{8}$	1 $\frac{7}{8}$	1	.80
14	3.110	50B14SS		$\frac{5}{8}$	1 $\frac{1}{8}$	2 $\frac{1}{8}$	1	1.00
15	3.320	50B15SS		$\frac{5}{8}$	1 $\frac{1}{2}$	2 $\frac{3}{8}$	1	1.30
16	3.520	50B16SS		$\frac{5}{8}$	1 $\frac{3}{4}$	2 $\frac{1}{2}$	1	1.50
17	3.720	50B17SS		$\frac{5}{8}$	1 $\frac{7}{8}$	2 $\frac{11}{16}$	1	1.80
18	3.920	50B18SS		$\frac{5}{8}$	1 $\frac{7}{8}$	2 $\frac{7}{8}$	1	2.00
19	4.120	50B19SS		$\frac{5}{8}$	1 $\frac{3}{4}$	2 $\frac{1}{2}$	1	2.30
20	4.320	50B20SS		$\frac{3}{4}$	1 $\frac{3}{4}$	2 $\frac{1}{2}$	1	2.50
21	4.520	50B21SS		$\frac{3}{4}$	2	3	1	2.70
22	4.720	50B22SS		$\frac{3}{4}$	2	3	1	3.30
23	4.920	50B23SS		$\frac{3}{4}$	2	3	1	3.80
24	5.120	50B24SS		$\frac{3}{4}$	2	3	1 $\frac{1}{4}$	4.10
25	5.320	50B25SS		$\frac{3}{4}$	2	3	1 $\frac{1}{4}$	4.30
26	5.520	50B26SS		$\frac{3}{4}$	2	3	1 $\frac{1}{4}$	4.60
28	5.920	50B28SS		$\frac{3}{4}$	2	3	1 $\frac{1}{4}$	5.00
30	6.320	50B30SS		$\frac{3}{4}$	2	3	1 $\frac{1}{4}$	5.20
35	7.320	50B35SS		$\frac{3}{4}$	2	3	1 $\frac{1}{4}$	6.50
40	8.320	50B40SS		$\frac{3}{4}$	2	3	1 $\frac{1}{4}$	7.80
45	9.310	50B45SS		$\frac{3}{4}$	2	3	1 $\frac{1}{4}$	8.50
60	12.300	50B60SS		$\frac{3}{4}$	2	3	1 $\frac{1}{4}$	14.00

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

▲ Has recessed groove in hub for chain clearance



TYPE B

### CHAIN TECHNICAL DATA

Size	50SS
Pitch	$\frac{5}{8}$ "
Inside Width	$\frac{3}{8}$ "
Roller Diameter	.400"

# 5/8" Pitch — Multiple Strand



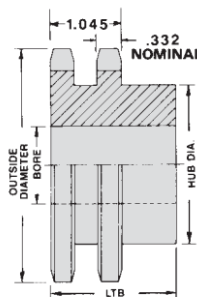
Dimensions are in inches unless otherwise indicated.

Basic Sprocket Dimensions			50-2 Double Strand					50-3 Triple Strand						
No. Teeth	Outside Diameter	Plain Bore	Catalog Number	List Price	Hub Dia.	LTB	†Max. Bore	Wt. Lbs.	Catalog Number	List Price	Hub Dia.	LTB	†Max. Bore	Wt. Lbs.
11	2.504	5/8	D50B11		1 <sup>15</sup> / <sub>32</sub>	1 <sup>3</sup> / <sub>4</sub>	1 <sup>5</sup> / <sub>16</sub>	.90	T50B11		1 <sup>15</sup> / <sub>32</sub>	2 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>16</sub>	1.40
12	2.708	5/8	D50B12		1 <sup>11</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	1.20	T50B12		1 <sup>11</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	1.80
13	2.911	5/8	D50B13		1 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	1 <sup>5</sup> / <sub>16</sub>	1.50	T50B13		1 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>16</sub>	2.20
14	3.113	5/8	D50B14		2 <sup>3</sup> / <sub>32</sub>	1 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	1.90	T50B14		2 <sup>3</sup> / <sub>32</sub>	2 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>8</sub>	2.70
15	3.315	5/8	D50B15		2 <sup>9</sup> / <sub>32</sub>	1 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2.30	T50B15		2 <sup>9</sup> / <sub>32</sub>	2 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	3.30
16	3.517	5/8	D50B16		2 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	1 <sup>5</sup> / <sub>8</sub>	2.70	T50B16		2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	3.80
17	3.718	5/8	D50B17		2 <sup>11</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>8</sub>	3.10	T50B17		2 <sup>11</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>2</sub>	1 <sup>7</sup> / <sub>8</sub>	4.50
18	3.919	5/8	D50B18		2 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	1 <sup>15</sup> / <sub>16</sub>	3.60	T50B18		2 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	1 <sup>15</sup> / <sub>16</sub>	5.70
19	4.121	5/8	D50B19		3 <sup>3</sup> / <sub>32</sub>	1 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	4.10	T50B19		3 <sup>3</sup> / <sub>32</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>8</sub>	5.90
20	4.321	5/8	D50B20		3 <sup>9</sup> / <sub>32</sub>	1 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	4.60	T50B20		3 <sup>9</sup> / <sub>32</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	6.90
21	4.522	3/4	D50B21		3 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>8</sub>	5.10	T50B21		3 <sup>1</sup> / <sub>2</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	7.60
22	4.722	3/4	D50B22		3 <sup>1</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	5.90	T50B22		3 <sup>1</sup> / <sub>16</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	8.30
23	4.923	3/4	D50B23		3 <sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	6.50	T50B23		3 <sup>3</sup> / <sub>4</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	9.20
24	5.123	3/4	D50B24		3 <sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	6.90	T50B24		3 <sup>3</sup> / <sub>4</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	9.90
25	5.323	1	D50B25		3 <sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	7.10	T50B25		3 <sup>3</sup> / <sub>4</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	10.40
26	5.523	1 <sup>1</sup> / <sub>16</sub>	D50B26		3 <sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	7.80	T50B26		3 <sup>3</sup> / <sub>4</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	11.20
30	6.321	1 <sup>5</sup> / <sub>16</sub>	D50B30		3 <sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	9.80	T50B30		3 <sup>3</sup> / <sub>4</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	14.40
32	6.721	1 <sup>5</sup> / <sub>16</sub>	D50B32		3 <sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	11.00						
35	7.319	1 <sup>5</sup> / <sub>16</sub>	D50B35		3 <sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	12.90	T50B35		3 <sup>3</sup> / <sub>4</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	19.20
36	7.519	1 <sup>5</sup> / <sub>16</sub>	D50B36		4	2 <sup>1</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	16.00	T50B36		4	2 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	21.80
40	8.316	1 <sup>5</sup> / <sub>16</sub>	D50B40		4	2 <sup>1</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	18.80						
42	8.715	1 <sup>5</sup> / <sub>16</sub>	D50B42		4	2 <sup>1</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	20.40						
45	9.313	1 <sup>5</sup> / <sub>16</sub>	D50B45		4	2 <sup>1</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	22.90						
48	9.911	1 <sup>5</sup> / <sub>16</sub>	D50B48		4 <sup>1</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	25.50						
52	10.708	1 <sup>5</sup> / <sub>16</sub>	D50B52		4 <sup>1</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	29.30						

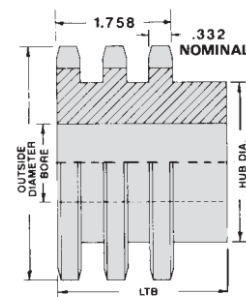
† Dimensions shown allow for standard keyway with set screw at 90°

## CHAIN TECHNICAL DATA

Size	50-2, 50-3
Pitch	5/8"
Inside Width	3/8"
Roller Diameter	.400"



TYPE B



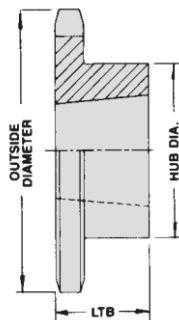
TYPE B

# No. 50 <sup>5</sup>/<sub>8</sub>" Pitch — TAPER-LOCK®

Dimensions are in inches unless otherwise indicated.

Type B TAPER-LOCK®								
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
12	2.708	50BTL12		1008	1 ▲	1 <sup>15</sup> / <sub>16</sub>	<sup>7</sup> / <sub>8</sub>	.50
13	2.911	50BTL13		1008	1	1 <sup>15</sup> / <sub>16</sub>	<sup>7</sup> / <sub>8</sub>	.50
14	3.113	50BTL14		1008	1	1 <sup>15</sup> / <sub>16</sub>	<sup>7</sup> / <sub>8</sub>	.60
15	3.315	50BTL15		1210	1 <sup>1</sup> / <sub>4</sub> ▲	2 <sup>15</sup> / <sub>32</sub>	1	.70
16	3.517	50BTL16		1610	1 <sup>5</sup> / <sub>8</sub> ▲	2 <sup>25</sup> / <sub>32</sub>	1	.70
17	3.719	50BTL17		1610	1 <sup>5</sup> / <sub>8</sub> ▲	2 <sup>25</sup> / <sub>32</sub>	1	.80
18	3.920	50BTL18		1610	1 <sup>5</sup> / <sub>8</sub>	2 <sup>25</sup> / <sub>32</sub>	1	.90
19	4.120	50BTL19		1610	1 <sup>5</sup> / <sub>8</sub>	3	1	1.30
20	4.321	50BTL20		1610	1 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub>	1	1.60
21	4.522	50BTL21		1610	1 <sup>5</sup> / <sub>8</sub>	3	1	1.50
22	4.722	50BTL22		1610	1 <sup>5</sup> / <sub>8</sub>	3	1	1.60
23	4.922	50BTL23		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2.00
24	5.122	50BTL24		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2.20
25	5.322	50BTL25		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2.40
26	5.522	50BTL26		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2.50
27	5.723	50BTL27		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2.60
28	5.922	50BTL28		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2.80
30	6.321	50BTL30		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	3.20
32	6.721	50BTL32		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	3.60
35	7.319	50BTL35		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	4.20
36	7.519	50BTL36		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	4.30
40	8.316	50BTL40		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	5.20
42	8.715	50BTL42		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	5.90
45	9.313	50BTL45		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	6.50
48	9.911	50BTL48		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	7.30
54	11.106	50BTL54		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	9.00
60	12.301	50BTL60		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	10.80
70	14.292	50BTL70		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	14.00
72	14.690	50BTL72		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	15.50
80	16.282	50BTL80		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	19.50
84	17.079	50BTL84		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	22.50
96	19.466	50BTL96		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	29.00
112	22.651	50BTL112		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	38.70

▲ Has recessed groove in hub for chain clearance  
TAPER-LOCK® is a registered trademark of Rockwell Automation.



TYPE B

### CHAIN TECHNICAL DATA

Size	50
Pitch	<sup>5</sup> / <sub>8</sub> "
Inside Width	<sup>3</sup> / <sub>8</sub> "
Roller Diameter	.400"

# 5/8" Pitch — TAPER-LOCK®



Dimensions are in inches unless otherwise indicated.

50 Double TAPER-LOCK®								
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
14	3.113	D50ATL14		1008	1		7/8	.90
15	3.315	D50ATL15		1210	1 1/4		1	.90
16	3.517	D50ATL16		1210	1 1/4		1	1.10
17	3.719	D50ATL17		1610	1 5/8		1	1.10
18	3.920	D50ATL18		1610	1 5/8		1	1.30
19	4.120	D50ATL19		1610	1 5/8		1	1.60
20	4.321	D50BTL20		2012	2	3/4	1 1/4	1.70
21	4.522	D50BTL21		2012	2	3/2	1 1/4	2.00
25	5.322	D50BTL25		2012	2	4 7/32	1 1/4	3.80
30	6.321	D50BTL30		2517	2 1/2	5 9/32	1 3/4	7.50
36	7.519	D50CTL36		2517	2 1/2	4 1/4	1 3/4	9.30
42	8.715	D50CTL42		2517	2 1/2	4 1/4	1 3/4	13.40
60	12.301	D50CTL60		2517	2 1/2	4 3/8	1 3/4	30.00

Dimensions are in inches unless otherwise indicated.

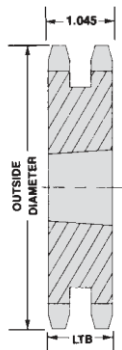
TAPER-LOCK® Bushings			
Bushing	List Price	Bore Range	Wt. Lbs.
1008		1/2 — 1	.20
1210		1/2 — 1 1/4	.50
1610		1/2 — 1 5/8	.70
2012		1/2 — 2	1.40
2517		1/2 — 2 1/2	3.20

Refer to page 69 for bushing specifications

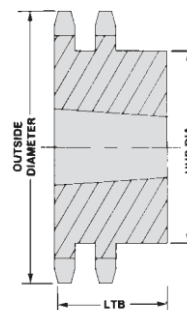
TAPER-LOCK® is a registered trademark of Rockwell Automation.

## CHAIN TECHNICAL DATA

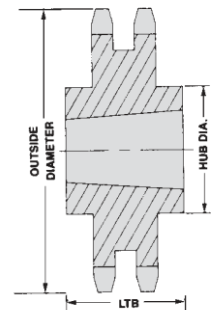
Size	50
Pitch	5/8"
Inside Width	3/8"
Roller Diameter	.400"



TYPE A



TYPE B



TYPE C



# No. 50 <sup>5</sup>/<sub>8</sub>" Pitch — QD®

Dimensions are in inches unless otherwise indicated.

50 QD® 5/8" Pitch													
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Type	Hub Dia.	LTB	X	Y	L	F	Wt. Lbs.
12	2.708	50JA12		JA	1¼	B	1 <sup>59</sup> / <sub>64</sub>	9/16	1	1	17/32	2	.30
13	2.911	50JA13		JA	1¼	B	2 <sup>1</sup> / <sub>16</sub>	9/16	1	1	17/32	2	.40
14	3.113	50JA14		JA	1¼	B	2 <sup>1</sup> / <sub>8</sub>	9/16	1	1	17/32	2	.50
15	3.315	50JA15		JA	1¼	B	2 <sup>1</sup> / <sub>4</sub>	9/16	1	1	17/32	2	.60
16	3.517	50JA16		JA	1¼	B	2 <sup>1</sup> / <sub>4</sub>	9/16	1	1	17/32	2	.70
17	3.718	50SH17		SH	1 <sup>11</sup> / <sub>16</sub>	B	2 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>32</sub>	2 <sup>11</sup> / <sub>16</sub>	.80
18	3.919	50SH18		SH	1 <sup>11</sup> / <sub>16</sub>	B	2 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>32</sub>	2 <sup>11</sup> / <sub>16</sub>	1.00
19	4.121	50SH19		SH	1 <sup>11</sup> / <sub>16</sub>	B	3	1 <sup>3</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>32</sub>	2 <sup>11</sup> / <sub>16</sub>	1.00
20	4.321	50SDS20		SDS	2	B	3 <sup>5</sup> / <sub>16</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	1.20
21	4.522	50SDS21		SDS	2	B	3 <sup>1</sup> / <sub>2</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	1.50
22	4.722	50SDS22		SDS	2	B	3 <sup>1</sup> / <sub>2</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	1.60
23	4.923	50SDS23		SDS	2	B	3 <sup>1</sup> / <sub>2</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	1.70
24	5.123	50SDS24		SDS	2	B	3 <sup>5</sup> / <sub>8</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	1.90
25	5.323	50SDS25		SDS	2	B	3 <sup>5</sup> / <sub>8</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	2.00
26	5.523	50SDS26		SDS	2	B	3 <sup>5</sup> / <sub>8</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	2.10
27	5.723	50SDS27		SDS	2	B	3 <sup>5</sup> / <sub>8</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	2.30
28	5.922	50SDS28		SDS	2	B	3 <sup>5</sup> / <sub>8</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	2.50
30	6.321	50SDS30		SDS	2	B	3 <sup>5</sup> / <sub>8</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	2.70
32	6.721	50SDS32		SDS	2	B	3 <sup>5</sup> / <sub>8</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	3.10
35	7.319	50SDS35		SDS	2	B	3 <sup>5</sup> / <sub>8</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	3.70
36	7.519	50SDS36		SDS	2	B	3 <sup>5</sup> / <sub>8</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	3.80
40	8.316	50SDS40		SDS	2	B	3 <sup>5</sup> / <sub>8</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	4.70
42	8.715	50SDS42		SDS	2	B	3 <sup>5</sup> / <sub>8</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	5.10
45	9.313	50SDS45		SDS	2	B	3 <sup>5</sup> / <sub>8</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	5.80
48	9.911	50SDS48		SDS	2	B	3 <sup>5</sup> / <sub>8</sub>	¾	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>16</sub>	6.90
54	11.106	50SK54		SK	2 <sup>5</sup> / <sub>8</sub>	B	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>8</sub>	10.20
60	12.301	50SK60		SK	2 <sup>5</sup> / <sub>8</sub>	B	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>8</sub>	11.30
70	14.292	50SK70		SK	2 <sup>5</sup> / <sub>8</sub>	B	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>8</sub>	14.70
72	14.690	50SK72		SK	2 <sup>5</sup> / <sub>8</sub>	B	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>8</sub>	15.60
80	16.283	50SF80		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	1 <sup>19</sup> / <sub>32</sub>	4 <sup>5</sup> / <sub>8</sub>	19.70
96	19.467	50SF96		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	1 <sup>19</sup> / <sub>32</sub>	4 <sup>5</sup> / <sub>8</sub>	27.60

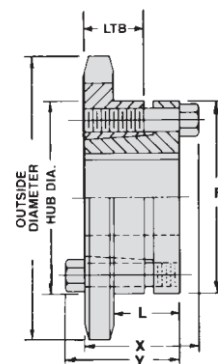
Dimensions are in inches unless otherwise indicated.

QD® Bushings					
Bushing	List Price	Bore Range		No Keyway	Wt. Lbs.
		Standard Keyway	Shallow Keyway		
JA	\$21.80	½ — 1	1/16 — 1 <sup>3</sup> / <sub>16</sub>	1¼	.80
SH	29.80	½ — 1 <sup>3</sup> / <sub>8</sub>	7/16 — 1 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	.70
SDS	34.60	½ — 1 <sup>11</sup> / <sub>16</sub>	¾ — 1 <sup>15</sup> / <sub>16</sub>	2	1.00
SK	53.60	½ — 2 <sup>1</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>16</sub> — 2 <sup>1</sup> / <sub>2</sub>	2 <sup>9</sup> / <sub>16</sub> — 2 <sup>5</sup> / <sub>8</sub>	2.10
SF	66.00	½ — 2 <sup>5</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub> — 2 <sup>13</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub> — 2 <sup>15</sup> / <sub>16</sub>	3.10

Refer to page 72 for bushing specifications

QD® is a registered trademark of and is used under license from Emerson Power Transmission Manufacturing, L.P.

CHAIN TECHNICAL DATA	
Size	50
Pitch	5/8"
Inside Width	3/8"
Roller Diameter	.400"



TYPE B

# 3/4" Pitch — Plain Bore



Dimensions are in inches unless otherwise indicated.

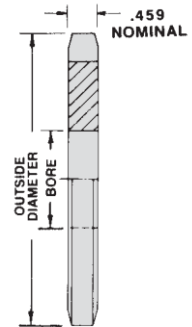
Type A					Type B Plain Bore						
No. Teeth	Catalog Number	List Price	Plain Bore	Wt. Lbs.	Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.
8					60B8		5/8	13/16	1 15/32 ▲	1 1/4	.80
9					60B9		3/4	1	1 1/16 ▲	1 1/4	.60
10	60A10		3/4	.45	60B10		3/4	1 1/16	1 15/16 ▲	1 1/4	.90
11	60A11		3/4	.56	60B11		3/4	1 1/16	2 1/16 ▲	1 1/4	1.30
12	60A12		3/4	.68	60B12		3/4	1 1/8	2 3/8 ▲	1 1/4	1.70
13	60A13		3/4	.82	60B13		3/4	1 1/2	2 11/32	1 1/4	1.80
14	60A14		3/4	.89	60B14		3/4	1 3/4	2 9/16	1 1/4	2.10
15	60A15		3/4	1.10	60B15		3/4	1 7/8	2 7/8	1 1/4	2.60
16	60A16		3/4	1.20	60B16		3/4	2	3 1/16	1 1/4	3.00
17	60A17		3/4	1.50	60B17		3/4	2 1/4	3 1/4	1 1/4	3.40
18	60A18		3/4	1.60	60B18		3/4	2 3/8	3 1/2	1 1/4	3.90
19	60A19		3/4	1.80	60B19		3/4	2 1/2	3 3/4	1 1/4	3.80
20	60A20		3/4	2.00	60B20		3/4	2 1/2	3 1/4	1 1/4	4.00
21	60A21		1	2.20	60B21		3/4	2 1/2	3 3/4	1 1/4	4.20
22	60A22		1	2.50	60B22		3/4	2 1/2	3 3/4	1 1/4	4.40
23	60A23		1	2.70	60B23		1	2 3/4	4	1 1/2	6.30
24	60A24		1	2.90	60B24		1	2 3/4	4	1 1/2	6.60
25	60A25		1	3.00	60B25		1	2 3/4	4	1 1/2	6.90
26	60A26		1	3.50	60B26		1	2 3/4	4	1 1/2	7.20
27	60A27		1	3.80	60B27		1	2 3/4	4	1 1/2	7.50
28	60A28		1	3.90	60B28		1	2 3/4	4	1 1/2	7.80
29	60A29		1	4.40	60B29		1	2 3/4	4	1 1/2	8.10
30	60A30		1	4.70	60B30		1	2 3/4	4	1 1/2	8.40
31	60A31		1	5.30	60B31		1	2 3/4	4	1 1/2	8.80
32	60A32		1	5.50	60B32		1	2 3/4	4	1 1/2	9.10
33	60A33		1	5.80	60B33		1	2 3/4	4	1 1/2	9.50
34	60A34		1	6.10	60B34		1	2 3/4	4	1 1/2	9.90
35	60A35		1	6.60	60B35		1	2 3/4	4	1 1/2	10.30
36	60A36		1	6.90	60B36		1	2 3/4	4	1 1/2	10.70
37	60A37		1	7.40	60B37		1	2 3/4	4	1 1/2	11.10
38	60A38		1	7.70	60B38		1	2 3/4	4	1 1/2	11.50
39	60A39		1	8.10	60B39		1	2 3/4	4	1 1/2	11.90
40	60A40		1	8.40	60B40		1	2 3/4	4	1 1/2	12.30
41	60A41		1	8.80	60B41		1	2 3/4	4	1 1/2	12.80
42	60A42		1	9.70	60B42		1	2 3/4	4	1 1/2	13.30
44	60A44		1	10.50	60B44		1	2 3/4	4	1 1/2	14.20
45	60A45		1	10.60	60B45		1	2 3/4	4	1 1/2	14.70
46	60A46		1	10.90	60B46		1	2 3/4	4	1 1/2	15.20
48	60A48		1	12.20	60B48		1	2 3/4	4	1 1/2	16.30
49	60A49		1	12.60	60B49		1	2 3/4	4	1 1/2	16.80
50	60A50		1	13.10	60B50		1	2 3/4	4	1 1/2	17.40
52	60A52		1 3/8	14.50	60B52		1 3/8	2 3/4	4 1/4	1 3/4	19.60
54	60A54		1 3/8	15.80	60B54		1 3/8	2 3/4	4 1/4	1 3/4	20.80
60	60A60		1 3/8	19.30	60B60		1 3/8	2 3/4	4 1/4	1 3/4	24.60
70	60A70		1 3/8	26.80	60B70		1 3/8	2 3/4	4 1/4	1 3/4	31.80
72	60A72		1 3/8	27.50	60B72		1 3/8	2 3/4	4 1/4	1 3/4	33.40
80	60A80		1 3/8	35.10	60B80		1 3/8	2 3/4	4 1/4	1 3/4	40.20
84	60A84		1 3/8	37.00	60B84		1 3/8	2 3/4	4 1/4	1 3/4	43.80
96	60A96		1 3/8	52.40	60B96		1 3/8	2 3/4	4 1/4	1 3/4	55.90
112	60A112		1 3/8	68.00	60B112		1 3/8	2 3/4	4 1/4	1 3/4	74.40

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

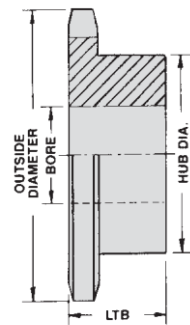
▲ Has recessed groove in hub for chain clearance †Dimensions shown allow for standard keyway with set screw at 90°

## CHAIN TECHNICAL DATA

Size	60
Pitch	3/4"
Inside Width	1/2"
Roller Diameter	.469"



TYPE A



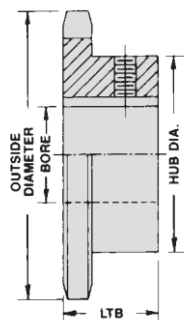
TYPE B

# No. 60 <sup>3</sup>/<sub>4</sub>" Pitch — Finished Bore

Dimensions are in inches unless otherwise indicated.

No. Teeth	Catalog Number	List Price	Type F Bored to Size		Sprocket Diameters <sup>3</sup> / <sub>4</sub> " Pitch		
			Available Bores (Includes Standard KW & 2SS)		Outside Diameter	Pitch Diameter	Caliper Diameter
9	60B9F		<sup>3</sup> / <sub>4</sub>	1	2.511	2.193	1.691
10	60B10F		<sup>5</sup> / <sub>8</sub> , <sup>3</sup> / <sub>4</sub> , <sup>7</sup> / <sub>8</sub>	1	2.759	2.427	1.958
11	60B11F		<sup>3</sup> / <sub>4</sub>	1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>1</sup> / <sub>4</sub> ●	3.005	2.663	2.166
12	60B12F		<sup>3</sup> / <sub>4</sub> , <sup>7</sup> / <sub>8</sub>	1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>1</sup> / <sub>4</sub> ●	3.249	2.898	2.429
13	60B13F		<sup>3</sup> / <sub>4</sub> , <sup>7</sup> / <sub>8</sub>	1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> ●, 1 <sup>7</sup> / <sub>16</sub> ●, 1 <sup>1</sup> / <sub>2</sub> ●	3.493	3.134	2.642
14	60B14F		<sup>3</sup> / <sub>4</sub> , <sup>7</sup> / <sub>8</sub>	1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> ●, 1 <sup>1</sup> / <sub>2</sub> ●	3.736	3.371	2.902
15	60B15F		<sup>3</sup> / <sub>4</sub> , <sup>7</sup> / <sub>8</sub>	1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> ●	3.978	3.608	3.119
16	60B16F		<sup>3</sup> / <sub>4</sub> , <sup>7</sup> / <sub>8</sub>	1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub> ●	4.220	3.845	3.375
17	60B17F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub> ●	4.462	4.082	3.595
18	60B18F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	4.703	4.319	3.850
19	60B19F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	4.945	4.557	4.072
20	60B20F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	5.186	4.794	4.325
21	60B21F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	5.426	5.033	4.549
22	60B22F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	5.666	5.270	4.801
23	60B23F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	5.907	5.508	5.026
24	60B24F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	6.147	5.746	5.277
25	60B25F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	6.387	5.984	5.503
26	60B26F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	6.627	6.222	5.753
27	60B27F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	6.867	6.461	5.980
28	60B28F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	7.106	6.698	6.229
29	60B29F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	7.346	6.937	6.458
30	60B30F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	7.586	7.175	6.706
31	60B31F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	7.826	7.413	6.935
32	60B32F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	8.065	7.652	7.183
33	60B33F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	8.305	7.890	7.412
35	60B35F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub>	8.783	8.367	7.889
36	60B36F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub> , 2, 2 <sup>3</sup> / <sub>16</sub> , 2 <sup>7</sup> / <sub>16</sub>	9.023	8.606	8.137
38	60B38F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub> , 2, 2 <sup>3</sup> / <sub>16</sub> , 2 <sup>7</sup> / <sub>16</sub>	9.501	9.083	8.614
40	60B40F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub> , 2, 2 <sup>3</sup> / <sub>16</sub> , 2 <sup>7</sup> / <sub>16</sub>	9.980	9.560	9.091
42	60B42F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub> , 2, 2 <sup>3</sup> / <sub>16</sub> , 2 <sup>7</sup> / <sub>16</sub>	10.458	10.037	9.568
45	60B45F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub> , 2, 2 <sup>3</sup> / <sub>16</sub> , 2 <sup>7</sup> / <sub>16</sub>	11.176	10.752	10.276
48	60B48F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub> , 2, 2 <sup>3</sup> / <sub>16</sub> , 2 <sup>7</sup> / <sub>16</sub>	11.893	11.468	10.999
54	60B54F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub> , 2, 2 <sup>3</sup> / <sub>16</sub> , 2 <sup>7</sup> / <sub>16</sub>	13.327	12.889	12.430
60	60B60F			1, 1 <sup>1</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>4</sub> , 1 <sup>3</sup> / <sub>8</sub> , 1 <sup>7</sup> / <sub>16</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>5</sup> / <sub>8</sub> , 1 <sup>3</sup> / <sub>4</sub> , 1 <sup>15</sup> / <sub>16</sub> , 2, 2 <sup>3</sup> / <sub>16</sub> , 2 <sup>7</sup> / <sub>16</sub>	14.761	14.330	13.861

● Indicates set screw at 90° and 180° from keyway  
Hub diameters may vary to suit bore sizes



TYPE B

### CHAIN TECHNICAL DATA

Size	60
Pitch	<sup>3</sup> / <sub>4</sub> "
Inside Width	<sup>1</sup> / <sub>2</sub> "
Roller Diameter	.469"

# 3/4" Pitch — Stainless Steel



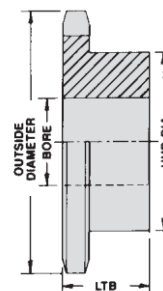
Dimensions are in inches unless otherwise indicated.

Single — Type B — Stainless Steel								
No. Teeth	Outside Diameter	Catalog Number	List Price	Plain Bore	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
12	3.250	60B12SS		3/4	1 3/8	2 3/8 ▲	1 1/4	1.50
13	3.490	60B13SS		3/4	1 3/8	2 11/32	1 1/4	1.80
14	3.740	60B14SS		3/4	1 3/4	2 9/16	1 1/4	2.00
15	3.980	60B15SS		3/4	1 7/8	2 7/8	1 1/4	2.40
16	4.220	60B16SS		3/4	2	3 1/16	1 1/4	2.80
17	4.466	60B17SS		3/4	2 1/4	3 1/4	1 1/4	3.30
18	4.700	60B18SS		3/4	2	3	1 1/4	3.80
19	4.950	60B19SS		3/4	2	3	1 1/4	4.00
20	5.190	60B20SS		3/4	2	3	1 1/4	4.60
21	5.430	60B21SS		3/4	2	3	1 1/4	5.00
22	5.670	60B22SS		3/4	2	3	1 1/4	5.30
23	5.910	60B23SS		3/4	2	3	1 1/4	5.70
24	6.150	60B24SS		3/4	2	3	1 1/4	5.90
25	6.390	60B25SS		3/4	2	3	1 1/4	6.10
26	6.630	60B26SS		3/4	2	3	1 1/4	6.30
28	7.110	60B28SS		3/4	2 3/8	3 1/2	1 1/4	6.70
30	7.590	60B30SS		3/4	2 3/8	3 1/2	1 1/4	7.00
35	8.780	60B35SS		3/4	2 3/8	3 1/2	1 1/4	9.00
40	9.980	60B40SS		3/4	2 3/8	3 1/2	1 1/4	11.70
45	11.180	60B45SS		3/4	2 3/8	3 1/2	1 1/4	14.50
60	14.760	60B60SS		3/4	2 3/8	3 1/2	1 1/4	25.00

▲ Has recessed groove in hub for chain clearance

## CHAIN TECHNICAL DATA

Size	60SS
Pitch	3/4"
Inside Width	1/2"
Roller Diameter	.469"



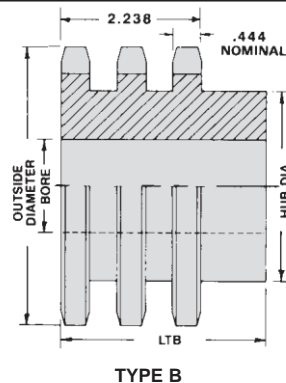
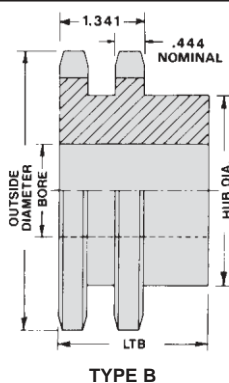
TYPE B

# No. 60 <sup>3</sup>/<sub>4</sub>" Pitch — Multiple Strand

Dimensions are in inches unless otherwise indicated.

Basic Sprocket Dimensions			60-2 Double Strand					60-3 Triple Strand						
No. Teeth	Outside Diameter	Plain Bore	Catalog Number	List Price	Hub Dia.	LTB	†Max. Bore	Wt. Lbs.	Catalog Number	List Price	Hub Dia.	LTB	†Max. Bore	Wt. Lbs.
11	3.005	3/4	D60B11		1 <sup>25</sup> / <sub>32</sub>	2 1/8	1 1/16	1.80	T60B11		1 <sup>25</sup> / <sub>32</sub>	3	1 1/16	2.60
12	3.249	3/4	D60B12		2 <sup>1</sup> / <sub>32</sub>	2 1/8	1 3/8	2.30	T60B12		2 <sup>1</sup> / <sub>32</sub>	3	1 3/8	3.30
13	3.493	3/4	D60B13		2 1/4	2 1/8	1 1/2	2.80	T60B13		2 1/4	3	1 1/2	4.10
14	3.736	3/4	D60B14		2 1/2	2 1/8	1 3/4	3.50	T60B14		2 1/2	3	1 3/4	4.90
15	3.978	3/4	D60B15		2 3/4	2 1/8	1 7/8	4.10	T60B15		2 3/4	3	1 7/8	5.90
16	4.220	3/4	D60B16		3	2 1/8	2	4.80	T60B16		3	3	2	6.90
17	4.462	3/4	D60B17		3 <sup>3</sup> / <sub>32</sub>	2 1/8	2 1/4	5.60	T60B17		3 <sup>3</sup> / <sub>32</sub>	3	2 1/4	8.00
18	4.703	1	D60B18		3 <sup>7</sup> / <sub>16</sub>	2 1/8	2 3/8	6.20	T60B18		3 <sup>7</sup> / <sub>16</sub>	3	2 3/8	8.80
19	4.945	1	D60B19		3 <sup>11</sup> / <sub>16</sub>	2 1/8	2 1/2	7.00	T60B19		3 <sup>11</sup> / <sub>16</sub>	3	2 1/2	10.00
20	5.186	1	D60B20		3 3/4	2 1/8	2 1/2	7.70	T60B20		3 3/4	3	2 1/2	11.10
21	5.426	1	D60B21		4 1/8	2 1/8	2 3/4	8.90	T60B21		4 1/8	3	2 3/4	12.70
22	5.666	1	D60B22		4 1/4	2 1/8	2 3/4	9.70	T60B22		4 1/4	3	2 3/4	14.00
23	5.907	1	D60B23		4 1/4	2 1/8	2 3/4	10.40	T60B23		4 1/4	3	2 3/4	15.10
24	6.147	1	D60B24		4 1/4	2 1/8	2 3/4	11.10	T60B24		4 1/4	3	2 3/4	16.30
25	6.387	1	D60B25		4 1/4	2 1/8	2 3/4	12.00	T60B25		4 1/4	3	2 3/4	17.70
26	6.627	1 1/16	D60B26		4 1/4	2 1/8	2 3/4	13.00	T60B26		4 1/4	3	2 3/4	18.20
30	7.586	1 1/16	D60B30		4 1/4	2 1/8	2 3/4	16.70	T60B30		4 1/4	3	2 3/4	23.00
32	8.065	1 3/16	D60B32		4 1/2	2 3/8	3	19.90						
35	8.783	1 3/16	D60B35		4 1/2	2 3/8	3	23.20	T60B35		4 1/2	3 1/4	3	31.40
36	9.023	1 3/16	D60B36		4 1/2	2 3/8	3	27.90	T60B36		4 1/2	3 1/4	3	35.30
40	9.980	1 3/16	D60B40		4 3/4	2 3/4	3 1/4	33.00						
45	11.176	1 3/16	D60B45		4 3/4	2 3/4	3 1/4	40.20						
48	11.893	1 3/16	D60B48		4 3/4	2 3/4	3 1/4	44.90						
60	14.761	1 3/16	D60B60		4 3/4	2 3/4	3 1/4	67.00						

† Dimensions shown allow for standard keyway with set screw at 90°



### CHAIN TECHNICAL DATA

Size	60-2, 60-3
Pitch	3/4"
Inside Width	1/2"
Roller Diameter	.469"

# 3/4" Pitch — TAPER-LOCK®



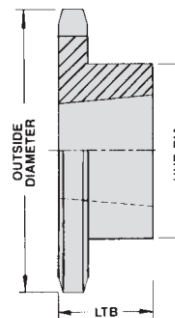
Dimensions are in inches unless otherwise indicated.

Type B TAPER-LOCK®								
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
13	3.493	60BTL13		1210	1 ▲	2 <sup>15</sup> / <sub>32</sub>	1	.80
14	3.736	60BTL14		1210	1 <sup>1</sup> / <sub>4</sub>	2 <sup>15</sup> / <sub>32</sub>	1	1.00
15	3.979	60BTL15		1610	1 <sup>5</sup> / <sub>8</sub>	2 <sup>25</sup> / <sub>32</sub>	1	1.00
16	4.221	60BTL16		1610	1 <sup>5</sup> / <sub>8</sub>	3	1	1.40
17	4.462	60BTL17		1610	1 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub>	1	1.80
18	4.704	60BTL18		1610	1 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub>	1	1.90
19	4.945	60BTL19		1610	1 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub>	1	2.20
20	5.185	60BTL20		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2.40
21	5.426	60BTL21		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2.50
22	5.666	60BTL22		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2.80
23	5.907	60BTL23		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	3.10
24	6.147	60BTL24		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	3.40
25	6.387	60BTL25		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	3.70
26	6.627	60BTL26		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	4.00
27	6.867	60BTL27		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	4.20
28	7.107	60BTL28		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	4.60
30	7.586	60BTL30		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	5.20
32	8.065	60BTL32		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	5.60
35	8.783	60BTL35		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	6.40
36	9.022	60BTL36		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	6.60
40	9.980	60BTL40		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	8.30
42	10.458	60BTL42		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	10.00
45	11.175	60BTL45		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	11.50
48	11.893	60BTL48		2012	2	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	13.20
54	13.327	60BTL54		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	17.10
60	14.761	60BTL60		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	21.00
70	17.150	60BTL70		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	27.60
72	17.628	60BTL72		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	30.00
80	19.539	60BTL80		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	36.30
84	20.494	60BTL84		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	40.60

▲ Has recessed groove in hub for chain clearance  
 TAPER-LOCK® is a registered trademark of Rockwell Automation.

## CHAIN TECHNICAL DATA

Size	60
Pitch	3/4"
Inside Width	1/2"
Roller Diameter	.469"



TYPE B

# No. 60 $\frac{3}{4}$ " Pitch — TAPER-LOCK®

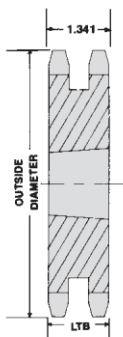
Dimensions are in inches unless otherwise indicated.

Double TAPER-LOCK®								
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
13	3.493	D60BTL13		1215	1¼	2¼	1½	1.30
14	3.736	D60BTL14		1215	1¼	2½	1½	1.80
15	3.979	D60BTL15		1615	1⅝	2 <sup>13</sup> / <sub>16</sub>	1½	1.80
16	4.221	D60BTL16		1615	1⅝	3	1½	2.30
17	4.462	D60BTL17		1615	1⅝	3¼	1½	2.90
18	4.704	D60ATL18		2012	2		1¼	2.40
19	4.945	D60ATL19		2012	2		1¼	3.00
20	5.185	D60BTL20		2517	2½	3 <sup>6</sup> / <sub>64</sub>	1¾	2.90
21	5.426	D60BTL21		2517	2½	4 <sup>3</sup> / <sub>16</sub>	1¾	3.80
25	6.387	D60BTL25		2517	2½	5 <sup>5</sup> / <sub>32</sub>	1¾	7.50
30	7.586	D60BTL30		2517	2½	6 <sup>1</sup> / <sub>32</sub>	1¾	13.20
36	9.022	D60CTL36		2517	2½	4¾	1¾	17.40
42	10.458	D60CTL42		2517	2½	4¾	1¾	25.10
45	11.175	D60CTL45		2517	2½	4¾	1¾	29.40

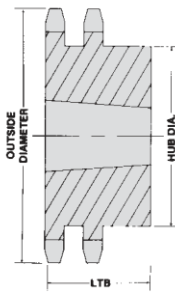
Dimensions are in inches unless otherwise indicated.

TAPER-LOCK® Bushings			
Bushing	List Price	Bore Range	Wt. Lbs.
1210		½ — 1¼	.50
1610		½ — 1⅝	.70
2012		½ — 2	1.40
2517		½ — 2½	3.20

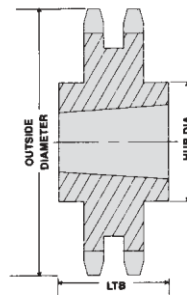
Refer to page 69 for bushing specifications  
TAPER-LOCK® is a registered trademark of Rockwell Automation.



TYPE A



TYPE B



TYPE C

### CHAIN TECHNICAL DATA

Size	60
Pitch	$\frac{3}{4}$ "
Inside Width	$\frac{1}{2}$ "
Roller Diameter	.469"

# 3/4" Pitch — QD®

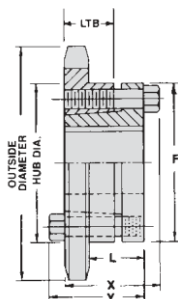


Dimensions are in inches unless otherwise indicated.

60 QD® 3/4" Pitch													
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Type	Hub Dia.	LTB	X	Y	L	F	Wt. Lbs.
11	3.005	60JA11		JA	1 1/4	B	2 1/16	9/16	1	1	27/64	2	.40
12	3.249	60JA12		JA	1 1/4	B	2 1/16	9/16	1	1	27/64	2	.60
13	3.493	60JA13		JA	1 1/4	B	2 1/4	9/16	1	1	27/64	2	.70
14	3.736	60SH14		SH	1 11/16	B	2 11/16	13/16	1 3/8	1 3/8	47/64	2 11/16	.90
15	3.978	60SH15		SH	1 11/16	B	2 3/4	13/16	1 3/8	1 3/8	47/64	2 11/16	1.00
16	4.220	60SH16		SH	1 11/16	B	3	13/16	1 3/8	1 3/8	47/64	2 11/16	1.20
17	4.462	60SDS17		SDS	2	B	3 1/4	3/4	1 1/16	1 1/16	51/64	3 3/16	1.40
18	4.703	60SDS18		SDS	2	B	3 1/2	3/4	1 1/16	1 1/16	51/64	3 3/16	1.60
19	4.945	60SDS19		SDS	2	B	3 1/2	3/4	1 1/16	1 1/16	51/64	3 3/16	1.90
20	5.186	60SDS20		SDS	2	B	3 1/2	3/4	1 1/16	1 1/16	51/64	3 3/16	2.10
21	5.426	60SDS21		SDS	2	B	3 1/2	3/4	1 1/16	1 1/16	51/64	3 3/16	2.30
22	5.666	60SDS22		SDS	2	B	3 1/2	3/4	1 1/16	1 1/16	51/64	3 3/16	2.60
23	5.907	60SDS23		SDS	2	B	3 1/2	3/4	1 1/16	1 1/16	51/64	3 3/16	2.80
24	6.147	60SDS24		SDS	2	B	3 1/2	3/4	1 1/16	1 1/16	51/64	3 3/16	3.10
25	6.387	60SDS25		SDS	2	B	3 1/2	3/4	1 1/16	1 1/16	51/64	3 3/16	3.30
26	6.627	60SK26		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 23/64	3 7/8	4.60
27	6.867	60SK27		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 23/64	3 7/8	4.80
28	7.106	60SK28		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 23/64	3 7/8	5.00
30	7.586	60SK30		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 23/64	3 7/8	5.70
32	8.065	60SK32		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 23/64	3 7/8	6.40
35	8.783	60SK35		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 23/64	3 7/8	7.50
36	9.023	60SK36		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 23/64	3 7/8	7.80
40	9.980	60SK40		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 23/64	3 7/8	9.50
42	10.458	60SF42		SF	2 15/16	B	5	1 1/4	2 3/16	2 3/16	1 31/64	4 5/8	11.00
45	11.176	60SF45		SF	2 15/16	B	5	1 1/4	2 3/16	2 3/16	1 31/64	4 5/8	12.10
48	11.893	60SF48		SF	2 15/16	B	5	1 1/4	2 3/16	2 3/16	1 31/64	4 3/4	13.80
54	13.327	60SF54		SF	2 15/16	B	5	1 1/4	2 3/16	2 3/16	1 31/64	4 5/8	16.80
60	14.761	60SF60		SF	2 15/16	B	5	1 1/4	2 3/16	2 3/16	1 31/64	4 5/8	21.30
70	17.150	60SF70		SF	2 15/16	B	5	1 1/4	2 3/16	2 3/16	1 31/64	4 5/8	28.70
72	17.628	60SF72		SF	2 15/16	B	5	1 1/4	2 3/16	2 3/16	1 31/64	4 5/8	31.00
80	19.539	60SF80		SF	2 15/16	B	5	1 1/4	2 3/16	2 3/16	1 31/64	4 5/8	37.00
84	20.495	60SF84		SF	2 15/16	B	5	1 1/4	2 3/16	2 3/16	1 31/64	4 5/8	38.50
96	23.360	60SF96		SF	2 15/16	B	5	1 1/4	2 3/16	2 3/16	1 31/64	4 5/8	52.30
112	27.181	60E112		E	3 1/2	B	6 1/4	1 3/8	2 5/8	2 15/16	2 3/16	6	75.50

## CHAIN TECHNICAL DATA

Size	60
Pitch	3/4"
Inside Width	1/2"
Roller Diameter	.469"



TYPE B

Dimensions are in inches unless otherwise indicated.

QD® Bushings					
Bushing	List Price	Bore Range		No Keyway	Wt. Lbs.
		Standard Keyway	Shallow Keyway		
JA		1/2 — 1	1/16 — 1 3/16	1 1/4	.80
SH		1/2 — 1 3/8	7/16 — 1 5/8	1 11/16	.70
SDS		1/2 — 1 11/16	3/4 — 1 15/16	2	1.00
SK		1/2 — 2 1/8	2 3/16 — 2 1/2	2 9/16 — 2 5/8	2.10
SF		1/2 — 2 5/16	2 3/8 — 2 13/16	2 13/16 — 2 15/16	3.10
E		7/8 — 2 1/8	2 15/16 — 3 1/2	-	7.10

Refer to page 72 for bushing specifications

QD® is a registered trademark of and is used under license from Emerson Power Transmission Manufacturing, L.P.



# No. 80

## 1" Pitch — Plain Bore

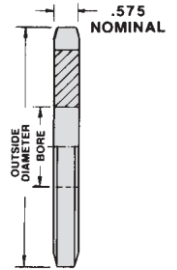
Dimensions are in inches unless otherwise indicated.

Type A					Type B Plain Bore						
No. Teeth	Catalog Number	List Price	Plain Bore	Wt. Lbs.	Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.
					<b>80B8</b>		1	1 <sup>3</sup> / <sub>16</sub>	1 <sup>19</sup> / <sub>16</sub> ▲	1 <sup>1</sup> / <sub>16</sub>	1.30
<b>9</b>	<b>80A9</b>		1	.70	<b>80B9</b>		1	1 <sup>1</sup> / <sub>8</sub>	2 <sup>9</sup> / <sub>32</sub> ▲	1 <sup>1</sup> / <sub>16</sub>	1.80
<b>10</b>	<b>80A10</b>		1	1.00	<b>80B10</b>		1	1 <sup>1</sup> / <sub>2</sub>	2 <sup>9</sup> / <sub>16</sub> ▲	1 <sup>1</sup> / <sub>16</sub>	2.40
<b>11</b>	<b>80A11</b>		1	1.30	<b>80B11</b>		1	1 <sup>1</sup> / <sub>8</sub>	2 <sup>19</sup> / <sub>16</sub> ▲	1 <sup>1</sup> / <sub>16</sub>	2.90
<b>12</b>	<b>80A12</b>		1	1.70	<b>80B12</b>		1	1 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub> ▲	1 <sup>1</sup> / <sub>16</sub>	3.60
<b>13</b>	<b>80A13</b>		1	2.00	<b>80B13</b>		1	1 <sup>3</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>16</sub>	3.80
<b>14</b>	<b>80A14</b>		1	2.40	<b>80B14</b>		1	2 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>16</sub>	4.40
<b>15</b>	<b>80A15</b>		1	2.70	<b>80B15</b>		1	2 <sup>1</sup> / <sub>2</sub>	3 <sup>19</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	5.60
<b>16</b>	<b>80A16</b>		1	3.10	<b>80B16</b>		1	2 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	6.10
<b>17</b>	<b>80A17</b>		1	3.50	<b>80B17</b>		1	2 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	6.50
<b>18</b>	<b>80A18</b>		1	4.00	<b>80B18</b>		1	2 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	6.90
<b>19</b>	<b>80A19</b>		1	4.40	<b>80B19</b>		1	2 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	7.40
<b>20</b>	<b>80A20</b>		1	4.40	<b>80B20</b>		1	2 <sup>15</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	10.40
<b>21</b>	<b>80A21</b>		1	5.00	<b>80B21</b>		1	2 <sup>15</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	10.90
<b>22</b>	<b>80A22</b>		1	5.60	<b>80B22</b>		1	2 <sup>15</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	11.40
<b>23</b>	<b>80A23</b>		1	6.20	<b>80B23</b>		1	2 <sup>15</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	12.00
<b>24</b>	<b>80A24</b>		1	6.60	<b>80B24</b>		1	2 <sup>15</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	12.50
<b>25</b>	<b>80A25</b>		1	7.00	<b>80B25</b>		1	2 <sup>15</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	13.10
<b>26</b>	<b>80A26</b>		1 <sup>3</sup> / <sub>8</sub>	7.90	<b>80B26</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	14.00
<b>27</b>	<b>80A27</b>		1 <sup>3</sup> / <sub>8</sub>	8.80	<b>80B27</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	14.70
<b>28</b>	<b>80A28</b>		1 <sup>3</sup> / <sub>8</sub>	9.00	<b>80B28</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	15.40
<b>29</b>	<b>80A29</b>		1 <sup>3</sup> / <sub>8</sub>	10.00	<b>80B29</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	16.00
<b>30</b>	<b>80A30</b>		1 <sup>3</sup> / <sub>8</sub>	10.60	<b>80B30</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	16.80
<b>31</b>	<b>80A31</b>		1 <sup>3</sup> / <sub>8</sub>	11.30	<b>80B31</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	17.50
<b>32</b>	<b>80A32</b>		1 <sup>3</sup> / <sub>8</sub>	11.90	<b>80B32</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	18.30
<b>33</b>	<b>80A33</b>		1 <sup>3</sup> / <sub>8</sub>	12.70	<b>80B33</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	19.00
<b>34</b>	<b>80A34</b>		1 <sup>3</sup> / <sub>8</sub>	13.70	<b>80B34</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	20.00
<b>35</b>	<b>80A35</b>		1 <sup>3</sup> / <sub>8</sub>	14.90	<b>80B35</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	20.70
<b>36</b>	<b>80A36</b>		1 <sup>3</sup> / <sub>8</sub>	15.30	<b>80B36</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	21.60
<b>37</b>	<b>80A37</b>		1 <sup>3</sup> / <sub>8</sub>	16.10	<b>80B37</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	22.40
<b>38</b>	<b>80A38</b>		1 <sup>3</sup> / <sub>8</sub>	17.30	<b>80B38</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	23.30
<b>40</b>	<b>80A40</b>		1 <sup>3</sup> / <sub>8</sub>	18.90	<b>80B40</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	25.20
<b>45</b>	<b>80A45</b>		1 <sup>3</sup> / <sub>8</sub>	24.70	<b>80B45</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	30.30
<b>46</b>	<b>80A46</b>		1 <sup>3</sup> / <sub>8</sub>	25.70	<b>80B46</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	31.40
<b>48</b>	<b>80A48</b>		1 <sup>3</sup> / <sub>8</sub>	28.20	<b>80B48</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	33.70
<b>49</b>	<b>80A49</b>		1 <sup>3</sup> / <sub>8</sub>	29.00	<b>80B49</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	34.90
<b>54</b>	<b>80A54</b>		1 <sup>3</sup> / <sub>8</sub>	35.50	<b>80B54</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	41.00
<b>60</b>	<b>80A60</b>		1 <sup>3</sup> / <sub>8</sub>	44.80	<b>80B60</b>		1 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>8</sub>	49.30
<b>65</b>	<b>80A65</b>		1 <sup>3</sup> / <sub>8</sub>	51.60							
<b>70</b>	<b>80A70</b>		1 <sup>3</sup> / <sub>8</sub>	56.50							
<b>72</b>	<b>80A72</b>		1 <sup>3</sup> / <sub>8</sub>	64.50							
<b>80</b>	<b>80A80</b>		1 <sup>3</sup> / <sub>8</sub>	79.00							
<b>84</b>	<b>80A84</b>		1 <sup>3</sup> / <sub>8</sub>	86.00							
<b>96</b>	<b>80A96</b>		1 <sup>3</sup> / <sub>8</sub>	113.00							
<b>112</b>	<b>80A112</b>		1 <sup>3</sup> / <sub>8</sub>	159.00							

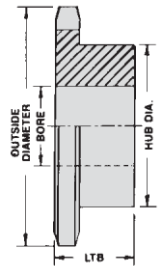
SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

▲Has recessed groove in hub for chain clearance †Dimensions shown allow for standard keyway with set screw at 90°

CHAIN TECHNICAL DATA	
Size	80
Pitch	1"
Inside Width	5 <sup>5</sup> / <sub>8</sub> "
Roller Diameter	.625"



TYPE A



TYPE B

# 1" Pitch — Finished Bore



Dimensions are in inches unless otherwise indicated.

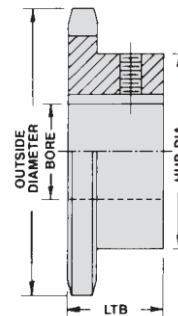
Type F Bored to Size				Sprocket Diameters		
No. Teeth	Catalog Number	List Price	Available Bores (Includes Standard KW + 2SS)	1" Pitch		
				Outside Diameter	Pitch Diameter	Caliper Diameter
9	80B9F	1		3.348	2.924	2.254
10	80B10F	1	1 1/4	3.678	3.236	2.611
11	80B11F	1	1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8 ●	4.006	3.550	2.888
12	80B12F	1	1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4	4.332	3.864	3.239
13	80B13F	1	1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 7/8, 1 15/16 ●	4.657	4.179	3.523
14	80B14F	1	1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 7/8 ●, 1 15/16 ●	4.981	4.494	3.869
15	80B15F	1	1 1/8, 1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 7/8, 1 15/16	5.304	4.810	4.158
16	80B16F	1	1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 15/16, 2, 2 3/16	5.627	5.126	4.501
17	80B17F	1	1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 15/16, 2, 2 3/16	5.949	5.442	4.794
18	80B18F	1	1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 15/16, 2, 2 3/16	6.271	5.759	5.134
19	80B19F	1	1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 15/16, 2, 2 3/16	6.593	6.076	5.430
20	80B20F	1	1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 15/16, 2, 2 3/16, 2 7/16, 2 15/16	6.914	6.392	5.767
21	80B21F	1	1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 15/16, 2, 2 3/16, 2 7/16, 2 15/16	7.235	6.710	6.066
22	80B22F	1	1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 15/16, 2, 2 3/16, 2 7/16, 2 15/16	7.555	7.027	6.402
24	80B24F	1	1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 15/16, 2, 2 3/16, 2 7/16, 2 15/16	8.196	7.661	7.036
26	80B26F	1	1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 15/16, 2, 2 3/16, 2 7/16, 2 15/16	8.836	8.296	7.671
27	80B27F	1	1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 15/16, 2, 2 3/16, 2 7/16, 2 15/16	9.156	8.614	7.974
28	80B28F	1	1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 15/16, 2, 2 3/16, 2 7/16, 2 15/16	9.475	8.931	8.306
30	80B30F	1	1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 15/16, 2, 2 3/16, 2 7/16, 2 15/16	10.114	9.567	8.942
36	80B36F	1	1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 15/16, 2, 2 3/16, 2 7/16, 2 15/16	12.030	11.474	10.849
60	80B60F	1	1 3/16, 1 1/4, 1 3/8, 1 1/2, 1 5/8, 1 3/4, 1 15/16, 2, 2 3/16, 2 7/16, 2 15/16	19.681	19.107	18.482

Hub diameters may vary to suit bore sizes

- Indicates set screw at 90° and 180° from keyway

## CHAIN TECHNICAL DATA

Size	80
Pitch	1"
Inside Width	5/8"
Roller Diameter	.625"



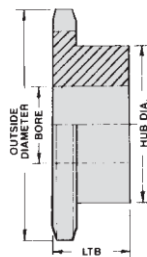
TYPE B

# No. 80

## 1" Pitch — Stainless Steel

Dimensions are in inches unless otherwise indicated.

Single — Type B — Stainless Steel								
No. Teeth	Outside Diameter	Catalog Number	List Price	Plain Bore	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
10	3.678	80B10SS		1	1½	2 <sup>9</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	2.40
11	4.006	80B11SS		1	1 <sup>5</sup> / <sub>8</sub>	2 <sup>13</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	2.90
12	4.332	80B12SS		1	1 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>16</sub>	3.60
13	4.657	80B13SS		1	1 <sup>31</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>16</sub>	3.80
14	4.981	80B14SS		1	2¼	3¼	1 <sup>1</sup> / <sub>16</sub>	4.40
15	5.305	80B15SS		1	2¼	3 <sup>13</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	5.60
16	5.627	80B16SS		1	2 <sup>7</sup> / <sub>16</sub>	3¾	1 <sup>5</sup> / <sub>8</sub>	6.10
18	6.271	80B18SS		1	2 <sup>7</sup> / <sub>16</sub>	3¾	1 <sup>5</sup> / <sub>8</sub>	6.90
19	6.593	80B19SS		1	2 <sup>7</sup> / <sub>16</sub>	3¾	1 <sup>5</sup> / <sub>8</sub>	7.40
20	6.914	80B20SS		1	2 <sup>15</sup> / <sub>16</sub>	4½	1 <sup>7</sup> / <sub>8</sub>	10.40
22	7.555	80B22SS		1	2 <sup>15</sup> / <sub>16</sub>	4½	1 <sup>7</sup> / <sub>8</sub>	11.40
23	7.826	80B23SS		1	2 <sup>15</sup> / <sub>16</sub>	4½	1 <sup>7</sup> / <sub>8</sub>	12.00
24	8.196	80B24SS		1	2 <sup>15</sup> / <sub>16</sub>	4½	1 <sup>7</sup> / <sub>8</sub>	12.50



TYPE B

### CHAIN TECHNICAL DATA

Size	80
Pitch	1"
Inside Width	<sup>5</sup> / <sub>8</sub> "
Roller Diameter	.625"

# 1" Pitch — Multiple Strand



Dimensions are in inches unless otherwise indicated.

Basic Sprocket Dimensions			80-2 Double Strand					80-3 Triple Strand						
No. Teeth	Outside Diameter	Plain Bore	Catalog Number	List Price	Hub Dia.	LTB	†Max. Bore	Wt. Lbs.	Catalog Number	List Price	Hub Dia.	LTB	†Max. Bore	Wt. Lbs.
10	3.678	1	D80B10		2 <sup>9</sup> / <sub>16</sub> ▲	2 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>8</sub>	3.50						
11	4.006	1	D80B11		2 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>16</sub>	3.90	T80B11		2 <sup>3</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>16</sub>	5.70
12	4.332	1	D80B12		2 <sup>11</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>2</sub>	1 <sup>13</sup> / <sub>16</sub>	4.90	T80B12		2 <sup>11</sup> / <sub>16</sub>	3 <sup>5</sup> / <sub>8</sub>	1 <sup>13</sup> / <sub>16</sub>	7.20
13	4.657	1	D80B13		3 <sup>1</sup> / <sub>32</sub>	2 <sup>1</sup> / <sub>2</sub>	2	6.10	T80B13		3 <sup>1</sup> / <sub>32</sub>	3 <sup>5</sup> / <sub>8</sub>	2	8.90
14	4.981	1	D80B14		3 <sup>5</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>4</sub>	7.30	T80B14		3 <sup>5</sup> / <sub>16</sub>	3 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	10.70
15	5.304	1	D80B15		3 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	8.70	T80B15		3 <sup>5</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	12.70
16	5.627	1	D80B16		4	2 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	11.10	T80B16		4	3 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	15.80
17	5.949	1	D80B17		4 <sup>5</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	2 <sup>7</sup> / <sub>8</sub>	12.80	T80B17		4 <sup>5</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	18.30
18	6.271	1	D80B18		4 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	14.60	T80B18		4 <sup>5</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	20.90
19	6.593	1	D80B19		4 <sup>15</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>16</sub>	16.60	T80B19		4 <sup>15</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>16</sub>	23.80
20	6.914	1	D80B20		5	2 <sup>3</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>16</sub>	18.20	T80B20		5	3 <sup>7</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>16</sub>	26.20
21	7.235	1	D80B21		5	2 <sup>3</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>16</sub>	19.60	T80B21		5	3 <sup>7</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>16</sub>	28.60
22	7.560	1	D80B22		5	2 <sup>3</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>16</sub>	21.00	T80B22		5	3 <sup>7</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>16</sub>	31.00
23	7.880	1	D80B23		5	2 <sup>3</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>16</sub>	22.80	T80B23		5	3 <sup>7</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>16</sub>	34.00
24	8.196	1 <sup>5</sup> / <sub>16</sub>	D80B24		5	2 <sup>3</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>16</sub>	24.70	T80B24		5	3 <sup>7</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>16</sub>	34.60
25	8.520	1 <sup>5</sup> / <sub>16</sub>	D80B25		5	2 <sup>3</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>16</sub>	28.30	T80B25		5 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	41.00
30	10.114	1 <sup>9</sup> / <sub>16</sub>	D80B30		5 <sup>1</sup> / <sub>2</sub>	3	3 <sup>3</sup> / <sub>4</sub>	39.50	T80B30		5 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	52.20
36	12.030	1 <sup>7</sup> / <sub>16</sub>	D80B36		5 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	55.10						

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

▲ Has recessed groove in hub for chain clearance

† Dimensions shown allow for standard keyway with set screw at 90°

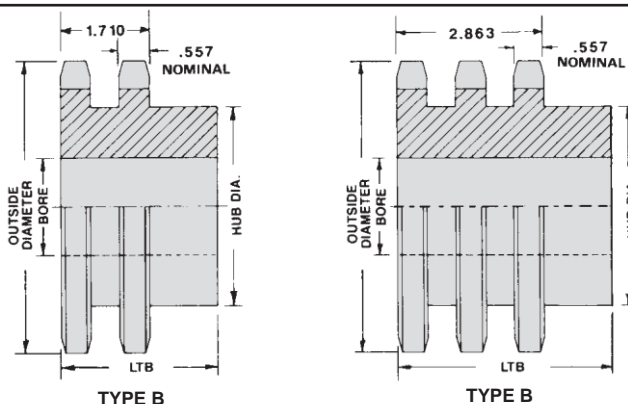
## CHAIN TECHNICAL DATA

Size 80-2, 80-3

Pitch 1"

Inside Width 5/8"

Roller Diameter .625"



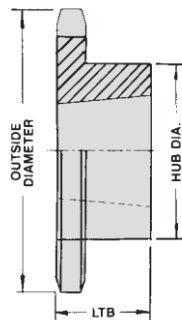
# No. 80

## 1" Pitch — TAPER-LOCK®

Dimensions are in inches unless otherwise indicated.

80 Type B TAPER-LOCK®								
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
10	3.678	80BTL10		1215	1¼	2 <sup>3</sup> / <sub>8</sub> ▲	1½	1.10
11	4.006	80BTL11		1215	1¼	2 <sup>15</sup> / <sub>32</sub> ▲	1½	1.50
12	4.332	80BTL12		1615	1 <sup>5</sup> / <sub>8</sub>	3 ▲	1½	1.80
13	4.657	80BTL13		1615	1 <sup>5</sup> / <sub>8</sub>	3	1½	2.30
14	4.982	80BTL14		1615	1 <sup>5</sup> / <sub>8</sub>	3¼	1½	2.50
15	5.300	80BTL15		1615	1 <sup>5</sup> / <sub>8</sub>	3¼	1½	2.70
16	5.627	80BTL16		2012	2	3 <sup>5</sup> / <sub>8</sub>	1¼	2.80
17	5.950	80BTL17		2012	2	3 <sup>5</sup> / <sub>8</sub>	1¼	3.10
18	6.271	80BTL18		2012	2	3 <sup>5</sup> / <sub>8</sub>	1¼	3.60
19	6.593	80BTL19		2012	2	3 <sup>5</sup> / <sub>8</sub>	1¼	4.10
20	6.914	80BTL20		2517	2½	4¼	1¾	5.50
21	7.235	80BTL21		2517	2½	4¼	1¾	6.00
22	7.555	80BTL22		2517	2½	4¼	1¾	6.50
23	7.875	80BTL23		2517	2½	4¼	1¾	7.00
24	8.196	80BTL24		2517	2½	4¼	1¾	7.50
25	8.516	80BTL25		2517	2½	4¼	1¾	8.10
26	8.836	80BTL26		2517	2½	4¼	1¾	8.80
27	9.156	80BTL27		2517	2½	4¼	1¾	9.00
28	9.475	80BTL28		2517	2½	4¼	1¾	9.50
30	10.114	80BTL30		2517	2½	4¼	1¾	11.50
32	10.753	80BTL32		2517	2½	4¼	1¾	12.00
35	11.711	80BTL35		2517	2½	4¼	1¾	15.20
36	12.030	80BTL36		2517	2½	4¼	1¾	17.00
40	13.306	80BTL40		2517	2½	4¼	1¾	21.00
45	14.901	80BTL45		2517	2½	4¼	1¾	26.50
48	15.857	80BTL48		2517	2½	4¼	1¾	29.50
54	17.769	80BTL54		2517	2½	4¼	1¾	38.50
60	19.681	80BTL60		2517	2½	4¼	1¾	45.20
70	22.867	80BTL70		3020	3	5¼	2	52.30
80	26.052	80BTL80		3020	3	5¼	2	69.20

▲ Has recessed groove in hub for chain clearance  
 TAPER-LOCK® is a registered trademark of Rockwell Automation.



TYPE B

### CHAIN TECHNICAL DATA

Size	80
Pitch	1"
Inside Width	5/8"
Roller Diameter	.625"

# 1" Pitch — TAPER-LOCK®



Dimensions are in inches unless otherwise indicated.

80 Double TAPER-LOCK®								
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
13	4.657	D80ATL13		1615	1 <sup>5</sup> / <sub>8</sub>		1 <sup>1</sup> / <sub>2</sub>	3.30
14	4.982	D80ATL14		2012	2		1 <sup>1</sup> / <sub>4</sub>	3.30
15	5.305	D80ATL15		2012	2		1 <sup>1</sup> / <sub>4</sub>	4.20
16	5.627	D80ATL16		2517	2 <sup>1</sup> / <sub>2</sub>		1 <sup>3</sup> / <sub>4</sub>	4.20
17	5.950	D80ATL17		2517	2 <sup>1</sup> / <sub>2</sub>		1 <sup>3</sup> / <sub>4</sub>	4.90
18	6.271	D80ATL18		2517	2 <sup>1</sup> / <sub>2</sub>		1 <sup>3</sup> / <sub>4</sub>	6.20
19	6.593	D80BTL19		3020	3	5	2	5.50
20	6.914	D80BTL20		3020	3	5 <sup>1</sup> / <sub>4</sub>	2	7.10
21	7.235	D80BTL21		3020	3	5 <sup>5</sup> / <sub>16</sub>	2	8.80
25	8.516	D80BTL25		3020	3	6 <sup>7</sup> / <sub>8</sub>	2	16.30

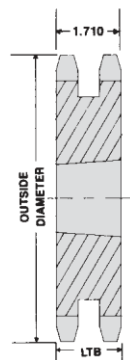
Dimensions are in inches unless otherwise indicated.

TAPER-LOCK® Bushings			
Bushing	List Price	Bore Range	Wt. Lbs.
1615		1/2 — 1 <sup>5</sup> / <sub>8</sub>	1.00
2012		1/2 — 2	1.40
2517		1/2 — 2 <sup>1</sup> / <sub>2</sub>	3.20
3020		1 <sup>5</sup> / <sub>16</sub> — 3	5.80

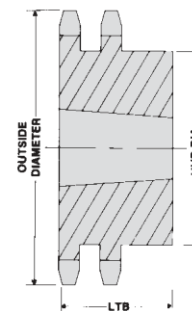
Refer to page 69 for bushing specifications  
TAPER-LOCK® is a registered trademark of Rockwell Automation.

## CHAIN TECHNICAL DATA

Size	80
Pitch	1"
Inside Width	5 <sup>5</sup> / <sub>8</sub> "
Roller Diameter	.625"



TYPE A



TYPE B

# No. 80

## 1" Pitch — QD®

Dimensions are in inches unless otherwise indicated.

80 QD® 1" Pitch													
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Type	Hub Dia.	LTB	X	Y	L	F	Wt. Lbs.
11	4.006	80SH11		SH	1 <sup>11</sup> / <sub>16</sub>	B	2 <sup>11</sup> / <sub>16</sub>	<sup>13</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	<sup>19</sup> / <sub>32</sub>	2 <sup>11</sup> / <sub>16</sub>	1.10
12	4.332	80SH12		SH	1 <sup>11</sup> / <sub>16</sub>	B	2 <sup>3</sup> / <sub>4</sub>	<sup>13</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	<sup>19</sup> / <sub>32</sub>	2 <sup>11</sup> / <sub>16</sub>	1.30
13	4.657	80SDS13		SDS	2	B	3 <sup>3</sup> / <sub>16</sub>	<sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	<sup>43</sup> / <sub>64</sub>	3 <sup>3</sup> / <sub>16</sub>	1.50
14	4.981	80SDS14		SDS	2	B	3 <sup>3</sup> / <sub>8</sub>	<sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	<sup>43</sup> / <sub>64</sub>	3 <sup>3</sup> / <sub>16</sub>	1.80
15	5.304	80SK15		SK	2 <sup>5</sup> / <sub>8</sub>	B	3 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>64</sub>	3 <sup>7</sup> / <sub>8</sub>	2.50
16	5.627	80SK16		SK	2 <sup>5</sup> / <sub>8</sub>	B	4 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>64</sub>	3 <sup>7</sup> / <sub>8</sub>	3.20
17	5.949	80SK17		SK	2 <sup>5</sup> / <sub>8</sub>	B	4 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>64</sub>	3 <sup>7</sup> / <sub>8</sub>	3.90
18	6.271	80SK18		SK	2 <sup>5</sup> / <sub>8</sub>	B	4 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>64</sub>	3 <sup>7</sup> / <sub>8</sub>	4.40
19	6.593	80SK19		SK	2 <sup>5</sup> / <sub>8</sub>	B	4 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>64</sub>	3 <sup>7</sup> / <sub>8</sub>	4.70
20	6.914	80SF20		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	5.60
21	7.235	80SF21		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	6.10
22	7.555	80SF22		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	6.60
23	7.876	80SF23		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	7.30
24	8.196	80SF24		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	7.80
25	8.526	80SF25		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	8.40
26	8.836	80SF26		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	8.80
27	9.156	80SF27		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	9.90
28	9.475	80SF28		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	10.30
30	10.114	80SF30		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	11.60
32	10.753	80SF32		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	13.30
33	11.073	80SF33		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	13.50
34	11.392	80SF34		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	15.00
35	11.711	80SF35		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	15.70
36	12.030	80SF36		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	16.70
40	13.306	80SF40		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	20.70
42	13.944	80SF42		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	22.60
45	14.901	80SF45		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	25.00
48	15.857	80SF48		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	29.30
54	17.769	80SF54		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	36.60
60	19.681	80SF60		SF	2 <sup>15</sup> / <sub>16</sub>	B	5	1 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>23</sup> / <sub>64</sub>	4 <sup>5</sup> / <sub>8</sub>	45.70

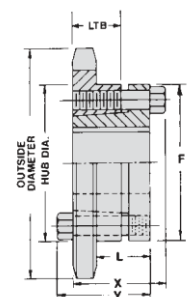
Dimensions are in inches unless otherwise indicated.

QD® Bushings					
Bushing	List Price	Bore Range		No Keyway	Wt. Lbs.
		Standard Keyway	Shallow Keyway		
SH		<sup>1</sup> / <sub>2</sub> — 1 <sup>3</sup> / <sub>8</sub>	<sup>7</sup> / <sub>16</sub> — 1 <sup>5</sup> / <sub>8</sub>	1 <sup>11</sup> / <sub>16</sub>	.70
SDS		<sup>1</sup> / <sub>2</sub> — 1 <sup>11</sup> / <sub>16</sub>	<sup>3</sup> / <sub>4</sub> — 1 <sup>15</sup> / <sub>16</sub>	2	1.00
SK		<sup>1</sup> / <sub>2</sub> — 2 <sup>1</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>16</sub> — 2 <sup>1</sup> / <sub>2</sub>	2 <sup>9</sup> / <sub>16</sub> — 2 <sup>5</sup> / <sub>8</sub>	2.10
SF		<sup>1</sup> / <sub>2</sub> — 2 <sup>5</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub> — 2 <sup>13</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub> — 2 <sup>15</sup> / <sub>16</sub>	3.10

Refer to page 72 for bushing specifications

QD® is a registered trademark of and is used under license from Emerson Power Transmission Manufacturing, L.P.

CHAIN TECHNICAL DATA	
Size	80
Pitch	1"
Inside Width	<sup>5</sup> / <sub>8</sub> "
Roller Diameter	.625"



TYPE B

# 1 1/4" Pitch — Plain Bore



Dimensions are in inches unless otherwise indicated.

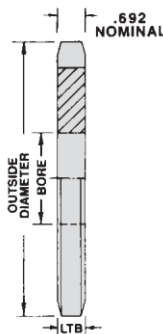
Spocket Diameters 1 1/4" Pitch				Type A				Type B, Type C						
No. Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalog Number	List Price	Plain Bore	Wt. Lbs.	Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.
8	3.770	3.266	2.516	100A8		1	1.20	100B8		1	1 1/4	2 1/16 ▲	1 1/8	2.20
9	4.185	3.655	2.849	100A9		1	1.60	100B9		1	1 5/8	2 1/16 ▲	1 1/8	3.00
10	4.598	4.045	3.295	100A10		1	1.90	100B10		1	1 7/8	3 1/4 ▲	1 1/8	4.10
11	5.008	4.438	3.642	100A11		1	2.60	100B11		1	2 1/4	3 3/16 ▲	1 1/8	5.10
12	5.415	4.830	4.080	100A12		1	2.90	100B12		1	2 1/4	4 ▲	1 1/8	6.40
13	5.821	5.224	4.435	100A13		1	3.50	100B13		1	2 3/8	3 7/8	1 5/8	6.40
14	6.226	5.618	4.868	100A14		1 1/4	4.00	100B14		1 1/4	2 3/4	4 3/16	1 5/8	7.50
15	6.630	6.013	5.229	100A15		1 1/4	4.70	100B15		1 1/4	2 15/16	4 1/2	1 3/4	9.00
16	7.034	6.408	5.658	100A16		1 1/4	5.30	100B16		1 1/4	3	4 1/2	1 3/4	9.80
17	7.436	6.803	6.024	100A17		1 1/4	6.10	100B17		1 1/4	3	4 1/2	1 3/4	10.50
18	7.839	7.199	6.449	100A18		1 1/4	7.20	100B18		1 1/4	3	4 1/2	1 3/4	11.40
19	8.241	7.595	6.819	100A19		1 1/4	7.80	100B19		1 1/4	3	4 1/2	2	13.40
20	8.643	7.990	7.240	100A20		1 1/4	8.60	100B20		1 1/4	3	4 1/2	2	14.20
21	9.044	8.388	7.613	100A21		1 1/4	9.40	100B21		1 1/4	3	4 1/2	2	15.10
22	9.444	8.784	8.034	100A22		1 1/4	10.40	100B22		1 1/4	3	4 1/2	2	15.90
23	9.845	9.180	8.409	100A23		1 1/4	11.70	100B23		1 1/4	3	4 1/2	2	17.30
24	10.245	9.576	8.826	100A24		1 1/4	12.50	100B24		1 1/4	3	4 1/2	2	18.00
25	10.645	9.974	9.204	100A25		1 1/4	13.40	100B25		1 1/4	3	4 1/2	2	18.90
26	11.045	10.370	9.620	100A26		1 3/8	14.70	100B26		1 3/8	3 15/16	5	2	21.50
27	11.445	10.768	9.999	100A27		1 3/8	15.80	100B27		1 3/8	3 15/16	5	2	23.00
28	11.844	11.164	10.414	100A28		1 3/8	17.20	100B28		1 3/8	3 15/16	5	2	24.40
30	12.643	11.959	11.209	100A30		1 3/8	20.30	100B30		1 3/8	3 15/16	5	2	26.30
32	13.441	12.753	12.003	100A32		1 3/8	22.60	100B32		1 3/8	3 15/16	5	2	29.80
35	14.639	13.945	13.181	100A35		1 3/8	27.40	100B35		1 3/8	3 15/16	5	2 1/2	37.50
36	15.038	14.343	13.593	100A36		1 3/8	28.30	100B36		1 3/8	3 15/16	5	2 1/2	38.70
40	16.633	15.933	15.183	100A40		1 3/8	36.20	100B40		1 3/8	3 15/16	5	2 1/2	45.10
42	17.430	16.728	15.978	100A42		1 3/8	40.00	100B42		1 3/8	3 15/16	5	2 1/2	47.80
45	18.626	17.920	17.159	100A45		1 3/8	45.50	100B45		1 3/8	3 15/16	5	2 1/2	56.20
48	19.821	19.113	18.363	100A48		1 3/8	52.00	100B48		1 3/8	4 1/8	6 1/4	2 3/4	67.00
54	22.211	21.498	20.748	100A54		1 3/8	67.00	100C54		1 3/8	4 1/8	6 1/4	3 1/4	90.00
60	24.601	23.884	23.134	100A60		1 3/8	81.00	100C60		1 3/8	4 1/8	6 1/4	3 1/4	107.00
70	28.584	27.861	27.111	100A70		1 3/8	108.00	100C70		1 3/8	5 1/4	7	3 3/4	138.00
72	29.380	28.657	27.908	100A72		1 3/8	120.00	100C72		1 3/8	5 1/4	7	3 3/4	151.00
80	32.565	31.839	31.089	100A80		1 3/8	149.00	100C80		1 3/8	5 1/4	7	3 3/4	180.00
84	34.158	33.430	32.680	100A84		1 3/8	165.00	100C84		1 3/8	5 1/4	7	3 3/4	195.00
90	36.545	35.817	35.068	100A90		1 3/8	191.00	100C90		1 3/8	5 1/4	7	3 3/4	225.00
96	38.934	38.204	37.454	100A96		1 3/8	212.00	100C96		1 3/8	5 1/4	7	4 1/2	260.00

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

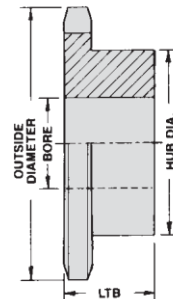
▲ Has recessed groove in hub for chain clearance † Dimensions shown allow for standard keyway with set screw at 90° ▲ Hub diameter may vary to suit bore sizes

## CHAIN TECHNICAL DATA

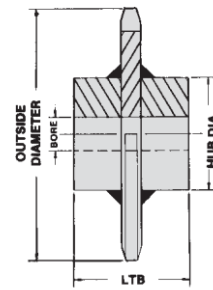
Size	100
Pitch	1 1/4"
Inside Width	3/4"
Roller Diameter	.750"



TYPE A



TYPE B



TYPE C



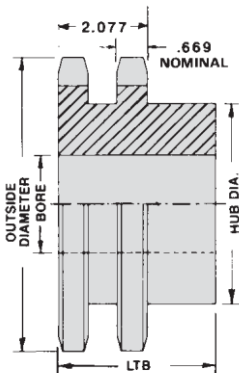
# No. 100

## 1 1/4" Pitch — Multiple Strand

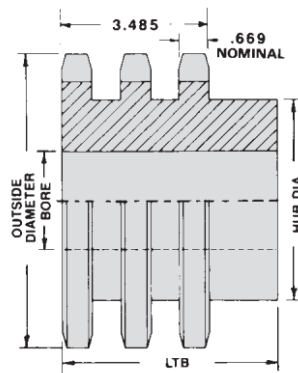
Dimensions are in inches unless otherwise indicated.

Basic Sprocket Dimensions			100-2 Double Strand					100-3 Triple Strand						
No. Teeth	Outside Diameter	Plain Bore	Catalog Number	List Price	Hub Dia.	LTB	†Max. Bore	Wt. Lbs.	Catalog Number	List Price	Hub Dia.	LTB	†Max. Bore	Wt. Lbs.
9	4.185	1	D100B9		2 5/16	2 7/8	1 1/2	4.40						
10	4.598	1	D100B10		2 11/16	2 7/8	1 3/4	6.00						
11	5.008	1	D100B11		3 1/8	2 7/8	2 1/8	7.80						
12	5.415	1 1/8	D100B12		3 3/8	2 7/8	2 1/4	9.30						
13	5.821	1 1/8	D100B13		3 3/4	2 7/8	2 1/2	11.30	T100B13		3 3/4	4 1/4	2 1/2	16.70
14	6.226	1 1/8	D100B14		4 3/16	2 7/8	2 3/4	13.60	T100B14		4 3/16	4 1/4	2 3/4	20.20
15	6.630	1 1/4	D100B15		4 9/16	3 1/8	3 1/8	16.80	T100B15		4 9/16	4 1/2	3 1/8	27.50
16	7.034	1 1/4	D100B16		5	3 1/8	3 5/16	19.70	T100B16		5	4 1/2	3 5/16	32.00
17	7.436	1 1/4	D100B17		5 1/4	3 1/8	3 1/2	22.50	T100B17		5 1/4	4 1/2	3 1/2	36.30
18	7.839	1 1/4	D100B18		5 1/4	3 1/8	3 1/2	24.80	T100B18		5 1/4	4 3/4	3 1/2	41.80
19	8.241	1 1/4	D100B19		5 1/2	3 1/8	3 3/4	29.40	T100B19		5 1/2	4 3/4	3 3/4	46.50
20	8.643	1 1/4	D100B20		5 1/2	3 3/8	3 3/4	32.00	T100B20		5 1/2	4 3/4	3 3/4	51.00
21	9.044	1 1/4	D100B21		5 1/2	3 3/8	3 3/4	34.80	T100B21		5 1/2	4 3/4	3 3/4	55.80
22	9.444	1 1/4	D100B22		5 1/2	3 3/8	3 3/4	37.20	T100B22		5 1/2	4 3/4	3 3/4	60.80
23	9.845	1 1/4	D100B23		5 1/2	3 3/8	3 3/4	40.30	T100B23		5 1/2	4 3/4	3 3/4	66.00
24	10.245	1 1/4	D100B24		5 1/2	3 3/8	3 3/4	43.40	T100B24		5 1/2	4 3/4	3 3/4	71.60
25	10.645	1 1/4	D100B25		5 1/2	3 3/8	3 3/4	46.70	T100B25		5 1/2	4 3/4	3 3/4	77.30
26	11.045	1 1/4	D100B26		5 1/2	3 3/8	3 3/4	50.20	T100B26		5 1/2	4 3/4	3 3/4	83.20
30	12.643	1 1/4	D100B30		5 1/2	3 3/8	3 3/4	65.40	T100B30		5 1/2	4 3/4	3 3/4	109.70

† Dimensions shown allow for standard keyway with set screw at 90°



TYPE B



TYPE B

### CHAIN TECHNICAL DATA

Size	100-2, 100-3
Pitch	1 1/4"
Inside Width	3/4"
Roller Diameter	.750"

# 1 1/4" Pitch — TAPER-LOCK®



Dimensions are in inches unless otherwise indicated.

100 Type B TAPER-LOCK®								
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
11	5.007	100BTL11		1615	1 5/8	3	1 1/2	2.70
12	5.415	100BTL12		1615	1 5/8	3 1/4	1 1/2	3.50
13	5.821	100BTL13		2012	2	3 1/16	1 1/4	3.60
14	6.227	100BTL14		2012	2	3 1/16	1 1/4	3.90
15	6.631	100BTL15		2517	2 1/2	4 1/4	1 3/4	5.00
16	7.034	100BTL16		2517	2 1/2	4 1/2	1 3/4	6.40
17	7.437	100BTL17		2517	2 1/2	4 1/2	1 3/4	7.10
18	7.839	100BTL18		2517	2 1/2	4 1/2	1 3/4	7.80
19	8.241	100BTL19		2517	2 1/2	4 1/2	1 3/4	8.70
20	8.642	100BTL20		2517	2 1/2	4 1/2	1 3/4	9.60
21	9.043	100BTL21		2517	2 1/2	4 1/2	1 3/4	10.60
22	9.444	100BTL22		2517	2 1/2	4 1/2	1 3/4	11.00
24	10.245	100BTL24		2517	2 1/2	4 1/2	1 3/4	13.00
26	11.045	100BTL26		2517	2 1/2	4 1/2	1 3/4	15.00
28	11.844	100BTL28		3020	3	5 1/4	2	16.50
30	12.643	100BTL30		3020	3	5 1/4	2	22.00
32	13.442	100BTL32		3020	3	5 1/4	2	23.00
35	14.639	100BTL35		3020	3	5 1/4	2	28.00
36	15.038	100BTL36		3020	3	5 1/4	2	31.00
40	16.633	100BTL40		3020	3	5 1/4	2	37.00
45	18.626	100BTL45		3020	3	5 1/4	2	46.00
48	19.821	100BTL48		3020	3	5 1/4	2	53.00
54	22.212	100BTL54		3020	3	5 1/4	2	62.00
60	24.601	100BTL60		3020	3	5 1/4	2	72.00

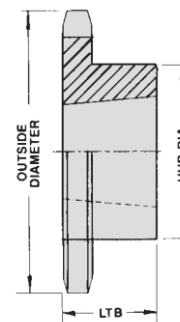
Dimensions are in inches unless otherwise indicated.

TAPER-LOCK® Bushings			
Bushing	List Price	Bore Range	Wt. Lbs.
1615		1/2 — 1 5/8	1.00
2012		1/2 — 2	1.40
2517		1/2 — 2 1/2	3.20
3020		1 5/16 — 3	5.80

Refer to page 69 for bushing specifications  
TAPER-LOCK® is a registered trademark of Rockwell Automation.

## CHAIN TECHNICAL DATA

Size	100
Pitch	1 1/4"
Inside Width	3/4"
Roller Diameter	.750"



TYPE B

# No. 100

## 1 1/4" Pitch — QD®

Dimensions are in inches unless otherwise indicated.

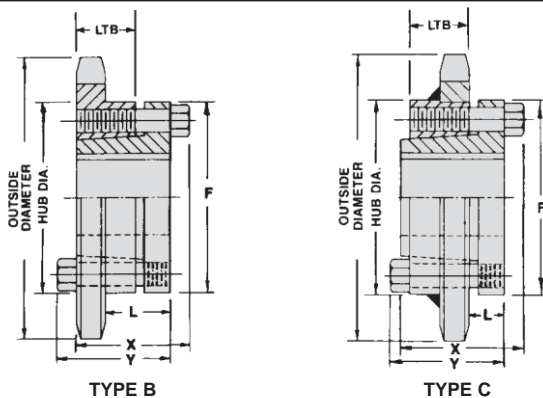
100 QD® 1 1/4" Pitch													
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Type	Hub Dia.	LTB	X	Y	L	F	Wt. Lbs.
11	5.008	100SDS11		SDS	2	B	3 3/16	3/4	1 1/16	1 1/16	9/16	3 3/16	1.90
12	5.415	100SDS12		SDS	2	B	3 1/2	3/4	1 1/16	1 1/16	9/16	3 3/16	2.40
13	5.821	100SK13		SK	2 5/8	B	3 15/16	1 1/4	2 1/16	2 1/16	1 9/64	3 7/8	3.30
14	6.226	100SK14		SK	2 5/8	B	4 1/4	1 1/4	2 1/16	2 1/16	1 9/64	3 7/8	4.20
15	6.630	100SF15		SF	2 15/16	B	4 5/8	1 1/4	2 1/8	2 1/8	1 15/64	4 5/8	4.80
16	7.034	100SF16		SF	2 15/16	B	5	1 1/4	2 1/8	2 1/8	1 15/64	4 5/8	5.90
17	7.436	100SF17		SF	2 15/16	B	5	1 1/4	2 1/8	2 1/8	1 15/64	4 5/8	6.60
18	7.839	100E18		E	3 1/2	B	5 15/16	1 5/8	2 5/8	2 15/16	1 13/16	6	8.90
19	8.241	100E19		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 13/16	6	9.90
20	8.643	100E20		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 13/16	6	11.40
21	9.044	100E21		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 13/16	6	12.50
22	9.444	100E22		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 13/16	6	13.30
24	10.245	100E24		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 13/16	6	16.10
28	11.844	100E28		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 13/16	6	19.90
30	12.643	100E30		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 13/16	6	24.10
32	13.441	100E32		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 13/16	6	26.00
35	14.639	100E35		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 13/16	6	29.40
36	15.038	100E36		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 13/16	6	31.70
40	16.633	100E40		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 13/16	6	38.20
42	17.430	100E42		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 13/16	6	41.80
45	18.626	100E45		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 13/16	6	48.40
48	19.821	100E48		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 13/16	6	56.00
54	22.211	100E54		E	3 1/2	C	6 1/4	1 5/8	2 5/8	2 15/16	7/8	6	69.00
60	24.601	100E60		E	3 1/2	C	6 1/4	1 5/8	2 5/8	2 15/16	7/8	6	86.00

Dimensions are in inches unless otherwise indicated.

QD® Bushings					
Bushing	List Price	Bore Range		No Keyway	Wt. Lbs.
		Standard Keyway	Shallow Keyway		
SDS		1/2 — 1 11/16	1 3/4 — 1 15/16	2	1.00
SK		1/2 — 2 1/8	2 3/16 — 2 1/2	2 9/16 — 2 5/8	2.10
SF		1/2 — 2 1/4	2 5/16 — 2 3/4	2 13/16 — 2 15/16	3.10
E		7/8 — 2 3/4	2 13/16 — 3 7/16	3 1/2	7.10

Refer to page 72 for bushing specifications

QD® is a registered trademark of and is used under license from Emerson Power Transmission Manufacturing, L.P.



### CHAIN TECHNICAL DATA

Size	100
Pitch	1 1/4"
Inside Width	3/4"
Roller Diameter	.750"

# 1 1/2" Pitch — Plain Bore



Dimensions are in inches unless otherwise indicated.

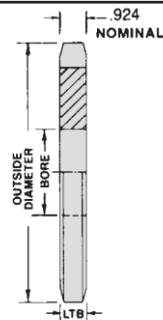
Sprocket Diameters 1 1/2" Pitch				Type A				Type B, Type C						
No. Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalog Number	List Price	Plain Bore	Wt. Lbs.	Catalog Number	List Price	Plain Bore	†Max. Bore	^Hub Dia.	LTB	Wt. Lbs.
9	5.022	4.386	3.444	120A9		1/4	3.00	120B9		1/4	2 13/16	3 3/8 ▲	2 1/4	5.20
10	5.517	4.854	3.979	120A10		1/4	3.80	120B10		1/4	2 1/4	3 1/4 ▲	2 1/4	7.00
11	6.009	5.325	4.395	120A11		1/4	4.90	120B11		1/4	2 5/8	3 5/16	2 1/2	7.70
12	6.498	5.796	4.921	120A12		1/4	5.80	120B12		1/4	2 3/4	4 1/8	2 1/2	9.80
13	6.986	6.269	5.347	120A13		1/4	6.70	120B13		1/4	3	4 5/16	2 1/4	12.60
14	7.472	6.741	5.866	120A14		1/4	8.10	120B14		1/4	3 1/4	4 3/4	2 1/4	14.30
15	7.956	7.215	6.300	120A15		1/4	9.40	120B15		1/4	3 3/4	4 3/4	2 1/4	15.60
16	8.441	7.689	6.814	120A16		1/2	10.50	120B16		1/2	3 1/2	5 1/4	2 3/8	18.90
17	8.924	8.163	7.254	120A17		1/2	11.70	120B17		1/2	3 1/2	5 1/4	2 3/8	20.30
18	9.407	8.639	7.764	120A18		1/2	13.70	120B18		1/2	3 1/2	5 1/4	2 3/8	21.70
19	9.890	9.114	8.207	120A19		1/2	15.30	120B19		1/2	3 1/2	5 1/4	2 3/8	23.70
20	10.371	9.588	8.713	120A20		1/2	16.80	120B20		1/2	3 1/2	5 1/4	2 3/8	25.30
21	10.853	10.065	9.161	120A21		1/2	18.50	120B21		1/2	3 1/2	5 1/4	2 3/8	27.00
22	11.333	10.541	9.666	120A22		1/2	20.30	120B22		1/2	3 1/2	5 1/4	2 3/8	28.80
23	11.814	11.016	10.115	120A23		1/2	22.10	120B23		1/2	3 1/2	5 1/4	2 3/8	30.60
24	12.294	11.492	10.617	120A24		1/2	24.50	120B24		1/2	3 1/2	5 1/4	2 3/8	33.50
25	12.774	11.969	11.070	120A25		1/2	26.60	120B25		1/2	3 1/2	5 1/4	2 3/8	35.60
26	13.254	12.444	11.569	120A26		1/2	28.50	120B26		1/2	4 1/8	6 1/4	2 1/2	41.80
27	13.734	12.921	12.024	120A27		1/2	31.20	120B27		1/2	4 1/8	6 1/4	2 1/2	45.00
28	14.213	13.397	12.522	120A28		1/2	34.00	120B28		1/2	4 1/8	6 1/4	2 1/2	47.50
30	15.171	14.351	13.476	120A30		1/2	38.40	120B30		1/2	4 1/8	6 1/4	2 1/2	51.50
32	16.130	15.303	14.428	120A32		1/2	43.40	120B32		1/2	4 1/8	6 1/4	2 1/2	57.00
35	17.567	16.734	15.842	120A35		1/2	53.90	120B35		1/2	4 1/8	6 1/4	2 1/2	67.00
36	18.045	17.211	16.336	120A36		1/2	56.60	120B36		1/2	4 1/8	6 1/4	2 1/2	70.00
40	19.959	19.119	18.244	120A40		1/2	72.00	120C40		1/2	4 1/8	6 1/4	3 3/4	102.00
42	20.916	20.073	19.198	120A42		1/2	76.00	120C42		1/2	4 1/8	6 1/4	3 3/4	114.00
45	22.352	21.504	20.615	120A45		1/2	88.00	120C45		1/2	4 1/8	6 1/4	3 3/4	127.00
48	23.786	22.935	22.060	120A48		1/2	100.00	120C48		1/2	4 1/8	6 1/4	3 3/4	141.00
54	26.654	25.797	24.922	120A54		1/2	126.00							
60	29.522	28.661	27.786	120A60		1/2	158.00							
70	34.301	33.434	32.559	120A70		1/2	213.00							
80	39.078	38.207	37.332	120A80		1/2	277.00							

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

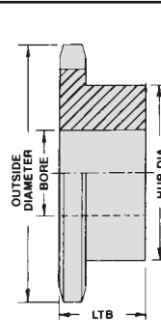
- ▲ Has recessed groove in hub for chain clearance
- † Dimensions shown allow for standard keyway with set screw at 90°
- ^ Hub diameter may vary to suit bore sizes

## CHAIN TECHNICAL DATA

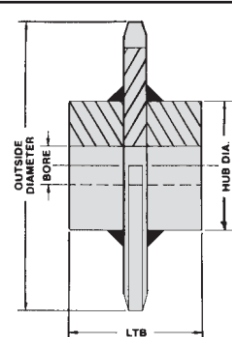
Size	120
Pitch	1 1/2"
Inside Width	1"
Roller Diameter	.875"



TYPE A



TYPE B



TYPE C

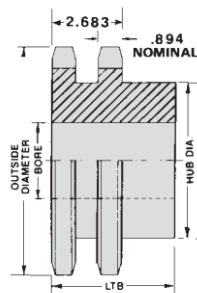
# No. 120

## 1 1/2" Pitch — Multiple Strand

Dimensions are in inches unless otherwise indicated.

Basic Sprocket Dimensions			120-2 Double Strand					
No. Teeth	Outside Diameter	Plain Bore	Catalog Number	List Price	Hub Dia.	LTB	†Max. Bore	Wt. Lbs.
11	6.009	1 1/2	D120B11		3 1/16	3 3/4	2 3/8	13.50
12	6.498	1 1/2	D120B12		2 3/4	3 3/4	2 1/2	17.00
13	6.986	1 1/2	D120B13		3	3 3/4	2 15/16	20.90
14	7.472	1 1/2	D120B14		3 5/8	3 3/4	3 1/8	25.20
15	7.956	1 1/2	D120B15		3 5/8	3 3/4	3 1/4	29.90
16	8.441	1 1/2	D120B16		3 1/2	3 3/4	3 1/4	33.00
17	8.924	1 1/2	D120B17		3 1/2	3 3/4	3 1/4	37.10
18	9.407	1 1/2	D120B18		3 1/2	3 3/4	3 1/4	41.00
19	9.890	1 1/2	D120B19		3 1/2	3 3/4	3 1/4	45.60
20	10.371	1 1/2	D120B20		3 1/2	3 3/4	3 1/4	50.40
21	10.853	1 1/2	D120B21		3 1/2	3 3/4	3 1/4	55.50
22	11.333	1 1/2	D120B22		3 1/2	3 3/4	3 1/4	60.90
23	11.814	1 1/2	D120B23		6 1/4	4	4 1/4	71.30
24	12.294	1 1/2	D120B24		6 1/4	4	4 1/4	77.20
25	12.777	1 1/2	D120B25		6 1/4	4	4 1/4	83.40
26	13.254	1 1/2	D120B26		6 1/4	4	4 1/4	89.90
30	15.171	1 1/2	D120B30		6 1/4	4	4 1/4	118.50

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES  
 † Dimensions shown allow for standard keyway with set screw at 90°



TYPE B

### CHAIN TECHNICAL DATA

Size	120-2
Pitch	1 1/2"
Inside Width	1"
Roller Diameter	.875"

# 1 1/2" Pitch — TAPER-LOCK®



Dimensions are in inches unless otherwise indicated.

120 Type B TAPER-LOCK®								
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
35	17.566	120BTL35		3020	3	5 1/4	2	52.00
36	18.045	120BTL36		3020	3	5 1/4	2	54.00
45	22.351	120CTL45		3535	3 15/16	6 1/2	3 1/2	82.00
60	29.522	120CTL60		3535	3 15/16	6 1/2	3 1/2	140.00
70	34.301	120CTL70		3535	3 15/16	6 1/2	3 1/2	175.00
80	39.078	120CTL80		3535	3 15/16	6 1/2	3 1/2	220.00

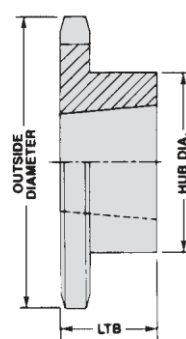
Dimensions are in inches unless otherwise indicated.

TAPER-LOCK® Bushings			
Bushing	List Price	Bore Range	Wt. Lbs.
3020		1 5/16 — 3	5.80
3535		1 3/16 — 3 15/16	11.00

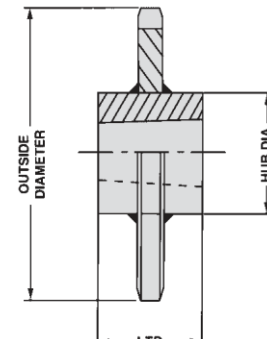
Refer to page 69 for bushing specifications  
TAPER-LOCK® is a registered trademark of Rockwell Automation.

## CHAIN TECHNICAL DATA

Size	120
Pitch	1 1/2"
Inside Width	1"
Roller Diameter	.875"



TYPE B



TYPE C

# No. 120

1 1/2" Pitch — QD®

Dimensions are in inches unless otherwise indicated.

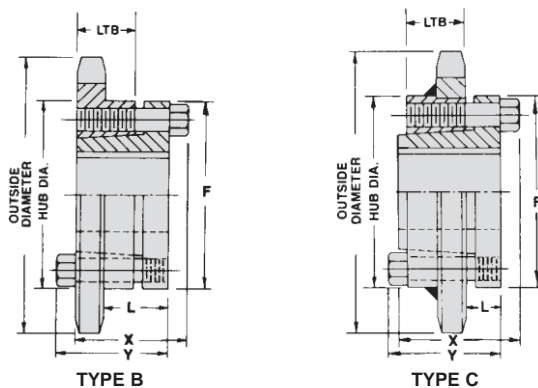
120 QD® 1 1/2" Pitch													
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Type	Hub Dia.	LTB	X	Y	L	F	Wt. Lbs.
12	6.498	120SF12		SF	2 15/16	B	4 3/8	1 1/4	2 3/16	2 3/16	1 1/64	4 5/8	4.60
13	6.986	120SF13		SF	2 15/16	B	4 5/8	1 1/4	2 3/16	2 3/16	1 1/64	4 5/8	5.90
14	7.472	120SF14		SF	2 15/16	B	5	1 1/4	2 3/16	2 3/16	1 1/64	4 5/8	7.30
15	7.956	120SF15		SF	2 15/16	B	5	1 1/4	2 3/16	2 3/16	1 1/16	4 5/8	8.10
16	8.441	120E16		E	3 1/2	B	6 1/8	1 5/8	2 5/8	2 15/16	1 1/16	6	10.90
17	8.924	120E17		E	3 1/2	B	6 1/8	1 5/8	2 5/8	2 15/16	1 1/16	6	12.10
18	9.407	120E18		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	14.70
19	9.890	120E19		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	15.80
20	10.371	120E20		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	18.80
21	10.853	120E21		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	19.30
22	11.333	120E22		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	21.80
23	11.814	120E23		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	23.30
24	12.294	120E24		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	25.70
25	12.774	120E25		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	27.20
26	13.254	120E26		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	30.30
28	14.213	120E28		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	35.20
30	15.171	120E30		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	39.30
32	16.130	120F32		F	4	C	7	2 1/2	3 5/8	4	1	6 5/8	50.90
35	17.567	120F35		F	4	C	7	2 1/2	3 5/8	4	1	6 5/8	63.20
36	18.045	120F36		F	4	C	7	2 1/2	3 5/8	4	1	6 5/8	65.00
40	19.959	120F40		F	4	C	7	2 1/2	3 5/8	4	1	6 5/8	77.00
42	20.916	120F42		F	4	C	7	2 1/2	3 5/8	4	1	6 5/8	90.00
45	22.352	120F45		F	4	C	7	2 1/2	3 5/8	4	1	6 5/8	95.00
48	23.786	120F48		F	4	C	7	2 1/2	3 5/8	4	1	6 5/8	109.00
54	26.654	120F54		F	4	C	7	2 1/2	3 5/8	4	1	6 5/8	135.00
60	29.522	120J60		J	4 1/2	C	8	3 3/16	4 1/2	5	1 1/16	7 1/4	172.00

Dimensions are in inches unless otherwise indicated.

QD® Bushings					
Bushing	List Price	Bore Range		No Keyway	Wt. Lbs.
		Standard Keyway	Shallow Keyway		
SF		1/2 — 2 1/4	2 5/16 — 2 3/4	2 13/16 — 2 15/16	3.10
E		7/8 — 2 3/4	2 13/16 — 3 1/16	3 1/2	7.10
F		1 — 3 1/4	3 3/16 — 3 15/16	4	8.70
J		1 1/16 — 3 3/4	3 3/16 — 4 1/2	—	16.80

Refer to page 72 for bushing specifications

QD® is a registered trademark of and is used under license from Emerson Power Transmission Manufacturing, L.P.



### CHAIN TECHNICAL DATA

Size	120
Pitch	1 1/2"
Inside Width	1"
Roller Diameter	.875"

# 1 3/4" Pitch — Plain Bore



Dimensions are in inches unless otherwise indicated.

Sprocket Diameters				Type A				Type B, Type C						
No. Teeth	Outside Diameter	1 3/4" Pitch		Catalog Number	List Price	Plain Bore	Wt. Lbs.	Catalog Number	List Price	Plain Bore	†Max. Bore	^Hub Dia.	LTB	Wt. Lbs.
		Pitch Diameter	Caliper Diameter											
11	7.011	6.213	5.148	140A11		1 3/8	6.60	140B11		1 3/8	2 3/4	4 1/4	2 1/4	10.70
12	7.581	6.762	5.762	140A12		1 3/8	7.80	140B12		1 3/8	3	4 1/2	2 1/4	13.30
13	8.150	7.313	6.259	140A13		1 3/8	9.50	140B13		1 3/8	3 3/4	5 1/4	2 3/8	17.90
14	8.717	7.865	6.865	140A14		1 3/8	10.80	140B14		1 3/8	3 3/4	5 1/4	2 3/8	18.90
15	9.282	8.418	7.371	140A15		1 3/8	12.60	140B15		1 3/8	4 1/4	6 1/4	2 1/2	25.80
16	9.847	8.971	7.971	140A16		1 3/8	14.40	140B16		1 3/8	4 1/4	6 1/4	2 1/2	27.60
17	10.411	9.524	8.483	140A17		1 3/8	16.60	140B17		1 3/8	4 1/4	6 1/4	2 1/2	29.80
18	10.974	10.078	9.078	140A18		1 3/8	18.20	140B18		1 3/8	4 1/4	6 1/4	2 1/2	32.30
19	11.538	10.633	9.596	140A19		1 3/8	20.60	140B19		1 3/8	4 1/4	6 1/4	2 1/2	34.20
20	12.100	11.186	10.186	140A20		1 3/8	23.20	140B20		1 3/8	4 1/4	6 1/4	2 1/2	36.50
21	12.661	11.743	10.709	140A21		1 3/8	25.90	140B21		1 3/8	4 1/4	6 1/4	2 1/2	38.70
22	13.221	12.297	11.297	140A22		1 3/8	28.00	140B22		1 3/8	4 1/4	6 1/4	2 1/2	41.10
23	13.783	12.852	11.822	140A23		1 3/8	31.20	140B23		1 3/8	4 1/4	6 1/4	2 1/2	44.30
24	14.343	13.407	12.407	140A24		1 3/8	33.50	140B24		1 3/8	4 1/4	6 1/4	2 1/2	47.80
25	14.903	13.963	12.935	140A25		1 3/8	37.10	140B25		1 3/8	4 1/4	6 1/4	2 1/2	49.80
26	15.463	14.518	13.518	140A26		1 3/8	38.90	140B26		1 3/8	4 1/4	6 1/4	3	55.70
28	16.581	15.629	14.629	140A28		1 3/8	46.20	140B28		1 3/8	4 1/4	6 1/4	3	62.70
30	17.700	16.742	15.742	140A30		1 3/8	53.50	140B30		1 3/8	4 1/4	6 1/4	3	70.00
32	18.818	17.854	16.854	140A32		1 3/8	59.20	140B32		1 3/8	4 1/4	6 1/4	3	79.00
35	20.494	19.523	18.503	140A35		1 3/8	71.00	140C35		1 3/8	5 1/4	7	4	109.00
36	21.053	20.080	19.080	140A36		1 3/8	76.00	140C36		1 3/8	5 1/4	7	4	115.00
40	23.286	22.306	21.306	140A40		1 3/8	95.00	140C40		1 3/8	5 1/4	7	4	133.00
45	26.077	25.088	24.072	140A45		1 3/8	122.00							
48	27.750	26.758	25.758	140A48		1 3/8	138.00							
54	31.096	30.097	29.097	140A54		1 3/8	181.00							
60	34.442	33.437	32.437	140A60		1 3/8	216.00							
70	40.017	39.006	38.006	140A70		1 3/8	290.00							
80	45.591	44.574	43.574	140A80		1 3/8	399.00							

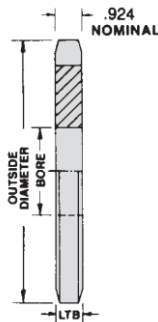
SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

† Dimensions shown allow for standard keyway with set screw at 90°

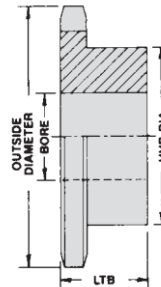
^ Hub diameter may vary to suit bore sizes

## CHAIN TECHNICAL DATA

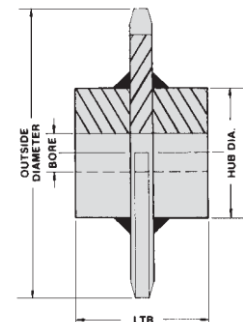
Size	140
Pitch	1 3/4"
Inside Width	1"
Roller Diameter	1.000"



TYPE A



TYPE B



TYPE C



# No. 140

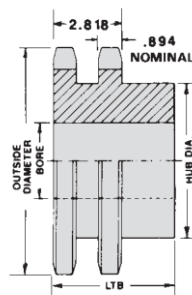
## 1 3/4" Pitch — Multiple Strand

Dimensions are in inches unless otherwise indicated.

Basic Sprocket Dimensions			140-2 Double Strand					
No. Teeth	Outside Diameter	Plain Bore	Catalog Number	List Price	Hub Dia.	LTB	†Max. Bore	Wt. Lbs.
13	8.150	1 1/2	D140B13		5 5/16	3 3/4	3 1/2	28.80
14	8.717	1 1/2	D140B14		5 7/8	3 3/4	4	34.70
15	9.282	1 1/2	D140B15		6 1/4	3 3/4	4 1/4	40.50
16	9.847	1 1/2	D140B16		6 1/4	4	4 1/4	47.90
17	10.411	1 1/2	D140B17		6 1/4	4	4 1/4	52.50
18	10.974	1 5/8	D140B18		7	4	4 3/4	60.80
19	11.538	1 5/8	D140B19		7	4	4 3/4	67.20
20	12.100	1 5/8	D140B20		7	4	4 3/4	74.00
21	12.661	1 5/8	D140B21		7	4	4 3/4	81.30
22	13.221	1 5/8	D140B22		7	4	4 3/4	93.70
23	13.783	1 5/8	D140B23		7	4	4 3/4	100.60
24	14.343	1 5/8	D140B24		7	4	4 3/4	105.10
25	14.903	1 5/8	D140B25		7	4	4 3/4	120.90
26	15.463	1 5/8	D140B26		7	4	4 3/4	127.10
30	17.700	1 5/8	D140B30		7	4	4 3/4	163.50

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

† Dimensions shown allow for standard keyway with set screw at 90°



TYPE B

### CHAIN TECHNICAL DATA

Size	140-2
Pitch	1 3/4"
Inside Width	1"
Roller Diameter	1.000"

# 1 3/4" Pitch — TAPER-LOCK®

U.S. TSUBAKI SPROCKETS

140

Dimensions are in inches unless otherwise indicated.

Type B TAPER-LOCK®								
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Hub Dia.	LTB	Wt. Lbs.
35	20.494	140CTL35		3535	3 <sup>15</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	78.00
36	21.053	140CTL36		3535	3 <sup>15</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	83.00
45	26.076	140CTL45		4040	4 <sup>7</sup> / <sub>16</sub>	7 <sup>3</sup> / <sub>4</sub>	4	118.00
60	34.442	140CTL60		4040	4 <sup>7</sup> / <sub>16</sub>	7 <sup>3</sup> / <sub>4</sub>	4	188.00
70	40.017	140CTL70		4040	4 <sup>7</sup> / <sub>16</sub>	7 <sup>3</sup> / <sub>4</sub>	4	241.00

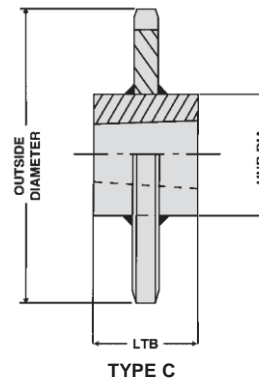
Dimensions are in inches unless otherwise indicated.

TAPER-LOCK® Bushings			
Bushing	List Price	Bore Range	Wt. Lbs.
3535		1 <sup>3</sup> / <sub>16</sub> — 3 <sup>15</sup> / <sub>16</sub>	11.00
4040		2 <sup>3</sup> / <sub>16</sub> — 4 <sup>7</sup> / <sub>16</sub>	17.00

Refer to page 69 for bushing specifications  
TAPER-LOCK® is a registered trademark of Rockwell Automation.

## CHAIN TECHNICAL DATA

Size	140
Pitch	1 3/4"
Inside Width	1"
Roller Diameter	1.000"



# No. 140

1 3/4" Pitch — QD®

Dimensions are in inches unless otherwise indicated.

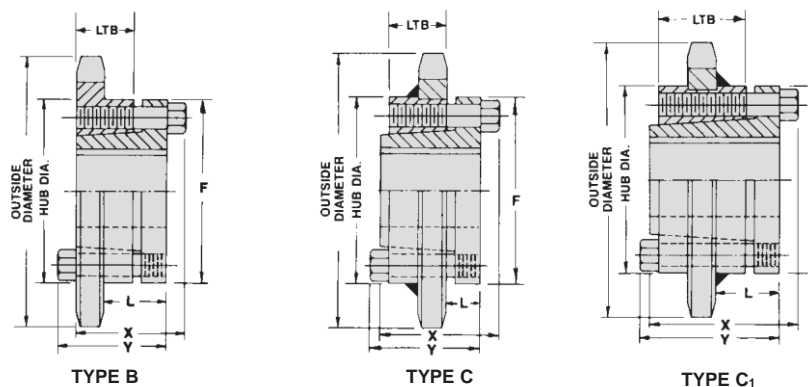
140 QD® 1 3/4" Pitch													
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Type	Hub Dia.	LTB	X	Y	L	F	Wt. Lbs.
11	7.011	140SF11		SF	2 15/16	B	4 7/16	1 1/4	2 3/16	2 3/16	1 1/64	4 5/8	5.50
12	7.581	140SF12		SF	2 15/16	B	4 7/8	1 1/4	2 3/16	2 3/16	1 1/64	4 5/8	7.20
13	8.150	140SF13		SF	2 15/16	B	5	1 1/4	2 3/16	2 3/16	1 1/64	4 5/8	8.90
14	8.717	140E14		E	3 1/2	B	6 1/8	1 5/8	2 5/8	2 15/16	1 1/16	6	11.60
15	9.282	140E15		E	3 1/2	B	6 1/8	1 5/8	2 5/8	2 15/16	1 1/16	6	13.40
16	9.847	140E16		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	15.50
17	10.411	140E17		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	17.50
18	10.974	140E18		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	20.30
19	11.538	140E19		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	21.00
20	12.100	140E20		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	24.40
21	12.661	140E21		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	27.20
22	13.221	140E22		E	3 1/2	B	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	29.40
23	13.783	140F23		F	4	B	7	2 1/2	3 5/8	4	2 9/16	6 5/8	36.90
24	14.343	140F24		F	4	B	7	2 1/2	3 5/8	4	2 9/16	6 5/8	41.10
25	14.903	140F25		F	4	B	7	2 1/2	3 5/8	4	2 9/16	6 5/8	42.60
26	15.463	140F26		F	4	B	7	2 1/2	3 5/8	4	2 9/16	6 5/8	46.70
30	17.700	140F30		F	4	B	7	2 1/2	3 5/8	4	2 9/16	6 5/8	50.60
35	20.494	140F35		F	4	C	7	2 1/2	3 5/8	4	1	6 5/8	75.00
36	21.053	140F36		F	4	C	7	2 1/2	3 5/8	4	1	6 5/8	79.00
40	23.286	140J40		J	4 1/2	C	8	3 3/16	4 1/2	5	1 1/16	7 1/4	105.00
45	26.077	140J45		J	4 1/2	C	8	3 3/16	4 1/2	5	1 1/16	7 1/4	140.10
48	27.750	140J48		J	4 1/2	C	8	3 3/16	4 1/2	5	1 1/16	7 1/4	148.00
54	31.096	140J54		J	4 1/2	C	8	3 3/16	4 1/2	5	1 1/16	7 1/4	178.00
60	34.442	140J60		J	4 1/2	C	8	3 3/16	4 1/2	5	1 1/16	7 1/4	234.00
70	40.017	140M70		M	5 1/2	C <sub>1</sub>	10	5 3/16	6 3/4	6 3/4	2 29/32	9	239.00
80	45.591	140M80		M	5 1/2	C <sub>1</sub>	10	5 3/16	6 3/4	6 3/4	2 29/32	9	432.00

Dimensions are in inches unless otherwise indicated.

QD® Bushings					
Bushing	List Price	Bore Range		No Keyway	Wt. Lbs.
		Standard Keyway	Shallow Keyway		
SF		1/2 — 2 1/4	2 5/16 — 2 3/4	2 13/16 — 2 15/16	3.10
E		7/8 — 2 3/4	2 13/16 — 3 1/16	3 1/2	7.10
F		1 — 3 1/4	3 5/16 — 3 15/16	4	8.70
J		1 1/16 — 3 3/4	3 13/16 — 4 1/2	—	16.80
M		2 — 4 3/4	4 7/8 — 5 1/2	—	56.00

Refer to page 72 for bushing specifications

QD® is a registered trademark of and is used under license from Emerson Power Transmission Manufacturing, L.P.



CHAIN TECHNICAL DATA	
Size	140
Pitch	1 3/4"
Inside Width	1"
Roller Diameter	1.000"

## 2" Pitch — Plain Bore



Dimensions are in inches unless otherwise indicated.

Sprocket Diameters				Type A				Type B						
No. Teeth	Outside Diameter	Pitch Diameter	2" Pitch	Catalog Number	List Price	Plain Bore	Wt. Lbs.	Catalog Number	List Price	Plain Bore	†Max. Bore	^Hub Dia.	LTB	Wt. Lbs.
			Caliper Diameter											
8	6.028	5.226	4.101	160A8		1 3/8	5.60	160B8		1 3/8	1 1/8	2 13/16	2 1/4	6.90
9	6.696	5.848	4.635	160A9		1 3/8	7.50	160B9		1 3/8	2 3/8	3 3/8	2 1/4	9.90
10	7.356	6.472	5.347	160A10		1 3/8	10.10	160B10		1 3/8	2 3/4	4	2 1/4	12.50
11	8.012	7.100	5.902	160A11		1 3/8	11.20	160B11		1 3/8	3 1/4	4 3/4	2 1/2	17.70
12	8.664	7.728	6.603	160A12		1 3/8	13.50	160B12		1 3/8	3 3/4	5 1/4	2 5/8	22.00
13	9.314	8.358	7.171	160A13		1 3/8	15.90	160B13		1 3/8	4	6	2 3/4	27.90
14	9.962	8.988	7.863	160A14		1 3/8	18.50	160B14		1 3/8	4 1/4	6 1/4	2 3/4	31.70
15	10.608	9.620	8.442	160A15		1 3/8	21.70	160B15		1 3/8	5 1/4	7	2 3/4	38.60
16	11.254	10.252	9.127	160A16		1 3/8	24.80	160B16		1 3/8	5 1/4	7	2 3/4	42.00
17	11.898	10.844	9.713	160A17		1 3/8	27.80	160B17		1 3/8	5 1/4	7	2 3/4	45.00
18	12.542	11.518	10.393	160A18		1 3/8	31.30	160B18		1 3/8	5 1/4	7	2 3/4	48.50
19	13.186	12.152	10.985	160A19		1 3/8	35.20	160B19		1 3/8	5 1/4	7	2 3/4	52.70
20	13.828	12.784	11.659	160A20		1 3/8	39.00	160B20		1 3/8	5 1/4	7	2 3/4	55.50
21	14.470	13.420	12.256	160A21		1 3/8	43.30	160B21		1 3/8	5 1/4	7	2 3/4	58.50
22	15.110	14.054	12.929	160A22		1 3/8	47.70	160B22		1 3/8	5 1/4	7	2 3/4	64.60
23	15.752	14.688	13.529	160A23		1 3/8	51.50	160B23		1 3/8	5 1/4	7	2 3/4	70.00
24	16.392	15.322	14.197	160A24		1 3/8	56.00	160B24		1 3/8	5 1/4	7	3	75.00
25	17.032	15.958	14.801	160A25		1 3/8	61.70	160B25		1 3/8	5 1/4	7	3	81.00
26	17.672	16.592	15.467	160A26		1 3/8	66.60	160B26		1 3/8	5 1/4	7	3	87.00
27	18.312	17.228	16.073	160A27		1 3/8	72.00	160B27		1 3/8	5 1/4	7	3	90.00
28	18.950	17.862	16.737	160A28		1 3/8	80.00	160B28		1 3/8	5 1/4	7	3	98.00
30	20.228	19.134	18.009	160A30		1 3/8	87.00	160B30		1 3/8	5 1/4	7	3	112.00
35	23.422	22.312	21.164	160A35		1 3/8	124.00							
36	24.060	22.948	21.823	160A36		1 3/8	134.00							
40	26.612	25.492	24.367	160A40		1 3/8	161.00							
45	29.802	28.672	27.529	160A45		1 3/8	204.00							
48	31.714	30.580	29.455	160A48		1 3/8	233.00							
54	35.538	34.396	33.271	160A54		1 3/8	291.00							
60	39.362	38.214	37.089	160A60		1 3/8	361.00							
70	45.734	44.578	43.453	160A70		1 3/8	497.00							
80	52.104	50.942	49.817	160A80		1 3/8	643.00							

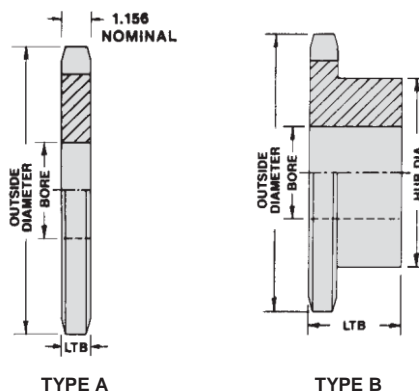
SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

† Dimensions shown allow for standard keyway with set screw at 90°

^ Hub diameter may vary to suit bore sizes

### CHAIN TECHNICAL DATA

Size	160
Pitch	2"
Inside Width	1 1/4"
Roller Diameter	1.125"



# No. 160

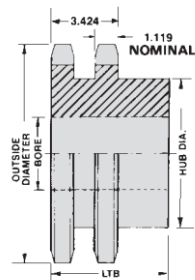
## 2" Pitch — Multiple Strand

Dimensions are in inches unless otherwise indicated.

Basic Sprocket Dimensions			160-2 Double Strand					
No. Teeth	Outside Diameter	Plain Bore	Catalog Number	List Price	Hub Dia.	LTB	†Max. Bore	Wt. Lbs.
13	9.314	2	D160B13		5¼	4¾	3½	43.00
14	9.962	2	D160B14		5¼	4¾	3½	50.10
15	10.608	2	D160B15		5¼	4¾	3½	57.90
16	11.254	2	D160B16		7	4¾	4¾	72.60
17	11.898	2	D160B17		7	4¾	4¾	81.60
18	12.542	2	D160B18		7	4¾	4¾	91.20
19	13.186	2	D160B19		7	4¾	4¾	101.50
20	13.828	2	D160B20		7	4¾	4¾	112.30
21	14.470	2	D160B21		7½	5	5	128.90
22	15.110	2	D160B22		7½	5	5	141.00
23	15.752	2	D160B23		7½	5	5	154.10
24	16.392	2	D160B24		7½	5	5	167.00
25	17.032	2	D160B25		7½	5	5	181.00
26	17.672	2	D160B26		7½	5	5	196.60
30	20.228	2	D160B30		7½	5	5	260.10

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

† Dimensions shown allow for standard keyway with set screw at 90°



TYPE B

### CHAIN TECHNICAL DATA

Size	160-2
Pitch	2"
Inside Width	1¼"
Roller Diameter	1.125"

## 2" Pitch — QD®



Dimensions are in inches unless otherwise indicated.

160 QD® 2" Pitch													
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	Type	Hub Dia.	LTB	X	Y	L	F	Wt. Lbs.
12	8.664	160E12		E	3½	B <sub>1</sub>	5 <sup>11</sup> / <sub>16</sub>	1 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>15</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	6	11.20
13	9.314	160E13		E	3½	B <sub>1</sub>	6¼	1 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>15</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	6	14.20
14	9.962	160E14		E	3½	B <sub>1</sub>	6¼	1 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>15</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>	6	17.40
15	10.608	160F15		F	4	B <sub>1</sub>	7	2½	3 <sup>5</sup> / <sub>8</sub>	4	2 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	24.70
16	11.254	160F16		F	4	B <sub>1</sub>	7	2½	3 <sup>5</sup> / <sub>8</sub>	4	2 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	29.00
17	11.898	160F17		F	4	B <sub>1</sub>	7	2½	3 <sup>5</sup> / <sub>8</sub>	4	2 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	30.70
18	12.542	160F18		F	4	B <sub>1</sub>	7	2½	3 <sup>5</sup> / <sub>8</sub>	4	2 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	33.80
19	13.186	160F19		F	4	B <sub>1</sub>	7	2½	3 <sup>5</sup> / <sub>8</sub>	4	2 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	37.90
20	13.828	160F20		F	4	B <sub>1</sub>	7	2½	3 <sup>5</sup> / <sub>8</sub>	4	2 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	43.00
21	14.470	160F21		F	4	B <sub>1</sub>	7	2½	3 <sup>5</sup> / <sub>8</sub>	4	2 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	45.90
22	15.110	160F22		F	4	B <sub>1</sub>	7	2½	3 <sup>5</sup> / <sub>8</sub>	4	2 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	51.10
23	15.752	160F23		F	4	B <sub>1</sub>	7	2½	3 <sup>5</sup> / <sub>8</sub>	4	2 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	54.80
24	16.392	160F24		F	4	B <sub>1</sub>	7	2½	3 <sup>5</sup> / <sub>8</sub>	4	2 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	60.40
25	17.032	160F25		F	4	B <sub>1</sub>	7	2½	3 <sup>5</sup> / <sub>8</sub>	4	2 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	64.60
26	17.672	160J26		J	4½	C	8	3 <sup>3</sup> / <sub>16</sub>	4½	5	1 <sup>1</sup> / <sub>16</sub>	7¼	77.00
28	18.950	160J28		J	4½	C	8	3 <sup>3</sup> / <sub>16</sub>	4½	5	1 <sup>1</sup> / <sub>16</sub>	7¼	86.00
30	20.228	160J30		J	4½	C	8	3 <sup>3</sup> / <sub>16</sub>	4½	5	1 <sup>1</sup> / <sub>16</sub>	7¼	110.00
35	23.422	160J35		J	4½	C	8	3 <sup>3</sup> / <sub>16</sub>	4½	5	1 <sup>1</sup> / <sub>16</sub>	7¼	131.00
40	26.612	160M40		M	5½	C <sub>1</sub>	10	5 <sup>3</sup> / <sub>16</sub>	6¾	6¾	2 <sup>1</sup> / <sub>16</sub>	9	196.00
45	29.802	160M45		M	5½	C <sub>1</sub>	10	5 <sup>3</sup> / <sub>16</sub>	6¾	6¾	2 <sup>1</sup> / <sub>16</sub>	9	237.00
54	35.538	160M54		M	5½	C <sub>1</sub>	10	5 <sup>3</sup> / <sub>16</sub>	6¾	6¾	2 <sup>1</sup> / <sub>16</sub>	9	325.00
60	39.362	160M60		M	5½	C <sub>1</sub>	10	5 <sup>3</sup> / <sub>16</sub>	6¾	6¾	2 <sup>1</sup> / <sub>16</sub>	9	378.00
70	45.734	160M70		M	5½	C <sub>1</sub>	10	5 <sup>3</sup> / <sub>16</sub>	6¾	6¾	2 <sup>1</sup> / <sub>16</sub>	9	505.00
80	52.104	160M80		M	5½	C <sub>1</sub>	10	5 <sup>3</sup> / <sub>16</sub>	6¾	6¾	2 <sup>1</sup> / <sub>16</sub>	9	671.00

Dimensions are in inches unless otherwise indicated.

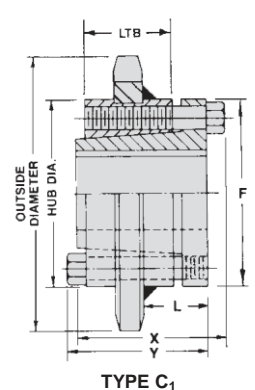
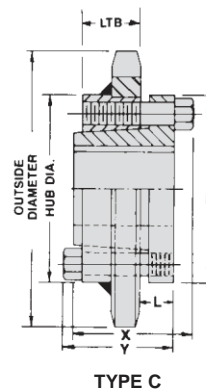
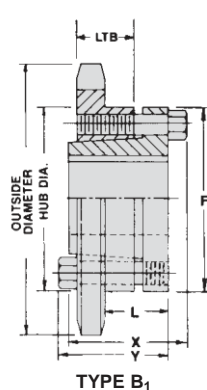
QD® Bushings					
Bushing	List Price	Bore Range		No Keyway	Wt. Lbs.
		Standard Keyway	Shallow Keyway		
E		7/8 — 2¾	2 <sup>13</sup> / <sub>16</sub> — 3 <sup>1</sup> / <sub>16</sub>	3½	7.10
F		1 — 3¼	3 <sup>3</sup> / <sub>16</sub> — 3 <sup>15</sup> / <sub>16</sub>	4	8.70
J		1 <sup>1</sup> / <sub>16</sub> — 3¾	3 <sup>3</sup> / <sub>16</sub> — 4½	—	16.80
M		2 — 4¾	4 <sup>7</sup> / <sub>8</sub> — 5½	—	56.00

Refer to page 72 for bushing specifications

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### CHAIN TECHNICAL DATA

Size	160
Pitch	2"
Inside Width	1¼"



# No. 180

## 2 1/4" Pitch — Plain Bore

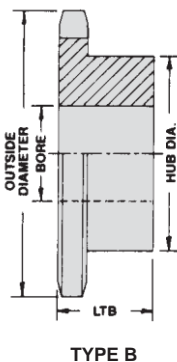
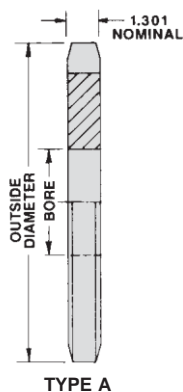
Dimensions are in inches unless otherwise indicated.

Sprocket Diameters				Type A				Type B						
No. Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalog Number	List Price	Plain Bore	Wt. Lbs.	Catalog Number	List Price	Plain Bore	†Max. Bore	^Hub Dia.	LTB	Wt. Lbs.
11	9.010	7.986	6.499	180A11		1 3/8	15.00	180B11		1 3/8	3 5/8	5 1/2	2 15/16	30.00
12	9.750	8.693	7.287	180A12		1 3/8	17.00	180B12		1 3/8	4	6	2 15/16	34.00
13	10.480	9.402	7.927	180A13		1 3/8	21.50	180B13		1 3/8	4	6	2 15/16	36.00
14	11.210	10.111	8.705	180A14		1 3/8	25.50	180B14		1 3/8	5 1/4	7	3 3/8	42.00
15	11.940	10.822	9.357	180A15		1 3/8	28.80	180B15		1 3/8	5 1/4	7	3 3/8	45.00
16	12.660	11.533	10.127	180A16		1 3/8	33.10	180B16		1 3/8	5 1/4	7	3 3/8	51.00
17	13.390	12.245	10.787	180A17		1 3/8	37.70	180B17		1 3/8	5 1/4	7	3 3/8	56.00
18	14.110	12.957	11.551	180A18		1 3/8	42.30	180B18		1 3/8	5 1/4	7	3 3/8	61.00
19	14.830	13.670	12.217	180A19		1 3/8	47.90	180B19		1 3/8	5 3/8	7 1/2	3 3/8	66.00
20	15.560	14.383	12.977	180A20		1 3/8	52.80	180B20		1 3/8	5 3/8	7 1/2	3 3/8	72.00
21	16.280	15.096	13.648	180A21		1 3/8	59.00	180B21		1 3/8	5 3/8	7 1/2	3 3/8	78.00
22	17.000	15.810	14.404	180A22		1 3/8	65.00	180B22		1 3/8	5 3/8	7 1/2	3 3/8	87.00
23	17.720	16.524	15.079	180A23		1 3/8	72.10	180B23		1 3/8	5 3/8	7 1/2	3 3/8	95.00
24	18.440	17.238	15.832	180A24		1 3/8	81.10	180B24		1 3/8	5 3/8	7 1/2	3 3/8	103.00
25	19.160	17.952	16.511	180A25		1 3/8	85.00	180B25		1 3/8	5 3/8	7 1/2	3 3/8	110.00
28	21.320	20.096	18.690	180A28		1 3/8	105.00	180B28		1 3/8	5 1/2	8	3 11/16	135.00
30	22.760	21.525	20.119	180A30		1 3/8	124.00							
35	26.350	25.101	23.669	180A35		1 3/8	171.00							
40	29.940	28.677	27.271	180A40		1 3/8	222.00							
45	33.530	32.255	30.829	180A45		1 3/8	278.00							
54	39.980	38.696	37.290	180A54		1 3/8	402.00							
60	44.280	42.992	41.586	180A60		1 3/8	499.00							

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

† Dimensions shown allow for standard keyway with set screw at 90°

^ Hub diameter may vary to suit bore sizes



### CHAIN TECHNICAL DATA

Size	180
Pitch	2 1/4"
Inside Width	1 13/32"
Roller Diameter	1.406"

## 2 1/2" Pitch — Plain Bore



Dimensions are in inches unless otherwise indicated.

Sprocket Diameters 2 1/2" Pitch				Type A				Type B, Type C						
No. Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalog Number	List Price	Plain Bore	Wt. Lbs.	Catalog Number	List Price	Plain Bore	†Max. Bore	^Hub Dia.	LTB	Wt. Lbs.
10	9.200	8.090	6.528	200A10		1 3/8	16.30	200B10		1 3/8	3 1/2	5 1/2	3	30.00
11	10.020	8.872	7.219	200A11		1 3/8	20.20	200B11		1 3/8	3 3/4	6	3	35.00
12	10.830	9.660	8.098	200A12		1 3/8	24.30	200B12		1 3/8	3 3/4	6	3	39.00
13	11.640	10.447	8.808	200A13		1 3/8	28.70	200B13		1 3/8	4 1/8	6 1/4	3	42.00
14	12.460	11.235	9.673	200A14		1 3/8	34.40	200B14		1 3/8	5 3/8	7 1/2	3 7/16	65.00
15	13.260	12.025	10.397	200A15		1 3/8	39.00	200B15		1 3/8	5 3/8	7 1/2	3 7/16	70.00
16	14.070	12.815	11.253	200A16		1 3/8	45.60	200B16		1 3/8	5 3/8	7 1/2	3 7/16	76.00
17	14.870	13.605	11.985	200A17		1 3/8	49.70	200B17		1 3/8	5 3/8	7 1/2	3 7/16	82.00
18	15.680	14.397	12.835	200A18		1 3/8	56.00	200B18		1 3/8	5 3/8	7 1/2	3 7/16	89.00
19	16.480	15.190	13.576	200A19		1 3/8	63.00	200B19		1 3/8	5 3/8	7 1/2	3 7/16	96.00
20	17.290	15.982	14.420	200A20		1 3/8	70.00	200B20		1 3/8	5 3/8	7 1/2	3 7/16	104.00
21	18.090	16.775	15.166	200A21		1 3/8	78.00	200B21		1 3/8	5 3/8	7 1/2	3 7/16	112.00
22	18.890	17.567	16.005	200A22		1 3/8	89.00	200B22		1 3/8	5 3/4	8 1/2	4	134.00
23	19.690	18.360	16.755	200A23		1 3/8	101.00	200B23		1 3/8	5 3/4	8 1/2	4	143.00
24	20.490	19.152	17.590	200A24		1 3/8	102.00	200B24		1 3/8	5 3/4	8 1/2	4	152.00
25	21.290	19.947	18.346	200A25		1 3/8	118.00	200B25		1 3/8	5 3/4	8 1/2	4	161.00
26	22.090	20.740	19.178	200A26		1 3/8	124.00	200C26		1 3/8	5 3/4	8 1/2	4 1/2	177.00
28	23.690	22.330	20.768	200A28		1 3/8	146.00	200C28		1 3/8	5 3/4	8 1/2	4 1/2	195.00
30	25.290	23.917	22.355	200A30		1 3/8	162.00	200C30		1 3/8	5 3/4	8 1/2	4 1/2	220.00
32	26.880	25.505	23.943	200A32		1 3/8	190.00							
35	29.280	27.890	26.300	200A35		1 3/8	224.00							
40	33.270	31.865	30.303	200A40		1 3/8	291.00							
45	37.250	35.840	34.256	200A45		1 3/8	356.00							
54	44.420	42.995	41.433	200A54		1 3/8	479.00							
60	49.200	47.767	46.205	200A60		1 3/8	659.00							

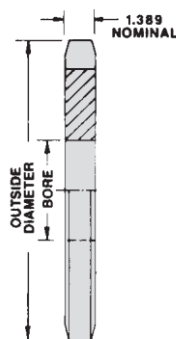
SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

† Dimensions shown allow for standard keyway with set screw at 90°

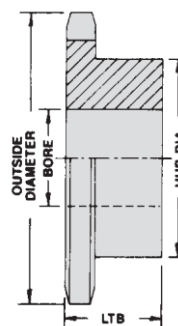
^ Hub diameter may vary to suit bore sizes

### CHAIN TECHNICAL DATA

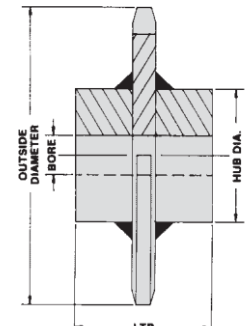
Size	200
Pitch	2 1/2"
Inside Width	1 1/2"



TYPE A



TYPE B



TYPE C



# No. 240

## 3" Pitch — Plain Bore

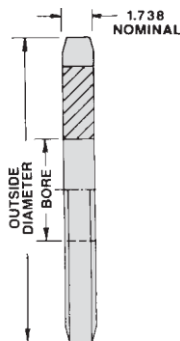
Dimensions are in inches unless otherwise indicated.

Sprocket Diameters 3" Pitch				Type A				Type B						
No. Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalog Number	List Price	Plain Bore	Wt. Lbs.	Catalog Number	List Price	Plain Bore	†Max. Bore	^Hub Dia.	LTB	Wt. Lbs.
10	11.030	9.708	7.833	240A10		1 3/8	30.50	240B10		1 3/8	4 1/4	6 1/4	3 3/8	47.00
11	12.020	10.648	8.665	240A11		1 3/8	36.60	240B11		1 3/8	4 3/4	7	3 1/16	66.00
12	13.000	11.591	9.716	240A12		1 3/8	45.40	240B12		1 3/8	4 3/4	7	3 1/16	74.00
13	13.970	12.536	10.569	240A13		1 3/8	52.50	240B13		1 3/8	5 3/8	7 1/2	3 3/8	87.00
14	14.940	13.482	11.607	240A14		1 3/8	60.90	240B14		1 3/8	5 3/8	7 1/2	3 3/8	98.00
15	15.910	14.429	12.475	240A15		1 3/8	71.00	240B15		1 3/8	5 3/8	7 1/2	3 3/8	108.00
16	16.880	15.377	13.502	240A16		1 3/8	80.00	240B16		1 3/8	5 1/2	8	4 1/8	124.00
17	17.850	16.327	14.382	240A17		1 3/8	93.00	240B17		1 3/8	5 1/2	8	4 1/8	140.00
18	18.810	17.276	15.401	240A18		1 3/8	103.00	240B18		1 3/8	5 1/2	8	4 1/8	149.00
19	19.780	18.227	16.289	240A19		1 3/8	116.00	240B19		1 3/8	5 1/2	8	4 1/8	165.00
20	20.740	19.177	17.302	240A20		1 3/8	130.00	240B20		1 3/8	5 1/2	8	4 1/8	175.00
21	21.700	20.129	18.197	240A21		1 3/8	141.00	240B21		1 3/8	5 1/2	8	4 1/8	195.00
25	25.550	23.936	22.014	240A25		1 3/8	206.00	240B25		1 3/8	5 1/2	8	4 1/8	260.00
30	30.340	28.700	26.825	240A30		1 3/8	293.00							
35	35.130	33.467	31.559	240A35		1 3/8	403.00							
40	39.920	38.237	36.362	240A40		1 3/8	528.00							
45	44.700	43.007	41.106	240A45		1 3/8	681.00							
54	53.310	51.595	49.720	240A54		1 3/8	1012.00							
60	59.040	57.322	55.447	240A60		1 3/8	1261.00							

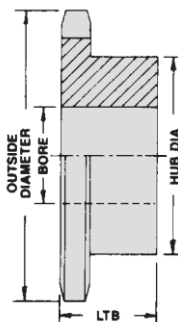
SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

† Dimensions shown allow for standard keyway with set screw at 90°

^ Hub diameter may vary to suit bore sizes



TYPE A



TYPE B

### CHAIN TECHNICAL DATA

Size	240
Pitch	3"
Inside Width	1 7/8"
Roller Diameter	1.875"

# Double Pitch Sprockets

Conveyor or Drive Series — Standard Roller Double Pitch Sprocket  
for C2040/A2040 Chain — 1" Pitch

Dimensions are in inches unless otherwise indicated.

Basic Sprocket Dimensions				Single — Type B						Single — Type A				
				Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.	Catalog Number	List Price	Plain Bore	Wt. Lbs.
11	2.000	1.852	1.537	2040B11		1/2	13/16	1 3/8 ▲	7/8	.34				
12	2.170	2.000	1.688	2040B12		1/2	1	1 21/32 ▲	7/8	.44				
13	2.320	2.152	1.824	2040B13		1/2	1	1 13/16 ▲	7/8	.48				
14	2.490	2.305	1.993	2040B14		1/2	1	1 13/16 ▲	7/8	.60				
15	2.640	2.458	2.133	2040B15		1/2	1 1/8	1 11/16	7/8	.66				
16	2.810	2.613	2.301	2040B16		5/8	1 3/16	1 7/8	7/8	.76				
17	2.970	2.768	2.444	2040B17		5/8	1 1/4	2 1/16	7/8	1.00				
18	3.140	2.924	2.612	2040B18		5/8	1 3/8	2 3/16	7/8	1.16				
19	3.290	3.080	2.757	2040B19		5/8	1 1/2	2 3/8	7/8	1.36				
20	3.460	3.236	2.924	2040B20		5/8	1 3/4	2 1/2	1	1.54				
21	3.610	3.392	3.070	2040B21		5/8	1 3/4	2 1/2	1	1.65				
22	3.780	3.549	3.237	2040B22		5/8	1 3/4	2 1/2	1	2.00				
23	3.930	3.706	3.386	2040B23		5/8	1 3/4	2 1/2	1	2.16	2040A23		5/8	.77
24	4.100	3.864	3.552	2040B24		5/8	1 3/4	2 1/2	1	2.25	2040A24		5/8	.84
25	4.260	4.021	3.701	2040B25		5/8	1 3/4	2 1/2	1	2.30	2040A25		5/8	.91
26	4.420	4.179	3.867	2040B26		5/8	1 3/4	2 1/2	1	2.40	2040A26		5/8	1.00
28	4.740	4.494	4.182	2040B28		5/8	1 3/4	2 1/2	1	2.55	2040A28		5/8	1.10
30	5.060	4.810	4.498	2040B30		5/8	1 3/4	2 1/2	1	2.74	2040A30		5/8	1.30

▲ Has recessed groove in hub for chain clearance

Conveyor Series — Large Roller Double Pitch Sprocket for C2042 Chain — 1" Pitch

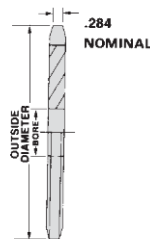
Dimensions are in inches unless otherwise indicated.

Basic Sprocket Dimensions				Single — Type B						Single — Type A				
No. Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.	Catalog Number	List Price	Plain Bore	Wt. Lbs.
8	3.010	2.613	1.988	2042B8		5/8	1 1/32	1 7/8	7/8	.72				
9	3.350	2.924	2.255	2042B9		5/8	1 15/32	2 7/32	7/8	1.02				
10	3.680	3.236	2.611	2042B10		5/8	1 3/4	2 39/64	1	1.50				
11	4.010	3.549	2.888	2042B11		5/8	1 7/8	2 3/8	1	1.68				
12	4.330	3.864	3.239	2042B12		5/8	2 1/4	3 1/16	1	2.22				
13	4.660	4.179	3.523	2042B13		5/8	2 1/4	3 3/4	1	2.56				
14	4.980	4.494	3.869	2042B14		5/8	2 1/4	3 3/4	1	2.72				
15	5.310	4.810	4.158	2042B15		5/8	2 1/4	3 3/4	1	2.90				
16	5.630	5.126	4.501	2042B16		5/8	2 1/4	3 3/4	1	3.10	2042A16		5/8	1.30
17	5.950	5.442	4.794	2042B17		5/8	2 1/4	3 3/4	1	3.40	2042A17		5/8	1.60
18	6.270	5.759	5.134	2042B18		5/8	2 1/4	3 3/4	1	3.56	2042A18		5/8	1.80
19	6.590	6.076	5.430	2042B19		5/8	2 1/4	3 3/4	1	3.72	2042A19		5/8	2.00
20	6.910	6.392	5.768	2042B20		3/4	2 3/8	3 1/2	1 1/8	4.72	2042A20		3/4	2.40
21	7.240	6.710	6.066	2042B21		3/4	2 3/8	3 1/2	1 1/8	4.84	2042A21		3/4	2.60
22	7.560	7.027	6.402	2042B22		3/4	2 3/8	3 1/2	1 1/8	5.18	2042A22		3/4	2.80
23	7.880	7.344	6.702	2042B23		3/4	2 3/8	3 1/2	1 1/8	5.04	2042A23		3/4	3.10
24	8.200	7.661	7.036	2042B24		3/4	2 3/8	3 1/2	1 1/8	5.58	2042A24		3/4	3.20
25	8.520	7.979	7.338	2042B25		3/4	2 3/8	3 1/2	1 1/8	5.96	2042A25		3/4	3.50
26	8.840	8.296	7.671	2042B26		3/4	2 3/8	3 1/2	1 1/8	6.22	2042A26		3/4	3.70
28	9.480	8.931	8.307	2042B28		3/4	2 3/8	3 1/2	1 1/8	6.78	2042A28		3/4	4.70
30	10.110	9.567	8.942	2042B30		3/4	2 3/8	3 1/2	1 1/8	7.56	2042A30		3/4	5.00

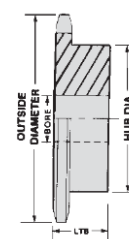
SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

† Dimensions shown allow for standard keyway with set screw at 90°

CHAIN TECHNICAL DATA			
Size	A2040	C2040	C2042
Pitch	1"	1"	1"
Inside Width	5/16"	5/16"	5/16"
Roller Diameter	.313"	.313"	.625"



TYPE A



TYPE B

# Double Pitch Sprockets

Conveyor or Drive Series — Standard Roller Double Pitch Sprocket  
for C2050/A2050 Chain — 1¼" Pitch

Dimensions are in inches unless otherwise indicated.

Basic Sprocket Dimensions				Single — Type B							Single — Type A			
No. Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.	Catalog Number	List Price	Plain Bore	Wt. Lbs.
11	2.500	2.315	1.912	2050B11		5/8	13/16	1 3/4 ▲	1	.62				
12	2.710	2.500	2.100	2050B12		5/8	1	1 7/8 ▲	1	.80				
13	2.900	2.690	2.270	2050B13		5/8	1 1/32	1 15/16 ▲	1	.82				
14	3.110	2.881	2.481	2050B14		5/8	1 9/32	2 ▲	1	1.00				
15	3.310	3.073	2.656	2050B15		5/8	1 7/16	2 1/8	1	1.22				
16	3.520	3.266	2.866	2050B16		5/8	1 19/32	2 5/16	1	1.44				
17	3.710	3.460	3.046	2050B17		5/8	1 3/4	2 9/16	1	1.68				
18	3.920	3.655	3.255	2050B18		5/8	1 25/32	2 3/4	1	1.94				
19	4.120	3.850	3.436	2050B19		5/8	1 31/32	2 7/8	1	2.24				
20	4.320	4.045	3.645	2050B20		5/8	2	3	1	2.30				
21	4.520	4.241	3.829	2050B21		3/4	2	3	1 1/4	2.40	2050A21		3/4	1.20
22	4.720	4.437	4.037	2050B22		3/4	2	3	1 1/4	2.54	2050A22		3/4	1.30
23	4.920	4.633	4.222	2050B23		3/4	2	3	1 1/4	2.66	2050A23		3/4	1.40
24	5.120	4.830	4.430	2050B24		3/4	2	3	1 1/4	3.30	2050A24		3/4	1.60
25	5.320	5.026	4.616	2050B25		3/4	2	3	1 1/4	3.42	2050A25		3/4	1.70
26	5.520	5.223	4.823	2050B26		3/4	2	3	1 1/4	3.62	2050A26		3/4	1.80
28	5.920	5.617	5.217	2050B28		3/4	2	3	1 1/4	3.78	2050A28		3/4	2.10
30	6.320	6.012	5.612	2050B30		3/4	2	3	1 1/4	4.58	2050A30		3/4	2.50

▲ Has recessed groove in hub for chain clearance

Conveyor Series — Large Roller Double Pitch Sprocket for C2052 Chain — 1¼" Pitch

Dimensions are in inches unless otherwise indicated.

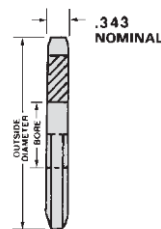
Basic Sprocket Dimensions				Single — Type B							Single — Type A			
No. Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.	Catalog Number	List Price	Plain Bore	Wt. Lbs.
8	3.770	3.266	2.516	2052B8		5/8	1 19/32	2 23/64	1	1.38				
9	4.180	3.655	2.850	2052B9		5/8	1 25/32	2 15/32	1	1.92				
10	4.600	4.045	3.295	2052B10		5/8	2	3	1	2.30				
11	5.010	4.437	3.642	2052B11		5/8	2	3	1	2.54				
12	5.420	4.830	4.080	2052B12		3/4	2	3	1 1/4	3.20	2052A12		3/4	1.60
13	5.820	5.223	4.435	2052B13		3/4	2	3	1 1/4	3.48	2052A13		3/4	1.80
14	6.230	5.617	4.867	2052B14		3/4	2	3	1 1/4	3.88	2052A14		3/4	2.30
15	6.630	6.012	5.229	2052B15		3/4	2 1/4	3 1/4	1 1/4	4.46	2052A15		3/4	2.40
16	7.030	6.407	5.657	2052B16		3/4	2 1/4	3 1/4	1 1/4	4.80	2052A16		3/4	2.80
17	7.440	6.803	6.024	2052B17		3/4	2 1/4	3 1/4	1 1/4	5.34	2052A17		3/4	3.30
18	7.840	7.198	6.448	2052B18		3/4	2 1/4	3 1/4	1 1/4	5.64	2052A18		3/4	3.60
19	8.240	7.595	6.819	2052B19		3/4	2 1/4	3 1/4	1 1/4	6.04	2052A19		3/4	4.10
20	8.640	7.991	7.241	2052B20		3/4	2 1/4	3 1/4	1 1/4	6.48	2052A20		3/4	4.70
21	9.040	8.387	7.614	2052B21		3/4	2 1/4	3 1/4	1 1/4	7.00	2052A21		3/4	5.00
22	9.440	8.783	8.033	2052B22		3/4	2 1/4	3 1/4	1 1/4	7.30	2052A22		3/4	5.20
23	9.840	9.180	8.409	2052B23		1	2 3/4	3 3/4	1 1/4	8.66	2052A23		1	5.70
24	10.250	9.577	8.827	2052B24		1	2 3/4	3 3/4	1 1/4	9.32	2052A24		1	6.70
25	10.650	9.973	9.204	2052B25		1	2 3/4	3 3/4	1 1/4	10.30	2052A25		1	7.50
26	11.050	10.370	9.620	2052B26		1	2 3/4	3 3/4	1 1/4	11.00	2052A26		1	8.20
28	11.840	11.164	10.414	2052B28		1	2 3/4	3 3/4	1 1/4	11.70	2052A28		1	8.70
30	12.640	11.958	11.208	2052B30		1	2 3/4	3 3/4	1 1/4	12.90	2052A30		1	9.80

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

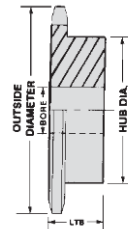
† Dimensions shown allow for standard keyway with set screw at 90°

## CHAIN TECHNICAL DATA

Size	A2050	C2050	C2052
Pitch	1 1/4"	1 1/4"	1 1/4"
Inside Width	3/8"	3/8"	3/8"
Roller Diameter	.400"	.400"	.750"



TYPE A



TYPE B

# Double Pitch Sprockets

Conveyor or Drive Series — Standard Roller Double Pitch Sprocket  
for C2060/A2060 Chain — 1½" Pitch

Dimensions are in inches unless otherwise indicated.

Basic Sprocket Dimensions				Single — Type B						Single — Type A				
No. Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.	Catalog Number	List Price	Plain Bore	Wt. Lbs.
11	3.000	2.773	2.276	2060B11		¾	1	2¼ <sup>16</sup> ▲	1¼	1.14				
12	3.250	3.000	2.531	2060B12		¾	1⅜	2¼ <sup>16</sup> ▲	1¼	1.46				
13	3.480	3.228	2.735	2060B13		¾	1⅞	2 <sup>5</sup> / <sub>16</sub> ▲	1¼	1.52				
14	3.740	3.457	2.988	2060B14		¾	1⅞	2½ ▲	1¼	1.86				
15	3.960	3.688	3.199	2060B15		¾	1¾	2½	1¼	2.24				
16	4.220	3.920	3.451	2060B16		¾	1⅞	2¾	1¼	2.64				
17	4.450	4.152	3.666	2060B17		¾	2 <sup>3</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>32</sub>	1¼	3.08				
18	4.700	4.386	3.917	2060B18		¾	2¼	3¼	1¼	3.56				
19	4.940	4.620	4.135	2060B19		¾	2¼	3¼	1½	3.94	2060A19		¾	2.10
20	5.190	4.854	4.385	2060B20		¾	2¼	3¼	1½	4.50	2060A20		¾	2.40
21	5.420	5.089	4.606	2060B21		¾	2¼	3¼	1½	5.02	2060A21		¾	2.50
22	5.670	5.324	4.855	2060B22		¾	2¼	3¼	1½	5.26	2060A22		¾	2.70
23	5.900	5.560	5.077	2060B23		¾	2¼	3¼	1½	5.54	2060A23		¾	3.00
24	6.150	5.796	5.327	2060B24		¾	2¼	3¼	1½	5.90	2060A24		¾	3.20
25	6.380	6.032	5.551	2060B25		¾	2¼	3¼	1½	6.08	2060A25		¾	3.30
26	6.630	6.268	5.799	2060B26		¾	2¼	3¼	1½	6.36	2060A26		¾	3.50
28	7.110	6.741	6.272	2060B28		¾	2¼	3¼	1½	7.02	2060A28		¾	4.00
30	7.590	7.215	6.746	2060B30		¾	2¼	3¼	1½	7.54	2060A30		¾	4.70

▲ Has recessed groove in hub for chain clearance

Conveyor Series — Large Roller Double Pitch Sprocket for C2062 Chain — 1½" Pitch

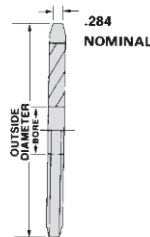
Dimensions are in inches unless otherwise indicated.

Basic Sprocket Dimensions				Single — Type B						Single — Type A				
No. Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.	Catalog Number	List Price	Plain Bore	Wt. Lbs.
8	4.520	3.920	3.045	2062B8		¾	1 <sup>2</sup> / <sub>32</sub>	2 <sup>27</sup> / <sub>32</sub>	1¼	2.60				
9	5.020	4.386	3.444	2062B9		¾	2 <sup>9</sup> / <sub>32</sub>	3 <sup>11</sup> / <sub>32</sub>	1¼	3.48				
10	5.520	4.584	3.979	2062B10		¾	2 <sup>9</sup> / <sub>16</sub>	3 <sup>53</sup> / <sub>64</sub>	1¼	4.54				
11	6.010	5.324	4.395	2062B11		¾	2¾	4	1¼	5.20				
12	6.500	5.796	4.921	2062B12		¾	2¾	4	1½	5.70	2062A12		¾	3.00
13	6.990	6.268	5.347	2062B13		¾	2¾	4	1½	6.28	2062A13		¾	3.60
14	7.470	6.741	5.866	2062B14		¾	2¾	4	1½	6.82	2062A14		¾	4.00
15	7.960	7.215	6.300	2062B15		¾	2¾	4	1½	7.48	2062A15		¾	4.70
16	8.440	7.689	6.814	2062B16		¾	2¾	4	1½	8.18	2062A16		¾	5.70
17	8.920	8.163	7.253	2062B17		¾	2¾	4	1½	8.82	2062A17		¾	6.10
18	9.410	8.638	7.763	2062B18		¾	2¾	4	1½	9.36	2062A18		¾	7.00
19	9.890	9.113	8.207	2062B19		1	2¾	4¼	1½	11.10	2062A19		1	8.00
20	10.370	9.589	8.714	2062B20		1	2¾	4¼	1½	11.66	2062A20		1	8.50
21	10.850	10.064	9.161	2062B21		1	2¾	4¼	1½	13.24	2062A21		1	8.90
22	11.330	10.540	9.665	2062B22		1	2¾	4¼	1½	13.78	2062A22		1	10.70
23	11.810	11.016	10.115	2062B23		1	2¾	4¼	1½	14.90	2062A23		1	11.60
24	12.290	11.492	10.617	2062B24		1	2¾	4¼	1½	15.66	2062A24		1	12.60
25	12.770	11.968	11.070	2062B25		1	2¾	4¼	1½	16.80	2062A25		1	13.80
26	13.250	12.444	11.569	2062B26		1	2¾	4¼	1½	20.20	2062A26		1	15.00
28	14.210	13.397	12.522	2062B28		1	2¾	4¼	1½	21.86	2062A28		1	17.30
30	15.170	14.350	13.475	2062B30		1	2¾	4¼	1½	26.00	2062A30		1	19.50

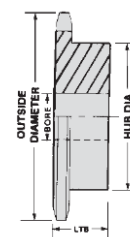
SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

† Dimensions shown allow for standard keyway with set screw at 90°

CHAIN TECHNICAL DATA			
Size	A2060	C2060	C2062
Pitch	1½"	1½"	1½"
Inside Width	½"	½"	½"
Roller Diameter	.469"	.469"	.875"



TYPE A



TYPE B

# Double Pitch Sprockets

Conveyor or Drive Series — Standard Roller Double Pitch Sprocket  
for C2080/A2080 Chain — 2" Pitch

Dimensions are in inches unless otherwise indicated.

Basic Sprocket Dimensions				Single — Type B							Single — Type A			
No. Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.	Catalog Number	List Price	Plain Bore	Wt. Lbs.
11	4.010	3.694	3.074	2080B11		1	1½	2 <sup>13</sup> / <sub>16</sub> ▲	1¾	2.50				
12	4.330	4.000	3.375	2080B12		1	1¾	3 ▲	1¾	3.20				
13	4.640	4.304	3.647	2080B13		1	1⅞	3 <sup>1</sup> / <sub>16</sub> ▲	1¾	3.30				
14	4.980	4.610	3.985	2080B14		1	2⅛	3 <sup>3</sup> / <sub>8</sub> ▲	1¾	4.00				
15	5.290	4.917	4.265	2080B15		1	2⅜	3 <sup>7</sup> / <sub>16</sub>	1⅞	4.80				
16	5.630	5.226	4.601	2080B16		1	2¼	3¼	1⅞	5.70	2080A16		1	3.10
17	5.940	5.536	4.888	2080B17		1	2¼	3¼	1⅞	6.40	2080A17		1	3.50
18	6.270	5.848	5.223	2080B18		1	2¼	3¼	1⅞	7.40	2080A18		1	4.00
19	6.580	6.160	5.513	2080B19		1	2¾	4	1⅞	7.70	2080A19		1	4.40
20	6.910	6.472	5.845	2080B20		1	2¾	4	1⅞	8.30	2080A20		1	4.40
21	7.230	6.785	6.141	2080B21		1	2¾	4	1⅞	9.40	2080A21		1	5.00
22	7.560	7.099	6.474	2080B22		1	2¾	4	1⅞	10.00	2080A22		1	5.60
23	7.870	7.413	6.770	2080B23		1	2¾	4	1⅞	10.50	2080A23		1	6.20
24	8.200	7.727	7.102	2080B24		1	2¾	4	1⅞	11.10	2080A24		1	6.60
25	8.510	8.042	7.401	2080B25		1	2¾	4	1⅞	12.00	2080A25		1	7.00
26	8.840	8.357	7.732	2080B26		1¾	3¼	4¾	1⅞	14.80	2080A26		1¾	7.90
28	9.480	8.988	8.363	2080B28		1¾	3¼	4¾	1⅞	16.60	2080A28		1¾	9.00
30	10.110	9.620	8.995	2080B30		1¾	3¼	4¾	1⅞	17.80	2080A30		1¾	10.60

▲ Has recessed groove in hub for chain clearance

Conveyor Series — Large Roller Double Pitch Sprocket for C2082 Chain — 2" Pitch

Dimensions are in inches unless otherwise indicated.

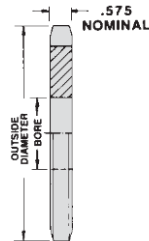
Basic Sprocket Dimensions				Single — Type B							Single — Type A			
No. Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalog Number	List Price	Plain Bore	†Max. Bore	Hub Dia.	LTB	Wt. Lbs.	Catalog Number	List Price	Plain Bore	Wt. Lbs.
8	6.030	5.226	4.101	2082B8		1	2 <sup>1</sup> / <sub>32</sub>	3 <sup>51</sup> / <sub>64</sub>	1¾	6.40				
9	6.700	5.848	4.634	2082B9		1	2¾	4¼	1¾	8.20				
10	7.360	6.472	5.347	2082B10		1	2¾	4¼	1¾	9.20				
11	8.010	7.099	5.902	2082B11		1	2¾	4¼	1¾	10.10	2082A11		1	5.70
12	8.660	7.727	6.602	2082B12		1	2¾	4¼	1¾	11.20	2082A12		1	6.80
13	9.320	8.357	7.171	2082B13		1¾	3¼	4¾	1⅞	15.00	2082A13		1¾	7.70
14	9.960	8.988	7.863	2082B14		1¾	3¼	4¾	1⅞	15.80	2082A14		1¾	9.10
15	10.610	9.620	8.442	2082B15		1¾	3¼	4¾	1⅞	17.80	2082A15		1¾	10.70
16	11.260	10.252	9.127	2082B16		1¾	3¼	4¾	1⅞	19.30	2082A16		1¾	12.40
17	11.900	10.885	9.713	2082B17		1¾	3¼	4¾	1⅞	21.40	2082A17		1¾	14.10
18	12.540	11.518	10.393	2082B18		1¾	3¼	4¾	1⅞	22.90	2082A18		1¾	15.40
19	13.190	12.151	10.985	2082B19		1¾	3¼	4¾	1⅞	24.40	2082A19		1¾	18.00
20	13.830	12.785	11.660	2082B20		1¾	3¼	4¾	1⅞	26.70	2082A20		1¾	19.20
21	14.470	13.419	12.256	2082B21		1¾	3¼	4¾	1⅞	28.40	2082A21		1¾	20.80
22	15.110	14.053	12.928	2082B22		1¾	3¼	4¾	1⅞	39.60	2082A22		1¾	23.70
23	15.750	14.688	13.528	2082B23		1¾	3¼	4¾	1⅞	32.20	2082A23		1¾	24.90
24	16.390	15.323	14.198	2082B24		1¾	3¼	4¾	1⅞	34.90	2082A24		1¾	27.60
25	17.030	15.958	14.801	2082B25		1¾	3¼	4¾	1⅞	37.80	2082A25		1¾	30.20
26	17.670	16.593	15.468	2082B26		1¾	3½	5¼	2	41.50	2082A26		1¾	32.80
28	18.950	17.863	16.738	2082B28		1¾	3½	5¼	2	47.70	2082A28		1¾	38.60
30	20.230	19.134	18.009	2082B30		1¾	3½	5¼	2	54.50	2082A30		1¾	43.80

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES

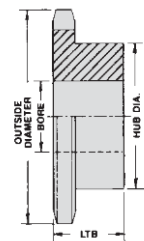
† Dimensions shown allow for standard keyway with set screw at 90°

### CHAIN TECHNICAL DATA

Size	A2080	C2080	C2082
Pitch	2"	2"	2"
Inside Width	5/8"	5/8"	5/8"
Roller Diameter	.625"	.625"	1.125"



TYPE A



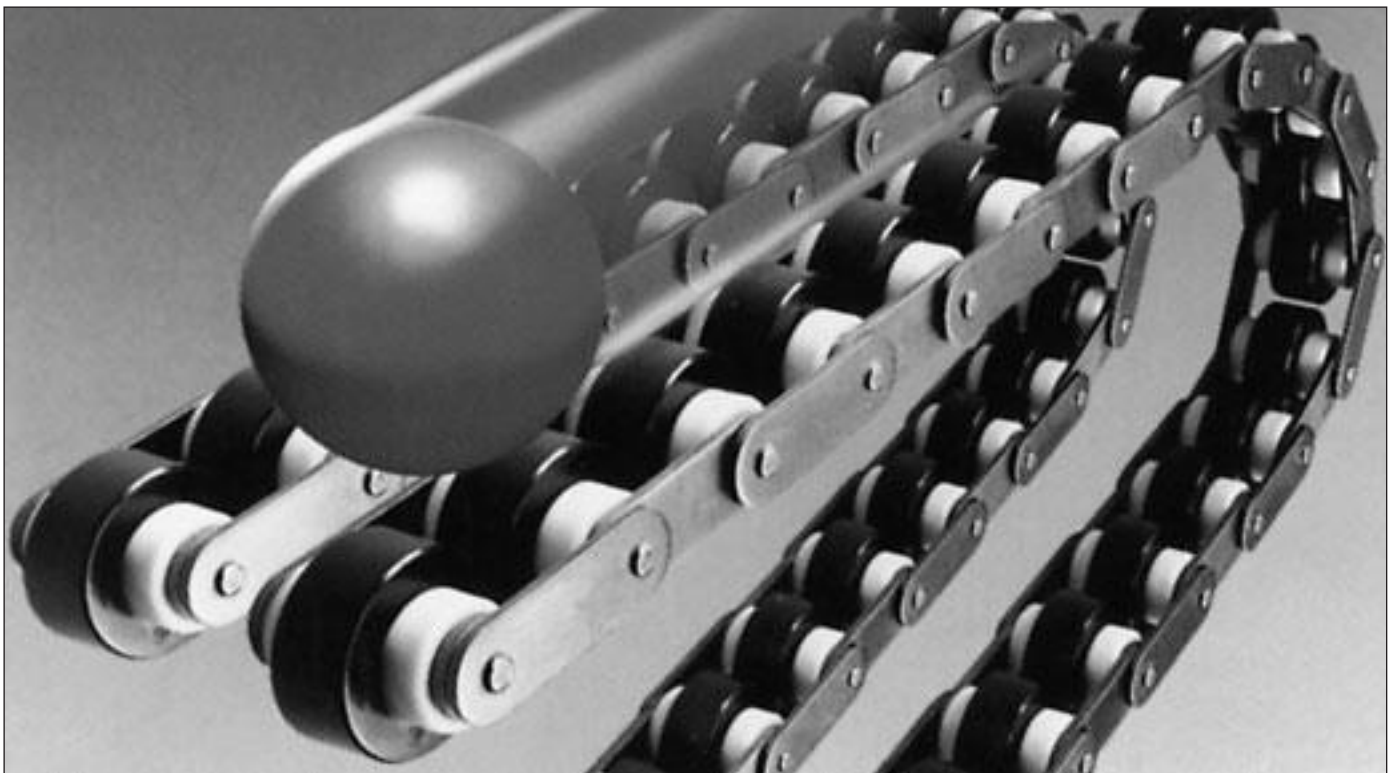
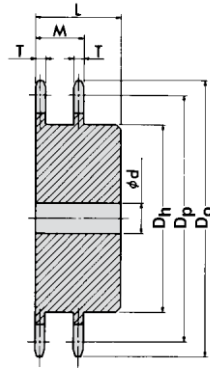
TYPE B

# DOUBLE PLUS® Sprockets

Sprockets for DOUBLE PLUS Chain  
(For DOUBLE PLUS "VR," "VRP," "VR-SC," & "VRP-SC")

Dimensions are in inches unless otherwise indicated.

No. Teeth	Outside Diameter $D_o$	Pitch Diameter $D_p$	Catalog Number	List Price	Plain Bore $d$	Hub Diameter $D_h$	Hub Length $L$	Hub Type	Tooth Thickness $T$	M	Weight Lbs.
10	2.480	2.427	C2030VRP-10T-SC		.500	1.457	.984	B	.118	.602	.44
10	3.346	3.236	C2040VRP-10T-SC		.630	2.047	1.575	B	.157	.803	1.76
10	4.213	4.045	C2050VRP-10T-SC		.630	2.598	1.772	B	.197	1.004	3.31
10	5.039	4.854	C2060VRP-10T-SC		.748	3.189	1.969	B	.236	1.201	5.52
10	6.772	6.472	C2080VRP-10T-SC		.906	4.331	2.638	B	.472	1.870	15.40



# Double Single Sprockets

## 40 Double Single Sprockets 1/2" Pitch

Dimensions are in inches unless otherwise indicated.

No. Teeth	Outside Diameter	Catalog Number	List Price	Plain Bore	Max. Bore	LTB	C	D	Wt. Lbs.
15	2.650	DS40A15		1/2	1 1/4	1 13/32	1 1/8	1 13/16	1.20
16	2.810	DS40A16		1/2	1 1/4	1 13/32	1 1/8	2	1.40
17	2.980	DS40A17		1/2	1 5/16	1 13/32	1 1/8	2 1/8	1.60
18	3.140	DS40A18		1/2	1 1/2	1 13/32	1 1/8	2 5/16	1.80
19	3.300	DS40A19		5/8	1 11/16	1 13/32	1 1/8	2 1/2	2.20
20	3.460	DS40A20		5/8	1 3/4	1 13/32	1 1/8	2 5/8	2.60
21	3.620	DS40A21		5/8	1 3/4	1 13/32	1 1/8	2 25/32	2.90
22	3.780	DS40A22		5/8	1 5/4	1 13/32	1 1/8	2 15/16	3.00
23	3.940	DS40A23		5/8	2 1/16	1 13/32	1 1/8	3 3/32	3.50
24	4.100	DS40A24		5/8	2 1/4	1 13/32	1 1/8	3 17/64	4.00

## 50 Double Single Sprockets 5/8" Pitch

Dimensions are in inches unless otherwise indicated.

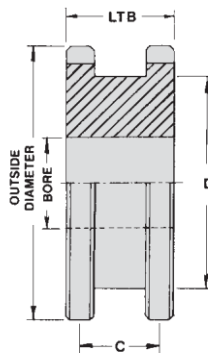
No. Teeth	Outside Diameter	Catalog Number	List Price	Plain Bore	Max. Bore	LTB	C	D	Wt. Lbs.
15	3.320	DS50A15		5/8	1 1/2	1 21/32	1 5/16	2 3/8	2.10
16	3.520	DS50A16		5/8	1 11/16	1 21/32	1 5/16	2 1/2	2.40
17	3.720	DS50A17		5/8	1 3/4	1 21/32	1 5/16	2 11/16	2.90
18	3.920	DS50A18		5/8	1 7/8	1 21/32	1 5/16	2 57/64	3.30
19	4.120	DS50A19		5/8	2 1/16	1 21/32	1 5/16	3 3/64	3.70
20	4.320	DS50A20		5/8	2 1/4	1 21/32	1 5/16	3 3/32	4.20
21	4.520	DS50A21		5/8	2 1/4	1 21/32	1 5/16	3 31/64	4.80
22	4.720	DS50A22		5/8	2 1/16	1 21/32	1 5/16	3 11/16	5.30
23	4.920	DS50A23		5/8	2 5/8	1 21/32	1 5/16	3 57/64	5.80
24	5.120	DS50A24		5/8	2 3/4	1 21/32	1 5/16	4 5/64	6.30

## 60 Double Single Sprockets 3/4" Pitch

Dimensions are in inches unless otherwise indicated.

No. Teeth	Outside Diameter	Catalog Number	List Price	Plain Bore	Max. Bore	LTB	C	D	Wt. Lbs.
13	3.490	DS60A13		3/4	1 1/2	1 15/16	1 31/64	2 11/32	2.60
14	3.740	DS60A14		3/4	1 3/4	1 15/16	1 31/64	2 9/16	3.20
15	3.980	DS60A15		3/4	1 7/8	1 15/16	1 31/64	2 7/8	3.80
16	4.220	DS60A16		3/4	2	1 15/16	1 31/64	3 3/64	4.50
17	4.460	DS60A17		3/4	2 1/4	1 15/16	1 31/64	3 1/4	5.30
18	4.700	DS60A18		3/4	2 3/8	1 15/16	1 31/64	3 1/2	6.50
19	4.950	DS60A19		3/4	2 1/2	1 15/16	1 31/64	3 45/64	6.80
20	5.190	DS60A20		3/4	2 3/4	1 15/16	1 31/64	3 61/64	7.00
21	5.430	DS60A21		3/4	2 7/8	1 15/16	1 31/64	4 3/16	7.50

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES



# Double Single Sprockets

## 80 Double Single Sprockets 1" Pitch

Dimensions are in inches unless otherwise indicated.

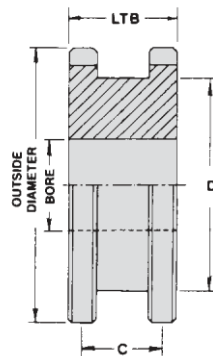
No. Teeth	Outside Diameter	Catalog Number	List Price	Plain Bore	Max. Bore	LTB	C	D	Wt. Lbs.
13	4.660	DS80A13		1	2	2 <sup>3</sup> / <sub>e</sub>	1 <sup>1</sup> / <sub>g</sub>	3 <sup>1</sup> / <sub>e4</sub>	6.50
14	4.980	DS80A14		1	2 <sup>1</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>e</sub>	1 <sup>1</sup> / <sub>g</sub>	3 <sup>11</sup> / <sub>3</sub>	7.70
15	5.300	DS80A15		1	2 <sup>3</sup> / <sub>g</sub>	2 <sup>3</sup> / <sub>e</sub>	1 <sup>1</sup> / <sub>g</sub>	3 <sup>13</sup> / <sub>e</sub>	9.10
16	5.630	DS80A16		1	2 <sup>11</sup> / <sub>e</sub>	2 <sup>3</sup> / <sub>e</sub>	1 <sup>1</sup> / <sub>g</sub>	4	9.50
17	5.950	DS80A17		1	2 <sup>13</sup> / <sub>e</sub>	2 <sup>3</sup> / <sub>e</sub>	1 <sup>1</sup> / <sub>g</sub>	4 <sup>1</sup> / <sub>e</sub>	10.80
18	6.270	DS80A18		1	3 <sup>1</sup> / <sub>g</sub>	2 <sup>3</sup> / <sub>e</sub>	1 <sup>1</sup> / <sub>g</sub>	4 <sup>4</sup> / <sub>e4</sub>	12.10
19	6.590	DS80A19		1	3 <sup>1</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>e</sub>	1 <sup>1</sup> / <sub>g</sub>	4 <sup>8</sup> / <sub>e4</sub>	12.80
20	6.910	DS80A20		1	3 <sup>1</sup> / <sub>e</sub>	2 <sup>3</sup> / <sub>e</sub>	1 <sup>1</sup> / <sub>g</sub>	5 <sup>8</sup> / <sub>3</sub>	14.00
21	7.240	DS80A21		1	3 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>e</sub>	1 <sup>1</sup> / <sub>g</sub>	5 <sup>18</sup> / <sub>3</sub>	16.50
22	7.560	DS80A22		1	3 <sup>7</sup> / <sub>g</sub>	2 <sup>3</sup> / <sub>e</sub>	1 <sup>1</sup> / <sub>g</sub>	5 <sup>8</sup> / <sub>e4</sub>	18.40

## 100 Double Single Sprockets 1 1/4" Pitch

Dimensions are in inches unless otherwise indicated.

No. Teeth	Outside Diameter	Catalog Number	List Price	Plain Bore	Max. Bore	LTB	C	D	Wt. Lbs.
13	5.820	DS100A13		1	2 <sup>1</sup> / <sub>e</sub>	2 <sup>11</sup> / <sub>e</sub>	2	3 <sup>2</sup> / <sub>3</sub>	11.20
14	6.230	DS100A14		1 <sup>1</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	2 <sup>11</sup> / <sub>e</sub>	2	4 <sup>3</sup> / <sub>e</sub>	13.50
15	6.630	DS100A15		1 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>e</sub>	2 <sup>11</sup> / <sub>e</sub>	2	4 <sup>18</sup> / <sub>3</sub>	16.80
16	7.030	DS100A16		1 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>4</sub>	2 <sup>11</sup> / <sub>e</sub>	2	4 <sup>1</sup> / <sub>e</sub>	19.30
17	7.440	DS100A17		1 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>g</sub>	2 <sup>11</sup> / <sub>e</sub>	2	4 <sup>28</sup> / <sub>3</sub>	21.50
18	7.840	DS100A18		1 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	2 <sup>11</sup> / <sub>e</sub>	2	5 <sup>8</sup> / <sub>3</sub>	23.00
19	8.240	DS100A19		1 <sup>1</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>e</sub>	2 <sup>11</sup> / <sub>e</sub>	2	6 <sup>13</sup> / <sub>e4</sub>	25.00
20	8.640	DS100A20		1 <sup>1</sup> / <sub>4</sub>	4 <sup>13</sup> / <sub>e</sub>	2 <sup>11</sup> / <sub>e</sub>	2	6 <sup>38</sup> / <sub>e4</sub>	26.50
21	9.040	DS100A21		1 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	2 <sup>11</sup> / <sub>e</sub>	2	7	29.00

SEE CURRENT DISCOUNT SHEET FOR ALTERATION CHARGES





# Double Single TAPER-LOCK®

## 40 Double Single TAPER-LOCK ½" Pitch

Dimensions are in inches unless otherwise indicated.

No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	LTB	C	D	Wt. Lbs.
19	3.300	DS40ATL19		1215	1¼	1 <sup>13</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>8</sub>	2½	1.10
23	3.940	DS40ATL23		1615	1 <sup>5</sup> / <sub>8</sub>	1 <sup>13</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>32</sub>	1.50
24	4.100	DS40ATL24		1615	1 <sup>5</sup> / <sub>8</sub>	1 <sup>13</sup> / <sub>32</sub>	1 <sup>1</sup> / <sub>8</sub>	3 <sup>17</sup> / <sub>64</sub>	1.70

## 50 Double Single TAPER-LOCK 5⁄8" Pitch

Dimensions are in inches unless otherwise indicated.

No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	LTB	C	D	Wt. Lbs.
17	3.520	DS50ATL17		1615	1 <sup>5</sup> / <sub>8</sub>	1 <sup>21</sup> / <sub>32</sub>	1 <sup>5</sup> / <sub>16</sub>	2 <sup>11</sup> / <sub>16</sub>	1.80
19	4.120	DS50ATL19		1615	1 <sup>5</sup> / <sub>8</sub>	1 <sup>21</sup> / <sub>32</sub>	1 <sup>5</sup> / <sub>16</sub>	3 <sup>5</sup> / <sub>64</sub>	2.70
21	4.520	DS50ATL21		2012	2	1 <sup>21</sup> / <sub>32</sub>	1 <sup>5</sup> / <sub>16</sub>	3 <sup>15</sup> / <sub>32</sub>	3.30
24	5.120	DA50ATL24		2012	2	1 <sup>21</sup> / <sub>32</sub>	1 <sup>5</sup> / <sub>16</sub>	4 <sup>5</sup> / <sub>64</sub>	4.10

## 60 Double Single TAPER-LOCK ¾" Pitch

Dimensions are in inches unless otherwise indicated.

No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	LTB	C	D	Wt. Lbs.
17	4.460	DS60ATL17		1615	1 <sup>5</sup> / <sub>8</sub>	1 <sup>15</sup> / <sub>16</sub>	1 <sup>31</sup> / <sub>64</sub>	3 <sup>3</sup> / <sub>32</sub>	4.50
18	4.700	DS60ATL18		2012	2	1 <sup>15</sup> / <sub>16</sub>	1 <sup>31</sup> / <sub>64</sub>	3 <sup>15</sup> / <sub>32</sub>	5.00
19	4.950	DS60ATL19		2012	2	1 <sup>15</sup> / <sub>16</sub>	1 <sup>31</sup> / <sub>64</sub>	3 <sup>45</sup> / <sub>64</sub>	5.80
20	5.190	DS60ATL20		2517	2½	1 <sup>15</sup> / <sub>16</sub>	1 <sup>31</sup> / <sub>64</sub>	3 <sup>31</sup> / <sub>64</sub>	5.60
21	5.430	DS60ATL21		2517	2½	1 <sup>15</sup> / <sub>16</sub>	1 <sup>31</sup> / <sub>64</sub>	4 <sup>3</sup> / <sub>16</sub>	6.40
24	6.150	DA60ATL24		2517	2½	1 <sup>15</sup> / <sub>16</sub>	1 <sup>31</sup> / <sub>64</sub>	4 <sup>29</sup> / <sub>32</sub>	8.20

## 80 Double Single TAPER-LOCK 1" Pitch

Dimensions are in inches unless otherwise indicated.

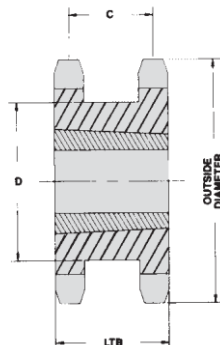
No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	LTB	C	D	Wt. Lbs.
17	5.950	DS80ATL17		2517	2½	2 <sup>3</sup> / <sub>16</sub>	1 <sup>5</sup> / <sub>8</sub>	4 <sup>5</sup> / <sub>16</sub>	7.60
19	6.590	DS80ATL19		3020	3	2 <sup>3</sup> / <sub>16</sub>	1 <sup>5</sup> / <sub>8</sub>	4 <sup>61</sup> / <sub>64</sub>	9.70
20	6.910	DS80ATL20		3020	3	2 <sup>3</sup> / <sub>16</sub>	1 <sup>5</sup> / <sub>8</sub>	5 <sup>9</sup> / <sub>32</sub>	10.00

## 100 Double Single TAPER-LOCK 1¼" Pitch

Dimensions are in inches unless otherwise indicated.

No. Teeth	Outside Diameter	Catalog Number	List Price	Bushing	Max. Bore	LTB	C	D	Wt. Lbs.
17	7.440	DS100ATL17		3020	3	2 <sup>11</sup> / <sub>16</sub>	2	5 <sup>15</sup> / <sub>32</sub>	14.00
21	9.040	DS100ATL21		3020	3	2 <sup>11</sup> / <sub>16</sub>	2	7	27.50

Some sizes are made to order. Consult U.S. Tsubaki for availability.  
TAPER-LOCK® is a registered trademark of Rockwell Automation.



# TAPER-LOCK® Weld-on Hubs

U.S. Tsubaki offers the most complete line of QD® and TAPER-LOCK weld-on hubs for insertion and welding to produce “B” style sprockets, sheaves, and other applications **without** hub protrusion. To provide greater strength for this type of shaft-locking mechanism and to reduce heat distortion caused by welding, these hubs are dimensionally

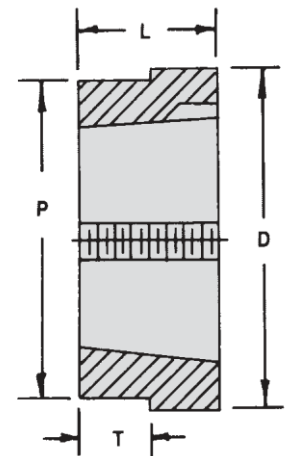
the same as our sprocket items. Special dimensional hubs are available per your specifications on a made-to-order basis. All U.S. Tsubaki hubs are made from **steel bar stock** (not powdered or sintered metal). The QD and TAPER-LOCK weld-on hubs listed below include appropriate tapered bores and mounting holes.

## TAPER-LOCK Weld-on Hubs

Dimensions are in inches unless otherwise indicated.

Catalog Number	List Price	Wt. Lbs.	Use Bushing	Dim D	Dim P	Dim L	Dim T
35TL1		.80	1610	3	2 <sup>7</sup> / <sub>8</sub>	1	<sup>9</sup> / <sub>64</sub>
40TL1		.80	1610	3	2 <sup>7</sup> / <sub>8</sub>	1	<sup>1</sup> / <sub>4</sub>
40TL2		1.50	2012	3 <sup>5</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>4</sub>	<sup>1</sup> / <sub>4</sub>
40TL3		2.70	2517	4 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	<sup>1</sup> / <sub>4</sub>
50TL1		1.50	2012	3 <sup>5</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>4</sub>	<sup>5</sup> / <sub>16</sub>
50TL2		2.70	2517	4 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	<sup>5</sup> / <sub>16</sub>
60TL1		1.50	2012	3 <sup>5</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>4</sub>	<sup>7</sup> / <sub>16</sub>
60TL2		2.70	2517	4 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	<sup>7</sup> / <sub>16</sub>
80TL1		1.50	2012	3 <sup>5</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>4</sub>	<sup>9</sup> / <sub>16</sub>
80TL2		2.70	2517	4 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	<sup>9</sup> / <sub>16</sub>
80TL3		4.30	3020	5 <sup>1</sup> / <sub>4</sub>	5	2	<sup>9</sup> / <sub>16</sub>
100TL1		2.70	2517	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	<sup>11</sup> / <sub>16</sub>
100TL2		4.30	3020	5 <sup>1</sup> / <sub>4</sub>	5	2	<sup>11</sup> / <sub>16</sub>
120TL1		2.60	2517	4 <sup>1</sup> / <sub>4</sub>	4	1 <sup>3</sup> / <sub>4</sub>	<sup>7</sup> / <sub>8</sub>
120TL2		4.20	3020	5 <sup>1</sup> / <sub>4</sub>	5	2	<sup>7</sup> / <sub>8</sub>
120TL3		13.00	3535	6 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>2</sub> *	3 <sup>1</sup> / <sub>2</sub>	—
140TL1		25.00	4040	7 <sup>3</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub> *	4	—
160TL1		4.00	3020	5 <sup>1</sup> / <sub>4</sub>	5	2	<sup>1</sup> / <sub>8</sub>
160TL2		12.60	3535	6 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	<sup>1</sup> / <sub>8</sub>
160TL3		42.00	4545	8 <sup>3</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>4</sub> *	4 <sup>1</sup> / <sub>2</sub>	—

\* These items have no hub step.

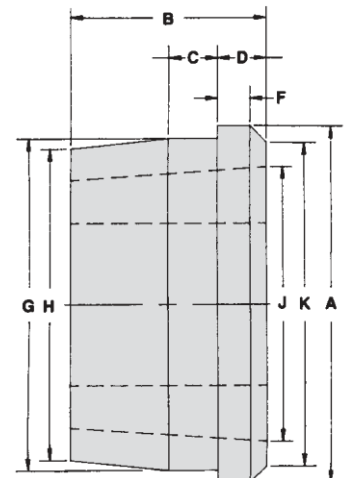


## TAPER-LOCK Type W Weld-on Hubs

Dimensions are in inches unless otherwise indicated.

Hub Number	List Price	For Use with Bushing No.	Max. Bore of Bushing	A	B	C	D	F	G*	H	J	K	Wt. Lbs.
W12		1215	1 <sup>1</sup> / <sub>4</sub>	2 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	<sup>3</sup> / <sub>8</sub>	<sup>5</sup> / <sub>8</sub>	<sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	1.30
W16		1615	1 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	<sup>3</sup> / <sub>8</sub>	<sup>5</sup> / <sub>8</sub>	<sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>8</sub>	3	1.50
W25		2517	2 <sup>1</sup> / <sub>2</sub>	4 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	<sup>1</sup> / <sub>2</sub>	<sup>3</sup> / <sub>4</sub>	<sup>3</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	4 <sup>5</sup> / <sub>8</sub>	4.00
W30		3030	3	5 <sup>1</sup> / <sub>2</sub>	3	<sup>3</sup> / <sub>4</sub>	<sup>3</sup> / <sub>4</sub>	<sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	4 <sup>13</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>8</sub>	5	8.60
W35		3535	3 <sup>1</sup> / <sub>2</sub>	6 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>	1	<sup>3</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>4</sub>	5 <sup>15</sup> / <sub>16</sub>	5	6	15.00
W40		4040	4	7 <sup>3</sup> / <sub>4</sub>	4	1 <sup>1</sup> / <sub>2</sub>	1	<sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>4</sub>	6 <sup>7</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>4</sub>	7	29.00
W45		4545	4 <sup>1</sup> / <sub>2</sub>	8 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	1	<sup>3</sup> / <sub>8</sub>	8	7 <sup>5</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	8	42.00

TAPER-LOCK type W weld-on hubs are designed for use in applications such as welding to plate sprockets, pulleys, and agitators. They are made of steel, drilled, tapped, and taper bored for TAPER-LOCK bushings.



TAPER-LOCK® is a registered trademark of Rockwell Automation.

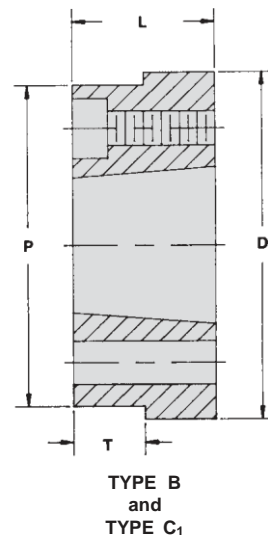
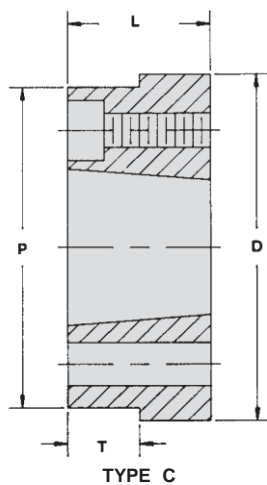
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# QD<sup>®</sup> Weld-on Hubs

Dimensions are in inches unless otherwise indicated.

Catalog Number	List Price	Wt. Lbs.	Use Bushing	Dim D	Dim P	Dim L	Dim T	Type
35SHW		.90	SH	3	2 $\frac{7}{8}$	1 $\frac{3}{16}$	$\frac{9}{64}$	B
40SDSW		1.00	SDS	3 $\frac{1}{2}$	3 $\frac{3}{8}$	$\frac{3}{4}$	$\frac{1}{4}$	B
40SKW		2.40	SK	4 $\frac{1}{4}$	3 $\frac{3}{8}$	1 $\frac{1}{4}$	$\frac{1}{4}$	B
50SDSW		1.00	SDS	3 $\frac{5}{8}$	3 $\frac{7}{16}$	$\frac{3}{4}$	$\frac{5}{16}$	B
50SKW		2.40	SK	4 $\frac{1}{4}$	4 $\frac{1}{8}$	1 $\frac{1}{4}$	$\frac{5}{16}$	B
50SFW		3.70	SF	5	4 $\frac{5}{8}$	1 $\frac{1}{4}$	$\frac{5}{16}$	B
60SDSW		1.00	SDS	3 $\frac{1}{2}$	3 $\frac{3}{8}$	$\frac{3}{4}$	$\frac{7}{16}$	B
60SKW		2.40	SK	4 $\frac{1}{4}$	3 $\frac{3}{8}$	1 $\frac{1}{4}$	$\frac{7}{16}$	B
60SFW		3.60	SF	5	4 $\frac{5}{8}$	1 $\frac{1}{4}$	$\frac{7}{16}$	B
60EW		7.80	E	6 $\frac{1}{4}$	5 $\frac{7}{8}$	1 $\frac{5}{8}$	$\frac{7}{16}$	B
80SFW		3.50	SF	5	4 $\frac{5}{8}$	1 $\frac{1}{4}$	$\frac{9}{16}$	B
80EW		7.70	E	6 $\frac{1}{4}$	5 $\frac{7}{8}$	1 $\frac{5}{8}$	$\frac{9}{16}$	C
80FW		14.70	F	7	6 $\frac{5}{8}$	2 $\frac{1}{2}$	$\frac{9}{16}$	C
100EWB		7.50	E	6 $\frac{1}{4}$	5 $\frac{7}{8}$	1 $\frac{5}{8}$	1 $\frac{1}{16}$	B
100EWC		7.50	E	6 $\frac{1}{4}$	5 $\frac{7}{8}$	1 $\frac{5}{8}$	1 $\frac{1}{16}$	C
100FW		14.60	F	7	6 $\frac{5}{8}$	2 $\frac{1}{2}$	1 $\frac{1}{16}$	C
120EW		7.40	E	6 $\frac{1}{4}$	5 $\frac{7}{8}$	1 $\frac{5}{8}$	$\frac{7}{8}$	B
120FW		14.30	F	7	6 $\frac{5}{8}$	2 $\frac{1}{2}$	$\frac{7}{8}$	C
120JW		23.70	J	8	7 $\frac{1}{2}$	3 $\frac{3}{16}$	$\frac{7}{8}$	C
160FW		14.00	F	7	6 $\frac{5}{8}$	2 $\frac{1}{2}$	1 $\frac{3}{32}$	B
160JW		23.30	J	8	7 $\frac{1}{2}$	3 $\frac{3}{16}$	1 $\frac{1}{8}$	C
160MW		59.30	M	10	9 $\frac{1}{2}$	5 $\frac{3}{16}$	2 $\frac{1}{4}$	C <sub>1</sub>

QD<sup>®</sup> is a registered trademark of and is used under license from Emerson Power Transmission Manufacturing, L.P.



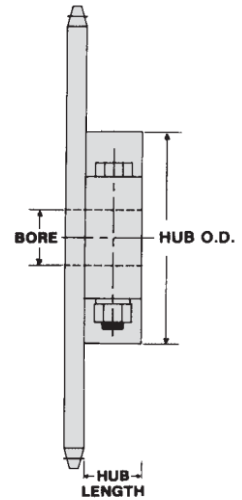
# Steel Split Sprockets

## Steel Split Hub

Dimensions are in inches unless otherwise indicated.

Hub Number	List Price	Bore	Hub O.D.	Hub Length	Bolts	Wt. Lbs.
S-1B		<del>3/4 - 1 1/2</del>	3 3/8	1	3/8 x 2 1/4	1.80
S-2B		<del>1 3/8 - 2 1/4</del>	4 3/8	1 1/4	1/2 x 3	4.00
S-3B		2 - 3	6	1 3/8	5/8 x 4 1/2	8.40
S-4B		<del>2 3/4 - 4</del>	7 5/8	1 1/2	3/4 x 5 1/2	14.40
S-5B		<del>3 3/4 - 5</del>	9 1/4	2	1 x 6	27.70
S-6B		<del>4 3/4 - 6</del>	10 1/4	2 1/4	1 x 6 1/2	35.40

NOTE: Length through bore can be determined by adding plate thickness to hub length. (All dimensions in inches.)



## Sprocket Size for Instant Hubs

Dimensions are in inches unless otherwise indicated.

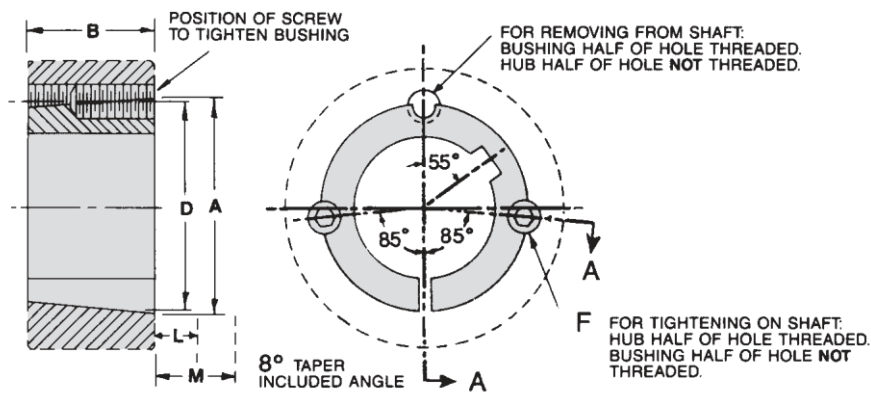
Hub Number	Bore	Minimum Number of Teeth										
		Chain Number										
		40	50	60	80	100	120	140	160	180	200	240
S-1B	3/4 - 1 1/2	28	23	20	16	—	—	—	—	—	—	—
S-2B	1 3/8 - 2 1/4	38	30	26	20	17	15	14	—	—	—	—
S-3B	2 - 3	46	37	32	25	20	18	16	15	14	—	—
S-4B	2 3/4 - 4		48	40	30	25	21	19	17	16	15	12
S-5B	3 3/4 - 5					30	25	22	20	18	17	14
S-6B	4 3/4 - 6					32	27	24	22	19	18	15

# TAPER-LOCK® Bushings

TAPER-LOCK Bushings — 1008 through 3030

Dimensions are in inches unless otherwise indicated.

Bushing No.	List Price	Bore Range**	A	B	D	Std. F 2 Required	L*		M*		Wt. Lbs.
							Short Hex Key	Std. Key ?	Short Hex Key	Key ?	
1008		1/2 — 1	1.386	7/8	1 21/64	1/4 x 1/2	1 1/8	5/8	1 1/4	3/4	.20
1108		1/2 — 1 1/8	1.511	7/8	1 29/64	1/4 x 1/2	1 1/8	5/8	1 1/4	3/4	.25
1210		1/2 — 1 1/4	1 7/8	1	1 3/4	3/8 x 5/8	1 3/8	1 3/16	1 5/8	1 1/16	.55
1215		1/2 — 1 1/4	1 7/8	1 1/2	1 3/4	3/8 x 5/8	1 3/8	1 3/16	1 5/8	1 1/16	.70
1310		1/2 — 1 3/8	2	1	1 7/8	3/8 x 5/8	1 3/8	1 3/16	1 5/8	1 1/16	.65
1610		1/2 — 1 5/8	2 1/4	1	2 1/8	3/8 x 5/8	1 3/8	1 3/16	1 5/8	1 1/16	.70
1615		1/2 — 1 5/8	2 1/4	1 1/2	2 1/8	3/8 x 5/8	1 3/8	1 3/16	1 5/8	1 1/16	1.00
2012		1/2 — 2	2 3/4	1 1/4	2 5/8	7/16 x 7/8	1 9/16	1 5/16	2	1 3/8	1.40
2517		1/2 — 2 1/2	3 3/8	1 3/4	3 1/4	1/2 x 1	1 5/8	1	2 1/4	1 5/8	3.20
2525		3/4 — 2 1/2	3 3/8	2 1/2	3 1/4	1/2 x 1	1 5/8	1	2 1/4	1 5/8	4.30
3020		1 5/16 — 3	4 1/4	2	4	5/8 x 1 1/4	1 13/16	1 3/16	2 1/16	2 1/16	5.80
3030		1 5/16 — 3	4 1/4	3	4	5/8 x 1 1/4	1 13/16	1 3/16	2 1/16	2 1/16	8.00



**NOTE:**

Metric bore sizes are available upon request and are subject to an alteration charge shown on discount multiplier sheets.

All TAPER-LOCK Bushings are available in steel from stock.

Stainless steel bushings are available on a quoted basis. Please consult factory for pricing.

- ★ Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.
- ★ Space required to remove bushing using jackscrews — no puller required.
- ★★ All bore ranges available in 1/16th inch increments.
- ? Standard hex key cut to minimum usable length.

# TAPER-LOCK® Bushings

**TAPER-LOCK Bushings — 3535 through 5050**

Dimensions are in inches unless otherwise indicated.

Bushing No.	List Price	Bore Range	A	B	D	F		G	L*		M*		Wt. Lbs.	
						3 Required			Std. Hex Key	Short Key	Std. Hex Key	Short Key		
<b>3535</b>		See Below	5	3½	4.83	½	x	1½	39°	2	1½/16	3¾	2¼/16	11.00
<b>4040</b>		See Below	5¾	4	5.54	5/8	x	1¾	40°	2¾	1¾	4½	3¾	17.00

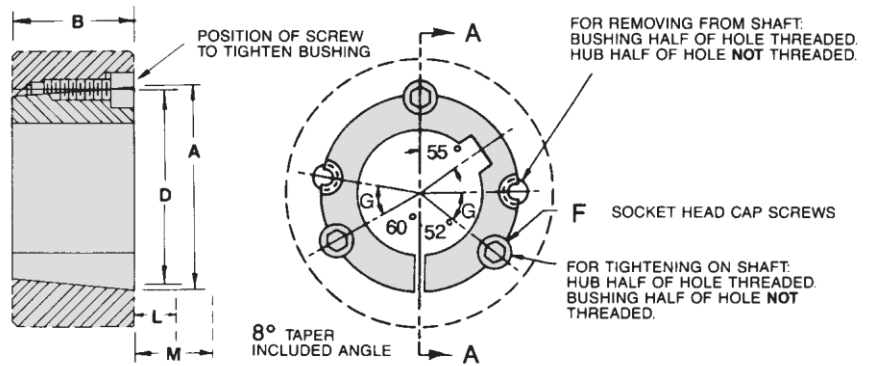
**NOTE:**

Metric bore sizes are available upon request.

- ▲ Standard hex key cut to minimum usable length.

Steel or stainless steel bushings are available on a quoted basis. Please consult factory for pricing.

- ★ Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.
- ★ Space required to remove bushing using jackscrews — no puller required.



Bushing	Bore Range																							
	1¾/16	1¼	1¾	1½/16	1½	1¾	1¹¹/16	1¾	1¾	1¹⁵/16	2	2½	2³/16	2¼	2⁵/16	2¾	2⁷/16	2½	2¾	2¹¹/16	2¾	2¾	2¹⁵/16	
<b>3535</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>4040</b>													X	X		X	X	X			X	X		X

Bushing	Bore Range																								
	3	3¾	3³/16	3¼	3⁵/16	3¾	3⁷/16	3½	3¾	3¹¹/16	3¾	3¾	3¹⁵/16	4	4¾	4³/16	4¼	4¾	4⁷/16	4½	4¾	4¾	4¹⁵/16	5	
<b>3535</b>	X	X	X	X	X	X	X	X	X	X	X	X	X												
<b>4040</b>	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X						

**NOTE:**

- X = Available at list price.
- No indicator = Available, but subject to alteration charges.

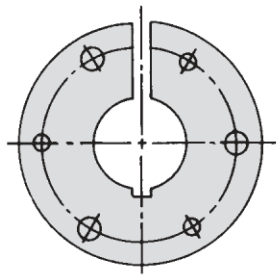
TAPER-LOCK® is a registered trademark of Rockwell Automation.

# QD<sup>®</sup> Bushings

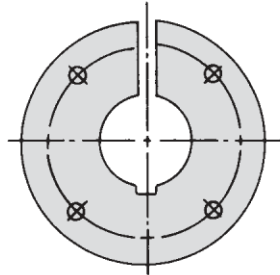
Dimensions are in inches unless otherwise indicated.

QD <sup>®</sup> Bushing	List Price	Bore Range						No Keyway	
		Standard Keyway			Shallow Keyway				
JA		1/2	—	1	1 1/16	—	1 3/16	1 1/4	
SH		1/2	—	1 3/8	1 7/16	—	1 5/8	1 11/16	
SDS		1/2	—	1 11/16	1 3/4	—	1 15/16	2	
SD		1/2	—	1 11/16	1 3/4	—	1 15/16	2	
SK		1/2	—	2 1/8	2 3/16	—	2 1/2	2 9/16	— 2 5/8
SF		1/2	—	2 5/16	2 3/8	—	2 13/16	2 13/16	— 2 15/16
E		7/8	—	2 7/8	2 15/16	—	3 1/2	—	
F		1	—	3 1/4	3 5/16	—	3 15/16	4	
J		1 1/2	—	3 3/8	3 15/16	—	4 1/2	—	
M		2	—	4 3/4	4 7/8	—	5 1/2	—	
N		2 7/16	—	5	5 1/8	—	5 5/8	—	

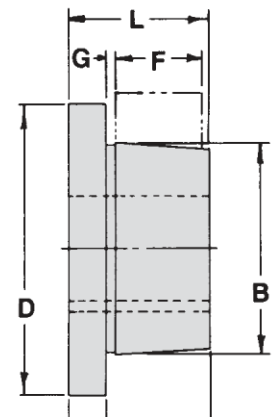
QD<sup>®</sup> is a registered trademark of and is used under license from Emerson Power Transmission Manufacturing, L.P.



? Bushings JA to J



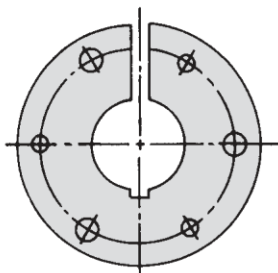
? Bushings M to N



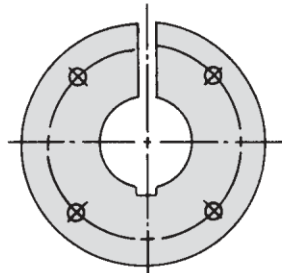
# QD<sup>®</sup> Bushings

Dimensions are in inches unless otherwise indicated.

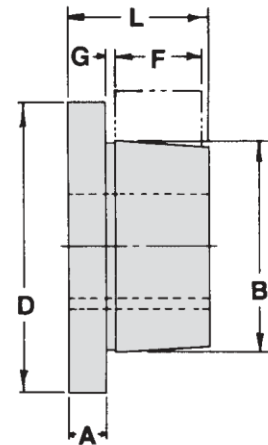
QD <sup>®</sup> Bushings										
Bushing	List Price	A	B	D	F	G	L	Bolt Circle?	Cap Screws Required	Wt. Lbs.
JA		5/16	1 3/8	2	9/16	1/8	1	1 21/32	(3) #10 x 1	.80
SH		7/16	1 7/8	2 5/8	3/4	1/8	1 5/16	2 1/4	(3) 1/4 x 1 3/8	.70
SDS		7/16	2 3/16	3 3/16	3/4	1/8	1 5/16	2 11/16	(3) 1/4 x 1 3/8	1.00
SD		7/16	2 3/16	3 3/16	1 1/4	1/8	1 13/16	2 11/16	(3) 1/4 x 1 7/8	1.20
SK		9/16	2 3/16	3 7/8	1 1/4	7/32	1 5/16	3 3/16	(3) 5/16 x 2	2.10
SF		5/8	3 1/8	4 5/8	1 1/4	7/32	2 1/16	3 7/8	(3) 3/8 x 2	3.10
E		7/8	3 59/64	6	1 5/8	1/4	2 3/4	5	(3) 1/2 x 2 3/4	7.10
F		1	4 7/16	6 5/8	2 1/2	11/32	3 3/4	5 5/8	(3) 9/16 x 3 5/8	8.70
J		1 1/8	5 9/64	7 1/4	3 3/16	3/8	4 5/8	6 1/4	(3) 5/8 x 4 1/2	16.80
M		1 1/4	6 1/2	9	5 3/16	13/32	6 3/4	7 7/8	(4) 3/4 x 6 3/4	56.00
N		1 1/2	7	10	6 1/4	9/16	8 1/8	8 1/2	(4) 7/8 x 8	68.00



? Bushings JA to J



? Bushings M to N



Bore Range																					
Bushing	1	1 1/16	1 1/8	1 1/4	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/16	2 1/8	2 1/4	2 3/8	2 1/2	2 5/8	2 3/4	2 7/8	3	3 1/16	3 1/8	
F	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
J									X	X	X	X	X	X	X	X	X	X	X	X	X
M																		X	X	X	X
N																					

Bore Range																					
Bushing	2 7/16	2 1/2	2 5/8	2 3/4	2 11/16	2 3/4	2 13/16	2 7/8	2 15/16	3	3 1/16	3 1/8	3 3/16	3 1/4	3 5/16	3 3/8	3 7/16	3 1/2	3 9/16	3 5/8	3 11/16
F	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
J	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
M	X	X	?	X	?	X	?	X	X	X	?	X	?	X	X	X	X	?	X	X	?
N	X	?	?	?	?	?	?	?	?	?	?	?	?	?	?	X	?	?	?	?	X

Bore Range																					
Bushing	3 3/8	3 15/16	4	4 1/16	4 1/8	4 3/16	4 1/4	4 5/16	4 3/8	4 7/16	4 1/2	4 9/16	4 5/8	4 11/16	4 3/4	4 13/16	4 7/8	4 15/16	5	5 1/8	5 1/4
F	X	X	X																		
J	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
M	X	X	X	X	?	X	X	?	X	X	?	?	X	X		X	X	X	?	X	X
N	X	X	X	X	?	?	X	X	?	X	X	?	?	?	X	X	X	X	X	X	X

? Available upon request

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# Idler Sprockets—Chain Tensioners

## Bronze Bushed Sprocket Idlers for Use with All Steel Tighteners

Dimensions are in inches unless otherwise indicated.

No. Teeth	Outside Diameter	Catalog Number	List Price	Suggested Tightener	ANSI Chain No.	Hub Dia.	LTB	Bushed Bore Dia.	Wt. Lbs.
15	1.990	35B15T		0	35	1 $\frac{3}{8}$	$\frac{15}{16}$	$\frac{1}{2}$	.32
13	2.329	41B13T		0	41	1 $\frac{9}{16}$	$\frac{15}{16}$	$\frac{1}{2}$	.52
13	2.329	40B13T		0	40	1 $\frac{9}{16}$	$\frac{15}{16}$	$\frac{1}{2}$	.52
13	2.911	50B13T		0	50	2	$\frac{15}{16}$	$\frac{1}{2}$	.97
21	2.713	35B21T		1	35	2 $\frac{1}{8}$	1 $\frac{1}{16}$	$\frac{7}{8}$	.82
19	3.296	40B19T		1	40	2 $\frac{7}{16}$	1 $\frac{1}{16}$	$\frac{7}{8}$	1.50
17	3.719	50B17T		1	50	2 $\frac{5}{8}$	1 $\frac{1}{16}$	$\frac{7}{8}$	1.80
15	3.979	60B15T		1	60	2 $\frac{1}{16}$	1 $\frac{1}{16}$	$\frac{7}{8}$	2.50
17	4.462	60B17T		2	60	2 $\frac{7}{8}$	1 $\frac{1}{16}$	1 $\frac{1}{8}$	3.30
15	5.305	80B15T		2	80	3 $\frac{1}{2}$	1 $\frac{1}{16}$	1 $\frac{1}{8}$	5.60

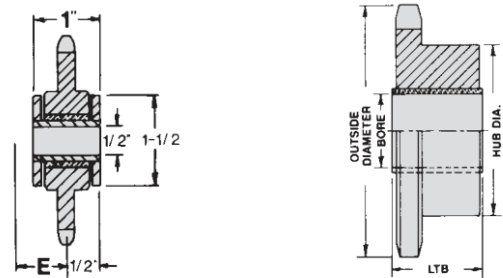
NOTE: Idlers other than stock furnished on a made-to-order basis

## Bronze Bushed Idler Sprockets with Steel Journals

Dimensions are in inches unless otherwise indicated.

No. Teeth	Outside Diameter	Catalog Number	List Price	Chain Size	Stock Bore	E* Dim.	Wt. Lbs.
15	3.32	51E15		50	$\frac{1}{2}$ "	.72"	.70

\* Dimension E is minimum space for chain clearance



### You need Adjustable Idler Sprockets to:

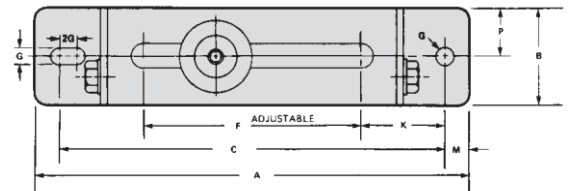
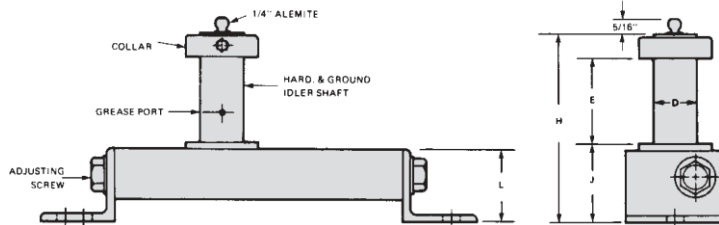
- Obtain proper chain tension when neither driving nor driven shaft is adjustable, and to take up slack chain developed through normal chain wear
- Guide chain around an obstruction
- Prevent whipping action in the slack span of chain transmitting an uneven load
- Bring about greater chain wrap around a small sprocket, particularly if it is the lower sprocket in a vertical drive
- Provide for reversed direction of rotation of a sprocket in contact with the outside of the chain

Idler sprockets should not rotate at greater speeds than are allowable for drive sprockets of the same size. They should be mounted in contact with the slack span of chain. Mount them on the outside of the chain when the arc of chain wrap on the smaller sprocket would otherwise be less than 120°.

It is advisable that idler sprockets have at least three teeth in mesh with the chain. Inside mounted idlers usually account for quieter operation, especially if centers are short and speed is moderately high.

- Machined steel sprockets
- Hardened teeth
- Hardened & ground steel journals
- Oil-impregnated sintered bronze bushings

NOTE: Idler rpm should not exceed 2500 and radial loading should be less than 50 pounds.



## Chain Tensioners

Dimensions are in inches unless otherwise indicated.

Size	List Price	A	B	C	D	E	F	G	2G	H	J	K	L	M	P	Wt. Lbs.	Suggested Chain
#0-B		5 $\frac{7}{8}$	1 $\frac{1}{2}$	5 $\frac{1}{4}$	.500	1	2 $\frac{1}{2}$	$\frac{9}{32}$	$\frac{3}{8}$	2 $\frac{13}{16}$	1 $\frac{5}{16}$	1 $\frac{3}{8}$	1 $\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{4}$	1.00	#35,40,41*
#1-B		9	2	8 $\frac{1}{8}$	.875	1 $\frac{3}{4}$	4 $\frac{1}{2}$	1 $\frac{1}{32}$	$\frac{1}{2}$	4	1 $\frac{5}{8}$	1 $\frac{3}{4}$	1 $\frac{1}{2}$	$\frac{1}{2}$	1	2.50	#40,50,60*
#2-B		13	3	11 $\frac{1}{8}$	1.125	2 $\frac{7}{8}$	6	$\frac{9}{16}$	$\frac{3}{4}$	5 $\frac{1}{16}$	2 $\frac{5}{32}$	2 $\frac{7}{8}$	2	$\frac{5}{8}$	1 $\frac{1}{2}$	6.00	#80,100,120*
#3-B		14	4	12 $\frac{3}{8}$	1.750	3 $\frac{1}{8}$	6	$\frac{9}{16}$	$\frac{3}{4}$	6 $\frac{1}{4}$	2 $\frac{3}{16}$	3 $\frac{1}{4}$	2	$\frac{3}{4}$	2	12.00	#140,160,200*

\* Single-strand chain. For multiple-strand chain, use larger tensioner.

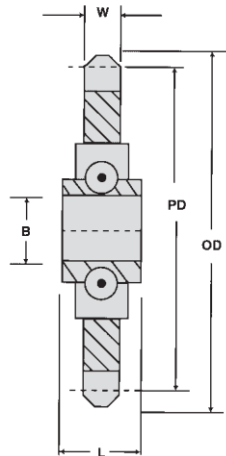
# Idler Sprockets—Ball Bearing

## Ball Bearing Idler Sprocket Hardened Teeth

Dimensions are in inches unless otherwise indicated.

No. Teeth	Catalog Number	List Price	Chain Size	O.D.	B	L	W	Wt. Lbs.
20	35BB20		35	2.60	.638	.72	.168	.38
17	40BB17		40	2.97	.638	.72	.284	.52
18	40BB18		40	3.14	.638	.72	.284	.53
15	50BB15		50	3.32	.638	.72	.343	.75
17	50BB17		50	3.72	.638	.72	.343	.78
13	60BB13		60	3.51	.638	.72	.459	.76
15	60BB15		60	3.98	.638	.72	.459	1.06
12	80BB12		80	4.36	.750	.61	.575	1.50

NOTE: 638 Dim. is + .005; 750 Dim. is + .005-.000.



### Radial Load Capacity in Lbs. at Various Speeds (Outer Race Rotating)

Sprocket No.	RPM	50	100	300	500	750	1000	1200
35BB20—60BB13	LOAD	650	515	357	300	265	240	225
80BB12	LOAD	1630	1290	895	755	665	600	565

Sprocket No.	RPM	1500	1800	2400	2600	3000	3600	4000
35BB20—60BB13	LOAD	208	195	179	173	155	156	151
80BB12	LOAD	523	493	447	434	415	—	—

Sprocket No.	RPM	4500	5000
35BB20—60BB13	LOAD	143	140

Ratings shown above are based on an average bearing life of 2,500 hours.

# Sprocket Engineering Information

Sprocket Terminology

Sprocket Hardening

Sprocket Tooth Dimensions

Sprocket Formulas & Standard Keyways

Sprocket Pitch Diameter Constants

Speed Ratios

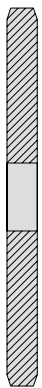
Sprocket Diameters

## Sprocket Terminology

### Hub Type

Hub type refers to the core of the sprocket. Each of the three standard hub types is designed for a specific need.

- **Type A** has no hub extension and must be mounted on a flange, hub, or other holding device.
- **Type B** has a hub extension on one side and is usually found on small or medium-size sprockets.
- **Type C** has hub extensions on both sides and is usually found on large-diameter sprockets.



TYPE A



TYPE B



TYPE C

### Number of Teeth

The number of teeth on a sprocket is determined by chain pitch and size. Larger sprockets, which have more teeth, generally last longer than smaller sprockets because wearing action is distributed over a greater area. Double-pitch sprockets, which have two teeth per chain pitch, also obtain longer wear life because only half the teeth engage with the chain per revolution. An odd number of teeth will engage with the chain only every other revolution, essentially doubling sprocket life. Periodically advance one tooth to obtain the same effect on double-pitch sprockets with an even tooth count.

### Maximum Bore Diameter

The bore must be large enough to accommodate the shaft while maintaining sufficient hub wall thickness for proper strength.

### Length Thru Bore (LTB)

Length thru bore, or hub thickness, must accommodate a keyway long enough to withstand shear stress from the shaft.

### Pitch Diameter

The diameter of the pitch circle that passes through the center of the pin as the chain engages with the sprocket.

### Outside Diameter

The diameter measured from the tip of one sprocket tooth directly across to the tip of the corresponding sprocket tooth.

### Bottom Diameter

The diameter measured from the seating curve at the bottom of one sprocket tooth space directly across to the seating curve at the bottom of the corresponding sprocket tooth space.

### Caliper Diameter

For sprockets with an odd number of teeth, measured from the seating curve at the bottom of one sprocket tooth space across to the seating curve at the bottom of the sprocket tooth space nearly opposite.

# Sprocket Hardening

Hardness Conversion Table				
Rockwell "C" 150 KG. Load	A 60 KG.	Shore Model C	3000 KG. Load	Tensile Str. Lbs. per Sq. In.
			Brinell No.	
10		27	183	91,000
11		28	187	93,000
13		28	192	95,000
14		29	197	97,000
15		30	202	99,000
16		30	207	101,000
17		31	212	104,000
18		31	217	107,000
20	60.5	32	223	110,000
21	61.0	33	229	113,000
22	61.5	34	235	116,000
23	62.0	35	241	119,000
24	62.5	36	248	122,000
25	63.0	37	255	125,000
26	63.5	37	262	128,000
28	64.5	38	269	131,000
29	65.0	39	277	134,000
30	65.5	40	285	138,000
31	66.0	42	293	142,000
32	66.5	43	302	146,000
33	67.0	44	311	150,000
34	67.5	45	321	155,000
35	68.0	46	331	160,000
36	68.5	48	341	165,000
37	69.0	49	352	170,000
38	69.5	51	363	176,000
40	70.5	52	375	182,000
41	71.0	54	388	189,000
42	71.5	55	401	196,000
44	72.5	57	415	204,000
45	73.0	59	429	212,000
46	73.5	61	444	220,000
47	74.0	63	461	229,000
49	75.5	65	477	238,000
50	76.0	67	495	247,000
52	77.0	70	514	256,000
53	77.5	72	534	266,000
55	78.5	75	555	276,000
57	79.5	78	578	287,000
58	80.0	81	601	298,000
60	81.0	84	627	311,000
62	82.5	87	653	324,000
64	83.5	91	682	337,000
66	84.5	95	712	352,000
68	85.5	100	745	368,000
70	86.5	106	780	384,000

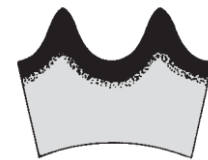
All U.S. Tsubaki sprockets are made from high quality steel. Since chain loadings are evenly distributed over all engaged sprocket teeth, tooth breakage or distortion is not normally a problem. It is seldom necessary to use special high strength material.

Sprocket diameter and pitch determine the specific material used.

The hardening process of small diameter, small pitch sprockets is usually a one-step procedure: heat treatment (electrical induction). Large diameter, large pitch sprockets can usually be directly flame hardened. These methods are used to provide a high hardness at the wear areas, plus provide the ability of the tooth to absorb shock loads. This is accomplished by hardening only the wear area of each tooth while maintaining a ductile tooth core which is tough and resilient. The hubs and bores remain soft to permit reworking.

The general guidelines for sprockets are:

Size	Rockwell Scales	
	A	C
Small pitch, small diameter	68-76	35-50
Large pitch, large diameter	63-70	25-40



**Thru Hardened Teeth**

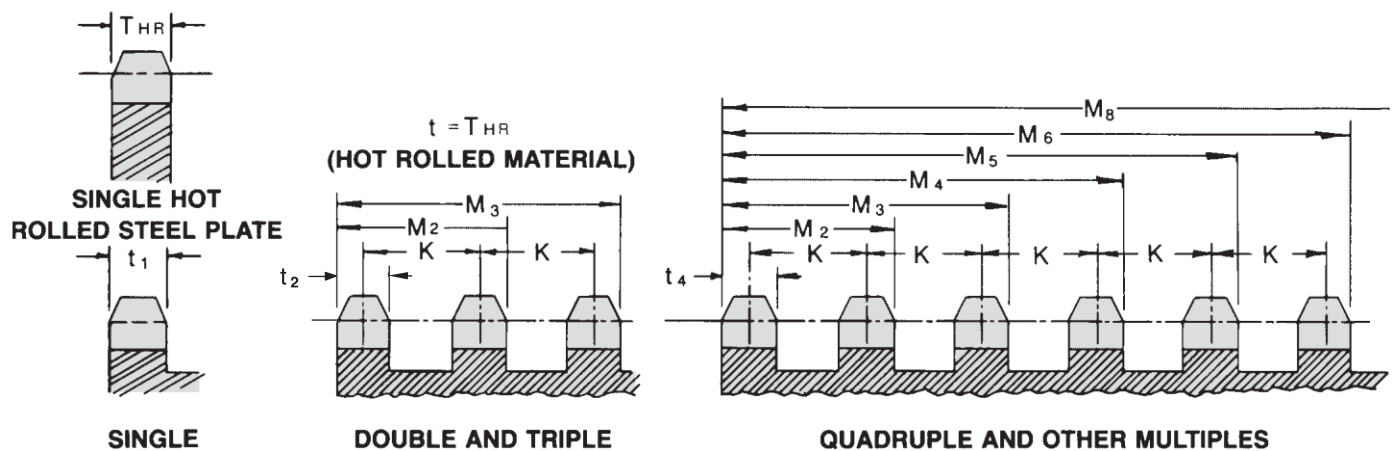
Case hardened on wear surfaces with a tough, resilient core.

# Sprocket Tooth Dimensions

## Sprocket Tooth Dimensions — Standard and Heavy Series

Dimensions are in inches unless otherwise indicated.

Chain Data for All Sprockets				Single Strand $t_1$ and $T_{HR}$	Double and Triple Strand			For 4 or more Strands							Machining Tolerance on "t" and "M"	Hot Rolled Tolerance on $T_{HR}$	
ANSI & U.S.T. No.	Pitch P	Roller Width W	Roller Diam.		$t_2$	$M_2$	$M_3$	$t_4$	$M_2$	$M_3$	$M_4$	$M_5$	$M_6$	$M_8$			K
<b>STANDARD SERIES CHAIN SPROCKETS</b>																	
25	¼	⅜	.130	.110	.107	.359	.611	.096	.348	.600	.852	1.140	1.356	1.860	.252	—.007	—.021
35	⅜	⅝	.200	.168	.162	.561	.960	.149	.548	.947	1.346	1.745	2.144	2.942	.399	—.008	—.027
40	½	⅞	.312	.284	.275	.841	1.407	.256	.822	1.388	1.954	2.520	3.086	4.218	.566	—.009	—.035
50	⅝	1	.400	.343	.332	1.045	1.758	.311	1.024	1.737	2.450	3.163	3.876	5.302	.713	—.010	—.036
60	¾	1½	.469	.459	.444	1.341	2.238	.418	1.315	2.212	3.109	4.006	4.903	6.697	.897	—.011	—.036
80	1	1¾	.625	.575	.557	1.710	2.863	.526	1.679	2.832	3.985	5.138	6.291	8.597	1.153	—.012	—.040
100	1¼	2	.750	.692	.669	2.077	3.485	.633	2.041	3.449	4.857	6.265	7.673	10.489	1.408	—.014	—.046
120	1½	2½	.875	.924	.894	2.683	4.472	.848	2.637	4.426	6.215	8.004	9.793	13.371	1.789	—.016	—.057
140	1¾	3	1.000	.924	.894	2.818	4.742	.848	2.772	4.696	6.620	8.544	10.468	14.316	1.924	—.016	—.057
160	2	3½	1.125	1.156	1.119	3.424	5.729	1.063	3.368	5.673	7.978	10.283	12.588	17.198	2.305	—.019	—.062
180	2¼	4	1.406	1.301	1.259	3.851	6.443	1.197	3.789	6.381	8.973	11.565	14.157	19.341	2.592	—.020	—.068
200	2½	4½	1.562	1.389	1.344	4.161	6.978	1.278	4.095	6.912	9.729	12.546	15.363	20.997	2.817	—.021	—.072
240	3	5½	1.875	1.738	1.682	5.140	8.598	1.601	5.059	8.517	11.975	15.433	18.891	—	3.458	—.025	—.087
<b>HEAVY SERIES CHAIN SPROCKETS</b>																	
60H	¾	1	.469	.459	.444	1.472	2.500	.418	1.446	2.474	3.502	4.530	5.558	7.614	1.028	—.011	—.036
80H	1	1½	.625	.575	.557	1.840	3.123	.526	1.809	3.092	4.375	5.568	6.941	9.507	1.283	—.012	—.040
100H	1¼	2	.750	.692	.669	2.208	3.747	.633	2.172	3.711	5.250	6.789	8.328	11.406	1.539	—.014	—.046
120H	1½	2½	.875	.924	.894	2.818	4.742	.848	2.772	4.696	6.620	8.544	10.468	14.316	1.924	—.016	—.057
140H	1¾	3	1.000	.924	.894	2.949	5.004	.848	2.903	4.958	7.013	9.068	11.123	15.233	2.055	—.016	—.057
160H	2	3½	1.125	1.156	1.119	3.555	5.991	1.063	3.499	5.935	8.371	10.807	13.243	18.115	2.436	—.019	—.062
180H	2¼	4	1.406	1.301	1.259	3.982	6.705	1.197	3.920	6.643	9.366	12.089	14.812	20.258	2.723	—.020	—.068
200H	2½	4½	1.562	1.389	1.344	4.427	7.510	1.278	4.361	7.444	10.527	13.610	16.693	22.859	3.083	—.021	—.072



# Sprocket Formulas & Standard Keyways

Dimensions are in inches unless otherwise indicated.

Chain No.	35		41		40		50		60		80		100		120		140		160		200		Chain No.
	Pitch		1/2"		1/2"		5/8"		3/4"		1"		1 1/4"		1 1/2"		1 3/4"		2"		2 1/2"		
Teeth	Hub Diam.	Max. Bore	Hub Diam.	Max. Bore	Hub Diam.	Max. Bore	Hub Diam.	Max. Bore	Hub Diam.	Max. Bore	Hub Diam.	Max. Bore	Hub Diam.	Max. Bore	Hub Diam.	Max. Bore	Hub Diam.	Max. Bore	Hub Diam.	Max. Bore	Hub Diam.	Max. Bore	Teeth
6	1/4		27/64		23/64		7/16		9/16	3/8	49/64	17/32	63/64	5/8	13/16	27/32	121/64	7/8	1 1/2	1 1/16	2	1 3/8	6
7	3/8		19/32	13/32	17/32	5/16	41/64	7/16	53/64	9/16	17/64	25/32	113/32	31/32	145/64	13/16	115/16	1 1/4	2 13/64	1 1/2	2 55/64	1 15/16	7
8	1/2	5/16	49/64	17/32	49/64	15/32	55/64	9/16	1 5/64	3/4	1 29/64	1	1 53/64	1 1/4	2 13/64	1 1/2	2 33/64	1 3/4	2 7/8	2	3 45/64	2 9/16	8
9	5/8	7/16	15/16	19/32	59/64	9/16	1 1/16	23/32	1 21/64	7/8	1 25/32	1 1/4	2 1/4	1 9/16	2 45/64	1 13/16	3 7/64	2 3/16	3 17/32	2 7/16	4 17/32	3 3/16	9
10	3/4	17/32	13/32	3/4	1 1/64	1 1/16	1 17/64	7/8	1 37/64	1 1/8	2 1/8	1 1/16	2 21/32	1 3/4	3 13/64	2 1/4	3 11/16	2 9/16	4 13/64	2 7/8	5 23/64	3 3/4	10
11	7/8	9/16	1 17/64	7/8	1 3/16	27/32	1 31/64	1	1 13/16	1 1/4	2 7/16	1 3/4	3 5/64	2 3/16	3 45/64	2 9/16	4 1/4	2 15/16	4 55/64	3 5/16	5 3/16	6 3/16	11
12	1	1 1/16	1 27/64	31/32	1 23/64	7/8	1 11/16	1 3/16	2 1/16	1 3/8	2 49/64	1 7/8	3 31/64	2 3/8	4 3/16	2 7/8	4 53/64	3 5/16	5 1/2	3 3/4	7	5 7/16	12
13	1 1/8	25/32	1 19/32	1 1/8	1 33/64	1 1/16	1 57/64	1 1/4	2 5/16	1 5/8	3 3/32	2 3/16	3 57/64	2 3/4	4 43/64	3 3/4	5 25/64	3 3/4	6 3/32	4 3/8	7 13/16	6 1/16	13
14	1 15/64	7/8	1 3/4	1 1/4	1 11/16	1 3/16	2 3/32	1 7/16	2 35/64	1 3/4	3 7/64	2 5/16	4 19/64	2 15/16	5 5/32	3 5/8	5 31/32	4 3/16	6 13/16	5 1/4	8 5/8	6 1/2	14
15	1 23/64	7/8	1 29/32	1 1/4	1 27/32	1 1/4	2 9/32	1 5/8	2 51/64	1 7/8	3 3/4	2 5/8	4 45/64	3 1/4	5 41/64	3 7/8	6 17/32	5	7 29/64	5 11/16	9 7/16	7	15
16	1 31/64	1	2 5/64	1 3/8	2	1 3/8	2 31/64	1 3/4	3 1/32	2 1/8	4 1/16	2 3/4	5 3/32	3 1/2	6 1/8	4 9/16	7 3/32	5 1/2	8 3/32	6 5/16	10 15/64	7 7/16	16
17	1 39/64	1 1/8	2 15/64	1 1/16	2 11/64	1 1/2	2 11/16	1 13/16	3 39/32	2 1/4	4 25/64	3 1/16	5 1/2	3 3/4	6 39/64	5 1/16	7 21/32	5 7/8	8 3/4	7	11 3/64	8 3/8	17
18	1 23/32	1 3/16	2 25/64	1 11/16	2 21/64	1 5/8	2 57/64	2	3 33/64	2 3/8	4 49/64	3 3/4	5 29/32	4 1/8	7 3/32	5 1/2	8 3/32	6 7/16	9 25/64	7	11 27/32	8 15/16	18
19	1 27/32	1 1/4	2 9/16	1 3/4	2 31/64	1 3/4	3 3/32	2 3/16	3 49/64	2 5/8	5 1/32	3 1/2	6 5/16	4 3/4	7 37/64	5 13/16	8 25/32	7	10 13/32	7 1/2	12 21/32	9 9/16	19
20	1 31/32	1 3/8	2 23/32	1 13/16	2 21/32	1 3/4	3 19/64	2 1/4	4	2 3/4	5 23/64	3 3/4	6 45/64	5 1/8	8 1/16	6 5/16	9 11/32	7	10 43/64	8	13 29/64	10 3/8	20
21	2 3/32	1 1/16	2 7/8	2	2 19/16	1 15/16	3 1/2	2 3/8	4 19/64	2 7/8	5 43/64	3 7/8	7 7/64	5 1/2	8 35/64	6 3/4	9 29/32	7 1/2	11 5/16	8 9/16	14 1/4	10 15/16	21
22	2 13/64	1 1/2	3 1/32	2 1/8	2 31/32	2 1/16	3 45/64	2 9/16	4 31/64	3 1/8	6	4 1/4	7 33/64	5 3/4	9 9/64	7	10 15/32	8 1/16	11 61/64	9	15 1/16	11 1/16	22
23	2 21/64	1 5/8	3 13/64	2 1/4	3 1/8	2 1/4	3 57/64	2 3/4	4 23/32	3 1/4	6 5/16	4 3/4	7 29/32	6 1/8	9 1/2	7 1/16	11 1/32	8 5/8	12 19/32	9 3/8	15 55/64	12 5/16	23
24	2 29/64	1 3/4	3 23/64	2 1/4	3 19/64	2 1/4	4 3/32	2 3/4	4 61/64	3 7/16	6 41/64	5 1/16	8 5/16	6 1/2	9 63/64	7 9/16	11 19/32	9	13 15/64	10 1/8	16 21/32	12 15/16	24
25	2 9/16	1 3/4	3 33/64	2 3/8	3 29/64	2 5/16	4 19/64	2 15/16	5 13/64	3 5/8	6 1/64	5 3/8	8 45/64	6 1/2	10 15/32	8 1/16	12 3/32	9 5/16	13 3/8	10 3/16	17 29/64	13 1/16	25

## SPROCKET DIAMETER FORMULAS

$$\text{Suggested Maximum Hub Diameter} = \text{Cosine } \frac{180^\circ}{N} \times \text{P.D.} - (H + .050).$$

P.D. = Pitch diameter    N = Number of teeth.    H = Height of inside plate.

The above maximum bores are not approved for severe service conditions or for Cast Iron Sprockets.

For severe service conditions maximum bores should not be greater than  $\frac{2}{3}$  of the diameter of the hub.

Maximum bores for Cast Iron Sprockets should be about 15% less than for steel with 1/4" as the minimum difference.

## Standard Keyways and Set Screw

Dimensions are in inches unless otherwise indicated.

Diameter of Shaft	Keyseat Width x Depth	*Diameter of Set Screw	Diameter of Shaft	Keyseat Width x Depth	*Diameter of Set Screw
5/16 - 7/16	3/32 x 3/64	8 - 32	2 13/16 - 3 1/4	3/4 x 3/8	3/4
1/2 - 9/16	1/8 x 1/16	10 - 24	3 5/16 - 3 3/4	7/8 x 7/16	3/4
5/8 - 7/8	3/16 x 3/32	1/4	3 13/16 - 4 1/2	1 x 1/2	3/4
1 5/16 - 1 1/4	1/4 x 1/8	5/16	4 9/16 - 5 1/2	1 1/4 x 5/8	3/4
1 1/16 - 1 3/8	5/16 x 5/32	5/16	5 9/16 - 6 1/2	1 1/2 x 3/4	1
1 1/16 - 1 3/4	3/8 x 3/16	3/8	6 9/16 - 7 1/2	1 3/4 x 7/8	1
1 13/16 - 2 1/4	1/2 x 1/4	1/2	7 9/16 - 8 15/16	2 x 1	1
2 9/16 - 2 3/4	5/8 x 3/16	5/8	9 - 10 15/16	2 1/2 x 1 1/4	1

NOTE: As a general rule, the hub wall over the keyway should be equal to or greater than the diameter of the set screw.

\*Set screw size may vary depending on the hub wall thickness.

# Sprocket Pitch Diameter Constants

Dimensions are in inches unless otherwise indicated.

Number of Teeth	Constant	Number of Teeth	Constant	Number of Teeth	Constant
4	1.4142	53	16.8803	102	32.473
5	1.7013	54	17.1984	103	32.791
6	2.0000	55	17.5166	104	33.109
7	2.3048	56	17.8347	105	33.427
8	2.6131	57	18.1529	106	33.746
9	2.9238	58	18.4710	107	34.064
10	3.2361	59	18.7892	108	34.382
11	3.5495	60	19.1073	109	34.701
12	3.8637	61	19.4255	110	35.019
13	4.1785	62	19.7437	111	35.337
14	4.4940	63	20.0618	112	35.655
15	4.8097	64	20.3800	113	35.974
16	5.1259	65	20.6982	114	36.292
17	5.4423	66	21.0164	115	36.610
18	5.7588	67	21.3346	116	36.929
19	6.0756	68	21.6528	117	37.247
20	6.3925	69	21.9710	118	37.565
21	6.7095	70	22.2892	119	37.883
22	7.0266	71	22.6074	120	38.201
23	7.3439	72	22.9256	121	38.519
24	7.6613	73	23.2438	122	38.837
25	7.9787	74	23.5620	123	39.156
26	8.2962	75	23.8802	124	39.475
27	8.6138	76	24.1984	125	39.794
28	8.9315	77	24.5166	126	40.112
29	9.2491	78	24.8349	127	40.430
30	9.5668	79	25.1531	128	40.748
31	9.8845	80	25.4713	129	41.066
32	10.2023	81	25.7896	130	41.384
33	10.5201	82	26.1079	131	41.702
34	10.8380	83	26.4261	132	42.020
35	11.1558	84	26.7442	133	42.338
36	11.4737	85	27.0626	134	42.656
37	11.7917	86	27.3807	135	42.975
38	12.1096	87	27.6989	136	43.293
39	12.4275	88	28.0170	137	43.611
40	12.7455	89	28.3355	138	43.930
41	13.0635	90	28.6537	139	44.249
42	13.3815	91	28.9723	140	44.567
43	13.6995	92	29.2901	141	44.885
44	14.0175	93	29.6082	142	45.203
45	14.3356	94	29.9268	143	45.521
46	14.6536	95	30.2447	144	45.840
47	14.9717	96	30.5632	145	46.158
48	15.2898	97	30.8815	146	46.477
49	15.6079	98	31.1999	147	46.796
50	15.9260	99	31.5177	148	47.114
51	16.2441	100	31.8362	149	47.432
52	16.5619	101	32.1540	150	47.750

To obtain the pitch diameter of a sprocket, multiply the constant for the number of teeth (as shown above) by the chain pitch.

To determine the pitch diameter of a 28-tooth sprocket for 140 chain — use a constant of 8.9315 and multiply by chain pitch ( $1\frac{3}{4}$ " ) to obtain a pitch diameter of 15.63".

# Speed Ratios

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	
9	1.00																		
10	1.11	1.00																	
11	1.22	1.10	1.00																
12	1.33	1.20	1.09	1.00															
13	1.44	1.30	1.18	1.08	1.00														
14	1.56	1.40	1.27	1.17	1.08	1.00													
15	1.67	1.50	1.36	1.25	1.15	1.07	1.00												
16	1.78	1.60	1.45	1.33	1.23	1.14	1.07	1.00											
17	1.89	1.70	1.55	1.42	1.31	1.21	1.13	1.06	1.00										
18	2.00	1.80	1.64	1.50	1.38	1.29	1.20	1.13	1.06	1.00									
19	2.11	1.90	1.73	1.58	1.46	1.36	1.27	1.19	1.12	1.06	1.00								
20	2.22	2.00	1.82	1.67	1.54	1.43	1.33	1.25	1.18	1.11	1.05	1.00							
21	2.33	2.10	1.91	1.75	1.61	1.50	1.40	1.31	1.23	1.17	1.10	1.05	1.00						
22	2.44	2.20	2.00	1.83	1.69	1.57	1.47	1.38	1.29	1.22	1.16	1.10	1.05	1.00					
23	2.56	2.30	2.09	1.92	1.77	1.64	1.53	1.44	1.35	1.28	1.21	1.15	1.09	1.04	1.00				
24	2.67	2.40	2.18	2.00	1.85	1.71	1.60	1.50	1.41	1.33	1.26	1.20	1.14	1.09	1.04	1.00			
25	2.78	2.50	2.27	2.08	1.92	1.79	1.67	1.56	1.47	1.39	1.32	1.25	1.19	1.14	1.09	1.04	1.00		
26	2.89	2.60	2.36	2.17	2.00	1.86	1.73	1.63	1.53	1.45	1.37	1.30	1.24	1.18	1.13	1.08	1.04	1.00	
27	3.00	2.70	2.45	2.25	2.08	1.93	1.80	1.69	1.59	1.50	1.42	1.35	1.29	1.23	1.17	1.12	1.08	1.04	
28	3.11	2.80	2.54	2.33	2.15	2.00	1.87	1.75	1.65	1.56	1.47	1.40	1.33	1.27	1.22	1.17	1.12	1.08	
29	3.22	2.90	2.64	2.42	2.23	2.07	1.93	1.81	1.71	1.61	1.53	1.45	1.38	1.32	1.26	1.21	1.16	1.12	
30	3.33	3.00	2.73	2.50	2.31	2.14	2.00	1.88	1.76	1.67	1.58	1.50	1.43	1.36	1.31	1.25	1.20	1.15	
31	3.44	3.10	2.82	2.58	2.38	2.21	2.07	1.94	1.82	1.72	1.63	1.55	1.48	1.41	1.35	1.29	1.24	1.19	
32	3.56	3.20	2.91	2.67	2.46	2.28	2.13	2.00	1.88	1.78	1.68	1.60	1.52	1.45	1.39	1.33	1.28	1.23	
33	3.67	3.30	3.00	2.75	2.54	2.36	2.20	2.06	1.94	1.83	1.74	1.65	1.57	1.50	1.43	1.38	1.32	1.27	
34	3.78	3.40	3.09	2.83	2.62	2.43	2.27	2.13	2.00	1.89	1.79	1.70	1.62	1.55	1.48	1.42	1.36	1.31	
35	3.89	3.50	3.18	2.92	2.69	2.50	2.33	2.19	2.06	1.95	1.84	1.75	1.67	1.59	1.52	1.46	1.40	1.34	
36	4.00	3.60	3.27	3.00	2.77	2.57	2.40	2.25	2.12	2.00	1.89	1.80	1.71	1.63	1.57	1.50	1.44	1.38	
37	4.11	3.70	3.36	3.08	2.85	2.64	2.47	2.31	2.18	2.06	1.95	1.85	1.76	1.68	1.61	1.54	1.48	1.42	
38	4.22	3.80	3.45	3.17	2.92	2.71	2.53	2.38	2.24	2.11	2.00	1.90	1.81	1.73	1.65	1.58	1.52	1.46	
39	4.33	3.90	3.55	3.25	3.00	2.79	2.60	2.44	2.29	2.17	2.05	1.95	1.86	1.77	1.70	1.63	1.56	1.50	
40	4.44	4.00	3.64	3.33	3.08	2.86	2.67	2.50	2.35	2.22	2.10	2.00	1.90	1.82	1.74	1.67	1.60	1.54	
41	4.56	4.10	3.73	3.42	3.15	2.93	2.73	2.56	2.41	2.28	2.16	2.05	1.95	1.86	1.78	1.71	1.64	1.58	
42	4.67	4.20	3.82	3.50	3.23	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	3.38	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	2.19	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	2.49	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		



# Sprocket Diameters

No. of Teeth	RS25 1/4" Pitch		
	Pitch Dia.	Outside Dia.	Caliper Dia.
9	.731	.837	.590
10	.809	.919	.679
11	.887	1.001	.748
12	.966	1.083	.836
13	1.045	1.164	.907
14	1.123	1.245	.993
15	1.203	1.326	1.066
16	1.282	1.407	1.152
17	1.361	1.487	1.225
18	1.440	1.568	1.310
19	1.519	1.648	1.384
20	1.598	1.728	1.468
21	1.677	1.809	1.543
22	1.757	1.889	1.627
23	1.836	1.969	1.702
24	1.915	2.049	1.785
25	1.995	2.129	1.861
26	2.074	2.209	1.944
28	2.233	2.369	2.103
30	2.392	2.529	2.262
32	2.551	2.688	2.421
35	2.789	2.928	2.656
36	2.868	3.008	2.738
40	3.186	3.327	3.056
45	3.584	3.725	3.452
48	3.822	3.964	3.692
54	4.300	4.442	4.170
60	4.777	4.920	4.647
70	5.572	5.717	5.442
72	5.731	5.876	5.601

No. of Teeth	RS35 3/8" Pitch		
	Pitch Dia.	Outside Dia.	Caliper Dia.
9	1.096	1.255	.880
10	1.214	1.379	1.014
11	1.331	1.502	1.118
12	1.449	1.625	1.249
13	1.567	1.746	1.356
14	1.685	1.868	1.485
15	1.804	1.989	1.594
16	1.922	2.110	1.722
17	2.041	2.231	1.832
18	2.160	2.352	1.960
19	2.278	2.472	2.071
20	2.397	2.593	2.197
21	2.516	2.713	2.309
22	2.635	2.833	2.435
23	2.754	2.953	2.548
24	2.873	3.073	2.673
25	2.992	3.194	2.786
26	3.111	3.313	2.911
27	3.230	3.434	3.025
28	3.349	3.553	3.149
30	3.588	3.793	3.388
32	3.826	4.032	3.626
35	4.183	4.392	3.979
36	4.303	4.511	4.103
40	4.780	4.990	4.580
42	5.018	5.229	4.818
45	5.376	5.588	5.173
48	5.734	5.946	5.534
54	6.449	6.664	6.249
60	7.165	7.380	6.965
70	8.358	8.575	8.158
72	8.597	8.814	8.397
80	9.552	9.770	9.352
84	10.029	10.247	9.829
96	11.461	11.680	11.261
112	13.371	13.590	13.171

No. of Teeth	RS40 1/2" Pitch		
	Pitch Dia.	Outside Dia.	Caliper Dia.
8	1.307	1.507	.995
9	1.462	1.674	1.127
10	1.618	1.839	1.305
11	1.775	2.003	1.444
12	1.932	2.166	1.620
13	2.089	2.328	1.761
14	2.247	2.490	1.934
15	2.405	2.652	2.079
16	2.563	2.814	2.250
17	2.721	2.974	2.397
18	2.879	3.136	2.567
19	3.038	3.292	2.715
20	3.196	3.457	2.883
21	3.355	3.618	3.033
22	3.513	3.778	3.201
23	3.672	3.938	3.351
24	3.831	4.098	3.518
25	3.989	4.258	3.669
26	4.148	4.418	3.835
27	4.307	4.578	3.987
28	4.465	4.738	4.153
29	4.625	4.898	4.305
30	4.783	5.057	4.471
31	4.942	5.217	4.623
32	5.101	5.376	4.788
33	5.260	5.536	4.941
34	5.419	5.696	5.107
35	5.578	5.856	5.260
36	5.737	6.015	5.425
38	6.055	6.334	5.742
40	6.373	6.653	6.061
42	6.691	6.972	6.379
44	7.009	7.291	6.696
45	7.168	7.450	6.851
46	7.327	7.609	7.014
47	7.486	7.769	7.169
48	7.645	7.928	7.332
50	7.963	8.248	7.650
54	8.599	8.884	8.286
60	9.554	9.840	9.241
70	11.145	11.433	10.832
72	11.463	11.752	11.151
80	12.736	13.026	12.423
84	13.372	13.663	13.059
96	15.282	15.573	14.969
112	17.827	18.121	17.515

No. of Teeth	RS50 3/4" Pitch		
	Pitch Dia.	Outside Dia.	Caliper Dia.
8	1.633	1.880	1.233
9	1.827	2.093	1.400
10	2.023	2.299	1.623
11	2.219	2.504	1.796
12	2.415	2.708	2.015
13	2.612	2.911	2.193
14	2.809	3.113	2.409
15	3.006	3.315	2.590
16	3.204	3.517	2.804
17	3.401	3.718	2.987
18	3.599	3.919	3.199
19	3.798	4.121	3.384
20	3.995	4.321	3.595
21	4.194	4.522	3.782
22	4.392	4.722	3.992
23	4.590	4.923	4.179
24	4.788	5.123	4.388
25	4.987	5.323	4.577
26	5.185	5.523	4.785
27	5.384	5.723	4.975
28	5.582	5.922	5.182
29	5.781	6.122	5.371
30	5.979	6.321	5.579
31	6.178	6.521	5.770
32	6.376	6.721	5.976
33	6.575	6.921	6.168
34	6.774	7.120	6.374
35	6.973	7.319	6.565
36	7.171	7.519	6.771
37	7.370	7.718	6.963
38	7.569	7.918	7.169
39	7.768	8.117	7.361
40	7.966	8.316	7.566
42	8.364	8.715	7.964
43	8.563	8.914	8.157
44	8.761	9.114	8.361
45	8.960	9.313	8.554
48	9.556	9.911	9.156
49	9.755	10.110	9.350
50	9.954	10.309	9.554
52	10.351	10.708	9.951
54	10.749	11.106	10.349
55	10.948	11.305	10.543
56	11.147	11.504	10.747
60	11.942	12.301	11.542
70	13.931	14.292	13.531
72	14.329	14.690	13.929
80	15.919	16.283	15.519
84	16.715	17.079	16.315
96	19.102	19.467	18.702
112	22.284	22.651	21.884

# Sprocket Diameters

No. of Teeth	RS60 3/4" Pitch		
	Pitch Dia.	Outside Dia.	Caliper Dia.
8	1.959	2.260	1.491
9	2.193	2.511	1.691
10	2.427	2.759	1.958
11	2.662	3.005	2.166
12	2.898	3.249	2.429
13	3.134	3.493	2.642
14	3.371	3.736	2.902
15	3.608	3.978	3.119
16	3.845	4.220	3.375
17	4.082	4.462	3.595
18	4.319	4.703	3.850
19	4.557	4.945	4.072
20	4.794	5.186	4.325
21	5.033	5.426	4.549
22	5.270	5.666	4.801
23	5.508	5.907	5.026
24	5.746	6.147	5.277
25	5.984	6.387	5.503
26	6.222	6.627	5.753
27	6.461	6.867	5.980
28	6.698	7.106	6.229
29	6.937	7.346	6.458
30	7.175	7.586	6.706
31	7.413	7.826	6.935
32	7.652	8.065	7.183
33	7.890	8.305	7.412
34	8.129	8.544	7.660
35	8.367	8.783	7.889
36	8.606	9.023	8.137
37	8.844	9.262	8.367
38	9.083	9.501	8.614
39	9.321	9.740	8.844
40	9.560	9.980	9.091
41	9.798	10.219	9.321
42	10.037	10.458	9.568
44	10.514	10.937	10.045
45	10.752	11.176	10.276
46	10.991	11.414	10.522
48	11.468	11.893	10.999
49	11.706	12.132	11.231
50	11.945	12.371	11.476
52	12.422	12.849	11.953
54	12.889	13.327	12.430
60	14.330	14.761	13.861
70	16.717	17.150	16.248
72	17.195	17.628	16.726
80	19.103	19.539	18.634
84	20.058	20.495	19.589
96	22.922	23.360	22.453
112	26.741	27.181	26.272

No. of Teeth	RS80 1" Pitch		
	Pitch Dia.	Outside Dia.	Caliper Dia.
8	2.613	3.014	1.988
9	2.924	3.348	2.254
10	3.236	3.678	2.611
11	3.550	4.006	2.888
12	3.864	4.332	3.239
13	4.179	4.657	3.523
14	4.494	4.981	3.869
15	4.810	5.304	4.158
16	5.126	5.627	4.501
17	5.442	5.949	4.794
18	5.759	6.271	5.134
19	6.076	6.593	5.430
20	6.392	6.914	5.767
21	6.710	7.235	6.066
22	7.027	7.555	6.402
23	7.344	7.876	6.702
24	7.661	8.196	7.036
25	7.979	8.526	7.338
26	8.296	8.836	7.671
27	8.614	9.156	7.974
28	8.931	9.475	8.306
29	9.249	9.795	8.611
30	9.567	10.114	8.942
31	9.884	10.434	9.247
32	10.202	10.753	9.577
33	10.520	11.073	9.883
34	10.838	11.392	10.213
35	11.156	11.711	10.520
36	11.474	12.030	10.849
37	11.792	12.349	11.156
38	12.110	12.668	11.485
40	12.746	13.306	12.121
42	13.382	13.944	12.757
45	14.336	14.901	13.702
46	14.654	15.219	14.029
48	15.290	15.857	14.665
49	15.608	16.176	14.975
54	17.198	17.769	16.573
60	19.107	19.681	18.482
65	20.698	21.270	20.067
70	22.289	22.867	21.644
72	22.926	23.504	22.301
80	25.471	26.052	24.846
84	26.744	27.326	26.119
96	30.563	31.147	29.938
112	35.655	36.241	35.030

No. of Teeth	RS100 1 1/4" Pitch		
	Pitch Dia.	Outside Dia.	Caliper Dia.
8	3.266	3.770	2.516
9	3.655	4.185	2.849
10	4.045	4.598	3.295
11	4.438	5.008	3.642
12	4.830	5.415	4.080
13	5.224	5.821	4.435
14	5.618	6.226	4.868
15	6.013	6.630	5.229
16	6.408	7.034	5.658
17	6.803	7.436	6.024
18	7.199	7.839	6.449
19	7.595	8.241	6.819
20	7.990	8.643	7.240
21	8.388	9.044	7.613
22	8.784	9.444	8.034
23	9.180	9.845	8.409
24	9.576	10.245	8.826
25	9.974	10.645	9.204
26	10.370	11.045	9.620
27	10.768	11.445	9.999
28	11.164	11.844	10.414
30	11.959	12.643	11.209
32	12.753	13.441	12.003
35	13.945	14.639	13.181
36	14.343	15.038	13.593
40	15.933	16.633	15.183
42	16.728	17.430	15.978
45	17.920	18.626	17.159
48	19.113	19.821	18.363
54	21.498	22.211	20.748
60	23.884	24.601	23.134
70	27.861	28.584	27.111
72	28.657	29.380	27.908
80	31.839	32.565	31.089
84	33.430	34.158	32.680
90	35.817	36.545	35.068
96	38.204	38.934	37.454

# Sprocket Diameters

No. of Teeth	RS120 1½" Pitch		
	Pitch Dia.	Outside Dia.	Caliper Dia.
9	4.386	5.022	3.444
10	4.854	5.517	3.979
11	5.325	6.009	4.395
12	5.796	6.498	4.921
13	6.269	6.986	5.347
14	6.741	7.472	5.866
15	7.215	7.956	6.300
16	7.689	8.441	6.814
17	8.163	8.924	7.254
18	8.639	9.407	7.764
19	9.114	9.890	8.207
20	9.588	10.371	8.713
21	10.065	10.853	9.161
22	10.541	11.333	9.666
23	11.016	11.814	10.115
24	11.492	12.294	10.617
25	11.969	12.774	11.070
26	12.444	13.254	11.569
27	12.921	13.734	12.024
28	13.397	14.213	12.522
30	14.351	15.171	13.476
32	15.303	16.130	14.428
35	16.734	17.567	15.842
36	17.211	18.045	16.336
40	19.119	19.959	18.244
42	20.073	20.916	19.198
45	21.504	22.352	20.615
48	22.935	23.786	22.060
54	25.797	26.654	24.922
60	28.661	29.522	27.786
70	33.434	34.301	32.559
80	38.207	39.078	37.332

No. of Teeth	RS160 2" Pitch		
	Pitch Dia.	Outside Dia.	Caliper Dia.
8	5.226	6.028	4.101
9	5.848	6.696	4.635
10	6.472	7.356	5.347
11	7.100	8.012	5.902
12	7.728	8.664	6.603
13	8.358	9.314	7.171
14	8.988	9.962	7.863
15	9.620	10.608	8.442
16	10.252	11.254	9.127
17	10.844	11.898	9.713
18	11.518	12.542	10.393
19	12.152	13.186	10.985
20	12.784	13.828	11.659
21	13.420	14.470	12.256
22	14.054	15.110	12.929
23	14.688	15.752	13.529
24	15.322	16.392	14.197
25	15.958	17.032	14.801
26	16.592	17.672	15.467
27	17.228	18.312	16.073
28	17.862	18.950	16.737
30	19.134	20.228	18.009
35	22.312	23.422	21.164
36	22.948	24.060	21.823
40	25.492	26.612	24.367
45	28.672	29.802	27.529
48	30.580	31.714	29.455
54	34.396	35.538	33.271
60	38.214	39.362	37.089
70	44.578	45.734	43.453
80	50.942	52.104	49.817

No. of Teeth	RS200 2½" Pitch		
	Pitch Dia.	Outside Dia.	Caliper Dia.
10	8.090	9.195	6.528
11	8.872	10.020	7.219
12	9.660	10.830	8.098
13	10.447	11.640	8.808
14	11.235	12.460	9.673
15	12.025	13.260	10.397
16	12.815	14.070	11.253
17	13.605	14.870	11.985
18	14.397	15.680	12.835
19	15.190	16.480	13.576
20	15.982	17.290	14.420
21	16.775	18.090	15.166
22	17.567	18.890	16.005
23	18.360	19.690	16.755
24	19.152	20.490	17.590
25	19.947	21.290	18.346
26	20.740	22.090	19.178
28	22.330	23.690	20.768
30	23.917	25.290	22.355
32	25.505	26.880	23.943
35	27.890	29.280	26.300
40	31.865	33.270	30.303
45	35.840	37.250	34.256
54	42.995	44.420	41.433
60	47.767	49.200	46.205

No. of Teeth	RS140 1¼" Pitch		
	Pitch Dia.	Outside Dia.	Caliper Dia.
11	6.213	7.011	5.148
12	6.762	7.581	5.762
13	7.313	8.150	6.259
14	7.865	8.717	6.865
15	8.418	9.282	7.371
16	8.971	9.847	7.971
17	9.524	10.411	8.483
18	10.078	10.974	9.078
19	10.633	11.538	9.596
20	11.186	12.100	10.186
21	11.743	12.661	10.709
22	12.297	13.221	11.297
23	12.852	13.783	11.822
24	13.407	14.343	12.407
25	13.963	14.903	12.935
26	14.518	15.463	13.518
28	15.629	16.581	14.629
30	16.742	17.700	15.742
32	17.854	18.818	16.854
35	19.523	20.494	18.503
36	20.080	21.053	19.080
40	22.306	23.286	21.306
45	25.088	26.077	24.072
48	26.758	27.750	25.758
54	30.097	31.096	29.097
60	33.437	34.442	32.437
70	39.006	40.017	38.006
80	44.574	45.591	43.574

No. of Teeth	RS180 2 ¼" Pitch		
	Pitch Dia.	Outside Dia.	Caliper Dia.
11	7.986	9.010	6.499
12	8.693	9.750	7.287
13	9.402	10.480	7.927
14	10.111	11.210	8.705
15	10.822	11.940	9.357
16	11.533	12.660	10.127
17	12.245	13.390	10.787
18	12.957	14.110	11.551
19	13.670	14.830	12.217
20	14.383	15.560	12.977
21	15.096	16.280	13.648
22	15.810	17.000	14.404
23	16.524	17.720	15.079
24	17.238	18.440	15.832
25	17.952	19.160	16.511
28	20.096	21.320	18.690
30	21.525	22.760	20.119
35	25.101	26.350	23.669
40	28.677	29.940	27.271
45	32.255	33.530	30.829
54	38.695	39.980	37.290
60	42.992	44.280	41.586

No. of Teeth	RS240 3" Pitch		
	Pitch Dia.	Outside Dia.	Caliper Dia.
10	9.708	11.030	7.833
11	10.648	12.020	8.665
12	11.591	13.000	9.716
13	12.536	13.970	10.569
14	13.482	14.940	11.607
15	14.429	15.910	12.475
16	15.377	16.880	13.502
17	16.327	17.850	14.382
18	17.276	18.810	15.401
19	18.227	19.780	16.289
20	19.177	20.740	17.302
21	20.129	21.700	18.197
25	23.936	25.550	22.014
30	28.700	30.340	26.825
35	33.467	35.130	31.559
40	38.237	39.920	36.362
45	43.007	44.700	41.106
54	51.595	53.310	49.720
60	57.322	59.040	55.447

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- (b) Orders are not subject to cancellation or revision, in whole or in part, without written approval of Seller.
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These terms and conditions constitute the entire agreement between Buyer and Seller and supersede any inconsistent terms and conditions, whether contained in Buyer's purchase order or otherwise, and whether made heretofore or hereafter. No statement or writing subsequent to the date hereof which purports to modify or add to the terms and conditions hereof shall be binding unless consented to in writing, which makes specific reference hereto, and which has been signed by the party against which enforcement thereof is sought. Seller reserves the right to change these terms and conditions without prior notice.

## RETURNED GOODS

No goods will be accepted for return without prior written authorization by Seller. Freight must be prepaid on all such returns, and each return is subject to inspection and acceptance by Seller to assure the goods are in a "resalable" condition. A minimum 10% handling and restocking charge will be applied to all authorized returns. Special or made-to-order goods are NOT returnable. Attachment chains returned are at the manufacturer's discretion.

# Maintenance Checklist

Regardless of application, all chain systems should be inspected on a regularly scheduled basis for worn, damaged or broken parts, possible interference by other system components, and proper lubrication. Normal maintenance procedures can prevent most of the conditions described below. Carefully inspect roller chain drives on the same schedule as associated equipment.

## SPROCKET MISALIGNMENT

Wear on the sides of sprocket teeth generally indicates improper installation of sprockets and/or shafts. If shafts are out of parallel or not in the same plane, non-symmetrical wear will appear on sprockets or chain rollers.

After proper alignment is made, retighten set screws in sprocket hubs.

## CHAIN WEAR AND ELONGATION

Normal wear will cause some increase in chain length. However, if a sudden increase in elongation occurs, look for severe wear on the tips of sprocket teeth. This may be caused by any of the following: excessive loading or shock loading, displacement and/or wear in bearings, displacement of takeups, or under-designed drive. Elongation of 3% or more may be an indication that chain and/or sprockets should be replaced.

Before replacing chain or sprockets, recalculate initial drive design. Check chain for broken parts. Check chain tension if there is too much accumulated slack in the drive.

## BROKEN CHAIN PARTS

Generally caused by an overload drive, extreme misalignment, excessive elongation causing chain to jump sprocket teeth, heavy shock, improper drive design geometry, or foreign objects.

Recalculate initial drive design and make necessary corrections. Inspect sprockets and shafts for proper alignment or looseness.

## LINK PLATE WEAR

Wear on edges of outer sides of link plates may be caused by chain contacting a case or fixed object.

Remove or relocate fixed object. Readjust chain properly.

## EXCESSIVE NOISE

Can be caused by broken links and chain rollers, extreme misalignment, elongation, chain jumping sprocket teeth, loose sprockets, broken teeth, accumulation of dirt packed into the chain or sprocket teeth, interference by foreign objects, or contacting a fixed object.

Check for worn, broken, or missing parts. Check alignment of shafts and/or sprockets.

## EXCESSIVE VIBRATION

Unbalanced rotating parts, broken or missing rollers, too much chain slack, loose or misaligned sprockets or shafts.

Inspect chain and drive equipment. Replace or readjust as needed.

## IMPROPER LUBRICATION

Light or dark brown discoloration of pin-bushing joints and connecting link pins, or brown-red oxide color in oil may indicate chain is not dipping into the oil reservoir, or drip lubricator or spray is plugged.

Carefully clean and dry chain, immerse in oil, and reinstall. Change oil in chain case and flush case. Determine that oil supply is adequate and unimpeded.

## SUGGESTED REPLACEMENT PROCEDURES

Chain parts should never be altered or tampered with by makeshift repairs and/or with parts or components which have not been authorized by the company.

## REMOVING CHAIN

Turn the drive until a connecting link is fully engaged with one of the sprockets so as to relieve the tension on the connecting link pin. The connecting link may then be removed.

## CUTTING RIVETED CHAIN

The two pins of a pin link must be driven out of the link plate. Strike the pins alternately to avoid distortion of the roller link plates as well as the plates of the adjacent links.

## PERIODIC CLEANING

Remove chain from sprockets and wash in kerosene. If chain is badly gummed, soak in kerosene and rewash in fresh liquid. Drain off kerosene and soak in oil to restore lubrication. Drain off excessive lubrication by hanging chain. Carefully inspect entire chain before reinstalling. Sprockets should be washed in kerosene.

## STORING CHAIN

When roller chain is taken out of operation for a prolonged period, remove the chain and cover with heavy grease. Wrap in heavy grease-resistant paper and store where the chain will not be exposed to abnormal moisture, temperature, or abrasive or corrosive conditions. Sprockets remaining on shafts should be covered with heavy grease.

When the drive is put back in service, remove the grease and thoroughly clean sprockets and chain before reinstalling.

## HEATING AND WELDING

Do not use a cutting torch on chain. If cutting by torch is indicated, chain should be replaced. Welding should not be performed on any chain or chain components.

## INSERTING NEW LINKS

Insert new links only on new roller chain. Pitch variance between a new link and those on an old chain, especially one which is elongated due to wear, will cause shock when the new link engages the sprocket.

## INSTALLING NEW CHAIN

Chain and/or related parts should be visually inspected for damage which could have occurred during shipment prior to installation. Never install on badly worn sprockets as this will permanently damage the chain. As a temporary expedient, reverse a worn sprocket on the shaft to present a new set of working tooth surfaces. Worn sprockets should be replaced as soon as practical to avoid permanent damage.

## WARNING

### USE CARE TO PREVENT INJURY COMPLY WITH FOLLOWING TO AVOID SERIOUS PERSONAL INJURY:

1. Guards must be provided on all chain and sprocket installations in accordance with provisions of ANSI/ASME B15.1-2000 "Safety Standards for Mechanical Power Transmission Apparatus", and ANSI/ASME B20.1-2000 "Safety Standards for Conveyors and Related Equipment", or other applicable safety standards. When revisions of these standards are published, the updated edition shall apply.
2. Always lock out the power switch before installing, removing, lubricating or servicing a chain system.
3. When connecting or disconnecting chain:
  - a. Eye protection is required. Wear safety glasses, protective clothing, gloves and safety shoes.
  - b. Support the chain to prevent uncontrolled movement of chain and parts.
  - c. Use of pressing equipment is recommended. Tools must be in good condition and properly used.
  - d. Determine correct direction for pin/rivet removal or insertion.

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