

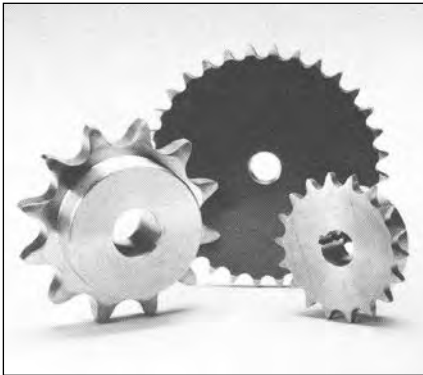


## Section Contents

<b>ROLLER CHAIN DRIVES</b>	
General Description.....	266-267
Horsepower Ratings Charts .....	268-270
Selection Charts .....	271-273
<b>MINIATURE CHAIN SPROCKETS</b>	
Catalog Number Selections/Dimensions .....	274
<b>ROLLER CHAIN SPROCKETS</b>	
Catalog Number Selections/Dimensions .....	275-297
<b>BLOCK CHAIN SPROCKETS</b>	
Catalog Number Selections/Dimensions .....	298
<b>LADDER CHAIN SPROCKETS</b>	
Catalog Number Selections/Dimensions .....	299-300
<b>ROLLER CHAIN DRIVE TENSIONERS</b>	
Catalog Number Selections/Dimensions .....	301-304
<b>IDLER SPROCKETS</b>	
Catalog Number Selections/Dimensions .....	301

# Chain Drives

## Roller Chain Sprockets



**Boston roller chain sprockets** are quality designed and built to ANSI specifications for superior fatigue resistance and long operational life in a host of industrial and process applications. Sprockets are available in a wide range of materials and pitches, with or without hubs.

### Types and Styles

#### Type A – No Hub

Boston standard Type A sprockets are stocked for all single strand Roller Chains up to 1" Pitch (#80 Chain).

#### Type B – Single Hub

Boston Steel—Type B Stock Bore sprockets are stocked for all single strand Roller Chains up to 1" Pitch (#80 Chain) and for double strand Roller Chains in 3/8, 1/2, 5/8 and 3/4" Pitches.

Boston Stainless Steel—Type B Stock Bore sprockets are stocked for single strand Roller Chain in 1/4, 3/8, and 1/2" pitches.

Boston Steel—Type B Bored-to-Size sprockets are stocked for single strand Roller Chain in 1/4, 3/8, 1/2, 5/8, 3/4, and 1" pitches.

Boston Type B sprockets are solid (one piece) construction in small sizes, and two-piece design in larger numbers of teeth, see Chart.

Pitch Size	Solid up to	Two-Piece starting at
25	25B30	25B32
35	35B25	35B26
41	41B20	41B21
40	40B20	40B21
50	50B16	50B17
60	60B16	60B17
80	80B14	80B15

## Roller Chain Drive Selection

The following considerations are very important in the selection and application of roller chain drives:

**HORSEPOWER RATINGS**—This catalog lists Horsepower Ratings for ANSI Series, single pitch, single strand chains No. 25 through No.160 (and lightweight machinery series No. 41).

Ratings are listed for various numbers of teeth and speeds of smaller sprocket. Ratings for intermediate numbers of teeth or RPM may be determined by interpolation. The ratings reflect a service factor of 1, a chain length of approximately 100 pitches, the use of recommended lubrication methods and a drive arrangement where two aligned sprockets are mounted on parallel horizontal shafts. For maximum service life, sprockets with small numbers of teeth, operating at moderate to high speeds or near the rated horsepower should have hardened teeth. Approximately 15,000 hours of service life at full load operation may be expected under these conditions.

**NO. OF TEETH**—It is good practice to select a pinion sprocket with no less than 17 Teeth, to assure 120° of chain wrap and minimize overhung load. However, certain conditions, i.e., space limitations, light loads, intermittent duty, etc. will permit the use of smaller pinions.

**RATIO**—Sprocket ratios should not exceed about 6 to 1 for normal chain life.

**HARDENED TEETH**—Boston Gear steel sprockets can be hardened. Consult the factory for recommended procedure.

**CENTER DISTANCE**—The correct center distance is very important. In designing chain drives, it is important that the Center Distance should be long enough to provide at least 120° of chain wrap on the smaller sprocket.

**RELATIVE SHAFT LOCATIONS**—It is desirable that the line between the two shaft centers be as nearly horizontal as possible. If this line is more than 60° from the horizontal, special precautions should be taken.

## Roller Chain Drive Selection (Continued)

A roller chain consists essentially of numerous small bearings operating under high pressures and requires adequate lubrication. There are four basic types of lubrication suggested for chain drives, depending upon the chain speed and the power transmitted. The Horsepower Rating Tables indicate the type of lubrication recommended.

### Type I—Manual Lubrication

Manual lubrication is accomplished by applying oil with a brush or spout can to the inside of the chain at the edges of the side plates. Volume and frequency should be determined by periodic inspection.

### TYPE II—Drip Lubrication

Oil is directed between link plate edges to a drip lubricator. Only enough oil to keep the chain moist is necessary and a light metal splash guard will keep the floor and surroundings clean.

### TYPE III—Bath or Disc Lubrication

With bath lubrication, the lower strand of the chain runs through a sump of oil. The oil level should reach the pitch line of the chain at its lowest point while operating. With disc lubrication, the chain operates above the oil level. The disc picks up oil from the sump and deposits it on the chain, usually by means of a trough. The disc diameter should be such as to produce rim speeds from 600 minimum to 8000 maximum FPM. This type of lubrication requires that the drive be enclosed in an oil tight chain case.

### TYPE IV—Oil Stream Lubrication

The lubricant is usually supplied by a circulating pump capable of supplying the chain drive with a continuous stream of oil. The oil should be applied inside the chain loop evenly across the chain width, and directed at the lower strand. This type of lubrication requires that the drive be enclosed in an oil tight chain case.

Recommended lubricant viscosities for various ambient temperatures are listed in the following table:

Temp. Degrees F.	Lubricant	Temp. Degrees F.	Lubricant
20-40	SAE20	100-120	SAE-40
40-100	SAE30	120-140	SAE50

**SURROUNDING CONDITIONS**—Abrasive, corrosive, or high temperature conditions can shorten chain life. If adverse conditions exist, special precautions should be taken. It may be advisable to use a drive with higher capacity than normal, stainless steel chain, etc.

Roller chain drives may be selected with the following procedure:

- From Table #1 of the Application Classification Chart on Pages 331-332 determine the Service Factor.
- Multiply the Application HP by the Service Factor to obtain a Design HP.\*
- The Selection Table below may be used to select an appropriate chain size using a sprocket of 17 teeth or larger.
- From the appropriate horsepower rating table (pages 268-270) determine the minimum size sprocket needed to provide, at the required speed, a rating equal to (or greater than) the Design horsepower.
- The Tables on pages 271-273 may then be used to select number of sprocket teeth, shaft center distance and chain length of a drive suitable for the application.

\*For Stainless Steel Chains, operating under wet or dry conditions, the Design Horsepower must be multiplied by a Factor (see Table below) for selection purposes.

NOTE: Standard Steel Chains are not recommended for wet or dry applications.

Application Conditions	Factor
Wet (Moisture)	2.0
Dry (Unlubricated)	5.0

Horsepower ratings of Multiple Strand chain may be obtained by multiplying the Single Strand rating by the proper Factor from the following table:

### MULTIPLE STRAND RATING FACTORS

Number of Strands	Double	Triple	Quadruple
Rating Factor	1.7	2.5	3.3

\*These Horsepower Ratings are based on certain operating conditions, see Page 268.

### SELECTION TABLE

RPM Smaller Sprocket	DESIGN HORSEPOWER												
	1/2	1	1-1/2	2	3	4	5	7-1/2	10	15	20	25	30
	CHAIN NUMBER												
1800	25	25	35	35	35	40	40	40	50	80	60-2	80-2	—
1500	25	25	35	35	35	40	40	40	60	60	80	60-2	80-2
1200	25	35	35	35	40	40	40	50	60	60	80	80	100
1000	25	35	35	35	40	40	40	50	60	60	80	80	80
800	25	35	35	40	40	40	40	50	60	60	80	80	80
700	25	35	35	40	40	50	50	50	60	80	80	80	80
600	35	35	35	40	40	50	50	60	60	80	80	80	100
500	35	35	40	40	50	50	50	60	80	80	80	100	100
400	35	35	40	40	50	50	50	60	80	80	100	100	100
350	35	40	40	40	50	50	50	60	80	80	100	100	100
300	35	40	40	50	50	60	60	80	80	100	100	100	120
250	35	40	40	50	50	60	60	80	80	100	100	120	120
200	35	40	50	50	60	60	60	80	80	100	120	120	120
175	40	40	50	50	60	60	80	80	100	100	120	120	140
150	40	50	50	60	60	80	80	80	100	120	120	120	140
125	40	50	50	60	80	80	80	100	100	120	120	140	140
100	40	50	60	60	80	80	80	100	100	120	140	140	160
80	40	50	60	80	80	80	80	100	100	120	140	140	160
70	50	60	60	80	80	80	80	100	120	120	140	160	160
60	50	60	80	80	80	100	100	120	120	140	160	160	
50	50	60	80	80	80	100	100	120	140	160	160		
40	50	60	80	80	100	100	100	120	120	140	160		
30	60	80	80	100	100	120	120	140	140	160			
25	60	80	80	100	120	120	140	140	160				
20	60	80	100	100	120	120	140	140	160				
15	80	100	100	120	120	140	140	160					
10	80	100	120	120	140	140							

# Roller Chain Drives

## Horsepower Ratings for ANSI Roller Chains

See Horsepower Ratings, page 267

Small Sprocket		HP RATINGS—STANDARD SINGLE * STRAND ROLLER CHAIN—NO. 25-1/4" PITCH																						
RPM →	Teeth	P.D.	10	20	30	50	75	100	125	150	200	250	300	400	600	900	1200	1800	2500	3000	3500	4000		
12	12	.97"	.007	.014	.020	.032	.046	.059	.072	.085	.11	.24	.16	.21	.29	0.43	0.55	0.80	1.07	1.26	1.45	1.62		
15	15	1.20	.009	.018	.025	.040	.058	.075	.092	.108	.14	.17	.20	.26	.38	0.54	0.70	1.01	1.36	1.61	1.85	2.08		
17	17	1.36	.011	.020	.029	.046	.066	.086	.105	.124	.16	.20	.23	.30	.43	0.62	0.81	1.16	1.56	1.84	2.11	2.38		
19	19	1.52	.012	.023	.033	.052	.075	.097	.119	.140	.18	.22	.26	.34	.49	0.70	0.91	1.31	1.76	2.07	2.38	2.69		
20	20	1.60	.013	.024	.035	.055	.079	.103	.125	.148	.19	.23	.28	.36	.52	0.74	0.96	1.38	1.86	2.19	2.52	2.84		
Lubrication #															Type I					Type II				

Small Sprocket		HP RATINGS—STANDARD SINGLE * STRAND ROLLER CHAIN—NO. 35-3/8" PITCH																											
RPM →	Teeth	P.D.	10	20	30	50	75	100	125	150	200	250	300	400	600	900	1200	1500	1800	2500	3000								
11	11	1.33"	.023	.043	.062	.098	.14	.18	.22	.26	.34	.42	.49	.63	.91	1.32	1.72	2.08	2.47	3.32	2.93								
13	13	1.57	.027	.051	.074	.117	.17	.22	.27	.31	.41	.50	.59	.76	1.09	1.59	2.05	2.49	2.96	3.98	3.76								
15	15	1.80	.032	.060	.086	.136	.20	.26	.31	.37	.47	.58	.68	.89	1.28	1.85	2.40	2.91	3.45	4.64	4.66								
17	17	2.04	.037	.068	.099	.156	.22	.29	.36	.42	.54	.66	.78	1.02	1.46	2.12	2.75	3.33	3.95	5.31	5.63								
19	19	2.28	.042	.077	.111	.176	.25	.33	.40	.47	.61	.75	.88	1.15	1.65	2.39	3.10	3.76	4.46	5.99	6.65								
21	21	2.52	.046	.086	.124	.196	.28	.37	.45	.53	.68	.83	.98	1.27	1.84	2.66	3.45	4.19	4.97	6.68	7.73								
23	23	2.75	.051	.095	.137	.217	.31	.41	.49	.58	.75	.92	1.09	1.41	2.03	2.94	3.81	4.62	5.48	7.37	8.68								
25	25	2.99	.055	.104	.150	.237	.34	.44	.54	.64	.82	1.01	1.19	1.54	2.22	3.21	4.16	5.06	6.00	8.06	9.50								
Lubrication #															Type I					Type II					Type III				

Small Sprocket		HP RATINGS—STANDARD SINGLE * STRAND ROLLER CHAIN—NO. 41-1/2" PITCH																																
RPM →	Teeth	P.D.	10	20	30	50	75	100	125	150	200	250	300	400	600	900	1200	1800	2400	3000														
11	11	1.77"	.030	.056	.080	.13	.18	.24	.29	.34	.44	.54	.64	.82	1.19	1.71	1.71	.093	.060	.043														
13	13	2.09	.036	.067	.096	.15	.22	.28	.35	.41	.53	.65	.76	.99	1.42	2.05	2.20	1.20	0.78	0.56														
15	15	2.40	.042	.078	.112	.18	.26	.33	.40	.48	.62	.75	.89	1.15	1.66	2.39	2.73	1.49	0.96	0.69														
17	17	2.72	.048	.089	.128	.20	.29	.38	.46	.55	.71	.86	1.02	1.32	1.90	2.74	3.29	1.79	1.16	0.83														
19	19	3.04	.054	.100	.145	.23	.33	.43	.52	.62	.80	.97	1.15	1.49	2.14	3.09	3.89	2.12	1.38	0.98														
21	21	3.35	.060	.112	.161	.26	.37	.48	.58	.69	.89	1.09	1.28	1.66	2.39	3.44	4.46	2.46	1.60	1.14														
23	23	3.67	.066	.124	.178	.28	.41	.53	.64	.76	.98	1.20	1.41	1.83	2.64	3.79	4.92	2.82	1.83	1.31														
25	25	3.99	.072	.135	.195	.31	.44	.58	.70	.83	1.07	1.31	1.55	2.00	2.88	4.15	5.38	3.20	2.08	1.49														
Lubrication #															Type I					Type II					Type III					Type IV				

Small Sprocket		HP RATINGS—STANDARD SINGLE * STRAND ROLLER CHAIN—NO. 43-1/2" PITCH																											
RPM →	Teeth	P.D.	10	20	30	40	50	75	100	125	150	175	200	250	300	350	400	500	600	900									
11	11	1.77"	.030	.056	.080	.11	.13	.18	.24	.29	.34	.39	.44	.54	.64	.73	.82	1.01	1.19	1.40									
13	13	2.09	.036	.067	.096	.13	.15	.22	.28	.35	.41	.47	.53	.65	.76	.87	.99	1.21	1.42	1.70									
15	15	2.41	.042	.078	.112	.15	.18	.26	.33	.40	.48	.55	.62	.75	.89	1.02	1.15	1.41	1.66	2.00									
16	16	2.56	.045	.084	.120	.16	.19	.28	.36	.43	.52	.59	.67	.81	.96	1.10	1.23	1.51	1.78	2.28									
18	18	2.88	.051	.095	.137	.18	.22	.31	.41	.49	.59	.67	.76	.92	1.09	1.25	1.41	1.72	2.02	2.80									
20	20	3.20	.057	.106	.153	.20	.25	.35	.46	.55	.66	.75	.85	1.03	1.22	1.40	1.58	1.93	2.27	3.25									
22	22	3.51	.063	.118	.170	.23	.27	.39	.51	.61	.73	.83	.94	1.15	1.35	1.55	1.75	2.14	2.52	3.62									
24	24	3.83	.069	.130	.187	.25	.30	.43	.56	.67	.80	.91	1.03	1.26	1.48	1.70	1.92	2.35	2.76	3.97									
Lubrication #															Type I					Type II					Type III				

\*See Page 267 for Multiple Strand Rating Factor.

#See Page 267 for Lubrication Details.

RATINGS FOR INTERMEDIATE NUMBERS OF TEETH OR RPM MAY BE OBTAINED BY INTERPOLATION.

# Roller Chain Drives

## Horsepower Ratings for ANSI Roller Chains

See Horsepower Ratings, page 267

Small Sprocket		HP RATINGS—STANDARD SINGLE * STRAND ROLLER CHAIN—NO. 40-1/2" PITCH																				
RPM →	Teeth	10	20	30	50	75	100	125	150	200	250	300	400	500	600	900	1200	1500	1800	2400	3000	
	P.D.																					
	11	1.77	.054	.10	.15	.23	.33	.43	.53	.62	.80	.98	1.16	1.50	1.84	2.16	3.11	4.03	4.93	4.66	3.03	2.17
	13	2.09	.065	.12	.17	.28	.40	.52	.63	.74	.96	1.18	1.39	1.80	2.20	2.59	3.73	4.83	5.91	5.99	3.89	2.79
	15	2.40	.076	.14	.20	.32	.46	.60	.74	.87	1.12	1.37	1.62	2.10	2.56	3.02	4.35	5.64	6.89	7.43	4.82	3.45
	17	2.72	.087	.16	.23	.37	.53	.69	.84	.99	1.29	1.57	1.85	2.40	2.94	3.45	4.98	6.45	7.89	8.96	5.82	4.17
	19	3.04	.098	.18	.26	.42	.60	.78	.95	1.12	1.45	1.77	2.09	2.71	3.31	3.90	5.62	7.27	8.89	10.5	6.88	4.92
	21	3.35	.109	.20	.29	.46	.67	.87	1.06	1.25	1.62	1.98	2.33	3.02	3.69	4.34	6.26	8.11	9.91	11.7	7.99	5.72
	23	3.67	.120	.22	.32	.51	.74	.96	1.17	1.38	1.78	2.18	2.57	3.33	4.07	4.79	6.90	8.94	10.9	12.9	9.16	6.55
	25	3.99	.132	.25	.35	.56	.81	1.05	1.28	1.51	1.95	2.38	2.81	3.64	4.45	5.24	7.55	9.78	12.0	14.1	10.4	7.43
Lubrication #		Type I								Type II						Type III			Type IV			

Small Sprocket		HP RATINGS—STANDARD SINGLE * STRAND ROLLER CHAIN—NO. 50-5/8" PITCH																				
RPM →	Teeth	10	20	30	50	75	100	125	150	200	250	300	400	600	900	1200	1500	1800	2100	2400	2700	
	P.D.																					
	11	2.22	.11	.20	.28	.45	.65	.84	1.03	1.21	1.56	1.91	2.25	2.92	4.21	6.07	7.86	7.44	5.58	4.42	3.62	3.04
	13	2.61	.13	.24	.34	.54	.78	1.01	1.23	1.45	1.87	2.29	2.70	3.50	5.04	7.26	9.42	9.56	7.17	5.67	4.65	3.90
	15	3.01	.15	.28	.40	.63	.90	1.17	1.43	1.69	2.19	2.67	3.15	4.08	5.88	8.48	11.0	11.9	8.89	7.03	5.76	4.83
	17	3.40	.17	.32	.45	.72	1.04	1.34	1.64	1.93	2.50	3.06	3.60	4.67	6.73	9.70	12.6	14.3	10.7	8.48	6.95	5.83
	19	3.80	.19	.36	.51	.81	1.17	1.51	1.85	2.18	2.82	3.45	4.06	5.27	7.59	10.9	14.2	16.9	12.7	10.0	8.22	6.89
	21	4.19	.21	.40	.57	.90	1.30	1.69	2.06	2.43	3.15	3.85	4.53	5.87	8.46	12.2	15.8	19.3	14.7	11.6	9.55	8.01
	23	4.59	.23	.44	.63	1.00	1.44	1.86	2.27	2.68	3.47	4.24	5.00	6.48	9.33	13.4	17.4	21.3	16.9	13.3	10.9	9.18
	25	4.99	.26	.48	.69	1.09	1.57	2.04	2.49	2.93	3.80	4.64	5.47	7.09	10.2	14.7	19.1	23.3	19.1	15.1	12.4	10.4
Lubrication #		Type I					Type II					Type III					Type IV					

Small Sprocket		HP RATINGS—STANDARD SINGLE * STRAND ROLLER CHAIN—NO. 60-3/4" PITCH																					
RPM →	Teeth	10	20	30	50	75	100	125	150	200	250	300	400	600	900	1200	1400	1600	1800	2000	2200	2400	
	P.D.																						
	11	2.66	.18	.34	.49	.78	1.11	1.44	1.76	2.07	2.69	3.29	3.87	5.02	7.23	10.5	11.9	9.45	7.70	6.49	5.51	4.78	4.20
	13	3.13	.22	.41	.58	.93	1.33	1.72	2.11	2.48	3.22	3.94	4.64	6.01	8.65	12.5	15.3	12.1	9.89	8.34	7.08	6.14	5.39
	15	3.61	.25	.47	.68	1.08	1.55	2.01	2.46	2.90	3.76	4.59	5.41	7.01	10.1	14.6	18.9	15.0	12.3	10.3	8.77	7.61	6.68
	17	4.08	.29	.54	.78	1.24	1.78	2.30	2.82	3.32	4.31	5.26	6.20	8.03	11.6	16.7	21.7	18.2	14.8	12.5	10.6	9.18	8.06
	19	4.56	.33	.61	.88	1.40	2.01	2.60	3.18	3.74	4.86	5.93	6.99	9.05	13.0	18.8	24.4	21.5	17.5	14.7	12.5	10.9	9.52
	21	5.03	.37	.68	.98	1.56	2.24	2.89	3.54	4.17	5.41	6.61	7.78	10.1	14.5	21.0	27.2	24.9	20.3	17.1	14.5	12.6	11.1
	23	5.51	.40	.75	1.08	1.72	2.47	3.19	3.91	4.60	5.97	7.29	8.59	11.1	16.0	23.2	30.2	28.6	23.3	19.6	16.7	14.4	12.7
	25	5.98	.44	.82	1.18	1.88	2.70	3.49	4.28	5.04	6.53	7.98	9.40	12.2	17.5	25.4	32.9	32.4	26.4	22.3	18.9	16.4	14.4
Lubrication #		Type I					Type II					Type III					Type IV						

Small Sprocket		HP RATINGS—STANDARD SINGLE * STRAND ROLLER CHAIN—NO. 80-1" PITCH																					
RPM →	Teeth	10	20	30	50	75	100	125	150	200	250	300	400	600	900	1000	1200	1400	1600	1800	2000	2200	
	P.D.																						
	11	3.55	.42	.79	1.14	1.80	2.60	3.36	4.11	4.84	6.28	7.67	9.04	11.7	16.9	23.0	19.6	14.9	11.8	9.69	8.12	6.94	6.01
	13	4.18	.51	.95	1.36	2.16	3.11	4.03	4.92	5.80	7.51	9.19	10.8	14.0	20.2	29.1	25.2	19.2	15.2	12.5	10.4	8.91	7.72
	15	4.81	.59	1.10	1.59	2.52	3.63	4.70	5.75	6.77	8.77	10.7	12.6	16.4	23.6	34.0	31.2	23.8	18.9	15.4	12.9	11.0	9.57
	17	5.44	.68	1.26	1.82	2.88	4.15	5.38	6.58	7.75	10.0	12.3	14.5	18.7	27.0	38.9	37.6	28.7	22.7	18.6	15.6	13.3	11.5
	19	6.08	.76	1.43	2.05	3.25	4.68	6.07	7.42	8.74	11.3	13.8	16.3	21.1	30.4	43.8	44.5	33.9	26.9	22.0	18.4	15.7	13.6
	21	6.71	.85	1.59	2.29	3.62	5.22	6.76	8.27	9.74	12.6	15.4	18.2	23.6	34.0	48.9	51.7	39.4	31.2	25.6	21.4	18.3	15.9
	23	7.34	.94	1.75	2.52	4.00	5.76	7.46	9.12	10.7	13.9	17.0	20.0	26.0	37.4	53.9	59.2	45.1	35.8	29.3	24.6	21.0	18.2
	25	7.98	1.03	1.92	2.76	4.38	6.30	8.17	9.98	11.8	15.2	18.6	21.9	28.4	40.9	59.0	64.9	51.1	40.6	33.2	27.8	23.8	20.6
Lubrication #		Type I					Type II					Type III					Type IV						

\*See Page 267 for Multiple Strand Rating Factor.

#See Page 267 for Lubrication Details.

**RATINGS FOR INTERMEDIATE NUMBERS OF TEETH OR RPM MAY BE OBTAINED BY INTERPOLATION.**



# Roller Chain Drives

## Horsepower Ratings for ANSI Roller Chains

See Horsepower Ratings, page 267

Small Sprocket		HP RATINGS—STANDARD SINGLE * STRAND ROLLER CHAIN—NO. 100-1-1/4" PITCH																		
RPM →	Teeth	10	20	30	50	75	100	125	150	200	250	300	400	500	600	900	1000	1200	1400	
	P.D.																			
	11	4.44	.81	1.51	2.18	3.45	4.97	6.44	7.88	9.28	12.0	14.7	17.3	22.4	27.4	32.3	27.5	23.4	17.8	14.2
	13	5.22	.97	1.81	2.61	4.13	5.96	7.72	9.43	11.1	14.4	17.6	20.7	26.9	32.8	38.7	35.3	30.1	22.9	18.2
	15	6.01	1.13	2.12	3.05	4.82	6.95	9.00	11.0	13.0	16.8	20.6	24.2	31.4	38.3	45.2	43.7	37.3	28.4	22.5
	17	6.80	1.30	2.42	3.49	5.52	7.96	10.3	12.6	14.9	19.2	23.5	27.7	35.9	43.9	51.7	52.7	45.0	34.3	27.2
	19	7.59	1.46	2.73	3.93	6.23	8.98	11.6	14.2	16.8	21.7	26.5	31.2	40.5	49.5	58.3	62.3	53.2	40.5	32.1
	21	8.39	1.63	3.04	4.38	6.94	10.0	12.9	15.8	18.7	24.2	29.6	34.8	45.1	55.1	64.9	72.4	61.8	47.0	37.3
	23	9.18	1.80	3.36	4.84	7.65	11.0	14.3	17.5	20.6	26.6	32.6	38.4	49.7	60.8	71.7	83.0	70.9	53.9	42.8
	25	9.97	1.97	3.67	5.29	8.37	12.1	15.6	19.1	22.5	29.2	35.7	42.0	54.4	66.5	78.4	94.1	80.3	61.1	48.5
Lubrication #		Type I			Type II			Type III					Type IV							

Small Sprocket		HP RATINGS—STANDARD SINGLE * STRAND ROLLER CHAIN—NO. 120-1-1/2" PITCH																			
RPM →	Teeth	10	20	30	50	75	100	125	150	200	250	300	400	500	600	700	800	900	1000	1200	
	P.D.																				
	11	5.324	1.37	2.56	3.68	5.82	8.40	10.9	13.3	15.6	20.3	24.8	29.2	37.8	46.3	54.5	46.3	37.9	31.8	27.1	20.6
	13	6.268	1.64	3.06	4.41	6.97	10.1	13.0	15.9	18.7	24.3	29.7	35.0	45.3	55.4	65.3	59.5	48.7	40.8	34.9	26.5
	15	7.215	1.91	3.57	5.14	8.13	11.7	15.2	18.6	21.9	28.3	34.7	40.8	52.9	64.6	76.1	73.8	60.4	50.6	43.2	32.9
	17	8.164	2.19	4.09	5.88	9.31	13.4	17.4	21.3	25.0	32.4	39.7	46.7	60.5	74.0	87.2	89.0	72.8	61.0	52.1	39.6
	19	9.114	2.47	4.61	6.64	10.5	15.2	19.6	24.0	28.2	36.5	44.8	52.7	68.2	83.4	98.3	105	86.1	72.1	61.6	46.8
	21	10.064	2.75	5.13	7.39	11.7	16.9	21.8	26.7	31.4	40.7	49.8	58.7	76.0	93.0	110	122	100	83.8	71.6	54.4
Lubrication #		Type I		Type II				Type III					Type IV								

Small Sprocket		HP RATINGS—STANDARD SINGLE * STRAND ROLLER CHAIN—NO. 140-1-3/4" PITCH																	
RPM →	Teeth	10	20	30	50	75	100	125	150	200	250	300	400	500	600	700	800	900	
	P.D.																		
	11	6.211	2.13	3.97	5.72	9.06	13.1	16.9	20.7	24.4	31.5	38.6	45.5	58.9	72.0	65.8	52.4	42.9	35.9
	13	7.312	2.55	4.74	6.83	10.9	15.6	20.3	24.7	29.2	37.8	46.2	54.4	70.5	86.2	84.6	67.3	55.1	46.2
	15	8.417	2.98	5.56	8.01	12.7	18.3	23.7	28.9	34.1	44.1	54.0	63.6	82.4	101	105	83.4	68.3	57.2
	17	9.523	3.41	6.36	9.16	14.5	20.9	27.1	33.1	39.0	50.5	61.7	72.8	94.2	115	126	100	82.4	69.1
	19	10.632	3.84	7.17	10.3	16.0	23.5	30.5	37.3	44.0	57.0	70.0	82.1	106	130	149	119	97.4	81.6
	21	11.742	4.28	7.98	11.5	18.2	26.2	34.0	41.5	49.0	63.4	77.6	91.4	118	145	171	138	113	94.8
Lubrication #		Type I		Type II			Type III					Type IV							

Small Sprocket		HP RATINGS—STANDARD SINGLE * STRAND ROLLER CHAIN—NO. 160-2" PITCH															
RPM →	Teeth	10	20	30	50	75	100	125	150	200	250	300	400	500	550	600	
	P.D.																
	11	7.099	3.07	5.74	8.26	13.1	18.8	24.4	29.8	35.1	45.5	55.6	65.5	84.9	96.7	83.9	73.5
	13	8.357	3.67	6.85	9.86	15.7	22.5	29.2	35.6	42.0	54.4	66.6	78.4	102	124	108	94.4
	15	9.620	4.28	8.00	11.5	18.3	26.3	34.1	41.7	49.0	63.5	77.7	91.5	119	145	134	117
	17	10.884	4.90	9.16	13.2	20.9	30.1	39.0	47.7	56.1	72.7	88.9	105	136	166	161	141
	19	12.151	5.53	10.3	14.9	23.6	33.9	44.0	53.8	63.2	82.0	100	118	153	188	190	166
	21	13.419	6.16	11.5	16.6	26.3	37.8	49.0	59.9	70.5	91.4	112	132	171	209	220	194
Lubrication #		Type I		Type II			Type III					Type IV					

\*See Page 267 for Multiple Strand Rating Factor.

#See Page 267 for Lubrication Details.

**RATINGS FOR INTERMEDIATE NUMBERS OF TEETH OR RPM MAY BE OBTAINED BY INTERPOLATION.**

### SPEED RATIOS - CENTER DISTANCES - CHAIN LENGTHS

Teeth Driven Sprocket	Teeth on Driver Sprocket														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
15	1.36 6.469 26	1.25 7.235 28	1.15 6.993 28	1.07 7.748 20	1.00 7.500 30					<b>RATIO</b> <b>CENTER DISTANCE - IN PITCHES</b> <b>CHAIN LENGTH - IN PITCHES</b> To obtain corresponding values in INCHES, multiply by the appropriate Chain Pitch.					
16	1.45 7.207 28	1.33 6.971 28	1.23 7.736 30	1.14 7.494 30	1.07 8.249 32	1.00 8.000 32									
17	1.55 7.943 30	1.42 7.710 30	1.31 7.473 30	1.21 8.237 32	1.13 7.994 32	1.06 8.749 34	1.00 8.500 34								
18	1.64 7.669 30	1.50 8.446 32	1.38 8.212 32	1.29 7.975 32	1.20 8.737 34	1.13 8.495 34	1.06 9.249 36	1.00 9.000 36							
19	1.73 8.404 32	1.58 8.174 32	1.46 8.949 34	1.36 8.714 34	1.27 8.477 34	1.19 9.238 36	1.12 8.995 36	1.06 9.749 38	1.00 9.500 38						
20	1.82 8.124 32	1.67 8.909 34	1.54 8.679 34	1.43 9.452 36	1.33 9.216 36	1.25 8.978 36	1.18 9.739 38	1.11 9.495 38	1.05 10.249 40	1.00 10.000 40					
21	1.91 8.857 34	1.75 8.632 34	1.61 9.414 36	1.50 9.183 36	1.40 9.955 38	1.31 9.718 38	1.24 9.479 38	1.17 10.239 40	1.11 9.995 40	1.05 10.749 42	1.00 10.500 42				
22	2.00 9.590 36	1.83 9.365 36	1.69 9.139 36	1.57 9.918 38	1.47 9.686 38	1.37 10.457 40	1.29 10.220 40	1.22 9.980 40	1.16 10.740 42	1.10 10.496 42	1.05 11.249 44	1.00 11.000 44			
23	2.09 9.304 36	1.92 10.098 38	1.77 9.872 38	1.64 9.645 38	1.53 10.422 40	1.44 10.189 40	1.35 10.959 42	1.28 10.721 42	1.21 10.481 42	1.15 11.240 44	1.10 10.996 44	1.05 11.749 46	1.00 11.500 46		
24	2.18 10.037 38	2.00 9.815 38	1.85 10.605 40	1.72 10.378 40	1.69 10.150 40	1.50 10.926 42	1.41 10.692 42	1.33 11.461 44	1.26 11.222 44	1.20 10.982 44	1.14 11.741 46	1.09 11.496 46	1.04 12.249 48	1.00 12.000 48	
25	2.27 9.744 38	2.08 10.547 40	1.92 10.324 40	1.79 11.112 42	1.67 10.884 42	1.56 10.654 42	1.47 11.429 44	1.39 11.195 44	1.31 11.963 46	1.25 11.723 46	1.19 11.483 46	1.14 12.241 48	1.09 11.996 48	1.04 12.750 50	1.00 12.500 50
30	2.72 11.345 44	2.50 12.161 46	2.31 11.943 46	2.14 12.746 48	2.00 12.522 48	1.88 12.299 48	1.76 13.087 50	1.67 12.858 50	1.58 13.638 52	1.50 13.406 52	1.43 13.172 52	1.36 13.942 54	1.30 13.705 54	1.25 14.469 56	1.20 14.228 56
32	2.91 12.812 48	2.66 12.597 48	2.46 12.379 48	2.28 13.188 50	2.14 12.967 50	2.00 13.765 52	1.88 13.539 52	1.78 13.314 52	1.68 14.099 54	1.60 13.869 54	1.52 14.646 56	1.45 14.413 56	1.39 14.178 56	1.33 14.946 58	1.28 14.708 58
35	3.18 13.976 52	2.92 13.761 52	2.69 13.546 52	2.50 14.361 54	2.33 14.141 54	2.19 13.921 54	2.06 14.721 56	1.94 14.497 56	1.84 15.288 58	1.75 15.061 58	1.67 14.833 58	1.59 15.613 60	1.52 15.382 60	1.46 16.155 62	1.40 15.921 62
36	3.27 13.668 52	3.00 14.495 54	2.77 14.279 54	2.57 14.063 54	2.40 14.874 56	2.25 14.653 56	2.12 14.433 56	2.00 15.230 58	1.89 15.006 58	1.80 15.795 60	1.71 15.567 60	1.64 15.338 60	1.56 16.117 62	1.50 15.886 62	1.44 16.658 64
40	3.64 15.561 58	3.34 15.349 58	3.08 15.136 58	2.86 15.961 60	2.67 15.746 60	2.50 15.528 60	2.35 16.339 62	2.22 16.119 62	2.10 16.920 64	2.00 16.697 64	1.90 16.473 64	1.82 17.262 66	1.74 17.035 66	1.67 17.818 68	1.60 17.588 68
42	3.82 15.983 60	3.50 15.773 60	3.23 16.605 62	3.00 16.391 62	2.80 16.177 62	2.62 16.994 64	2.47 16.777 64	2.34 16.557 64	2.21 17.364 66	2.10 17.142 66	2.00 17.939 68	1.91 17.714 68	1.83 17.489 68	1.75 18.275 70	1.68 18.047 70
45	4.09 17.139 64	3.75 16.930 64	3.46 16.719 64	3.22 17.553 66	3.00 17.340 66	2.81 18.161 68	2.65 17.945 68	2.50 17.728 68	2.37 18.536 70	2.25 18.317 70	2.14 18.096 70	2.04 18.895 72	1.96 18.671 72	1.88 19.463 74	1.80 19.237 74

For Center Distances other than listed in this Table, the Chain Length must be calculated, see Page 273.



# Roller Chain Drives

## Selection

### SPEED RATIOS - CENTER DISTANCES - CHAIN LENGTHS

Teeth Driven Sprocket	Teeth on Driver Sprocket														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
48	4.36 18.294 68	4.00 18.085 68	3.69 18.925 70	3.43 18.713 70	3.20 18.500 70	3.00 18.287 70	2.92 19.110 72	2.67 18.894 72	2.52 18.677 72	2.40 19.489 74	2.28 19.270 74	2.18 20.073 76	2.08 18.829 74	2.00 19.628 76	1.92 20.422 78
54	4.91 19.539 74	4.50 20.396 76	4.15 20.186 76	3.86 19.977 76	3.60 20.819 78	3.38 20.607 78	3.18 20.395 78	3.00 21.223 80	2.84 21.008 80	2.70 21.827 82	2.57 21.609 82	2.46 21.392 82	2.34 22.200 84	2.25 21.980 84	2.16 21.760 84
60	5.45 21.843 82	5.00 21.637 82	4.61 22.496 84	4.29 22.287 84	4.00 22.079 84	3.75 22.923 86	3.53 22.712 86	3.33 22.501 86	3.16 23.332 88	3.00 23.119 88	2.86 23.492 90	2.73 23.726 90	2.61 23.510 90	2.50 24.323 92	2.40 24.104 92
70		5.83 25.834 96	5.39 25.628 96	5.00 25.422 96	4.67 26.279 98	4.37 26.071 98	4.12 25.863 98	3.89 26.708 100	3.68 26.498 100	3.50 26.287 100	3.33 27.121 102	3.18 26.910 102	3.04 26.695 102	2.92 27.522 104	2.80 27.306 104
72		6.00 26.244 98	5.54 26.038 98	5.14 25.834 98	4.80 26.694 100	4.50 26.487 100	4.24 27.337 102	4.00 27.128 102	3.79 27.918 104	3.60 27.758 104	3.43 27.547 104	3.27 27.334 104	3.13 28.164 106	3.00 27.951 106	2.88 27.736 106
80				5.71 28.545 108	5.33 29.413 110	5.00 29.206 110	4.70 29.000 110	4.44 29.855 112	4.21 29.647 112	4.00 31.330 118	3.81 30.283 114	3.64 30.073 114	3.48 30.910 116	3.33 30.699 118	3.20 30.486 116
84				6.00 30.439 114	5.60 30.234 114	5.25 31.098 116	4.94 30.891 116	4.66 30.685 116	4.41 31.539 118	4.20 31.330 118	4.00 31.122 118	3.82 31.965 120	3.65 31.755 120	3.50 31.544 120	3.36 32.380 122
96						6.00 34.633 130	5.64 34.429 130	5.33 35.295 132	5.05 35.088 132	4.80 34.882 132	4.57 35.738 134	4.36 35.531 134	4.17 35.322 134	4.00 36.170 136	3.84 35.960 136
112									5.90 40.516 152	5.60 40.312 152	5.33 41.177 154	5.03 40.971 154	4.87 40.765 154	4.67 41.622 156	4.48 41.414 156



TO DETERMINE CHAIN LENGTH IN PITCHES  
(Approximately):

$$L = 2C + \left( \frac{N + n}{2} \right) + \text{Constant}$$

Legend:

L = Chain length in pitches  
C = Center distance in pitches  
N = Number of teeth, driven  
n = Number of teeth, driver

Constant:

If ratio is  $\left\{ \begin{array}{l} \text{Up to 4:1} = 2 \\ \text{4 to 6:1} = 4 \\ \text{6 to 8:1} = 8 \end{array} \right.$

No. of Pitches	Chain Pitch — Inches											
	1/4	3/8	1/2	5/8	3/4	1	1-1/4	1-1/2	1-3/4	2	2-1/4	2-1/2
1	0.02	0.03	0.04	0.05	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20
2	0.04	0.06	0.08	0.10	0.12	0.16	0.20	0.25	0.29	0.33	0.37	0.41
3	0.06	0.09	0.12	0.15	0.18	0.25	0.31	0.37	0.43	0.50	0.56	0.62
4	0.08	0.12	0.16	0.20	0.25	0.33	0.41	0.50	0.58	0.66	0.75	0.83
5	0.10	0.15	0.20	0.26	0.31	0.41	0.52	0.62	0.72	0.83	0.93	1.04
6	0.12	0.18	0.25	0.31	0.37	0.50	0.62	0.75	0.87	1.00	1.12	1.25
7	0.14	0.21	0.29	0.36	0.43	0.58	0.72	0.87	1.02	1.16	1.31	1.45
8	0.16	0.25	0.33	0.41	0.50	0.66	0.83	1.00	1.16	1.33	1.50	1.66
9	0.18	0.28	0.37	0.46	0.56	0.75	0.93	1.12	1.31	1.50	1.68	1.87
10	0.20	0.31	0.41	0.52	0.62	0.83	1.04	1.25	1.45	1.66	1.87	2.08
11	0.22	0.34	0.45	0.57	0.68	0.91	1.14	1.37	1.60	1.83	2.06	2.29
12	0.25	0.37	0.50	0.62	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50
13	0.27	0.40	0.54	0.67	0.81	1.08	1.35	1.62	1.89	2.16	2.43	2.70
14	0.29	0.43	0.58	0.72	0.87	1.16	1.45	1.75	2.04	2.33	2.62	2.91
15	0.31	0.46	0.62	0.78	0.93	1.25	1.56	1.87	2.18	2.50	2.81	3.12
16	0.33	0.50	0.66	0.83	1.00	1.33	1.66	2.00	2.33	2.66	3.00	3.33
17	0.35	0.53	0.70	0.88	1.06	1.41	1.77	2.12	2.47	2.83	3.18	3.54
18	0.37	0.56	0.75	0.93	1.12	1.50	1.87	2.25	2.62	3.00	3.37	3.75
19	0.39	0.59	0.79	0.98	1.18	1.58	1.97	2.37	2.77	3.16	3.56	3.95
20	0.41	0.62	0.83	1.04	1.25	1.66	2.08	2.50	2.91	3.33	3.75	4.16
22	0.45	0.68	0.91	1.14	1.37	1.83	2.29	2.75	3.20	3.66	4.12	4.58
24	0.50	0.75	1.00	1.25	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00
28	0.58	0.87	1.16	1.45	1.75	2.33	2.91	3.50	4.08	4.56	5.25	5.83
30	0.62	0.93	1.25	1.56	1.87	2.50	3.12	3.75	4.37	5.00	5.62	6.25
34	0.70	1.06	1.41	1.77	2.12	2.83	3.54	4.25	4.95	5.66	6.37	7.08
38	0.79	1.18	1.58	1.97	2.37	3.16	3.95	4.75	5.54	6.33	7.12	7.91
40	0.83	1.25	1.66	2.08	2.50	3.33	4.16	5.00	5.83	6.66	7.50	8.33
44	0.91	1.37	1.83	2.29	2.75	3.66	4.58	5.50	6.41	7.33	8.25	9.16
48	1.00	1.50	2.00	2.50	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00
50	1.04	1.56	2.08	2.60	3.12	4.16	5.20	6.25	7.29	8.33	9.37	10.41
54	1.12	1.68	2.25	2.81	3.37	4.50	5.62	6.75	7.87	9.00	10.12	11.25
58	1.20	1.81	2.41	3.02	3.62	4.83	6.04	7.25	8.45	9.66	10.87	12.08
60	1.25	1.87	2.50	3.12	3.75	5.00	6.25	7.50	8.75	10.00	11.25	12.50
65	1.35	2.03	2.70	3.38	4.06	5.41	6.77	8.12	9.47	10.83	12.18	13.54
70	1.45	2.18	2.91	3.64	4.37	5.83	7.29	8.75	10.20	11.66	13.12	14.58
75	1.56	2.34	3.12	3.90	4.68	6.25	7.81	9.37	10.93	12.50	14.06	15.62
80	1.66	2.50	3.33	4.16	5.00	6.66	8.33	10.00	11.66	13.33	15.00	16.66
85	1.77	2.65	3.54	4.42	5.31	7.08	8.85	10.62	12.39	14.16	15.93	17.70
90	1.87	2.81	3.75	4.68	5.62	7.50	9.37	11.25	13.12	15.00	16.87	18.75
95	1.97	2.96	3.95	4.94	5.93	7.91	9.89	11.87	13.85	15.83	17.81	19.79
100	2.08	3.12	4.16	5.20	6.25	8.33	10.41	12.50	14.58	16.66	18.75	20.83

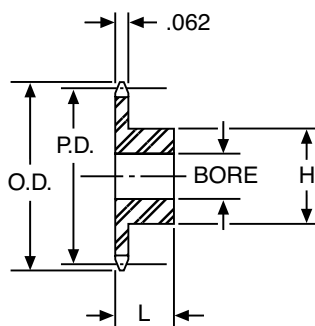
# Miniature Chain Sprockets

## Single Strand

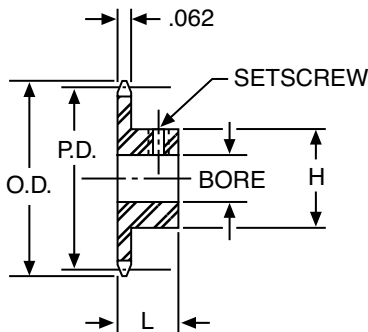
.1475 Pitch; Plastic and Stainless Steel



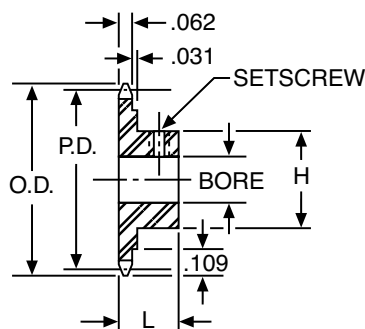
PLASTIC



STAINLESS STEEL  
7-28 TEETH



30-48 TEETH



ALL DIMENSIONS IN INCHES  
ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	O.D.	Length thru Bore	Catalog Number	Item Code
<b>TYPE B SINGLE HUB PLASTIC (NYLATRON GS)</b>							
7	.340	.093	3/16	.392	3/8	15BP7	54144
8	.385	.1250	7/32	.437		15BP8	54145
9	.431		1/4	.483		15BP9	54146
10	.477			.529		15BP10	54147
12	.570		.622	15BP12		54148	
13	.616	.1875	3/8	.668		15BP13	54149
14	.663			.715		15BP14	54150
15	.709		1/2	.761		15BP15	54151
16	.756			.808		15BP16	54152
17	.803			.855		15BP17	54153
18	.849			.901		15BP18	54154
19	.890		.948	15BP19		54155	
20	.943		.995	15BP20		54156	
21	.990	.250	5/8	1.042		15BP21	54157
22	1.036			1.088		15BP22	54158
23	1.083			1.135		15BP23	54159
24	1.130			1.182		15BP24	54160
25	1.177			1.228		15BP25	54161
26	1.224			1.276		15BP26	54162
27	1.270			1.322		15BP27	54163
28	1.317			1.369	15BP28	54164	
29	1.364			1.416	15BP29	54165	
30	1.411			1.463	15BP30	54166	
31	1.458	1.510	15BP31	54167			
32	1.505	1.557	15BP32	54168			
33	1.552	1.604	15BP33	54169			
34	1.598	1.650	15BP34	54170			
35	1.645	1.697	15BP35	54171			
36	1.692	1.744	15BP36	54172			
38	1.786	1.838	15BP38	54173			
40	1.880	1.922	15BP40	54174			
42	1.974	2.026	15BP42	54175			
44	2.068	2.120	15BP44	54176			
52	2.443	2.495	15BP52	54177			
<b>TYPE B SINGLE HUB STAINLESS STEEL (TYPE 303 - CLEAR PASSIVATED)</b>							
7	.340	.0937	15/64*	.392	11/32	15BSS7	54178
8	.385	.1250	9/32*	.437		15BSS8	54179
9	.431		21/64*	.483		15BSS9	54180
10	.477		3/8*	.529		15BSS10	54181
12	.570		25/64	.622		15BSS12	54182
15	.709	.1875	17/32	.761		15BSS15	54183
16	.756		9/16	.808		15BSS16	54184
18	.849		21/32	.901		15BSS18	54185
20	.943		.995	15BSS20		54186	
24	1.130	.2500	3/4	1.182		15BSS24	54187
28	1.317			1.369	15BSS28	54188	
30	1.411			1.463	15BSS30	54189	
34	1.598			1.650	15BSS34	54190	
36	1.692			1.744	15BSS36	54191	
40	1.880			1.932	15BSS40	54192	
48	2.255			2.307	15BSS48	54193	

**STANDARD TOLERANCES\***

DIMENSIONS		TOLERANCE
Bore	All	±.001 to -.000

\*Stainless Steel Only.

# Roller Chain Sprockets

## Single Strand No. 25 1/4" Pitch; Steel

### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Catalog Number	Item Code
<b>TYPE A NO HUB STEEL</b>				
32	2.551	3/8	25A32	68195
36	2.868		25A36	46224
40	3.186	1/2	25A40	46225
45	3.584		25A45	68198
48	3.822		25A48	46226
54	4.300		25A54	46227
60	4.777		25A60	46228
72	5.731		25A72	46229

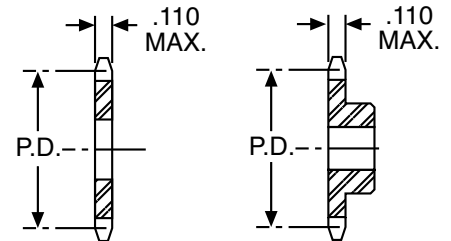


### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Setscrew*		Without Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
9	.731	1/4	29/64	1/2	25B9 - 1/4	68466	25B9	68465
10	.809	1/4	17/32	1/2	25B10 - 1/4	58230	25B10	15600
11	.887	1/4	9/16	1/2	25B11 - 1/4	68468	25B11	68467
12	.966	5/16	11/16	1/2	25B12 - 1/4	19200	25B12A	19199
					25B12 - 5/16	58231	25B12	15602
					25B12 - 3/8	58232	—	—
13	1.045	5/16	11/16	1/2	25B13 - 1/4	19202	25B13A	19201
					25B13 - 5/16	68470	25B13	15603
					25B13 - 3/8	68471	—	—
14	1.123	5/16	3/4	1/2	25B14 - 1/4	19204	25B14A	19203
					25B14 - 5/16	68473	25B14	68472
					25B14 - 3/8	68474	—	—
15	1.202	5/16	3/4	1/2	25B15 - 1/4	19206	25B15A	19205
					25B15 - 5/16	58233	25B15	15604
					25B15 - 3/8	58234	—	—
16	1.281	5/16	13/16	1/2	25B16 - 1/4	19208	25B16A	19207
					25B16 - 5/16	58235	25B16	15606
					25B16 - 3/8	58236	—	—
17	1.361	5/16	29/32	1/2	25B17 - 1/4	19210	25B17A	19209
					25B17 - 5/16	58237	25B17	15608
					25B17 - 3/8	58238	—	—
					25B17 - 1/2	58239	—	—
18	1.440	3/8	1	1/2	25B18 - 1/4	19212	25B18A	19211
					25B18 - 3/8	58240	25B18	15610
					25B18 - 1/2	58241	—	—
19	1.519	1/4	1-1/16	1/2	25B19 - 1/4	19214	25B19A	19213
					25B19 - 3/8	58242	25B19	15612
					25B19 - 1/2	58243	—	—
					25B19 - 5/8	58244	—	—
20	1.598	3/8	1-5/32	5/8	25B20 - 1/4	19216	25B20A	19215
					25B20 - 3/8	58245	25B20	15614
					25B20 - 1/2	58246	—	—
					25B20 - 5/8	58247	—	—
21	1.677	1/2	1-3/8	5/8	25B21 - 3/8	45670	25B21	68187
					25B21 - 1/2	45671	—	—
					25B21 - 5/8	45672	—	—
22	1.757	1/2	1-7/16	5/8	25B22 - 3/8	45673	25B22	68188
					25B22 - 1/2	45674	—	—
					25B22 - 5/8	45675	—	—
23	1.836	3/8	1-1/2	5/8	25B23 - 3/8	45676	25B23	68189
					25B23 - 1/2	45677	—	—
					25B23 - 5/8	45678	—	—
24	1.915	1/2	1-1/2	5/8	25B24 - 3/8	45679	25B24	68190
					25B24 - 1/2	45680	—	—
					25B24 - 5/8	45681	—	—

TYPE A

TYPE B



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. +.234"**

### STANDARD TOLERANCES

DIMENSION		TOLERANCE	
Type A	Bore	All	+ .002 - .001
Type B	Bore	All	±.001

### Reference Pages

Alterations - 324  
 Horsepower Ratings - 268-270  
 Lubrication - 267  
 Materials - 324  
 Selection Procedure - 266  
 ANSI Diameters - 325

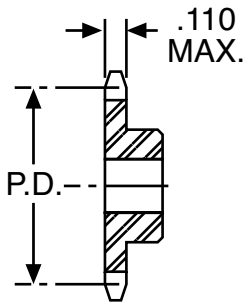
\*All sprockets have 10-32 setscrews.

# Roller Chain Sprockets

## Single Strand

### No. 25 1/4" Pitch; Steel and Stainless Steel

ORDER BY CATALOG NUMBER OR ITEM CODE



MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. +.234"

#### STANDARD TOLERANCES

DIMENSIONS		TOLERANCE
Bore	All	±.001

#### Reference Pages

Alterations – 324  
 Horsepower Ratings – 268-270  
 Lubrication – 267  
 Materials – 324  
 Selection Procedure – 266  
 ANSI Diameters – 325

\*Sprockets 28 and 30 teeth have 10-32 set-screws. 32-72 teeth 1/4-20 setscrews.

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Setscrew*		Without Setscrew				
					Catalog Number	Item Code	Catalog Number	Item Code			
<b>TYPE B SINGLE HUB STEEL</b>											
25	1.995	3/8	1-1/2	5/8	25B25 – 3/8	45682	25B25	68191			
		1/2			25B25 – 1/2	45683					
		5/8			25B25 – 5/8	45684					
26	2.074	3/8	1-1/2	5/8	25B26 – 3/8	45685	25B26	68192			
		1/2			25B26 – 1/2	45686					
		5/8			25B26 – 5/8	45687					
28	2.233	3/8	1-1/2	5/8	25B28 – 3/8	45692	25B28	68193			
		1/2			25B28 – 1/2	45693					
		5/8			25B28 – 5/8	45694					
30	2.392	3/8	1-9/32	1/2	25B30 – 3/8	58248	25B30	15616			
		1/2			25B30 – 1/2	58249					
		5/8			25B30 – 5/8	58250					
		3/4			25B30 – 3/4	58251					
32	2.551	1/2	1-1/2	5/8	25B32 – 1/2	67922	25B32	68204			
		5/8			25B32 – 5/8	45695					
		3/4			25B32 – 3/4	45696					
36	2.868	1/2	1-1/2	3/4	25B36 – 1/2	58252	25B36	15618			
		5/8			25B36 – 5/8	45709					
		3/4			25B36 – 3/4	45710					
40	3.186	1/2	2	3/4	25B40 – 1/2	58253	25B40	15620			
		5/8			25B40 – 5/8	45723					
		3/4			25B40 – 3/4	45724					
45	3.584	1/2	2	3/4	25B45 – 1/2	67925	25B45	68207			
		5/8			25B45 – 5/8	45725					
		3/4			25B45 – 3/4	45726					
48	3.822	1/2	2	3/4	25B48 – 1/2	58254	25B48	15622			
		5/8			25B48 – 5/8	45727					
		3/4			25B48 – 3/4	45728					
54	4.300	1/2	2	3/4	25B54 – 1/2	58255	25B54	15624			
		5/8			25B54 – 5/8	45729					
		3/4			25B54 – 3/4	45730					
60	4.777	1/2	2	3/4	25B60 – 1/2	58256	25B60	15626			
		5/8			25B60 – 5/8	45731					
		3/4			25B60 – 3/4	45732					
72	5.731	1/2	2	3/4	25B72 – 3/4	58257	25B72	15628			
		5/8			25B72 – 5/8	45739					
		3/4			25B72 – 3/4	45740					
<b>TYPE B SINGLE HUB STAINLESS STEEL</b>											
9	.731	1/4	7/16	1/2			25B9SS	69448			
10	.809	1/4	1/2				25B10SS	69449			
11	.887	1/4	9/16				25B11SS	69450			
12	.966	1/4	5/8				25B12SS	69451			
13	1.045	1/4	23/32				25B13SS	69452			
14	1.123	1/4	13/16				25B14SS	69453			
15	1.202	1/4	57/64				25B15SS	69456			
16	1.281	1/4	31/32				25B16SS	69467			
17	1.361	1/4	1-1/32				25B17SS	69468			
18	1.440	1/4	1-1/8				25B18SS	69469			
19	1.519	1/4	1-7/32				25B19SS	69470			
20	1.598	1/4	1-9/32				25B20SS	69471			
25	1.995	3/8	1-1/2				5/8			25B25SS	69472
30	2.392	3/8	1-1/2							25B30SS	69473
36	2.868	3/8	1-1/2							25B36SS	69474
40	3.186	1/2	2				3/4			25B40SS	69475
45	3.584	1/2	2							25B45SS	69476
60	4.777	1/2	2	25B60SS	69477						

# Roller Chain Sprockets

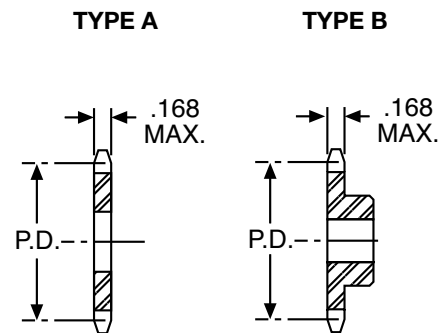
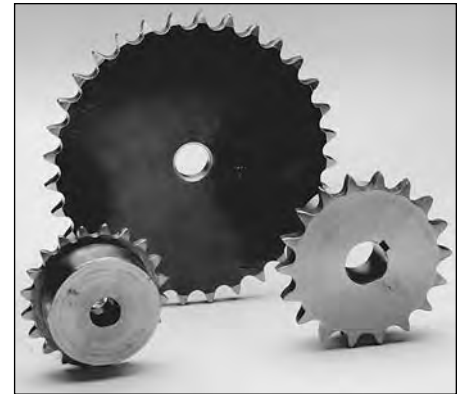
## Single Strand No. 35 3/8" Pitch; Steel

### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Catalog Number	Item Code
<b>TYPE A NO HUB STEEL</b>				
26	3.111	1/2	35A26	67761
28	3.349		35A28	67763
30	3.588		35A30	67764
32	3.826	5/8	35A32	46230
36	4.303		35A36	46232
40	4.780	19/32	35A40	46233
45	5.376		35A45	46235
48	5.734		35A48	46236
72	8.597		35A72	67775

### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway and Setscrew*		Without Keyway and Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
8	.980	3/8	3/4†	3/4	35B8 - 3/8*	49474	35B8	15630†
9	1.096	3/8	27/32†	3/4	35B9 - 3/8	45750	35B9	14882
10	1.214	3/8	31/32†	3/4	35B10 - 3/8	45751	35B10	14884
		1/2			35B10 - 1/2*	14886		
		5/8			35B10 - 5/8*	45752		
11	1.331	3/8	1-1/6†	3/4	35B11 - 3/8	45753	35B11	14888
		1/2			35B11 - 1/2	14890		
		5/8			35B11 - 5/8*	45754		
		3/4			35B11 - 3/4*	45755		
12	1.449	1/2	1-7/32†	3/4	35B12 - 1/2	14892	35B12	15632
		5/8			35B12 - 5/8*	14894		
		3/4			35B12 - 3/4*	14896		
13	1.567	1/2	1-1/4†	3/4	35B13 - 1/2	14898	35B13	15634
		5/8			35B13 - 5/8*	14900		
		3/4			35B13 - 3/4*	14902		
14	1.685	1/2	1-1/4	3/4	35B14 - 1/2	14904	35B14	15636
		5/8			35B14 - 5/8*	14906		
		3/4			35B14 - 3/4*	14908		
15	1.804	1/2	1-11/32	3/4	35B15 - 1/2	14910	35B15	15638
		5/8			35B15 - 5/8	14912		
		3/4			35B15 - 3/4*	14914		
16	1.922	1/2	1-15/32	3/4	35B16 - 1/2	14916	35B16	15640
		5/8			35B16 - 5/8	14918		
		3/4			35B16 - 3/4	14920		
17	2.041	1/2	1-19/32	3/4	35B17 - 1/2	14922	35B17	15642
		5/8			35B17 - 5/8	14924		
		3/4			35B17 - 3/4	14926		
		7/8			35B17 - 7/8	45756		
		1			35B17 - 1*	14928		
18	2.160	1/2	1-23/32	3/4	35B18 - 1/2	14930	35B18	15644
		5/8			35B18 - 5/8	14932		
		3/4			35B18 - 3/4	14934		
		7/8			35B18 - 7/8	46674		
		1			35B18 - 1	14936		
19	2.278	1/2	1-27/32	3/4	35B19 - 1/2	45757	35B19	15646
		5/8			35B19 - 5/8	14938		
		3/4			35B19 - 3/4	14940		
		1			35B19 - 1	14942		
20	2.397	1/2	1-15/16	3/4	35B20 - 1/2	45758	35B20	15648
		5/8			35B20 - 5/8	14944		
		3/4			35B20 - 3/4	14946		
		1			35B20 - 1	14948		
21	2.516	1/2	2	7/8	35B21 - 1/2	45759	35B21	15650
		5/8			35B21 - 5/8	14950		
		3/4			35B21 - 3/4	14952		
		1			35B21 - 1	14954		



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. +.359"**

### STANDARD TOLERANCES

DIMENSION		TOLERANCE	
Type A	Bore	All	+ .002 - .001
Type B	Bore	All	±.001

### Reference Pages

Alterations – 324  
Horsepower Ratings – 268-270  
Lubrication – 267  
Materials – 324  
Selection Procedure – 266  
ANSI Diameters – 325

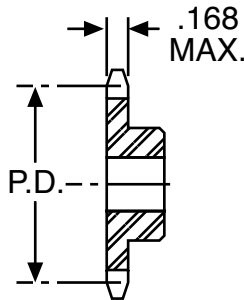
\*All sprockets have standard keyway. All sprockets have 1/4-20 setscrews located over keyway, except at 90° where marked.

□Has recessed groove in hub for chain clearance.

# Roller Chain Sprockets

## Single Strand

### No. 35 3/8" Pitch; Steel



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. +.359"**

#### STANDARD TOLERANCES

DIMENSIONS		TOLERANCE
Bore	All	±.001

#### Reference Pages

Alterations – 324  
 Horsepower Ratings – 268-270  
 Lubrication – 267  
 Materials – 324  
 Selection Procedure – 266  
 ANSI Diameters – 325

\*All sprockets have standard keyway. All sprockets have 1/4-20 setscrew located over keyway, except at 90° where marked.

#### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway and Setscrew*		Without Keyway and Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
22	2.635	1/2	2	7/8	35B22 – 1/2	45760	35B22	15652
		5/8			35B22 – 5/8	14956		
		3/4			35B22 – 3/4	14958		
		1			35B22 – 1	14960		
23	2.754	1/2	2	7/8	35B23 – 1/2	45761	35B23	15654
		5/8			35B23 – 5/8	14962		
		3/4			35B23 – 3/4	14964		
		1			35B23 – 1	14966		
24	2.873	1/2	2	7/8	35B24 – 1/2	45762	35B24	15656
		5/8			35B24 – 5/8	14968		
		3/4			35B24 – 3/4	14970		
		1			35B24 – 1	14972		
25	2.992	1/2	2	7/8	35B25 – 1/2	45763	35B25	15658
		5/8			35B25 – 5/8	14974		
		3/4			35B25 – 3/4	14976		
		1			35B25 – 1	14978		
26	3.111	1/2	2	7/8	35B26 – 1/2	45764	35B26	67808
		5/8			35B26 – 5/8	68257		
		3/4			35B26 – 3/4	68258		
		1			35B26 – 1	68259		
28	3.349	1/2	2	7/8	35B28 – 1/2	45766	35B28	67810
		5/8			35B28 – 5/8	68263		
		3/4			35B28 – 3/4	68264		
		1			35B28 – 1*	68265		
30	3.588	1/2	2	7/8	35B30 – 1/2	45767	35B30	15660
		5/8			35B30 – 5/8	68266		
		3/4			35B30 – 3/4	68267		
		1			35B30 – 1*	68268		
32	3.826	1/2	2	7/8	35B32 – 1/2	45768	35B32	15662
		5/8			35B32 – 5/8	68269		
		3/4			35B32 – 3/4	68270		
		1			35B32 – 1*	68271		
36	4.303	5/8	2-1/4	7/8	35B36 – 5/8	68275	35B36	15664
		3/4			35B36 – 3/4	68276		
		1			35B36 – 1*	68277		
		5/8			35B40 – 5/8	68278		
40	4.780	3/4	2-1/4	1	35B40 – 3/4	68279	35B40	15666
		1			35B40 – 1	68280		
		5/8			35B45 – 5/8	45772		
45	5.376	3/4	2-1/4	1	35B45 – 3/4	45773	35B45A	46241
		1			35B45 – 1	45774		
		5/8			2-1/4	1		
54	6.449	5/8	2-1/4	1	–	–	35B54	15670
60	7.165	3/4	2-1/4	1	35B60 – 3/4	45782	35B60	15672
		1			35B60 – 1	45783		
72	8.597	3/4	2-1/4	1	–	–	35B72	15674
84	10.029	3/4	2-1/4	1	–	–	35B84	15676
96	11.461	3/4	2-1/4	1	–	–	35B96	15678
112	13.371	3/4	2-1/4	1	–	–	35B112	15680

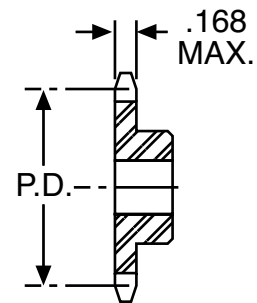
# Roller Chain Sprockets

## Single Strand

### No. 35 3/8" Pitch; Stainless Steel

#### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	Without Keyway or Setscrew	
					Catalog Number	Item Code
<b>TYPE A NO HUB STEEL</b>						
9	1.096	3/8	27/32†	3/4	35B9SS	69478
10	1.214		31/32†		35B10SS	69479
11	1.331		1-1/16†		35B11SS	69480
12	1.449	1/2	1-7/32†	3/4	35B12SS	69481
13	1.567		1-1/4†		35B13SS	69482
14	1.685		1-1/4		35B14SS	69483
15	1.804		1-11/32		35B15SS	69484
16	1.922		1-15//32		35B16SS	69485
17	2.041		1-19/32		35B17SS	69486
18	2.160		1-23/32		35B18SS	69487
19	2.278		1-27/32		35B19SS	69488
20	2.397		1-15/16		35B20SS	69489
25	2.992	1/2	2	7/8	35B25SS	69490
30	3.588				35B30SS	69511
35	4.183	5/8	2-1/4	1	35B35SS	69512
40	4.780				35B40SS	69513
45	5.376				35B45SS	69624
60	7.165	3/4	2-1/4	1	35B60SS	69682



†Has recessed groove in hub for chain reference.

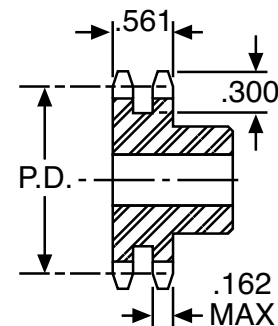
H

## Double Strand

### No. 35 3/8" Pitch; Stainless Steel

#### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	Without Keyway or Setscrew	
					Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>						
16	1.922	1/2	1-15/32	1-1/4	D35B16	15930
17	2.041		1-19/32		D35B17	15932
18	2.160		1-23/32		D35B18	15934
19	2.278		1-7/8		D35B19	15936
20	2.397	3/4	1-15/16	1-3/8	D35B20	15938
21	2.516		2-1/16		D35B21	15940
22	2.635		2-3/16		D35B22	15942
23	2.754		2-1/4		D35B23	15944
24	2.873		2-1/4		D35B24	15946
25	2.992		2-1/4		D35B25	15948
30	3.588		3/4		2-1/2	1-3/8



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. +.359"**

#### STANDARD TOLERANCES

Stainless Steel		
Bore	All	+ .002 — .000
Double Strand		
Bore	All	±.001

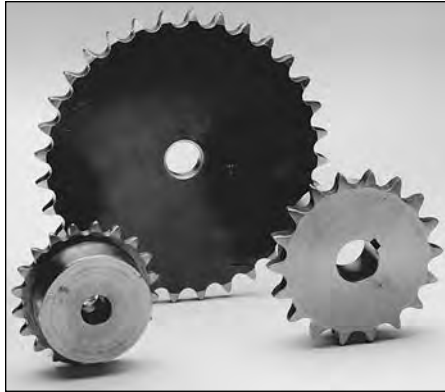
#### Reference Pages

Alterations – 324  
 Horsepower Ratings – 268-270  
 Lubrication – 267  
 Materials – 324  
 Selection Procedure – 266  
 ANSI Diameters – 325

# Roller Chain Sprockets

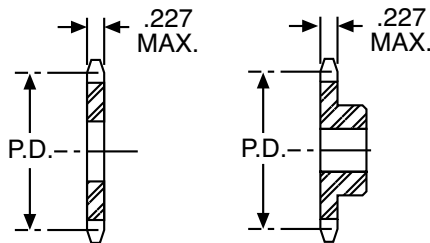
## Single Strand

### No. 41 1/2" Pitch; Steel



TYPE A

TYPE B



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. +.391"**

#### STANDARD TOLERANCES

DIMENSIONS		TOLERANCE	
Type A	Bore	All	+ .002 - .001
Type B	Bore	All	±.001

#### Reference Pages

Alterations – 324  
 Horsepower Ratings – 268-270  
 Lubrication – 267  
 Materials – 324  
 Selection Procedure – 266  
 ANSI Diameters – 325

\*All sprockets have standard keyway. All sprockets have 1/4-20 setscrews located over keyway except at 90° where marked.

□Has recessed groove in hub for chain clearance.

#### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Catalog Number	Item Code	
<b>TYPE A – NO HUB STEEL</b>					
21	3.355	5/8	41A21	56742	
22	3.513		41A22	56743	
23	3.672		41A23	56744	
24	3.831		41A24	56745	
25	3.989		41A25	56746	
26	4.148		41A26	67876	
27	4.307		41A27	67877	
28	4.466		41A28	67878	
30	4.783		41A30	16094	
32	5.101		19/32	41A32	16096
36	5.737	41A36		16098	
40	6.373	23/32	41A40	16100	
45	7.168		41A45	16102	
48	7.645		41A48	16104	
54	8.599		41A54	16106	
60	9.554		41A60	16108	
72	11.463		41A72	16112	
96	15.282		15/16	41A96	16116

#### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway and Setscrew*		Without Keyway and Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
6	1.000	3/8	21/32†	7/8	—	—	41B6	15758
7	1.15	3/8	3/4†	7/8	—	—	41B7	15760
8	1.307	1/2	63/64†	7/8	—	—	41B8	15762
9	1.462	1/2	1-1/8†	7/8	41B9-1/2	15506	41B9	15764
		5/8			41B9-5/8*	15508		
10	1.618	1/2	1-1/4†	7/8	41B10-1/2	15510	41B10	15766
		5/8			41B10-5/8*	15512		
		3/4			41B10-3/4*	15514		
11	1.775	1/2	1-7/16†	7/8	41B11-1/2	15516	41B11	15768
		5/8			41B11-5/8	15518		
		3/4			41B11-3/4*	15520		
12	1.932	1/2	1-9/16†	7/8	41B12-1/2	15522	41B12	15770
		5/8			41B12-5/8	15524		
		3/4			41B12-3/4	15526		
		7/8			41B12-7/8	35950		
13	2.089	1/2	1-9/16†	7/8	41B13-1/2	15528	41B13	15772
		5/8			41B13-5/8	15530		
		3/4			41B13-3/4	15532		
		7/8			41B13-7/8	35952		
		1			41B13-1*	15534		
14	2.247	1/2	1-3/4	7/8	41B14-1/2	15536	41B14	15774
		5/8			41B14-5/8	15538		
		3/4			41B14-3/4	15540		
		7/8			41B14-7/8	35954		
		1			41B14-1*	15542		
15	2.405	1/2	1-29/32	7/8	41B15-1/2	15544	41B15	15776
		5/8			41B15-5/8	15546		
		3/4			41B15-3/4	15548		
		1			41B15-1	15550		

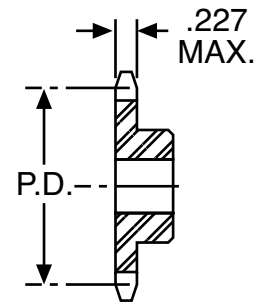


# Roller Chain Sprockets

## Single Strand No. 41 1/2" Pitch; Steel

ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway and Setscrew*		Without Keyway and Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
16	2.563	5/8	2-1/16	7/8	41B16-5/8	15552	41B16	15778
		3/4			41B16-3/4	15554		
		1			41B16-1	15556		
17	2.721	5/8	2-15/64	1	41B17-5/8	15558	41B17	15780
		3/4			41B17-3/4	15560		
		1			41B17-1	15562		
18	2.879	5/8	2-3/8	1	41B18-5/8	15564	41B18	15782
		3/4			41B18-3/4	15566		
		1			41B18-1	15568		
19	3.038	5/8	2-15/32	1	41B19-5/8	35956	41B19	15784
		3/4			41B19-3/4	15570		
		1			41B19-1	15572		
20	3.196	5/8	2-3/4	1	41B20-5/8	35958	41B20	15786
		3/4			41B20-3/4	15574		
		1			41B20-1	15576		
21	3.355	5/8	2-7/8	1	41B21-5/8	35960	41B21	15788
		3/4			41B21-3/4	15578		
		1			41B21-1	15580		
22	3.513	5/8	3	1	41B22-5/8	35962	41B22	15790
		3/4			41B22-3/4	15582		
		1			41B22-1	15584		
23	3.672	5/8	3-3/16	1	41B23-5/8	35964	41B23	15792
		3/4			41B23-3/4	15586		
		1			41B23-1	15588		
24	3.831	5/8	3-1/4	1	41B24-5/8	35966	41B24	15794
		3/4			41B24-3/4	15590		
		1			41B24-1	15592		
25	3.989	5/8	3-1/4	1	41B25-5/8	35968	41B25	15796
		3/4			41B25-3/4	15594		
		1			41B25-1	15596		
26	4.148	5/8	3-1/4	1	41B26-5/8	68281	41B26	67920
		3/4			41B26-3/4	68282		
		1			41B26-1	68283		
27	4.307	5/8	3-1/4	1	41B27-5/8	68284	41B27	67930
		3/4			41B27-3/4	68285		
		1			41B27-1	68286		
28	4.466	5/8	3-1/4	1	41B28-5/8	68287	41B28	67931
		3/4			41B28-3/4	68288		
		1			41B28-1	68289		
30	4.783	5/8	3-1/4	1	41B30-5/8	68290	41B30	16464
		3/4			41B30-3/4	68291		
		1			41B30-1	68292		
32	5.101	5/8	3-1/4	1	—	—	41B32	16466
36	5.737	5/8	3-1/4	1	—	—	41B36	16468
40	6.373	3/4	3-1/4	1-1/16	—	—	41B40	16470
45	7.168	3/4	3-1/2	1-1/16	—	—	41B45	16472
48	7.645	3/4	3-1/2	1-1/16	—	—	41B48	16474
54	8.599	3/4	3-1/2	1-1/16	—	—	41B54	16476
60	9.554	3/4	3-1/2	1-1/16	—	—	41B60	16478
72	11.463	3/4	4	1-3/16	—	—	41B72	16482
96	15.282	1	4	1-3/16	—	—	41B96	16486



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. +.391"**

### STANDARD TOLERANCES

DIMENSION	TOLERANCE
Bore	All ±.001

### Reference Pages

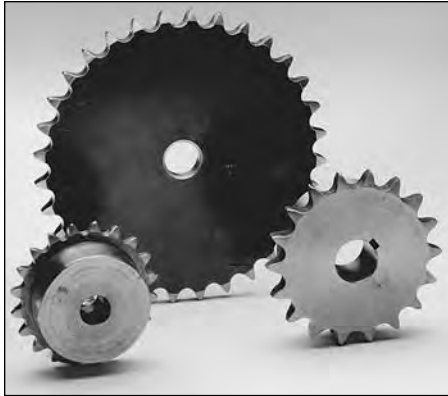
Alterations – 324  
Horsepower Ratings – 268-270  
Lubrication – 267  
Materials – 324  
Selection Procedure – 266  
ANSI Diameters – 325

\*All sprockets have standard keyways. All sprockets have 1/4-20 setscrews located over keyway.

# Roller Chain Sprockets

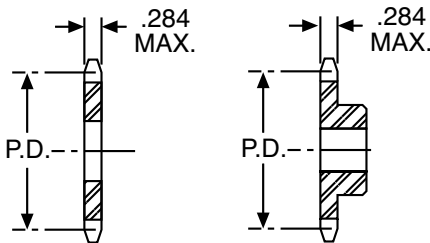
## Single Strand

### No. 40 1/2" Pitch; Steel



TYPE A

TYPE B



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. +.469"**

#### STANDARD TOLERANCES

DIMENSIONS		TOLERANCE	
Type A	Bore	All	+ .002 - .001
Type B	Bore	All	± .001

#### Reference Pages

Alterations – 324  
 Horsepower Ratings – 268-270  
 Lubrication – 267  
 Materials – 324  
 Selection Procedure – 266  
 ANSI Diameters – 325

\*All sprockets have standard keyways. All sprockets have 1/4-20 setscrews, located over keyway, except at 90° where marked.

□ Has recessed groove in the hub for chain clearance.

#### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Catalog Number	Item Code
<b>TYPE A—NO HUB STEEL</b>				
19	3.038	5/8	40A19	68007
20	3.196		40A20	68008
21	3.355		40A21	56747
22	3.513		40A22	56748
23	3.672		40A23	56749
24	3.831		40A24	56750
25	3.989		40A25	56751
26	4.148		40A26	68014
27	4.307	40A27	68015	
28	4.466	40A28	68016	
30	4.783	19/32	40A30	16258
32	5.101		40A32	16260
35	5.578		40A35	68023
36	5.737		40A36	16262
38	6.055	40A38	68026	
40	6.373	23/32	40A40	16264
42	6.691		40A42	16266
45	7.168		40A45	16268
48	7.645		40A48	16270
54	8.599		40A54	16272
60	9.554		40A60	16274
72	11.463		40A72	16278
84	13.372		40A84	16282
96	15.282	15/16	40A96	16284
112	17.828		40A112	16286

#### ORDER BY CATALOG NUMBER OR ITEM CODE

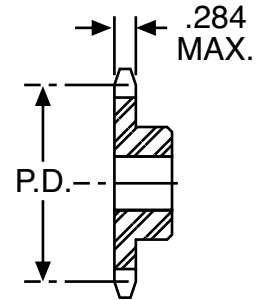
No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway and Setscrew*		Without Keyway and Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
8	1.307	1/2	31/32†	7/8	—	—	40B8	15682
9	1.462	1/2	1-1/16†	7/8	40B9-1/2*	14980	40B9	15684
		5/8			40B9-5/8*	14982		
10	1.618	1/2	1-1/4†	7/8	40B10-1/2	14984	40B10	15686
		5/8			40B10-5/8*	14986		
		3/4			40B10-3/4*	14988		
11	1.775	1/2	1-3/8†	7/8	40B11-1/2	36054	40B11	15688
		5/8			40B11-5/8	14990		
		3/4			40B11-3/4	14992		
		7/8			40B11-7/8*	14994		
12	1.932	1/2	1-9/16†	7/8	40B12-1/2	36056	40B12	15690
		5/8			40B12-5/8	14996		
		3/4			40B12-3/4	14998		
		7/8			40B12-7/8	15000		
		1			40B12-1*	15002		
13	2.089	1/2	1-9/16	7/8	40B13-1/2	36058	40B13	15692
		5/8			40B13-5/8	15004		
		3/4			40B13-3/4	15006		
		7/8			40B13-7/8	15008		
		1			40B13-1*	15010		
14	2.247	1/2	1-11/16	7/8	40B14-1/2	36060	40B14	15694
		5/8			40B14-5/8	15012		
		3/4			40B14-3/4	15014		
		7/8			40B14-7/8	15016		
		1			40B14-1	15018		
		1-1/8			40B14-1-1/8*	56732		
15	2.405	1/2	1-13/16	7/8	40B15-1/2	36062	40B15	15696
		5/8			40B15-5/8	15020		
		3/4			40B15-3/4	15022		
		7/8			40B15-7/8	15024		
		1			40B15-1	15026		
		1-1/8			40B15-1-1/8	15028		
		1-3/16			40B15-1-3/16*	15030		
		1-1/4			40B15-1-1/4*	15032		

# Roller Chain Sprockets

## Single Strand No. 40 1/2" Pitch; Steel

### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway and Setscrew*		Without Keyway and Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
16	2.563	5/8	2	7/8	40B16-5/8	15034	40B16	15698
		3/4			40B16-3/4	15036		
		7/8			40B16-7/8	15038		
		1			40B16-1	15040		
		1-1/8			40B16-1-1/8	36064		
		1-3/16			40B16-1-3/16	15042		
		1-1/4			40B16-1-1/4	15044		
17	2.721	5/8	2-1/8	1	40B17-5/8	15046	40B17	15700
		3/4			40B17-3/4	15048		
		7/8			40B17-7/8	36066		
		1			40B17-1	15050		
		1-1/8			40B17-1-1/8	15052		
		1-3/16			40B17-1-3/16	15054		
		1-1/4			40B17-1-1/4	56733		
18	2.879	5/8	2-5/16	1	40B18-5/8	36068	40B18	15702
		3/4			40B18-3/4	15056		
		7/8			40B18-7/8	15058		
		1			40B18-1	15060		
		1-1/8			40B18-1-1/8	15062		
		1-3/16			40B18-1-3/16	15064		
		1-1/4			40B18-1-1/4	15066		
		1-3/8			40B18-1-3/8	36070		
		1-7/16			40B18-1-7/16	15068		
		1-1/2			40B18-1-1/2	15070		
19	3.038	5/8	2-1/2	1	40B19-5/8	36072	40B19	15704
		3/4			40B19-3/4	15072		
		7/8			40B19-7/8	36074		
		1			40B19-1	15074		
		1-1/8			40B19-1-1/8	36076		
		1-3/16			40B19-1-3/16	15076		
		1-1/4			40B19-1-1/4	36078		
		1-3/8			40B19-1-3/8	36080		
		1-7/16			40B19-1-7/16*			
		1-1/2			40B19-1-1/2*	56734		
20	3.196	5/8	2-5/8	1	40B20-5/8	36082	40B20	15706
		3/4			40B20-3/4	15080		
		7/8			40B20-7/8	15082		
		1			40B20-1	15084		
		1-1/8			40B20-1-1/8	15086		
		1-3/16			40B20-1-3/16	15088		
		1-1/4			40B20-1-1/4	15090		
		1-3/8			40B20-1-3/8	36084		
		1-7/16			40B20-1-7/16	15092		
		1-1/2			40B20-1-1/2	15094		
21	3.355	5/8	2-3/4	1	40B21-5/8	36086	40B21	15708
		3/4			40B21-3/4	17148		
		7/8			40B21-7/8	15096		
		1			40B21-1	15098		
		1-1/8			40B21-1-1/8	36088		
		1-3/16			40B21-1-3/16	15100		
		1-1/4			40B21-1-1/4	36090		
		1-3/8			40B21-1-3/8	36092		
		1-7/16			40B21-1-7/16*			
		1-1/2			40B21-1-1/2*	15104		



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. + .469"**

### STANDARD TOLERANCES

DIMENSION	TOLERANCE
Bore	All ±.001

### Reference Pages

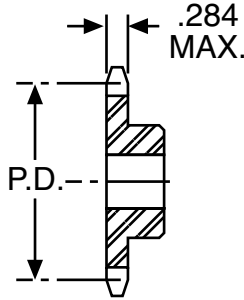
Alterations – 324  
 Horsepower Ratings – 268-270  
 Lubrication – 267  
 Materials – 324  
 Selection Procedure – 266  
 ANSI Diameters – 325

\*All sprockets have standard keyways. Sprockets 16-17 teeth have 1/4-20 setscrews, 18-21 teeth 5/16-18 setscrews, located over keyway, except at 90° where marked.

# Roller Chain Sprockets

## Single Strand

No. 40 1/2" Pitch; Steel



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. +.469"**

### STANDARD TOLERANCES

DIMENSIONS		TOLERANCE
Bore	All	±.001

### Reference Pages

- Alterations – 324
- Horsepower Ratings – 268-270
- Lubrication – 267
- Materials – 324
- Selection Procedure – 266
- ANSI Diameters – 325

\*All sprockets have standard keyways. All sprockets have 5/16-18 setscrews located over keyway, except at 90° where marked.

### ORDER BY CATALOG NUMBER OR ITEM CODE

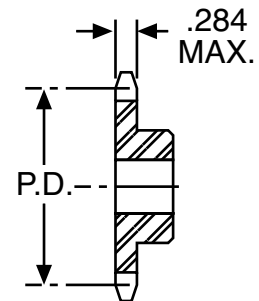
No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway and Setscrew*		Without Keyway and Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
22	3.513	5/8	2-7/8	1	40B22-5/8	36094	40B22	15710
		3/4			40B22-3/4	15106		
		7/8			40B22-7/8	36096		
		1			40B22-1	15108		
		1-1/8			40B22-1-1/8	15110		
		1-3/16			40B22-1-3/16	15112		
		1-1/4			40B22-1-1/4	15114		
		1-3/8			40B22-1-3/8	36098		
		1-7/16			40B22-1-7/16	15116		
		1-1/2			40B22-1-1/2	56735		
23	3.672	5/8	3	1	40B23-5/8	36102	40B23	15712
		3/4			40B23-3/4	15118		
		7/8			40B23-7/8	36104		
		1			40B23-1	15120		
		1-1/8			40B23-1-1/8	36106		
		1-3/16			40B23-1-3/16	15122		
		1-1/4			40B23-1-1/4	15124		
		1-3/8			40B23-1-3/8	36108		
		1-7/16			40B23-1-7/16	15126		
		1-1/2			40B23-1-1/2	56736		
24	3.831	5/8	3-1/4	1	40B24-5/8	36110	40B24	15714
		3/4			40B24-3/4	15128		
		7/8			40B24-7/8	36112		
		1			40B24-1	15130		
		1-1/8			40B24-1-1/8	15132		
		1-3/16			40B24-1-3/16	15134		
		1-1/4			40B24-1-1/4	15136		
		1-3/8			40B24-1-3/8	36114		
		1-7/16			40B24-1-7/16	15138		
		1-1/2			40B24-1-1/2	15140		
25	3.989	5/8	3-1/4	1	40B25-5/8	36116	40B25	15716
		3/4			40B25-3/4	15142		
		7/8			40B25-7/8	36118		
		1			40B25-1	15144		
		1-1/8			40B25-1-1/8	36120		
		1-3/16			40B25-1-3/16	36122		
		1-1/4			40B25-1-1/4	15146		
		1-7/16			40B25-1-7/16	36124		
		1-1/2			40B25-1-1/2	15148		
		26			4.148	5/8		
3/4	40B26-3/4		68293					
7/8	40B26-7/8		68294					
1	40B26-1		68295					
1-1/8	40B26-1-1/8		68296					
1-3/16	40B26-1-3/16		68297					
1-1/4	40B26-1-1/4		68298					
1-7/16	40B26-1-7/16		68299					
1-1/2	40B26-1-1/2		68300					
27	4.307		5/8	3-1/4		1	40B27-5/8	36128
		3/4	40B27-3/4		68301			
		7/8	40B27-7/8		68302			
		1	40B27-1		68303			
		1-1/8	40B27-1-1/8		68304			
		1-3/16	40B27-1-3/16		68305			
		1-1/4	40B27-1-1/4		68306			
		1-7/16	40B27-1-7/16		68307			
		1-1/2	40B27-1-1/2		68308			

# Roller Chain Sprockets

## Single Strand No. 40 1/2" Pitch; Steel

### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway and Setscrew*		Without Keyway and Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
28	4.466	5/8	3-1/4	1	40B28-5/8	36130	40B28	68091
		3/4			40B28-3/4	68309		
		7/8			40B28-7/8	68310		
		1			40B28-1	68311		
		1-1/8			40B28-1-1/8	68312		
		1-3/16			40B28-1-3/16	68313		
		1-1/4			40B28-1-1/4	68314		
		1-7/16			40B28-1-7/16	68315		
		1-1/2			40B28-1-1/2	68316		
30	4.783	5/8	3-1/4	1	40B30-5/8	36134	40B30	16434
		3/4			40B30-3/4	68325		
		7/8			40B30-7/8	68326		
		1			40B30-1	68327		
		1-1/8			40B30-1-1/8	68328		
		1-3/16			40B30-1-3/16	68329		
		1-1/4			40B30-1-1/4	68330		
		1-7/16			40B30-1-7/16	68331		
		1-1/2			40B30-1-1/2	68332		
32	5.101	5/8	3-1/4	1	—	—	40B32	16436
35	5.578	5/8	3-1/4	1	40B35-5/8	36186	40B35	68096
		3/4			40B35-3/4	36188		
		1			40B35-1	36190		
		1-1/4			40B35-1-1/4	36192		
		1-7/16			40B35-1-7/16	36194		
		1-1/2			40B35-1-1/2	36196		
36	5.738	3/4	3-1/4	1	40B36-3/4	49478	40B36	16438
		1			40B36-1	36200		
		1-1/4			40B36-1-1/4	45979		
		1-7/16			40B36-1-7/16	45980		
		1-1/2			40B36-1-1/2	45981		
38	6.055	5/8	3-1/4	1	—	—	40B38	68098
40	6.373	3/4	3-1/2	1-1/8	—	—	40B40	16440
42	6.691	3/4	3-1/2	1-1/8	40B42-3/4	49479	40B42	16442
		1			40B42-1	36264		
		1-1/4			40B42-1-1/4	36266		
		1-7/16			40B42-1-7/16	36268		
		1-1/2			40B42-1-1/2	36270		
45	7.168	3/4	3-1/2	1-1/8	40B45-3/4	49480	40B45	16444
		1			40B45-1	36298		
		1-1/4			40B45-1-1/4	36300		
		1-7/16			40B45-1-7/16	36302		
		1-1/2			40B45-1-1/2	36304		
48	7.645	3/4	3-1/2	1-1/8	40B48-3/4	49481	40B48	16446
		1			40B48-1	36330		
		1-1/4			40B48-1-1/4	36332		
		1-7/16			40B48-1-7/16	36334		
		1-1/2			40B48-1-1/2	36336		
54	8.599	3/4	3-1/2	1-1/8	—	—	40B54	16448
60	9.554	1	3-1/2	1-1/8	40B60-1	36470	40B60	16450
		1-1/4			40B60-1-1/4	36472		
		1-7/16			40B60-1-7/16	36474		
		1-1/2			40B60-1-1/2	36476		
72	11.463	3/4	4	1-1/4	—	—	40B72	16454
84	13.372	3/4	4	1-1/4	—	—	40B84	16458
96	15.282	1	4	1-1/4	—	—	40B96	16460
112	17.828	1	4	1-1/4	—	—	40B112	16462



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. +.469"**

### STANDARD TOLERANCES

DIMENSION	TOLERANCE
Bore	All ±.001

### Reference Pages

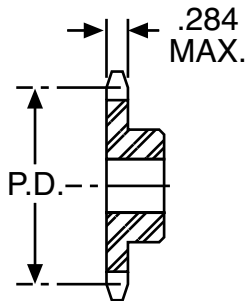
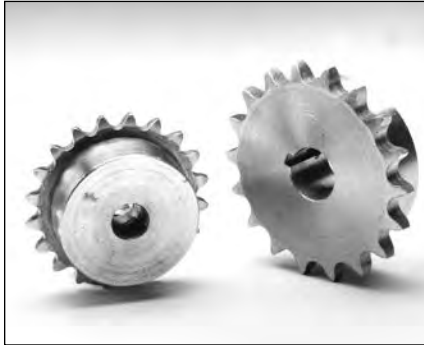
Alterations – 324  
Horsepower Ratings – 268-270  
Lubrication – 267  
Materials – 324  
Selection Procedure – 266  
ANSI Diameters – 325

\*All sprockets have standard keyways.  
All sprockets have 5/16-18 setscrews located over keyway.

# Roller Chain Sprockets

## Single Strand

### No. 40 1/2" Pitch; Stainless Steel



#### ORDER BY CATALOG NUMBER OR ITEM CODE

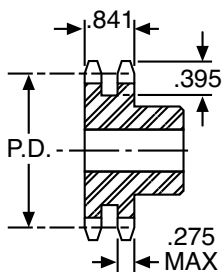
No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru	Without Keyway or Setscrew	
					Catalog Number	Item Code
<b>TYPE B SINGLE HUB STAINLESS STEEL</b>						
10	1.618	1/2	1-1/4†	7/8	40B10SS	69275
11	1.775		1-3/8†		40B11SS	69276
12	1.932		1-9/16†		40B12SS	69277
13	2.089		1-9/16		40B13SS	69278
14	2.247		1-11/16		40B14SS	69279
15	2.405	5/8	1-13/16	7/8	40B15SS	69280
16	2.563		2		40B16SS	69281
17	2.721	5/8	2-1/8	1	40B17SS	69282
18	2.879		2-5/16		40B18SS	69283
19	3.038		2-1/2		40B19SS	69294
20	3.196		2-5/8		40B20SS	69295
25	3.989		3-1/4		40B25SS	69296
30	4.783		3-1/4		40B30SS	69297
40	6.373	3/4	3-1/2	1	40B40SS	69300
45	7.168		3-1/2		40B45SS	69301
60	9.554		3-1/2		40B60SS	69302

†Has recessed groove in hub for chain reference.

## H

## Double Strand

### No. 40 2-1/2" Pitch; Steel



#### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru	Without Keyway or Setscrew			
					Catalog Number	Item Code		
<b>TYPE B SINGLE HUB STEEL</b>								
13	2.089	1/2	1-1/2	1-1/2	D40B13	46563		
14	2.247		1-11/16		D40B14	46564		
15	2.405		1-13/16		D40B15	46565		
16	2.563	1/2	2	1-1/2	D40B16	15950		
17	2.721		2-1/8		D40B17	15952		
18	2.879		2-5/16		D40B18	15954		
19	3.038		2-1/2		D40B19	15956		
20	3.196		5/8		2-5/8	1-5/8	D40B20	15958
21	3.355				2-3/4		D40B21	15960
22	3.513	2-7/8		D40B22	15962			
23	3.672	3		D40B23	15964			
24	3.831	3-1/4		D40B24	15966			
25	4.989	3-1/4		D40B25	15968			
26	4.148	3-1/4	D40B26	68011				
30	4.783	7/8	2-1/2	1-5/8	D40B30	68012		
35	5.578		3-1/4		D40B35	68013		
36	5.737		3-3/4		D40B36	68018		
40	6.373	15/16	3-3/4	1-3/4	D40B40	68020		

**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. +.469"**

#### STANDARD TOLERANCES

DIMENSIONS		TOLERANCE
<b>Stainless Steel</b>		
Bore	All	+.002 - .000
<b>Double Strand</b>		
Bore	All	±.001

#### Reference Pages

Alterations – 324  
 Horsepower Ratings – 268-270  
 Lubrication – 267  
 Materials – 324  
 Selection Procedure – 266  
 ANSI Diameters – 325

# Roller Chain Sprockets

## Single Strand No. 50 5/8" Pitch; Steel

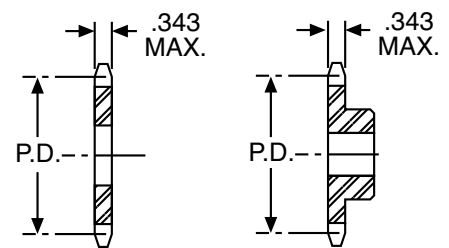
### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Catalog Number	Item Code
<b>TYPE A NO HUB STEEL</b>				
17	3.401	5/8	50A17	45865
18	3.599		50A18	56752
19	3.797		50A19	56753
20	3.955	3/4	50A20	56754
21	4.193		50A21	56755
22	4.392		50A22	56756
23	4.590		50A23	56757
24	4.788	23/32	50A24	56758
25	4.987		50A25	16288
26	5.185		50A26	45866
28	5.582		50A28	45867
30	5.979		50A30	16290
32	6.376		50A32	16292
35	6.872		50A35	45872
36	7.171		50A36	16294
40	7.966		50A40	16296
42	8.363		50A42	16298
45	8.960		50A45	16300
48	9.556	15/16	50A48	16302
54	10.749		50A54	16304
60	11.942		50A60	16306
72	14.328		50A72	16310
84	16.715		50A84	16314
96	19.102		50A96	16316
112	21.885		50A112	16318



TYPE A

TYPE B



### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway & Setscrew*		Without Keyway or Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
8	1.633	5/8	1-1/8†	1	50B8-5/8*	49482	50B8	15798
9	1.827	5/8	1-3/8†	1	50B9-5/8	15150	50B9	15800
		3/4			50B9-3/4*	15152		
10	2.023	5/8	1-9/16†	1	50B10-5/8	15154	50B10	15802
		3/4			50B10-3/4	15156		
		7/8			50B10-7/8	36496		
		1			50B10-1*	36498		
		5/8			50B11-5/8	15158	50B11	15804
11	2.218	3/4	1-3/4†	1	50B11-3/4	15160		
		7/8			50B11-7/8	15162		
		1			50B11-1*	15164		
		5/8			50B12-5/8	15166	50B12	15806
12	2.415	3/4	1-63/64†	1	50B12-3/4	15168		
		7/8			50B12-7/8	15170		
		1			50B12-1	15172		
		1-1/8			50B12-1-1/8	15174		
		1-3/16			50B12-1-3/16	36500		
		1-1/4			50B12-1-1/4*	36502		
		5/8			50B13-5/8	36504	50B13	15808
		3/4			50B13-3/4	15176		
13	2.612	7/8	1-7/8	1	50B13-7/8	15178		
		1			50B13-1	15180		
		1-1/8			50B13-1-1/8*	15182		
		1-3/16			50B13-1-3/16	15184		
		1-1/4			50B13-1-1/4*	15186		
		5/8			50B14-5/8	36506	50B14	15810
14	2.809	3/4	2-1/8	1	50B14-3/4	15188		
		7/8			50B14-7/8	15190		
		1			50B14-1	15192		
		1-1/8			50B14-1-1/8	15194		
		1-3/16			50B14-1-3/16	15196		
		1-1/4			50B14-1-1/4*	15198		

**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. + .594"**

### STANDARD TOLERANCES

DIMENSION		TOLERANCE	
Type A	Bore	All	+0.002 - .001
Type B	Bore	All	±.001

### Reference Pages

- Alterations – 324
- Horsepower Ratings – 268-270
- Lubrication – 267
- Materials – 324
- Selection Procedure – 266
- ANSI Diameters – 325

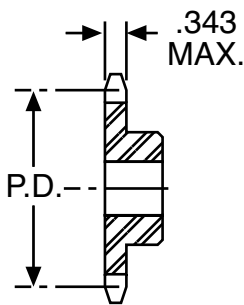
\*All sprockets have standard keyway. Sprockets 8-12 teeth have 1/4-20 set-screw, 13-14 teeth 5/16-18 setscrew located over keyway except at 90° where marked.

†Has recessed groove in hub for chain clearance.

# Roller Chain Sprockets

## Single Strand

No. 50 5/8" Pitch; Steel



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. + .594"**

### STANDARD TOLERANCES

DIMENSIONS	TOLERANCE	
Bore	All	±.001

### Reference Pages

Alterations – 324  
 Horsepower Ratings – 268-270  
 Lubrication – 267  
 Materials – 324  
 Selection Procedure – 266  
 ANSI Diameters – 325

\*All sprockets have standard keyway. All sprockets have 5/16–18 setscrews located over keyway except at 90° where marked.

### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway & Setscrew*		Without Keyway or Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
15	3.006	5/8	2-3/8	1	50B15-5/8	36508	50B15	15812
					50B15-3/4	15200		
					50B15-7/8	15202		
					50B15-1	15204		
					50B15-1-1/8	36206		
					50B15-1-3/16	15208		
					50B15-1-1/4	15210		
					50B15-1-3/8	15212		
					50B15-1-7/16*	15214		
					50B15-1-1/2*	36510		
					16	3.204		
50B16-3/4	15216							
50B16-7/8	15218							
50B16-1	15220							
50B16-1-1/8	15222							
50B16-1-3/16	15224							
50B16-1-1/4	15226							
50B16-1-3/8	15228							
50B16-1-7/16	15230							
50B16-1-1/2*	15232							
50B16-1-5/8*	36514							
17	3.401	5/8	2-11/16	1	50B17-5/8	36516	50B17	15816
					50B17-3/4	15234		
					50B17-7/8	17150		
					50B17-1	15236		
					50B17-1-1/8	15238		
					50B17-1-3/16	15240		
					50B17-1-1/4	15242		
					50B17-1-3/8*	15244		
					50B17-1-7/16*	15246		
					50B17-1-1/2*	56737		
					50B17-1-5/8*	36518		
18	3.599	5/8	2-7/8	1	50B18-5/8	36520	50B18	15818
					50B18-3/4	15248		
					50B18-7/8	15250		
					50B18-1	15252		
					50B18-1-1/8	36522		
					50B18-1-3/16	15254		
					50B18-1-1/4	15256		
					50B18-1-1/4	15258		
					50B18-1-7/16	15260		
					50B18-1-1/2	15262		
					19	3.797		
50B19-3/4	36526							
50B19-7/8	36528							
50B19-1	15264							
50B19-1-1/8	15266							
50B19-1-3/16	15268							
50B19-1-1/4	15270							
50B19-1-1/4	15272							
50B19-1-7/16	15274							
50B19-1-1/2	15276							
20	3.995	3/4	3	1			50B20-3/4	36530
					50B20-7/8	15278		
					50B20-1	15280		
					50B20-1-1/8	56738		
					50B20-1-3/16	15282		
					50B20-1-1/4	15284		
					50B20-1-1/4	15286		
					50B20-1-7/16	15288		
					50B20-1-1/2	15290		
					50B20-1-5/8	36532		

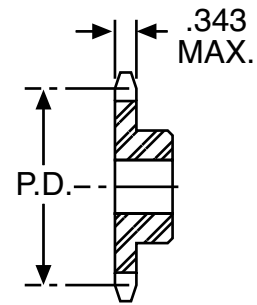


# Roller Chain Sprockets

## Single Strand No. 50 5/8" Pitch; Steel

### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway & Setscrew*		Without Keyway or Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
21	4.193	3/4	3	1	50B21-3/4	36536	50B21	15824
		1			50B21-1	15292		
		1-1/8			50B21-1-1/8	36540		
		1-3/16			50B21-1-3/16	36538		
		1-1/4			50B21-1-1/4	15294		
		1-3/8			50B21-1-3/8	36542		
		1-7/16			50B21-1-7/16	56739		
		1-1/2			50B21-1-1/2	15296		
22	4.392	3/4	3	1	50B22-3/4	36546	50B22	15826
		1			50B22-1	15300		
		1-1/8			50B22-1-1/8	36548		
		1-3/16			50B22-1-3/16	36550		
		1-1/4			50B22-1-1/4	15302		
		1-3/8			50B22-1-3/8	36552		
		1-7/16			50B22-1-7/16	36554		
		1-1/2			50B22-1-1/2	15304		
23	4.590	3/4	3	1	50B23-3/4	36558	50B23	15828
		1			50B23-1	15308		
		1-1/8			50B23-1-1/8	36560		
		1-3/16			50B23-1-3/16	36562		
		1-1/4			50B23-1-1/4	15310		
		1-3/8			50B23-1-3/8	36564		
		1-7/16			50B23-1-7/16	36566		
		1-1/2			50B23-1-1/2	15312		
24	4.788	3/4	3	1-1/4	50B24-3/4	36570	50B24	15830
		1			50B24-1	15316		
		1-1/8			50B24-1-1/8	36572		
		1-3/16			50B24-1-3/16	36574		
		1-1/4			50B24-1-1/4	15318		
		1-3/8			50B24-1-3/8	36576		
		1-7/16			50B24-1-7/16	36578		
		1-1/2			50B24-1-1/2	15320		
25	4.987	3/4	3	1-1/4	50B25-3/4	36582	50B25	15832
		1			50B25-1	36584		
		1-1/8			50B25-1-1/8	36586		
		1-3/16			50B25-1-3/16	36588		
		1-1/4			50B25-1-1/4	36590		
		1-3/8			50B25-1-3/8	36592		
		1-7/16			50B25-1-7/16	36594		
		1-1/2			50B25-1-1/2	36596		
26	5.185	3/4	3	1-1/4	50B26-3/4	36602	50B26	36598
		1			50B26-1	36604		
		1-1/8			50B26-1-1/8	36606		
		1-3/16			50B26-1-3/16	36608		
		1-1/4			50B26-1-1/4	36610		
		1-7/16			50B26-1-7/16	36612		
		1-1/2			50B26-1-1/2	36614		
		28			5.582	3/4		
1	50B28-1		36640					
1-1/8	50B28-1-1/8		36642					
1-3/16	50B28-1-3/16		36644					
1-1/4	50B28-1-1/4		36646					
1-7/16	50B28-1-7/16		36648					
1-1/2	50B28-1-1/2		36650					
30	5.979		3/4	3		1-1/4	50B30-3/4	36674
		1	50B30-1		36676			
		1-1/8	50B30-1-1/8		36678			
		1-3/16	50B30-1-3/16		36680			
		1-1/4	50B30-1-1/4		36682			
		1-7/16	50B30-1-7/16		36684			
		1-1/2	50B30-1-1/2		36686			



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. + .594"**

### STANDARD TOLERANCES

DIMENSION	TOLERANCE
Bore	All ±.001

### Reference Pages

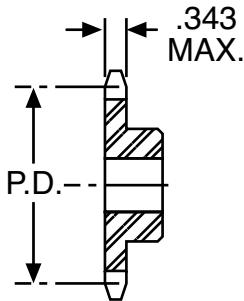
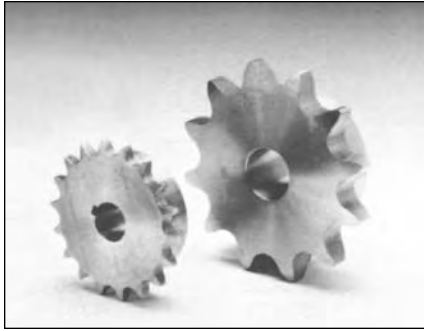
Alterations – 324  
 Horsepower Ratings – 268-270  
 Lubrication – 267  
 Materials – 324  
 Selection Procedure – 266  
 ANSI Diameters – 325

\*All sprockets have standard keyway.  
 All sprockets have 5/16–18 setscrews located over keyway except at 90° where marked.

# Roller Chain Sprockets

## Single Strand

### No. 50 5/8" Pitch; Steel



### Reference Pages

Alterations – 324  
 Horsepower Ratings – 268-270  
 Lubrication – 267  
 Materials – 324  
 Selection Procedure – 266  
 ANSI Diameters – 325

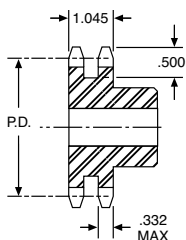
\*All sprockets have standard keyway.  
 All sprockets have 5/16–18 setscrews located over keyway except at 90° where marked.

### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway & Setscrew*		Without Keyway or Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
32	6.376	3/4	3-1/4	1-1/4	—	—	50B32	16490
35	6.972	—	3-1/4	1-1/4	—	—	—	—
		3/4			50B35-3/4	36748	50B35	36744
		1			50B35-1	36750		
		1-1/4			50B35-1-1/4	36752		
		1-7/16			50B35-1-7/16	36754		
		1-1/2			50B35-1-1/2	36756		
36	7.171	3/4	3-1/4	1-1/4	—	—	50B36	16490
40	7.966	3/4	3-1/4	1-1/4	50B40-3/4	36808	50B40	16494
		1			50B40-1	36810		
		1-1/4			50B40-1-1/4	36812		
		1-7/16			50B40-1-7/16	36814		
		1-1/2			50B40-1-1/2	36816		
		1-15/16			50B40-1-15/16*	36818		
42	8.363	3/4	3-1/4	1-1/4	—	—	50B42	16496
45	8.960	3/4	3-3/4	1-1/4	50B45-3/4	36876	50B45	16498
		1			50B45-1	36878		
		1-1/4			50B45-1-1/4	36880		
		1-7/16			50B45-1-7/16	36882		
		1-1/2			50B45-1-1/2	36884		
		1-15/16			50B45-1-15/16*	36886		
48	9.556	1	3-3/4	1-1/4	50B48-1	36892	50B48	16500
		1-1/4			50B48-1-1/4	36894		
		1-7/16			50B48-1-7/16	36896		
		1-1/2			50B48-1-1/2	36898		
		1-15/16			50B48-1-15/16*	35942		
54	10.749	1	3-3/4	1-1/4	—	—	50B54	16502
60	11.942	1	3-3/4	1-1/4	50B60-1	35920	50B60	16504
		1-1/4			50B60-1-1/4	35922		
		1-7/16			50B60-1-7/16	35924		
		1-1/2			50B60-1-1/2	35926		
		1-15/16			50B60-1-15/16*	35928		
72	14.328	1	3-3/4	1-3/4	—	—	50B72	16508
84	16.715	1	4-1/4	1-3/4	—	—	50B84	16512
96	19.102	1	4-1/4	1-3/4	—	—	50B96	16514
112	21.885	1	4-1/4	1-3/4	—	—	50B112	16516

## Double Strand

### No. 50-2 5/8" Pitch; Steel



### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway & Setscrew*	
					Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>						
15	3.006	3/4	2-5/16	1-3/4	D50B15	15970
16	3.204		2-1/2		D50B16	15972
17	3.401		2-11/16		D50B17	15974
18	3.599		2-15/16		D50B18	15976
20	3/995	1	3-1/4	1-3/4	D50B20	15980
21	4.193		3-1/2		D50B21	15982
22	4.392	1	3-9/16	1-7/8	D50B22	15984
24	4.788		3-5/8		D50B24	15988
25	4.987		3-5/8		D50B25	15990
30	5.979		3-3/4		D50B30	68166
40	7.966	1-3/16	4	2-1/8	D50B40	68173

### STANDARD TOLERANCES

DIMENSIONS	TOLERANCE	
Bore	All	±.001

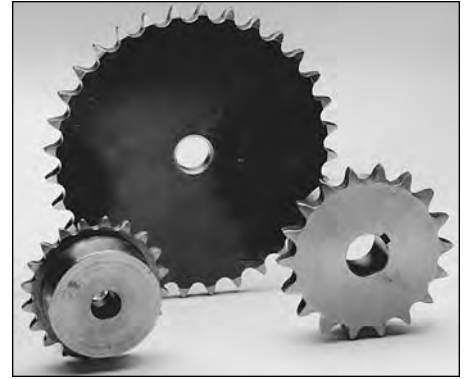
**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. + .594"**

# Roller Chain Sprockets

## Single Strand No. 60 3/4" Pitch; Steel

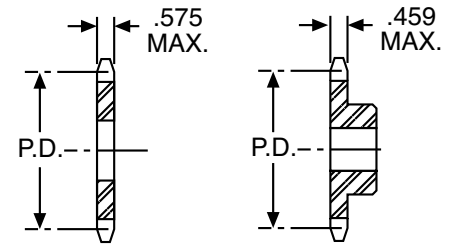
### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Catalog Number	Item Code
<b>TYPE A NO HUB STEEL</b>				
17	4.082	3/4	60A17	56759
18	4.319		60A18	56760
19	4.557		60A19	56761
20	4.794		60A20	56762
21	5.032		60A21	16320
22	5.270		60A22	16322
23	5.508		60A23	16324
24	5.746	23/32	60A24	16326
25	5.984		60A25	16328
26	6.222		60A26	61894
28	6.699		60A28	46466
30	7.175		60A30	16330
32	7.652		60A32	16332
35	8.367	15/16	60A35	46471
36	8.605		60A36	16334
40	9.559		60A40	16336
45	10.752		60A45	16340
48	11.467		60A48	16342
54	12.899		60A54	16344
60	14.330		1-1/4	60A60
72	17.194	60A72		16350



TYPE A

TYPE B



### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway & Setscrew*		Without Keyway or Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
8	1.960	5/8	1-15/32†	1-1/4	60B8-3/4*	49483	60B8	15834
9	2.193	3/4	1-9/16†	1-1/4	60B9-3/4*	15324	60B9	15836
10	2.023	3/4	1-9/16†	1-1/4	60B10-3/4	15326	60B10	15838
		7/8			60B10-7/8	36180		
		1			60B10-1	15328		
		1-1/8			60B10-1-1/8*	36182		
		1-3/16			60B10-1-3/16*	36184		
11	2.662	3/4	2-1/16†	1-1/4	60B11-3/4	15334	60B11	15840
		7/8			60B11-7/8	36164		
		1			60B11-1	15332		
		1-1/8			60B11-1-1/8*	56740		
		1-3/16			60B11-1-3/16*	36494		
12	2.898	3/4	2-3/8†	1-1/4	60B12-3/4	15336	60B12	15842
		7/8			60B12-7/8	36616		
		1			60B12-1	15338		
		1-1/8			60B12-1-1/8	15340		
		1-3/16			60B12-1-3/16	15342		
13	3.134	3/4	2-11/32	1-1/4	60B13-3/4	15346	60B13	15844
		7/8			60B13-7/8	36620		
		1			60B13-1	15348		
		1-1/8			60B13-1-1/8	15350		
		1-3/16			60B13-1-3/16	15352		
14	3.370	3/4	2-9/16	1-1/4	60B14-3/4	15362	60B14	15846
		7/8			60B14-7/8	36144		
		1			60B14-1	15364		
		1-1/8			60B14-1-1/8	36146		
		1-3/16			60B14-1-3/16	15366		
1-1/4	60B14-1-1/4	15368						
1-3/8	60B14-1-3/8	15370						
1-7/16	60B14-1-7/16	15372						
1-1/2	60B14-1-1/2	15374						
1-9/16	60B14-1-9/16*	36148						
1-5/8	60B14-1-5/8*	36150						

**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. + .703"**

### STANDARD TOLERANCES

DIMENSION		TOLERANCE	
Type A	Bore	All	+ .002 - .001
Type B	Bore	All	± .001

### Reference Pages

Alterations – 324  
Horsepower Ratings – 268-270  
Lubrication – 267  
Materials – 324  
Selection Procedure – 266  
ANSI Diameters – 325

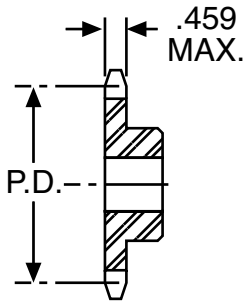
\*All sprockets have standard keyway. All sprockets have 1/4–20 setscrew, 9 to 12 tooth sprockets have 5/16–18 setscrew and 13 and 14 tooth sprockets have 3/8–16 setscrew, located over keyway except at 90° where marked.

†Has recessed groove in hub for chain clearance.

# Roller Chain Sprockets

## Single Strand

No. 60 3/4" Pitch; Steel



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. + .703"**

### STANDARD TOLERANCES

DIMENSIONS	TOLERANCE	
Bore	All	±.001

### Reference Pages

Alterations – 324  
 Horsepower Ratings – 268-270  
 Lubrication – 267  
 Materials – 324  
 Selection Procedure – 266  
 ANSI Diameters – 325

\*All sprockets have standard keyway. All sprockets have 3/8–16 setscrew, located over keyway except at 90° where marked.

### ORDER BY CATALOG NUMBER OR ITEM CODE

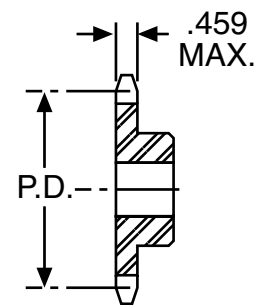
No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway & Setscrew*		Without Keyway or Setscrew								
					Catalog Number	Item Code	Catalog Number	Item Code							
<b>TYPE B SINGLE HUB STEEL</b>															
15	3.607	3/4	2-7/8	1-1/4	60B15-3/4	36152	60B15	15848							
					60B15-7/8	36154									
					60B15-1	15376									
					60B15-1-1/8	36156									
					60B15-1-3/16	15378									
					60B15-1-1/4	15380									
					60B15-1-3/8	15382									
					60B15-1-7/16	15384									
					60B15-1-1/2	15386									
					60B15-1-9/16	36158									
					60B15-1-5/8	15388									
					60B15-1-3/4	15390									
					16	3.844			3/4	3-1/16	1-1/4	60B16-3/4	36160	60B16	15850
60B16-7/8	36166														
60B16-1	15392														
60B16-1-1/8	36168														
60B16-1-3/16	15394														
60B16-1-1/4	15396														
60B16-1-3/8	15398														
60B16-1-7/16	15400														
60B16-1-1/2	15402														
60B16-1-9/16	36170														
60B16-1-5/8	15404														
60B16-1-3/4	36172														
60B16-1-15/16	15406														
17	4.082	3/4	3-1/4	1-1/4	60B17-3/4	49484	60B17	15852							
					60B17-1	15408									
					60B17-1-1/8	21782									
					60B17-1-3/16	21784									
					60B17-1-1/4	15410									
					60B17-1-3/8	21816									
					60B17-1-7/16	21818									
					60B17-1-1/2*	15412									
					60B17-1-9/16*	45666									
					60B17-1-5/8*	45667									
					60B17-1-3/4*	15414									
					18	4.319			3/4	3-1/2	1-1/4	60B18-3/4	49485	60B18	15854
												60B18-1	15416		
60B18-1-1/8	21866														
60B18-1-3/16	21896														
60B18-1-1/4	15418														
60B18-1-3/8	21906														
60B18-1-7/16	21910														
60B18-1-1/2	15420														
60B18-1-9/16	21920														
60B18-1-5/8	21924														
60B18-1-3/4	15422														
19	4.557	3/4	3-1/2	1-1/4			60B19-3/4	21928				60B19	15856		
							60B19-1	15424							
					60B19-1-1/8	45656									
					60B19-1-3/16	46625									
					60B19-1-1/4	15426									
					60B19-1-3/8	45990									
					60B19-1-7/16	45657									
					60B19-1-1/2	15428									
					60B19-1-9/16	45658									
					60B19-1-5/8	45659									
					60B19-1-3/4	15430									
					60B19-1-15/16	45660									

# Roller Chain Sprockets

## Single Strand No. 60 3/4" Pitch; Steel

### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway & Setscrew*		Without Keyway or Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
20	4.794	3/4	3-7/8	1-1/4	60B20-3/4	46576	60B20	15858
		1			60B20-1	17152		
		1-1/8			60B20-1-1/8	46577		
		1-3/16			60B20-1-3/16	45661		
		1-1/4			60B20-1-1/4	15432		
		1-3/8			60B20-1-3/8	46578		
		1-7/16			60B20-1-7/16	45662		
		1-1/2			60B20-1-1/2	15434		
		1-9/16			60B20-1-9/16	45663		
		1-5/8			60B20-1-5/8	45664		
		1-3/4			60B20-1-3/4	15436		
21	5.032	3/4	4	1-1/4	60B21-3/4	20034	60B21	15860
		1			60B21-1	20040		
		1-1/4			60B21-1-1/4	20132		
		1-7/16			60B21-1-7/16	20142		
		1-1/2			60B21-1-1/2	20846		
		1-15/16			60B21-1-15/16	20858		
22	5.270	3/4	4	1-1/4	60B22-3/4	21550	60B22	15862
		1			60B22-1	21570		
		1-1/4			60B22-1-1/4	45669		
		1-7/16			60B22-1-7/16	45688		
		1-1/2			60B22-1-1/2	45689		
		1-15/16			60B22-1-15/16	45690		
23	5.508	3/4	4	1-1/4	60B23-3/4	45744	60B23	15864
		1			60B23-1	45691		
		1-1/4			60B23-1-1/4	45698		
		1-7/16			60B23-1-7/16	45699		
		1-1/2			60B23-1-1/2	45700		
		1-15/16			60B23-1-15/16	45702		
24	5.746	3/4	4	1-1/4	60B24-3/4	36020	60B24	15866
		1			60B24-1	45703		
		1-1/4			60B24-1-1/4	45704		
		1-7/16			60B24-1-7/16	45705		
		1-1/2			60B24-1-1/2	45706		
		1-15/16			60B24-1-15/16	45707		
25	5.984	3/4	4	1-1/4	60B25-3/4	36022	60B25	15868
		1			60B25-1	45745		
		1-1/4			60B25-1-1/4	45711		
		1-7/16			60B25-1-7/16	45712		
		1-1/2			60B25-1-1/2	45713		
		1-15/16			60B25-1-15/16	45714		
26	6.222	3/4	4	1-1/4	60B26-3/4	36024	60B26	45747
		1			60B26-1	45746		
		1-1/4			60B26-1-1/4	45715		
		1-7/16			60B26-1-7/16	45716		
		1-1/2			60B26-1-1/2	45717		
		1-15/16			60B26-1-15/16	45718		
28	6.699	3/4	4	1-1/4	60B28-3/4	36030	60B28	45720
		1			60B28-1	45721		
		1-1/4			60B28-1-1/4	45722		
		1-7/16			60B28-1-7/16	45734		
		1-1/2			60B28-1-1/2	45735		
		1-15/16			60B28-1-15/16	45736		
30	7.175	3/4	4	1-1/4	60B30-3/4	36036	60B30	16518
		1			60B30-1	45738		
		1-1/4			60B30-1-1/4	45749		
		1-7/16			60B30-1-7/16	45765		
		1-1/2			60B30-1-1/2	45795		
		1-15/16			60B30-1-15/16	45775		



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. + .703"**

### STANDARD TOLERANCES

DIMENSION	TOLERANCE
Bore	All ±.001

### Reference Pages

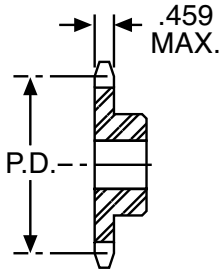
- Alterations – 324
- Horsepower Ratings – 268-270
- Lubrication – 267
- Materials – 324
- Selection Procedure – 266
- ANSI Diameters – 325

\*All sprockets have standard keyway. All sprockets have 3/8-16 setscrew, located over keyway except at 90° where marked.

# Roller Chain Sprockets

## Single Strand

### No. 60 3/4" Pitch; Steel



### Reference Pages

- Alterations – 324
- Horsepower Ratings – 268-270
- Lubrication – 267
- Materials – 324
- Selection Procedure – 266
- ANSI Diameters – 325

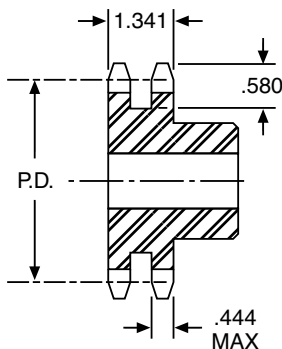
\*All sprockets have standard keyway. All sprockets have 3/8-16 setscrew, located over keyway.

### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway & Setscrew*		Without Keyway or Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
32	7.652	3/4	4	1-1/4	60B32-3/4	49486	60B32	16520
					60B32-1	49847		
					60B32-1-1/4	49488		
					60B32-1-7/16	49489		
					60B32-1-1/2	49490		
					60B32-1-15/16	49491		
35	8.367	1	4	1-1/4	—	—	60B35	45778
					60B35-1	45779		
					60B35-1-1/4	45780		
					60B35-1-7/16	45793		
					60B35-1-1/2	45784		
60B35-1-15/16	45796							
36	8.605	1	4	1-1/4	—	—	60B36	16522
40	9.559	1-3/16	4-1/4	1-1/4	60B40-1-3/16	45843	60B40	16524
					60B40-1-1/4	45844		
					60B40-1-7/16	45845		
					60B40-1-1/2	45846		
					60B40-1-15/16	45848		
					60B40-2-7/16	45849		
45	10.752	1-3/16	4-1/4	1-1/4	60B45-1-3/16	61668	60B45	16528
					60B45-1-1/4	61673		
					60B45-1-7/16	46463		
					60B45-1-1/2	61677		
					60B45-1-15/16	61679		
					60B45-2-7/16	61680		
48	11.467	1-3/16	4-1/4	1-1/4	—	—	60B48	16530
54	12.899	1-3/16	4-1/4	1-3/4	—	—	60B54	16532
60	14.330	1-3/16	4-1/4	1-3/4	—	—	60B60	16534
					60B60-1-7/16	46464		
					60B60-1-1/2	46465		
					60B60-1-15/16	61869		
					60B60-2-7/16	61870		
72	17.194	1-1/4	4-1/4	2	—	—	60B72	16538

## Double Strand

### No. 60 2-3/4" Pitch; Steel



### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	Without Keyway & Setscrew*	
					Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>						
15	3.607	1	2-13/16	2-1/8	D60B15	15992
16	3.844		3		D60B16	15994
17	4.082		3-1/4		D60B17	15996
18	4.319		3-1/2		D60B18	15998
19	4.557		3-11/16		D60B19	16000
20	4.794		3-3/4		D60B20	16002
21	5.032		4-1/8		D60B21	16004
25	5.984		4-1/4		D60B25	16006

### STANDARD TOLERANCES

DIMENSIONS	TOLERANCE	
Bore	All	±.001

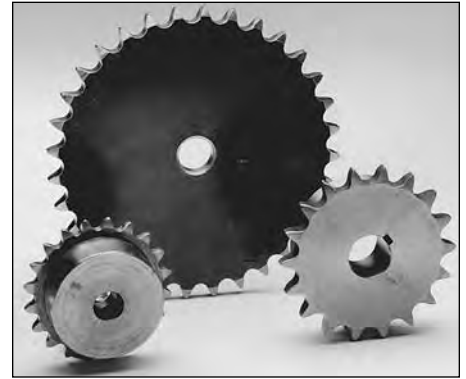
**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. + .703"**

# Roller Chain Sprockets

## Single Strand No. 80 1" Pitch; Steel

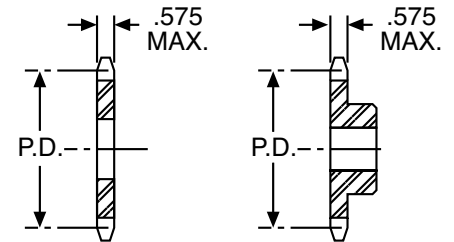
### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Catalog Number	Item Code
<b>TYPE A NO HUB STEEL</b>				
16	5.126	15/16	80A16	16356
17	5.442		80A17	16358
18	5.759		80A18	16360
19	6.079		80A19	16362
20	6.392		80A20	16364
21	6.710		80A21	16366
22	7.027		80A22	16368
23	7.344		80A23	16370
24	7.661		80A24	16372
25	7.979		80A25	16374
26	8.296	1-3/16	80A26	16376
30	9.567		80A30	16378
36	11.474		80A36	16382
40	12.745		80A40	16384
48	15.290	1-1/4	80A48	16388
50	15.926		80A54	46555
60	19.107		80A60	16392



TYPE A

TYPE B



### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway & Setscrew*		Without Keyway or Setscrew	
					Catalog Number	Item Code	Catalog Number	Item Code
<b>TYPE B SINGLE HUB STEEL</b>								
8	2.613	1	1-15/16	1-5/8	80B8-1*	46489	80B8	15870
9	2.924	1	2-1/4†	1-5/8	80B9-1*	46490	80B9	15872
		1-1/8			80B9-1-1/8*	46491		
		1-3/16			80B9-1-3/16*	15438		
		1-1/4			80B9-1-1/4*	46492		
10	3.236	1	2-9/16†	1-5/8	80B10-1	15440	80B10	15874
		1-1/8			80B10-1-1/8	46493		
		1-3/16			80B10-1-3/16	46494		
		1-1/4			80B10-1-1/4	15442		
11	3.549	1	2-13/16†	1-5/8	80B11-1	46495	80B11	15876
		1-1/8			80B11-1-1/8	46496		
		1-3/16			80B11-1-3/16	15444		
		1-1/4			80B11-1-1/4	15446		
		1-3/8			80B11-1-3/8	63651		
		1-7/16			80B11-1-7/16	15448		
		1-1/2			80B11-1-1/2*	15450		
		1-9/16			80B11-1-9/16*	46497		
		1-5/8			80B11-1-5/8*	15452		
		12			3.864	1	3-1/8†	1-5/8
1-1/8	80B12-1-1/8		63654					
1-3/16	80B12-1-3/16		63655					
1-1/4	80B12-1-1/4		15454					
1-3/8	80B12-1-3/8		63656					
1-7/16	80B12-1-7/16		15456					
1-1/2	80B12-1-1/2		15458					
1-9/16	80B12-1-9/16		63657					
1-5/8	80B12-1-5/8		15460					
1-3/4	80B12-1-3/4		15462					

**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. + .875"**

### STANDARD TOLERANCES

DIMENSION		TOLERANCE	
Type A	Bore	All	+ .002 - .001
Type B	Bore	All	± .001

### Reference Pages

- Alterations – 324
- Horsepower Ratings – 268-270
- Lubrication – 267
- Materials – 324
- Selection Procedure – 266
- ANSI Diameters – 325

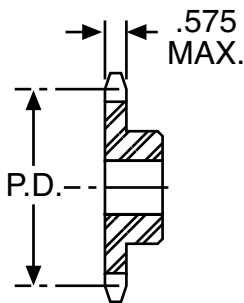
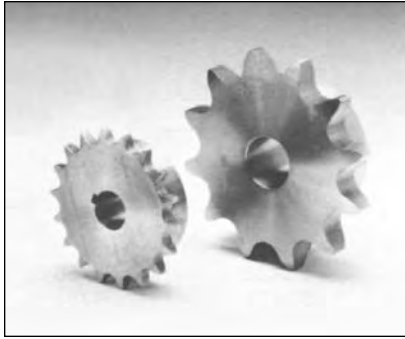
\*All sprockets have standard keyway. All sprockets have 3/8-16 setscrew, located over keyway except at 90° where marked.

†Has recessed groove in hub for chain clearance.

# Roller Chain Sprockets

## Single Strand

No. 80 1" Pitch; Steel



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. + .875"**

### STANDARD TOLERANCES

DIMENSIONS	TOLERANCE	
Bore	All	±.001

### Reference Pages

Alterations – 324  
 Horsepower Ratings – 268-270  
 Lubrication – 267  
 Materials – 324  
 Selection Procedure – 266  
 ANSI Diameters – 325

\*All sprockets have standard keyway. All sprockets have 3/8–16 setscrew, located over keyway.

†Has recessed groove in hub for chain clearance.

### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Dia.	Bore	Hub Dia.	Length thru Bore	With Keyway & Setscrew*		Without Keyway or Setscrew									
					Catalog Number	Item Code	Catalog Number	Item Code								
<b>TYPE B SINGLE HUB STEEL</b>																
13	4.179		3	1-1/2	1	80B13-1	63658	80B13	15880							
					1-1/8	80B13-1-1/8	63659									
					1-3/16	80B13-1-3/16	63662									
					1-1/4	80B13-1-1/4	15464									
					1-3/8	80B13-1-3/8	63664									
					1-7/16	80B13-1-7/16	15466									
					1-1/2	80B13-1-1/2	15468									
					1-9/16	80B13-1-9/16	63666									
					1-5/8	80B13-1-5/8	15470									
					1-3/4	80B13-1-3/4	15472									
					1-7/8	80B13-1-7/8	63667									
					1-15/16	80B13-1-15/16	15474									
					2	80B13-2	15476									
					14	4.494				3-1/4	1-1/2	1	80B14-1	63669	80B14	15882
1-1/8	80B14-1-1/8	63670														
1-3/16	80B14-1-3/16	63708														
1-1/4	80B14-1-1/4	15478														
1-3/8	80B14-1-3/8	63709														
1-7/16	80B14-1-7/16	15480														
1-1/2	80B14-1-1/2	15482														
1-9/16	80B14-1-9/16	63710														
1-5/8	80B14-1-5/8	15484														
1-3/4	80B14-1-3/4	15486														
1-7/8	80B14-1-7/8	63711														
1-15/16	80B14-1-15/16	15488														
15	4.810		3-13/16	1-1/2				1	80B15-1			63712	80B15	15884		
								1-1/8	80B15-1-1/8			46498				
					1-3/16	80B15-1-3/16	46499									
					1-1/4	80B15-1-1/4	15492									
					1-7/16	80B15-1-7/16	15494									
					1-1/2	80B15-1-1/2	15496									
					1-9/16	80B15-1-9/16	63725									
					1-5/8	80B15-1-5/8	15498									
					1-3/4	80B15-1-3/4	15500									
					1-7/8	80B15-1-7/8	63726									
					1-15/16	80B15-1-15/16	15502									
					2	80B15-2	15504									
					16	5.126		4	1-1/2	1	80B16-1	35932			80B16	15886
										1-1/4	80B16-1-1/4	63734				
1-3/8	80B16-1-3/8	63735														
1-7/16	80B16-1-7/16	63736														
1-1/2	80B16-1-1/2	63737														
1-9/16	80B16-1-9/16	63738														
1-5/8	80B16-1-5/8	46500														
1-3/4	80B16-1-3/4	46501														
1-15/16	80B16-1-15/16	63765														
2	80B16-2	15504														
17	5.442		4	1-1/2	1	80B17-1	63775	80B17	15888							
					1-1/4	80B17-1-1/4	63776									
					1-3/8	80B17-1-3/8	63777									
					1-7/16	80B17-1-7/16	46502									
					1-1/2	80B17-1-1/2	46503									
					1-9/16	80B17-1-9/16	46504									
					1-5/8	80B17-1-5/8	46505									
					1-3/4	80B17-1-3/4	46506									
					1-15/16	80B17-1-15/16	46507									

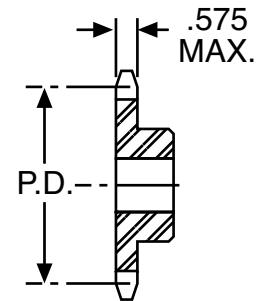


# Roller Chain Sprockets

## Single Strand No. 80 1" Pitch; Steel

### ORDER BY CATALOG NUMBER OR ITEM CODE

No. of Teeth	Pitch Diameter	Bore	Hub Dia.	Length thru Bore	With Keyway & Setscrew*		Without Keyway or Setscrew							
					Catalog Number	Item Code	Catalog Number	Item Code						
<b>TYPE B SINGLE HUB STEEL</b>														
18	5.759	1	4-1/4	1-1/2	80B18-1	46509	80B18	15890						
		1-1/4			80B18-1-1/4	46510								
		1-3/8			80B18-1-3/8	46511								
		1-7/16			80B18-1-7/16	46512								
		1-1/2			80B18-1-1/2	46513								
		1-9/16			80B18-1-9/16	63816								
		1-5/8			80B18-1-5/8	63820								
		1-3/4			80B18-1-3/4	63903								
		1-15/16			80B18-1-15/16	46514								
		2			80B18-2	63905								
		19			6.076	1			4-1/4	1-1/2	80B19-1	63911	80B19	15892
1-1/4	80B19-1-1/4		63912											
1-7/16	80B19-1-7/16		63935											
1-1/2	80B19-1-1/2		63936											
1-5/8	80B19-1-5/8		63951											
1-3/4	80B19-1-3/4		63953											
1-15/16	80B19-1-15/16		63954											
2	80B19-2		63955											
2-7/16	80B19-2-7/16		63956											
20	6.076		1	4-1/4		1-1/2	80B20-1	21968			80B20	15892		
		1-1/4	80B20-1-1/4		63962									
		1-7/16	80B20-1-7/16		63963									
		1-1/2	80B20-1-1/2		63964									
		1-5/8	80B20-1-5/8		63965									
		1-3/4	80B20-1-3/4		63966									
		1-15/16	80B20-1-15/16		63967									
		2	80B20-2		63969									
		2-7/16	80B20-2-7/16		63970									
		21	6.710		1		4-1/4	1-3/4	—	—			80B21	15896
		22	7.027		1		4-1/4	1-3/4	—	—			80B22	15898
23	7.344	1	4-1/4	1-3/4	—	—	80B23	16544						
24	7.661	1	4-1/4	1-3/4	—	—	80B24	16546						
25	7.979	1	4-1/4	1-3/4	—	—	80B25	16548						
26	8.296	1-1/4	4-3/4	2	—	—	80B26	16550						
30	9.567	1-3/16	4-3/4	2	—	—	80B30	16552						
36	11.474	1-3/16	4-3/4	2	—	—	80B36	16556						
40	12.745	1-3/16	4-3/4	2	—	—	80B40	16558						
48	15.290	1-1/4	4-3/4	2	—	—	80B48	16562						
60	19.107	1-1/4	5-1/4	2	—	—	80B60	16566						



**MAXIMUM DIA. OF CHAIN OVER SPROCKET = SPROCKET P.D. + .875"**

### STANDARD TOLERANCES

DIMENSION	TOLERANCE
Bore	All ±.001

### Reference Pages

Alterations – 324  
Horsepower Ratings – 268-270  
Lubrication – 267  
Materials – 324  
Selection Procedure – 266  
ANSI Diameters – 325

\*All sprockets have standard keyway. All sprockets have 3/8–16 setscrew, located over keyway.

# Block Chain Sprockets

## Type B Single Hub for 5/16" Wide B504 Block Chain Block Chain Sprockets\*; Steel and Iron

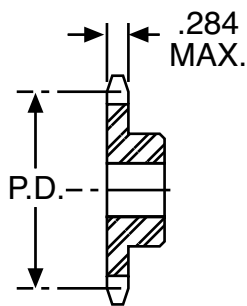
ALL DIMENSIONS IN INCHES  
ORDER BY CATALOG NUMBER OR ITEM CODE



Teeth	Pitch Diam.	Bore	Hub		Style	Catalog Number	Item Code
			Diameter	Project			
<b>STEEL</b>							
6	1.94	5/8	1-3/8	3/4	A	H917	14876
7	2.25	5/8	1-11/16	3/4	A	H918	14878
8	2.57	5/8	2	3/4	A	H919	14880
<b>CAST IRON</b>							
9	2.88	5/8	1-1/2	3/4	A	H920	16594
10	3.20	5/8	1-1/2	5/8	B	H921	16596
12	3.83	5/8	1-3/4	5/8	B	H922	16598

### STANDARD TOLERANCES

DIMENSIONS	TOLERANCE	
Bore	All	±.001 - .000



### Reference Pages

Alterations – 324

Materials – 324

\*For Block Chain refer to Page 253.

# Ladder Chain Sprockets

## Type B Single Hub

Nos. 1A and 1; Bronze and Steel (All Sprockets Equipped with Standard Setscrews, Except CBA 8)

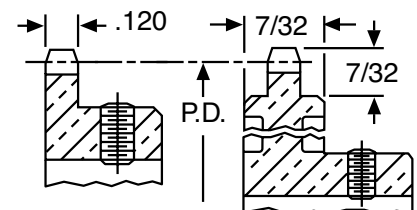
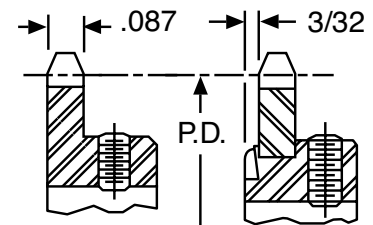
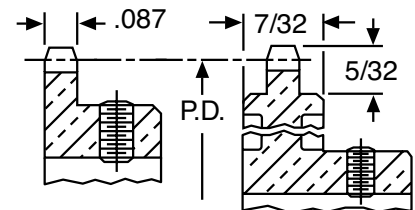
ORDER BY CATALOG NUMBER OR ITEM CODE

Teeth	Pitch Diam.	Bore	Hub		Style	Catalog Number	Item Code
			Diameter	Project			
<b>No. 1A</b>							
<b>BRONZE SPROCKETS</b>							
8	.48	1/8	5/16†	7/32	Plain	CBA8	16856
10	.60	1/8	3/8	7/32	Plain	CBA10	16858
12	.71	3/16	7/16	7/32	Plain	CBA12	16860
15	.88	3/16	7/16	7/32	Plain	CBA15B	16862
18	1.06	3/16	1/2	1/4	Plain	CBA18B	16864
20	1.18	3/16	5/8	1/4	Plain	CBA20B	16866
24	1.41	3/16	3/4	1/4	Plain	CBA24B	16868
32	1.88	1/4	5/8	5/16	Plain	CBA32	16870
36	2.12	5/16	3/4	3/8	Plain	CBA36	16872
<b>STEEL SPROCKETS</b>							
7	.42	3/16	3/8†	1/2	Plain	CA7	14780
8	.48	3/16	7/16†	1/2	Plain	CA8	14782
9	.54	1/4	1/2†	1/2	Plain	CA9	14784
10	.60	1/4	9/16†	1/2	Plain	CA10	14786
12	.71	1/4	11/16†	1/2	Plain	CA12	14788
14	.83	1/4	3/4†	1/2	Plain	CA14	14790
16	.95	5/16	7/8†	1/2	Plain	CA16	14792
20	1.18	5/16	7/8	13/32	Plain	CA20	14794
24	1.41	5/16	7/8	13/32	Plain	CA24	14796
34	2.00	3/8	1-1/4	1/2	Plain	CA34	14798
42	2.47	3/8	1-1/4	1/2	Plain	CA42	14800
<b>No. 1</b>							
<b>BRONZE SPROCKETS</b>							
6	.57	3/16	11/32†	1/4	Plain	CB1 6	16878
8	.75	3/16	1/2	1/4	Plain	CB1 8	16880
10	.93	3/16	1/2	1/4	Plain	CB1 10	16882
11	1.01	3/16	1/2	1/4	Plain	CB1 11	16884
12	1.10	3/16	1/2	1/4	Plain	CB1 12	16886
14	1.28	1/4	5/8	5/16	Plain	CB1 14	16890
24	2.19	5/16	3/4	3/8	Plain	CB1 24	16900
32	2.92	5/16	3/4	3/8	Plain	CB1 32	16904

†Has Recessed Groove in Hub for Chain Clearance

### STANDARD TOLERANCES

DIMENSION	TOLERANCE
Bore	All ±.001



# Ladder Chain Sprockets

## Type B Single Hub

Nos. 1-2 and 2-1/2; Bronze and Steel (*All Sprockets Have Standard Setscrews*)

ALL DIMENSIONS IN INCHES  
ORDER BY CATALOG NUMBER OR ITEM CODE



Teeth	Pitch Diam.	Bore	Hub		Style	Catalog Number	Item Code
			Diameter	Project			
No. 1							
<b>STEEL SPROCKETS</b>							
6	.57	1/4	1/2**	1/2	Plain	C1 6	14810
7	.66	1/4	9/16**	1/2	Plain	C1 7	14812
8	.75	5/16	11/16**	1/2	Plain	C1 8	14814
10	.93	5/16	7/8**	1/2	Plain	C1 10	14818
12	1.10	5/16	7/8	1/2	Plain	C1 12	14820
14	1.28	5/16	7/8	1/2	Plain	C1 14	14822
16	1.46	5/16	7/8	1/2	Plain	C1 16	14824
20	1.83	1/2	1-3/8	1/2	Plain	C1 20	14826
26	2.37	1/2	1-3/8	1/2	Plain	C1 26	14828
32	2.92	1/2	1-3/8	1/2	Plain	C1 32	14830

Nos. 2 and 2-1/2

### BRONZE SPROCKETS

10	1.14	3/16	9/16	5/16	Web	CB3 10	16920
12	1.36	1/4	5/8	5/16	Web	CB3 12	16922
16	1.81	1/4	5/8	5/16	Web	CB3 16	16924
20	2.26	5/16	3/4	3/8	Web	CB3 20	16926
22	2.48	5/16	3/4	3/8	Web	CB3 22	16928
24	2.70	5/16	3/4	3/8	Web	CB3 24	16930
45	5.06	3/8	7/8	7/16	Spoke	CB3 45	16936

### STEEL SPROCKETS

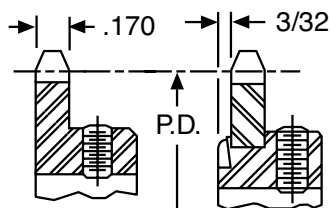
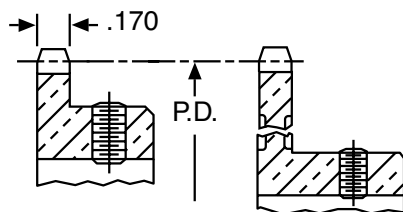
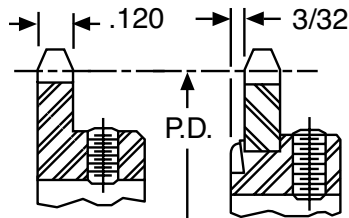
8	.92	3/8	13/16†	11/16	Plain	C3 8	14842
9	1.03	3/8	15/16†	11/16	Plain	C3 9	14844
10	1.14	3/8	1-1/32†	11/16	Plain	C3 10	14846
12	1.36	1/2	1-1/4†	11/16	Plain	C3 12	14850
14	1.59	1/2	1-1/4	11/16	Plain	C3 14	14852
16	1.81	1/2	1-15/32	11/16	Plain	C3 16	14854
20	2.26	1/2	1-1/2	11/16	Plain	C3 20	14856
30	3.38	1/2	1-5/8	11/16	Plain	C3 30	14860

\*\*Blind hole—3/4" deep from Hub End.

†Has Recessed Groove in Hub for Chain Clearance

### STANDARD TOLERANCES

DIMENSIONS	TOLERANCE	
Bore	All	±.001



H

# Roller Chain Drive Tensioners

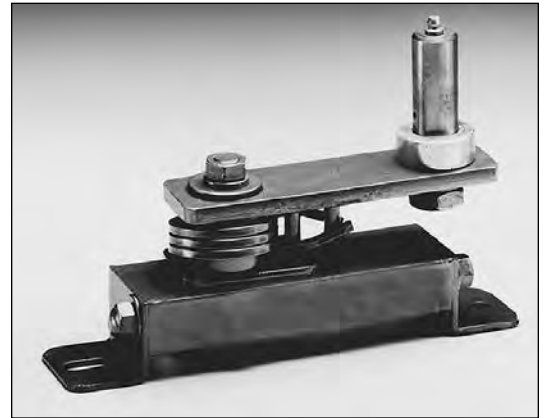
## Screw Adjustable/Spring Adjustable/Shaft Mounted Non-Adjustable (Drive Positioners)

Boston Gear chain drive tensioners improve drive performance by eliminating whipping and slipping of loose chains. They reduce vibration, noise and maintenance and provide additional life to drive components. They are also suitable for flat-face and V-Belt drive systems and are provided with a grease fitting for lubricating idler bearings other than Bost-Bronz.

All tensioners are constructed of structural steel and are available for use with Roller Chains up to 1-1/2" Pitch. No. 120.

### Installation Instructions

- Idlers should be located on the slack side of the drive chain.
- Chain idlers should be run on the outside of the chain.
- Idler sprockets should have at least three teeth engaged with the chain.
- Idlers, when used on the outside of the drive, should be located approximately 1/3 of the center distance from the large sprocket.
- Idlers, when used on the inside of the drive, should be located approximately 1/3 of the center distance from the large sprocket.
- Tensioning that is too tight causes excessive wear on the chain and bearings.
- Tensioning that is too loose allows chain vibration, causing loss of horsepower or wear.

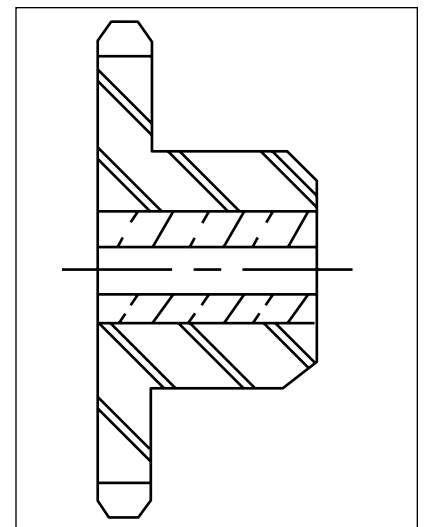


### Idler Sprockets

#### ORDER BY CATALOG NUMBER OR ITEM CODE

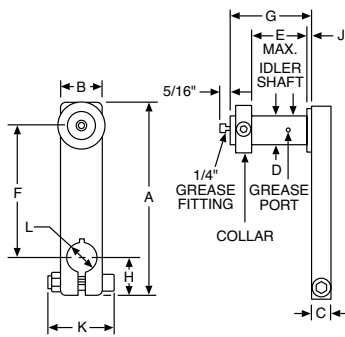
For Use with Chain No.	Hole Diameter	No. of Teeth	Catalog Number	Item Code
35	1/2	12	35B12TI-8	48901
		15	35B15TI-8	48902
		18	35B18TI-8	48903
40	1/2	9	40B9TI-8	48904
		12	40B12TI-8	48905
		15	40B15TI-8	48906
	7/8	12	40B12TI-14	48910
		15	40B15TI-14	48911
		18	40B18TI-14	48912
41	1/2	9	41B9TI-8	48907
		12	41B12TI-8	48908
		15	41B15TI-8	48909
	7/8	15	41B15TI-14	48913
		18	41B18TI-14	48914
50	7/8	12	50B12TI-14	48915
		15	50B15TI-14	48916
		18	50B18TI-14	48917
60	7/8	12	60B12TI-14	48918
		15	60B15TI-14	48919
		18	60B18TI-14	48920
	1-1/8	12	60B12TI-18	48921
		15	60B15TI-18	48922
		18	60B18TI-18	48923
80	1-1/8	12	80B12TI-18	48924
		15	80B15TI-18	48925
		18	80B18TI-18	48926

Boston stocks a wide range of idler sprockets for use with its chain drive tensioners and positioners. In addition special sizes and configurations can be furnished to order. All idlers are equipped with Bost-Bronz, oil impregnated bushings. Grease lubrication is not recommended. Use normal relubrication procedure for oil-impregnated bearings.



# Roller Chain Drive Tensioners

## Type LG Shaft Mounted



This shaft-mounted tensioner is best suited for applications where it is impractical to bolt the tensioner on a frame. This tensioner can be mounted at any point on a shaft and is adjustable to any location in a 360° arc on the shaft.

### ORDER BY CATALOG NUMBER OR ITEM CODE

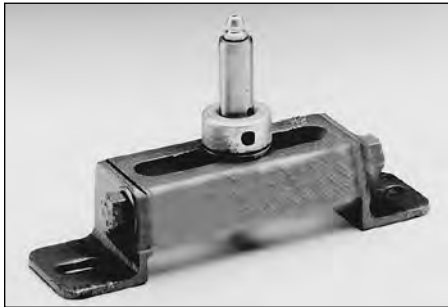
Suggested Chain Number*	Catalog Number	Item Code
35, 40, 41	0-LG	48888
40, 50, 60	1-LG	48889
80, 100, 120	2-LG	48890

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

### ALL DIMENSIONS IN INCHES

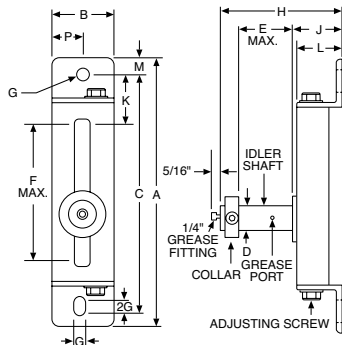
Size	A	B	C	D	E	F	G	H	J	K	L
0-LG	4	7/8	3/4	.500	1	2-1/2	1-9/16	7/8	1/16	1-5/8	.500
1-LG	6	1-1/4	1	.875	1-3/4	4	2-15/32	1-3/16	3/32	2-1/8	.875
2-LG	8	1-1/2	1-1/4	1.125	2-7/8	5-1/2	3-21/32	1-3/8	1/8	2-3/4	1.125

## Type BG Screw Adjustable



These Boston Gear tensioners use a screw for precise, easily adjustable tension, to provide maximum life for the sprocket and chain. These tensioners are useful on vertical drives to prevent lower sprocket disengagement and on heavy chains where slack is normally taken up by hand, while making the adjustment. With these tensioners chain take-up and tension are both controlled with the screw.

Many drive systems are enclosed for safety reasons. With conventional tensioners, the enclosure must be removed for drive adjustment. With Boston tensioners adjustments can be made to the head of the screw, substantially reducing cost maintenance and drive down time. The screw is adjustable from either end of the tensioner.



### ORDER BY CATALOG NUMBER OR ITEM CODE

Suggested Chain Number*	Catalog Number	Item Code
35, 40, 41	0-BG	48878
40, 50, 60	1-BG	48879
80, 100, 120	2-BG	48880

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

### ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	2G	H	J	K	L	M	P	Wgt.
0-BG	5-7/8	1-1/2	5-1/4	.500	1	2-1/2	9/32	3/8	2-13/16	1-5/16	1-3/8	1-1/4	3/8	3/4	1 LB.
1-BG	9	2	8-1/8	.875	1-3/4	4-1/2	11/32	1/2	4	1-5/8	1-3/4	1-1/2	1/2	1	2-1/2 LB.
2-BG	13	3	11-7/8	1.125	2-7/8	6	9/16	3/4	5-11/16	2-5/32	2-7/8	2	5/8	1-1/2	6 LB.

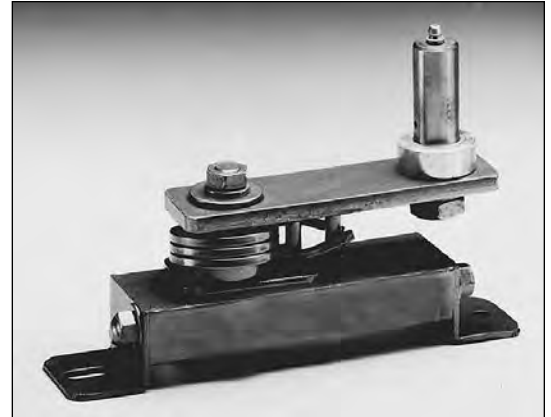
# Roller Chain Drive Tensioners

## Type BG Spring Adjustable

The Boston Gear Series 50 Tensioner is a screw-adjustable tensioner with a spring-loaded pivot arm. The arm maintains tension on the chain and automatically takes up the slack due to cycle loading or wear. It offers all the advantages of the screw adjustable tensioner plus the automatic take-up feature, which substantially reduces maintenance. The double-coil spring is loaded by turning the adjustment screw in the base of the unit, forcing the idler arm against the slack side of the chain.

The Series 60 Tensioner has a spring-loaded pivot arm but does not have the screw-type adjustment. It is used in lighter applications (#35-#60 chain) when automatic take-up is desired. Since the pivot arm must be adjusted by hand, the mounting location of the tensioner is important.

On both the Series 50 and 60 Tensioners, the pivot arm swings 90° from the center line in either direction, however, it must be positioned to swing in the direction of chain travel.



Series 50 dimensions

### ORDER BY CATALOG NUMBER OR ITEM CODE

Suggested Chain Number*	Available Load at Idler Shaft @90°	Catalog Number	Item Code
40, 50, 60 80, 100, 120	63 Lbs. 105 Lbs.	51-BG 52-BG	48883 48884
35, 40, 41 50, 60	32.2 Lbs. 33.3 Lbs.	60-BG 61-BG	48886 48887

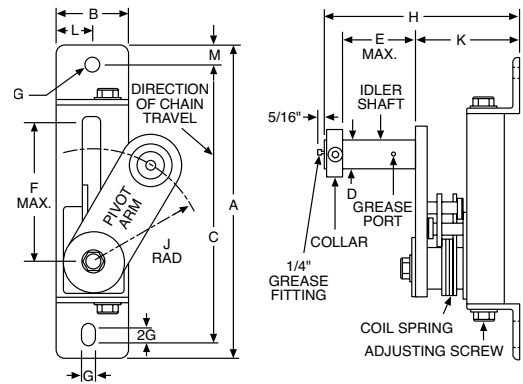
\*Single-strand chain. For multiple strand chain, use large tensioner.

Available load at idler shaft is the maximum amount of force on the chain developed by the spring loaded arm when deflected 90° to either side of the neutral position.

The basic spring preload is 20% of the total capability. The load curve is a straight line proportion of load to angle of deflection. Upon request, lighter springs can be supplied for all units. Heavier springs (to 150% of above capacity) can be furnished for all units except #60BG and #61BG.

Depending on application, please allow a service factor for spring capacity.

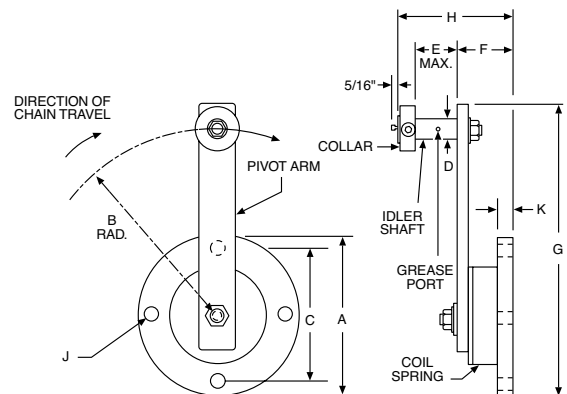
Springs are shot-peened for longer life.



### ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	2G	H	J	K	L	M	Wgt.
51BG	9	2	8-1/8	.875	1-3/4	2-1/2	11/32	1/2	5-3/8	4-1/4	3	1	1/2	5 Lb.
52BG	13	3	11-7/8	1.125	2-7/8	4	9/16	3/4	7-13/16	4-3/4	3-7/8	1-1/2	5/8	10 Lb.

### Series 60 Dimensions



### ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	2G	H	J	K	L	M	Wgt.
60BG	4	4-3/4	3-3/8	.500	1	1-3/8	7-3/8	—	2-7/8	9/32	1/4	—	—	2 Lb.
61BG	5-1/2	6	4-3/4	.875	1-3/4	1-7/8	9-1/2	—	4-1/4	13/32	5/16	—	—	5 Lb.

# Roller Chain Drive Tensioners

## Type HG Drive Positioners

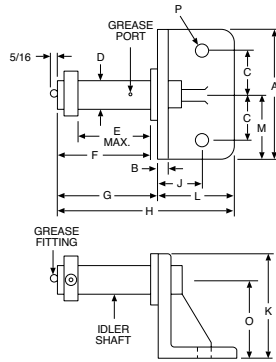


The Type HG is an angle-mounted positioner which can be mounted on any flat horizontal surface. Its variety of sizes provides advantages not enjoyed from competitive brands.

### ORDER BY CATALOG NUMBER OR ITEM CODE

Suggested Chain Number*	Catalog Number	Item Code
35, 40, 41	0-HG	48897
40, 50, 60	1-HG	48898
80, 100, 120	2-HG	48899

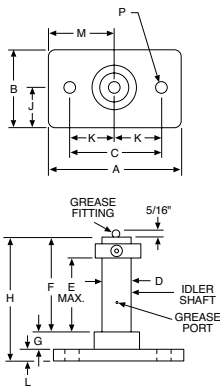
\*Single-strand chain. For multiple strand chain, use larger tensioner.



### ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H	J	K	L	M	O	P
0-HG	2-3/4	1/4	1	1/2	1	1-1/2	1-9/16	3-1/16	7/8	2	1-1/2	1--3/8	1-1/2	11/32
1-HG	4	5/16	1-1/2	7/8	1-3/4	2-3/8	2-15/32	4-15/32	1-1/8	3	2	2	2-1/16	13/32
2-HG	5	7/16	1-3/4	1-1/8	2-7/8	3-17/32	3-5/8	6-21/32	1-3/4	4	3	2-1/2	3	9/16

## Type UG Drive Positioners



The Type UG drive positioner is a fixed idler bracket which provides chain support. Available in a variety of sizes. Type UG positioners can be mounted on any flat, vertical surface.

### ORDER BY CATALOG NUMBER OR ITEM CODE

Suggested Chain Number*	Catalog Number	Item Code
35, 40, 41	0-UG	48893
40, 50, 60	1-UG	48894
80, 100, 120	2-UG	48895

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

### ALL DIMENSIONS IN INCHES

Size	A	B	C	D	E	F	G	H	J	K	L	M	P
0-UG	2-3/4	1-1/2	2	1/2	1	1-1/2	7/16	2-3/16	3/4	1	1/4	1-3/8	11/32
1-UG	4	2	3	7/8	1-3/4	2-3/8	9/16	3-1/4	1	1-1/2	5/16	2	13/32
2-UG	5	3	3-1/2	1-1/8	2-7/8	3-17/32	3/4	4-25/32	1-1/2	1-3/4	1/2	2-1/2	9/16



### SPUR GEARS

Nomenclature .....	306-307
Involute Form.....	308
Diametral Pitch / Pressure Angle / Tooth Dimensions.....	309
Backlash / Undercut / Formulas .....	310
Lewis Formula.....	311

### HELICAL GEARS

Nomenclature / Helix Angle.....	312
Formulas .....	313
Thrust Loads.....	314

### MITER & BEVEL GEARS

Nomenclature .....	315
Mounting Distance .....	316
Tooth Strength / Thrust .....	317

### WORMS & WORM GEARS

Hand / Efficiency / Thrust Loads.....	318
Formulas / Self-Locking.....	319

### COUPLING / UNIVERSAL JOINTS..... 320

### GENERAL INFORMATION

How To Figure Horsepower & Torque .....	321
Mountings / Alterations / Lubrication.....	322
Materials / Styles / Keyways & Setscrews.....	323
Sprockets, Sprocket Diameters .....	324-326
Horsepower & Torque Capacity of Shafting .....	327
Temperature Conversion Table.....	328
Equivalent Table .....	329
Metric Conversion Chart .....	330
Application Classifications .....	331-332

### INDEX TO CATALOG NUMBERS..... 333-334