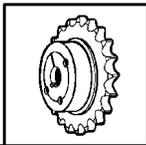


# SELECTION



## Roller Chain Drive Selection



### EASY SELECTION METHOD

1. Determine Class of Service: Refer to tabulation below, or select from the following:

Class A: Fairly uniform running load. Start-up and peak loads occur infrequently.

Class B: Variable running load. Higher starting and peak loads, occurring more frequently.

Class C: Heavy starting loads. Peak loads and overloads occurring frequently.

2. Select Service Factor:

Class of Service	Type of Input Power		
	Internal Combustion Engine with Hydraulic Drive	Electric or Turbine	Internal Combustion Engine with Mechanical Drive
A	1.0	1.0	1.2
B	1.2	1.3	1.4
C	1.4	1.5	1.7

3. Calculate Design Horsepower: Motor HP x Service Factor, or normal running HP x Service Factor.

4. Determine Chain Size and Smaller (Usually the Driver) sprocket number of teeth: Refer to "Recommended Smaller Sprocket" table on page PT12-30, PT12-31. Start at column that is at or above the calculated design HP. Trace down to the row that includes the RPM of the faster (Usually the Driver) shaft. The chain pitch and sprocket No. of Teeth are listed at this intersection.

5. Calculate Drive Ratio: Faster shaft Rpm divided by Slower shaft RPM.

6. Determine Size of Large Sprocket: Multiply smaller sprocket No. teeth by ratio. Select Closest stock available sprocket.

7. Calculate Chain Length "L":

$$L = 2c + 1.57 \cdot (D + d) + \frac{(D - d)^2}{4c}$$

Where: D = Pitch dia. large sprocket, (see page PT12-44)  
 d = Pitch dia. small sprocket, (see page PT12-44)  
 c = Proposed center distance  
 (Accuracy is within .15% chain length)

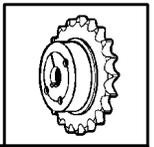
Divide chain length (inches) by chain pitch to determine number of pitches in the chain. Good practice is to use an even number of pitches, including connecting link.

### Class of Service for Driven Machine

Driven Machine	Class	Driven Machine	Class
Agitators, liquid or semi-liquid stock, paddle or propeller	A	Line Shafts:	
Bakery Machinery	B	Light or normal service	A
Beaters	B	Unevenly loaded	B
Blowers, Centrifugal	A	Machines, Non-Reversing:	
Boat Paddle Wheels or Propellers	C	Even load	A
Centrifuges	C	Pulsating load	B
Clay Working Machinery:		Impact load	C
Extruders, Granulators, Mixers, Pug Mills, Rolls	B	Mills:	
Briquette Machine, Presses	C	Ball, Pebble, Rod, Tube	B
Compressors:		Blooming, Hammer, Hardinge, Rolling	C
Centrifugal, Rotary	B	Paper Machinery:	
Reciprocating	C	Agitators, Calenders, Dryers, Jordan Engines, Paper Machines, Pulp Grinders	B
Conveyors:		Beaters, Chippers, Nash Pumps, Washers, Winder	
Uniformly or loaded	A	Drums, Yankee Dryers	C
Irregularly fed or loaded	B	Presses	C
Reciprocating	C	Printing Machinery	B
Cookers, Cereal	A	Pumps:	
Cranes	B	Centrifugal, Gear, Rotary	A
Crushers	C	Dredge	C
Elevators:		Reciprocating, 1 or 2 cylinder	C
Uniformly fed or loaded	A	Reciprocating, 3 or more cylinder	B
Irregularly fed or loaded	B	Rubber Plant Machinery:	
Fans:		Banbury Mills, Calenders, Mixers	C
Centrifugal	A	Screens:	
Mine, Positive Blowers, Propeller	C	Air Washing, Water	A
Feeders, Reciprocating	C	Rotary (Stone or Gravel), Vibrating	B
Flour, Feed or Cereal Mill Machinery	B	Textile Machinery:	
Generators	A	Batcher, Calender, Dry Can, Dyeing Machinery.	
Hogs for Refuse	C	Loom, Mangel, Napper, Soaper, Spinner, Tenter	
Kettles, Brew	A	Frame	B
Kilns and Dryers, rotary	B	Card Machine	C
Laundry Machinery	B	Woodworking Machinery	B

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# SELECTION



## SELECTION EXAMPLE

A chain drive is required for a tumbling barrel for metal stampings. The barrel is to run at 24 RPM from a speed reducer output of 77 RPM. Center distance is 50". Input power is from a 5 HP electric motor. Starting loads are heavy, peak loads and overloads are frequent.

1. Service Factor: Class of service is not listed in table, so refer to Class Description. Class C is appropriate. Service Factor Table shows 1.5 Class C driven by an electric motor.

2. Design HP: Motor HP x S.F.  $5 \times 1.5 = 7.5$  Design HP.

3. Chain and Small Sprocket Size: Refer to the 7-1/2 HP column of the Easy Selection Table. Trace down to the row that includes 77 RPM, "71-80 RPM". No. 100 chain and sprocket with 15 teeth is shown: select 100BTL15.

4. Drive Ratio:  $77/24 = 3.21:1$ .

5. Large Sprocket:  $15 \times 3.21 = 48.15$ . Select a 48 tooth driven sprocket, 100BTL48, which is a stock size.

6. Chain Length:

$$L = 2(50) + 1.57(19.113 + 6.013) + \frac{(19.113 - 6.013)^2}{4 \times 50}$$

$L = 140.31$ " (No.100 Chain has 1-1/4 or 1.25" Pitch)

Length in pitches =  $140.31/1.25 = 112.48$  pitches.

Choose 112 or 114 Pitches of chain, including Conn Link.

7. Verify that sprockets will fit shaft sizes.

## DESIGN NOTES

Small Sprocket Size: The higher RPM and the fewer the number of teeth on the small sprocket, the greater the wear.

This leads to some general guidelines:

- Use at least 17 teeth sprocket for 100+ RPM.
- Avoid high ratios that require very small sprockets

Lubrication: Chain drives must be lubricated and kept clean. The most effective method to accomplish this is to use an oil-tight chain guard with an oil sump. Manual lubrication is effective on slower speed drives, but exposure to dirt and contamination will be a problem for the drive.

Design Refinement: The "Easy Selection Method" is a good starting point for further design refinement, if desired. Refer to the Chain HP Rating Tables on the following pages for more precise ratings. also refer to "Slow Speed Drives" which follows this section.

## SLOW SPEED DRIVES

Where linear speed of the chain is under 100 fpm and loading is uniform, roller chain drives may be selected on the basis of chain pull rather than horsepower rating. This often results in significant savings.

When chain length is more than 50 pitches, the maximum applied load may be as great as 1/7 of the ultimate tensile strength of the chain for speeds below 50 fpm to 100 fpm.

Unusual load variations of peak loads require other methods of determining the maximum applied load.

Chain pull may be calculated by the following formula:

$$\text{Chain Pull (lbs.)} = \frac{\text{Design hp} \times 126,000}{\text{rpm} \times \text{pitch diam.}}$$

Table below offers a simplified method of determining allowable chain pull for slow speed drives. The table also shows revolutions per minute for a given pitch diameter at 50 and 100 feet per minute. Average tensile strength for all popular roller chain is given on PT12-45.

### Information for Slow Speed Drives

Chain No.	Allowable Chain Pull for STD. Chain		RPM for a Given Pitch Diam. at Various Speeds		
	Max. Chain Pull		P.D. in inches	@ 50 fpm	@ 100 fpm
	@ 50 fpm or less	@ 50-100 fpm		RPM	RPM
40	528	462	2	95.0	191.0
50	871	762	3	63.6	127.2
60	1214	1062	4	47.7	95.5
80	2071	1812	5	38.2	76.4
100	3428	3000	6	31.8	63.7
120	4857	4250	7	27.3	54.6
140	6571	5750	8	23.9	47.8
160	8285	7250	9	21.2	42.4
180	11,428	10,000	10	19.1	38.2
200	13,571	11,875	11	17.3	34.7
240	18,571	16,250	12	15.9	31.8

**Note**: Smaller sprockets can be used on slow speed drives as the effects of chordal action are not pronounced. However, small sprockets of fewer than 9 teeth should be avoided.

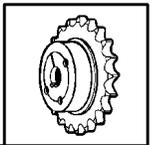
## MULTIPLE STRAND CHAIN DRIVES

Single Strand drives offer cost and availability advantages, and are more easily assembled. Multiple strand drives can be used to solve design problems of greater HP capacity or space constraints. For multiple strand drives, divide the calculated Design HP by the factors below, and select from the ratings for single strand drives:

Multiple Strand Factors	
Single:	1.0
Double	1.9
Triple:	2.8

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# SELECTION



## Easy Selection Table

### RECOMMENDED SMALL SPROCKET

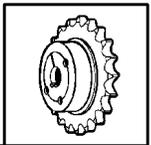
RPM of small Sprocket	Chain Size and No. of Teeth for Design HP																							
	1/4		1/3		1/2		3/4		1		1 - 1/2		2		3		4		5		6		7 - 1/2	
951-1000	35	17	35	17	35	17	35	17	35	17	35	17	35	17	35	23	40	17	40	17	40	20	40	24
901-950	35	17	35	17	35	17	35	17	35	17	35	17	35	17	35	24	40	17	40	18	40	21	40	25
851-900	35	17	35	17	35	17	35	17	35	17	35	17	35	17	35	24	40	17	40	18	40	22	50	17
801-850	35	17	35	17	35	17	35	17	35	17	35	17	35	18	40	17	40	17	40	19	40	23	50	17
751-800	35	17	35	17	35	17	35	17	35	17	35	17	35	19	40	17	40	17	40	20	40	24	50	17
701-750	35	17	35	17	35	17	35	17	35	17	35	17	35	20	40	17	40	18	40	22	40	25	50	17
651-700	35	17	35	17	35	17	35	17	35	17	35	17	35	22	40	17	40	19	40	23	50	17	50	18
601-650	35	17	35	17	35	17	35	17	35	17	35	18	35	23	40	17	40	20	40	24	50	17	50	19
551-600	35	17	35	17	35	17	35	17	35	17	35	19	40	17	40	17	40	21	50	17	50	17	50	21
501-550	35	17	35	17	35	17	35	17	35	17	35	21	40	17	40	17	40	23	50	17	50	18	50	22
471-500	35	17	35	17	35	17	35	17	35	17	35	22	40	17	40	17	40	24	50	17	50	19	50	24
441-470	35	17	35	17	35	17	35	17	35	17	35	23	40	17	40	17	50	17	50	17	50	20	50	25
411-440	35	17	35	17	35	17	35	17	35	17	40	17	40	17	40	21	50	17	50	18	50	22	60	17
381-410	35	17	35	17	35	17	35	17	35	17	40	17	40	17	40	22	50	17	50	19	50	23	60	17
351-380	35	17	35	17	35	17	35	17	35	17	40	17	40	17	40	24	50	17	50	21	50	24	60	18
321-350	35	17	35	17	35	17	35	17	35	17	40	17	40	18	50	17	50	18	50	22	60	17	60	20
301-320	35	17	35	17	35	17	35	17	35	17	40	17	40	19	50	17	50	19	50	23	60	17	60	21
281-300	35	17	35	17	35	17	35	17	35	17	40	17	40	19	50	17	50	20	50	25	60	18	60	22
261-280	35	17	35	17	35	17	35	17	35	17	40	17	40	19	50	17	50	22	60	17	60	19	60	23
241-260	35	17	35	17	35	17	35	17	35	17	40	17	40	19	50	18	50	23	60	17	60	20	80	17
221-240	35	17	35	17	35	17	35	17	35	17	40	19	40	24	50	19	50	25	60	19	60	22	80	17
201-220	35	17	35	17	35	17	35	17	35	17	40	20	50	17	50	21	60	17	60	20	60	24	80	17
181-200	35	17	35	17	35	18	35	17	35	17	40	22	50	17	50	23	60	18	60	22	60	26	80	17
161-180	35	17	35	17	35	20	40	18	35	17	40	24	50	17	50	25	60	20	60	24	80	17	80	17
151-160	35	17	35	17	35	21	40	18	35	17	50	17	50	18	60	17	60	21	60	25	80	17	80	17
141-150	35	15	35	15	35	22	40	18	40	15	50	17	50	19	60	17	60	22	80	17	80	17	80	18
131-140	35	15	35	15	35	23	40	18	40	15	50	17	50	20	60	18	60	23	80	17	80	17	80	19
121-130	35	15	35	15	40	13	40	18	40	15	50	17	50	22	60	19	60	25	80	17	80	17	80	20
111-120	35	15	35	15	40	13	40	18	40	15	50	18	50	22	60	20	80	15	80	17	80	18	80	22
101-110	35	15	35	15	40	15	40	18	50	15	50	19	60	15	80	15	80	15	80	16	80	19	100	15
91-100	35	15	35	15	40	15	40	15	40	17	50	15	50	18	60	17	80	15	80	18	100	15	100	15
81-90	35	15	35	15	40	15	40	15	50	15	50	15	50	18	60	18	80	15	80	15	80	16	100	15
71-80	35	15	35	17	40	15	40	16	50	15	50	18	60	14	80	15	80	15	80	16	100	15	100	15
61-70	35	15	35	19	40	15	40	19	50	15	60	15	60	16	80	15	80	15	80	18	100	15	100	15
51-60	35	17	40	13	40	15	50	13	50	15	60	15	60	19	80	15	80	17	100	15	100	15	100	16
46-50	40	13	40	13	40	16	50	13	50	16	60	14	80	13	80	13	100	13	100	13	100	14	100	17
41-45	40	13	40	13	40	18	50	16	60	13	60	16	80	13	80	14	100	13	100	13	100	16	120	13
35-40	40	13	40	14	50	13	50	16	60	13	60	19	80	13	80	17	100	13	100	14	100	18	120	14
30-35	40	13	40	16	50	13	50	18	60	15	80	13	80	13	80	19	100	13	100	16	120	13	120	14
23-29	40	14	50	13	50	16	60	14	60	19	80	13	80	17	100	13	100	16	120	14	120	15	120	18
17-22	50	13	50	14	60	13	60	19	80	13	80	17	100	13	100	17	120	13	120	16	140	13	140	16
12-16	50	15	60	13	60	18	80	13	80	16	100	13	100	16	120	14	120	18	140	15	140	17	160	15
8-11	60	14	60	18	80	13	80	18	100	13	100	17	120	14	140	13	140	17	160	15	160	18	180	18
5-7	80	13	80	13	100	13	100	13	100	18	120	17	140	14	180	15	180	14	200	13	200	15	240	13

Notes:

1. Apply Service Factor to obtain Design Horsepower. Select small sprocket based upon Design Horsepower and RPM on this chart.
2. Sprocket selections are recommended minimum. Larger sizes may be selected if required to obtain desired ratio, etc.
3. To use this chart for double or triple strand chain, divide the design horsepower by the following factors: Double strand: 1.9, Triple strand: 2.9

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# SELECTION



## Easy Selection Table

### RECOMMENDED SMALL SPROCKET

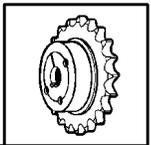
RPM of small Sprocket	Chain Size and No. of Teeth for Design HP													
	9	10	12	15	20	25	30	40	50	60	70	80	90	100
951-1000	50 17	50 17	50 20	60 17	60 20	60 24	80 17	80 18						
901-950	50 17	50 18	50 21	60 17	60 21	80 17	80 17	80 18						
851-900	50 17	50 19	50 22	60 17	60 17	80 17	80 17	80 19						
801-850	50 18	50 20	50 23	60 17	60 23	80 17	80 17	80 20						
751-800	50 19	50 21	60 16	60 18	60 24	80 17	80 17	80 21						
701-750	50 20	50 22	60 17	60 19	60 25	80 17	80 17	80 22	100 17					
651-700	50 21	50 24	60 17	60 21	80 17	80 17	80 18	80 23	100 17					
601-650	50 23	60 16	60 18	60 22	80 17	80 17	80 19	100 17	100 17					
551-600	50 24	60 17	60 19	60 24	80 17	80 18	80 21	100 17	100 18					
501-550	60 17	60 18	60 21	80 17	80 17	80 19	80 22	100 17	100 20					
471-500	60 17	60 19	60 22	80 17	80 17	80 20	80 23	100 17	100 21	100 24	120 17			
441-470	60 18	60 20	60 23	80 17	80 17	80 21	100 17	100 18	100 22	120 17	120 18			
411-440	60 19	60 21	80 16	80 17	80 18	80 22	100 17	100 19	120 17	120 17	120 21			
381-410	60 20	60 22	80 17	80 17	80 19	80 24	100 17	100 20	120 17	120 18	120 21			
351-380	60 22	60 24	80 17	80 17	80 21	100 17	100 17	100 21	120 18	120 19	140 17			
321-350	60 23	80 17	80 17	80 17	80 22	100 17	100 18	100 24	120 19	120 21	140 17	140 18	140 21	
301-320	80 17	80 17	80 17	80 18	80 23	100 17	100 19	100 24	120 21	140 17	140 17	140 19	140 21	
281-300	80 17	80 17	80 17	80 19	100 17	100 17	100 20	120 17	120 21	140 17	140 18	140 21	160 17	
261-280	80 17	80 17	80 17	80 20	100 17	100 18	100 21	120 17	120 21	140 17	140 19	160 17	160 17	
241-260	80 17	80 17	80 18	80 22	100 17	100 19	100 22	120 18	140 17	140 17	140 21	160 18	160 18	160 20
221-240	80 17	80 17	80 19	80 23	100 17	100 20	100 24	120 21	140 17	140 19	160 17	160 18	160 20	160 22
201-220	80 17	80 17	80 20	100 17	100 18	100 22	120 17	120 21	140 17	160 17	160 17	160 19	180 17	160 23
181-200	80 17	80 19	80 22	100 17	100 20	100 24	120 18	140 17	140 19	160 18	160 18	160 20	180 18	180 18
161-180	80 19	80 21	80 25	100 17	100 22	120 17	120 21	140 17	140 21	160 19	160 21	180 17	180 19	180 21
151-160	80 20	80 22	100 17	100 18	100 24	120 17	120 21	140 18	160 19	160 19	160 21	180 18	180 20	200 17
141-150	80 21	100 15	100 17	100 19	100 24	120 18	140 16	140 19	160 19	160 21	180 17	180 19	200 16	200 17
131-140	80 22	100 15	100 17	100 20	120 17	120 21	140 17	140 21	160 19	160 21	180 18	180 19	200 18	200 19
121-130	80 24	100 16	100 17	100 21	120 18	120 21	140 17	140 21	160 19	180 17	180 19	200 17	200 19	200 21
111-120	100 15	100 17	100 18	100 24	120 19	120 21	140 18	160 17	160 21	180 18	180 21	200 18	200 20	200 23
101-110	100 15	100 17	120 15	120 15	140 15	140 16	140 19	160 17	180 16	180 19	200 17	200 19	200 21	240 18
91-100	100 17	100 20	120 15	120 18	140 16	140 19	160 16	160 19	180 19	200 16	200 18	200 21	240 15	240 18
81-90	100 18	100 15	120 16	120 18	140 17	140 19	160 17	160 21	200 15	200 18	200 21	200 23	240 18	240 18
71-80	100 15	120 15	120 18	120 18	140 18	160 15	160 18	180 17	200 17	200 19	240 15	240 16	240 19	240 20
61-70	100 16	120 18	120 19	140 15	160 15	160 19	180 15	200 15	200 19	240 15	240 17	240 19	240 21	240 23
51-60	100 19	120 15	120 15	140 18	160 16	180 15	180 18	200 18	240 15	240 17	240 19	240 22	240 25	240 26
46-50	120 13	120 14	120 16	140 13	160 13	180 16	200 15	200 19	240 15	240 18	240 20	240 24	....	....
41-45	120 14	120 15	120 18	140 15	160 14	180 14	200 16	200 21	240 17	240 20	240 23	240 26	....	....
35-40	120 16	120 18	140 14	140 17	160 16	180 13	180 15	240 15	240 19	240 23	240 26	....	....	....
30-35	120 19	140 13	140 16	160 14	160 18	180 15	180 18	240 13	240 21	240 25	....	....	....	....
23-29	140 14	140 15	160 13	160 18	180 16	200 15	200 17	240 14	240 18	240 27	....	....	....	....
17-22	160 13	160 15	180 13	180 16	200 16	240 13	240 13	240 15	240 24	....	....	....	....	....
12-16	160 18	180 13	180 16	200 15	240 13	240 15	240 21	240 27	....	....	....	....	....	....
8-11	200 13	200 15	200 18	240 14	240 18	240 23	....	....	....	....	....	....	....	....
5-7	240 13	240 15	240 17	240 22	240 29	....	....	....	....	....	....	....	....	....

4. Sprocket selections above the bold line are based upon ANSI horsepower ratings. Selections below the bold line are based upon the chain pull formula for slow speed drives.

5. To achieve design life keep chain free of dirt and contaminants, and apply appropriate lubrication.

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# SELECTION



## Basic Horsepower Ratings

35

3/8" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	50	75	100	150	200	250	300	400	500	600	700	800	900	1000	1200	1500	1800	2100	2500	3000	3500	4000
9	0.08	0.12	0.15	0.21	0.27	0.33	0.39	0.50	0.62	0.73	0.84	0.95	1.06	1.21	1.37	1.68	1.98	2.27	2.65	2.17	1.73	1.41
10	0.09	0.13	0.16	0.23	0.30	0.37	0.44	0.57	0.70	0.82	0.95	0.98	1.02	1.28	1.54	1.88	2.21	2.54	2.97	2.55	2.02	1.65
11	0.10	0.14	0.18	0.26	0.34	0.41	0.49	0.63	0.77	0.91	1.05	1.18	1.31	1.51	1.70	2.08	2.45	2.82	3.30	2.94	2.33	1.91
12	0.11	0.16	0.20	0.28	0.37	0.46	0.54	0.70	0.85	1.00	1.15	1.30	1.44	1.66	1.87	2.29	2.70	3.10	3.62	3.35	2.66	2.17
13	0.01	0.12	0.22	0.31	0.41	0.50	0.59	0.76	0.93	1.10	1.26	1.42	1.57	1.81	2.04	2.49	2.94	3.38	3.95	3.77	3.00	2.45
14	0.13	0.19	0.24	0.34	0.44	0.53	0.63	0.82	1.01	1.19	1.36	1.54	1.71	1.96	2.21	2.70	3.18	3.66	4.28	4.22	3.35	2.74
15	0.14	0.20	0.25	0.36	0.47	0.57	0.68	0.88	1.08	1.28	1.47	1.66	1.84	2.11	2.38	2.91	3.43	3.94	4.61	4.68	3.71	3.04
16	0.15	0.21	0.27	0.39	0.50	0.62	0.73	0.95	1.16	1.37	1.57	1.77	1.97	2.26	2.55	3.12	3.68	4.22	4.94	5.15	4.09	3.35
17	0.16	0.23	0.29	0.41	0.54	0.66	0.78	1.01	1.24	1.46	1.68	1.89	2.10	2.42	2.73	3.33	3.93	4.51	5.28	5.64	4.48	3.67
18	0.17	0.24	0.31	0.44	0.57	0.70	0.83	1.08	1.32	1.55	1.78	2.01	2.24	2.57	2.90	3.45	4.18	4.80	5.61	6.15	4.88	3.99
19	0.18	0.26	0.33	0.47	0.61	0.74	0.88	1.14	1.40	1.65	1.89	2.13	2.37	2.70	3.02	3.76	4.43	5.09	5.95	6.67	5.29	4.33
20	0.19	0.27	0.35	0.50	0.64	0.78	0.93	1.21	1.48	1.74	2.00	2.26	2.51	2.88	3.25	3.97	4.68	5.38	6.29	7.20	5.72	4.68
21	0.20	0.29	0.37	0.52	0.68	0.83	0.98	1.27	1.56	1.84	2.11	2.38	2.64	3.03	3.42	4.19	4.93	5.67	6.63	7.75	6.15	5.03
22	0.21	0.30	0.38	0.54	0.71	0.87	1.03	1.34	1.64	1.93	2.22	2.50	2.78	3.19	3.60	4.40	5.19	5.96	6.97	8.21	6.59	5.40
23	0.22	0.31	0.40	0.57	0.74	0.91	1.08	1.40	1.72	2.03	2.33	2.63	2.92	3.35	3.78	4.62	5.44	6.25	7.31	8.62	7.05	5.77
24	0.23	0.33	0.42	0.60	0.78	0.96	1.14	1.47	1.80	2.12	2.44	2.75	3.05	3.51	3.96	4.84	5.70	6.55	7.66	9.02	7.51	6.15
25	0.24	0.34	0.44	0.63	0.82	1.00	1.19	1.54	1.88	2.21	2.55	2.87	3.19	3.66	4.13	5.05	5.95	6.84	8.00	9.43	7.99	6.54
26	0.25	0.36	0.46	0.66	0.85	1.05	1.24	1.60	1.96	2.31	2.66	3.00	3.33	3.82	4.31	5.27	6.21	7.13	8.35	9.84	8.47	6.93
28	0.27	0.39	0.50	0.71	0.92	1.13	1.34	1.73	2.12	2.50	2.88	3.25	3.61	4.14	4.67	5.71	6.73	7.73	9.05	10.7	9.47	7.75
30	0.29	0.42	0.54	0.77	1.00	1.22	1.45	1.87	2.29	2.70	3.10	3.50	3.89	4.46	5.03	6.15	7.25	8.33	9.74	11.5	10.5	8.59
32	0.31	0.45	0.58	0.83	1.07	1.31	1.56	2.01	2.45	2.88	3.32	3.75	4.17	4.79	5.40	6.60	7.77	8.93	10.0	12.3	11.6	9.47
35	0.33	0.49	0.64	0.91	1.18	1.44	1.71	2.21	2.70	3.18	3.66	4.08	4.50	5.23	5.96	7.27	8.56	9.84	11.5	13.6	13.2	10.8
40	0.39	0.56	0.73	1.04	1.35	1.66	1.97	2.55	3.12	3.68	4.23	4.77	5.30	6.09	6.87	8.40	9.89	11.4	13.3	15.7	16.2	13.2
45	0.45	0.64	0.83	1.18	1.54	1.89	2.24	2.90	3.55	4.18	4.80	5.41	6.02	6.91	7.80	9.53	11.2	12.9	15.1	17.8	19.3	15.8
	TYPE A							TYPE B							TYPE C							

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1/2" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800
9	0.02	0.05	0.10	0.14	0.19	0.28	0.36	0.44	0.51	0.59	0.66	0.74	0.81	0.96	1.10	1.24	1.38	1.52	1.27	1.01	0.82	0.69
10	0.03	0.06	0.11	0.16	0.21	0.31	0.40	0.49	0.57	0.66	0.74	0.83	0.91	1.07	1.23	1.39	1.54	1.70	1.49	1.18	0.96	0.81
11	0.03	0.07	0.13	0.19	0.24	0.34	0.44	0.54	0.64	0.73	0.82	0.92	1.01	1.19	1.37	1.54	1.71	1.88	1.71	1.36	1.11	0.93
12	0.03	0.07	0.14	0.20	0.26	0.38	0.49	0.60	0.70	0.81	0.91	1.01	1.11	1.31	1.50	1.69	1.88	2.07	1.95	1.55	1.27	1.06
13	0.03	0.08	0.15	0.22	0.28	0.40	0.53	0.64	0.76	0.88	0.99	1.10	1.21	1.42	1.63	1.84	2.05	2.25	2.20	1.75	1.43	1.20
14	0.03	0.09	0.16	0.24	0.31	0.44	0.57	0.70	0.83	0.95	1.07	1.19	1.31	1.54	1.77	2.00	2.22	2.44	2.46	1.95	1.60	1.34
15	0.04	0.09	0.18	0.26	0.33	0.48	0.62	0.76	0.89	1.02	1.15	1.28	1.41	1.66	1.91	2.15	2.39	2.63	2.73	2.17	1.77	1.49
16	0.04	0.10	0.19	0.28	0.36	0.51	0.66	0.81	0.95	1.10	1.24	1.38	1.51	1.78	2.05	2.31	2.57	2.82	3.01	2.39	1.95	1.64
17	0.05	0.11	0.20	0.29	0.38	0.55	0.71	0.87	1.02	1.17	1.32	1.47	1.61	1.89	2.18	2.46	2.74	3.01	3.29	2.61	2.14	1.79
18	0.05	0.12	0.22	0.31	0.40	0.58	0.75	0.92	1.08	1.24	1.40	1.56	1.72	2.02	2.32	2.62	2.91	3.20	3.59	2.85	2.33	1.95
19	0.05	0.12	0.23	0.33	0.43	0.62	0.80	0.98	1.15	1.32	1.49	1.65	1.82	2.14	2.46	2.78	3.09	3.40	3.89	3.09	2.53	2.12
20	0.06	0.13	0.24	0.35	0.45	0.65	0.84	1.03	1.21	1.39	1.57	1.75	1.92	2.26	2.60	2.93	3.26	3.59	4.20	3.33	2.73	2.29
21	0.06	0.14	0.26	0.37	0.48	0.69	0.89	1.09	1.28	1.47	1.66	1.85	2.03	2.39	2.74	3.09	3.44	3.78	4.46	3.59	2.94	2.46
22	0.06	0.14	0.27	0.39	0.50	0.72	0.93	1.14	1.35	1.55	1.74	1.94	2.13	2.51	2.89	3.26	3.62	3.98	4.69	3.85	3.15	2.64
23	0.06	0.15	0.28	0.41	0.53	0.76	0.98	1.20	1.41	1.62	1.83	2.04	2.24	2.64	3.03	3.42	3.80	4.17	4.92	4.11	3.37	2.82
24	0.07	0.16	0.29	0.42	0.55	0.79	1.03	1.26	1.48	1.70	1.92	2.13	2.34	2.76	3.17	3.57	3.97	4.37	5.15	4.38	3.59	3.01
25	0.07	0.17	0.31	0.44	0.57	0.82	1.07	1.31	1.55	1.77	2.00	2.23	2.45	2.88	3.31	3.73	4.15	4.57	5.38	4.66	3.81	3.20
26	0.07	0.17	0.32	0.46	0.60	0.86	1.12	1.37	1.61	1.85	2.09	2.32	2.55	3.01	3.46	3.90	4.33	4.76	5.61	4.94	4.05	3.39
28	0.08	0.19	0.35	0.50	0.65	0.93	1.21	1.48	1.75	2.01	2.26	2.52	2.77	3.26	3.74	4.22	4.69	5.16	6.08	5.52	4.52	3.79
30	0.08	0.20	0.38	0.54	0.70	1.00	1.31	1.60	1.88	2.16	2.44	2.71	2.98	3.51	4.03	4.55	5.06	5.56	6.55	6.13	5.01	4.20
32	0.09	0.22	0.40	0.58	0.75	1.08	1.40	1.71	2.02	2.32	2.61	2.91	3.20	3.77	4.33	4.88	5.42	5.96	7.03	6.75	5.52	4.63
35	0.10	0.24	0.44	0.64	0.83	1.19	1.54	1.88	2.22	2.55	2.88	3.20	3.52	4.14	4.76	5.37	5.97	6.57	7.74	7.72	6.32	5.29
40	0.12	0.27	0.51	0.74	0.96	1.37	1.78	2.18	2.57	2.95	3.33	3.70	4.07	4.79	5.50	6.20	6.90	7.59	8.94	9.43	7.72	6.47
45	0.14	0.31	0.58	0.83	1.08	1.55	2.02	2.47	2.92	3.35	3.78	4.20	4.62	5.44	6.25	7.05	7.84	8.62	10.2	11.3	9.21	7.72
	TYPE A							TYPE B							TYPE C							

**Lubrication Note:**

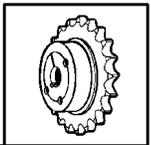
- TYPE A: Manual or Drip
- TYPE B: Bath or Disc
- TYPE C: Oil Stream

**Multiple Strand Chain HP Factors:**

Single Strand	1.0
Double Strand	1.9
Triple Strand	2.8

FEATURES/BENEFITS PAGE PT12-2	SPECIFICATIONS PAGES PT12-3 - PT12-27	RELATED PRODUCTS PAGES PT12-40 - PT12-42	ENGINEERING/TECHNICAL PAGES PT12-43 - PT12-46
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# SELECTION



## Basic Horsepower Ratings

**40**

1/2" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800
9	0.04	0.10	0.19	0.27	0.35	0.50	0.65	0.79	0.93	1.07	1.21	1.35	1.48	1.74	2.00	2.26	2.51	2.75	3.25	3.73	4.12	3.45
10	0.05	0.11	0.21	0.30	0.38	0.56	0.73	0.89	1.04	1.20	1.35	1.50	1.65	1.95	2.24	2.53	2.81	3.09	3.64	4.18	4.71	4.04
11	0.05	0.12	0.23	0.33	0.43	0.62	0.80	0.98	1.16	1.33	1.50	1.67	1.83	2.16	2.48	2.80	3.11	3.42	4.03	4.63	5.22	4.66
12	0.06	0.14	0.25	0.36	0.47	0.68	0.88	1.08	1.27	1.46	1.65	1.83	2.01	2.37	2.73	3.08	3.42	3.76	4.43	5.09	5.74	5.31
13	0.06	0.15	0.28	0.40	0.52	0.74	0.96	1.17	1.39	1.60	1.80	2.00	2.20	2.59	2.97	3.35	3.73	4.10	4.83	5.55	6.26	5.99
14	0.07	0.16	0.30	0.43	0.56	0.80	1.04	1.27	1.50	1.73	1.95	2.16	2.38	2.80	3.22	3.63	4.04	4.44	5.23	6.01	6.78	6.70
15	0.07	0.17	0.32	0.46	0.60	0.86	1.12	1.37	1.62	1.86	2.10	2.33	2.56	3.02	3.47	3.91	4.35	4.78	5.64	6.47	7.30	7.43
16	0.08	0.19	0.35	0.50	0.65	0.93	1.20	1.47	1.74	2.00	2.25	2.50	2.75	3.24	3.72	4.19	4.66	5.13	6.04	6.94	7.83	8.18
17	0.09	0.20	0.37	0.53	0.69	0.99	1.29	1.57	1.85	2.13	2.40	2.67	2.93	3.45	3.97	4.48	4.98	5.48	6.45	7.41	8.36	8.96
18	0.09	0.21	0.39	0.56	0.73	1.05	1.37	1.66	1.95	2.25	2.55	2.84	3.12	3.67	4.22	4.76	5.30	5.82	6.86	7.88	8.89	9.76
19	0.10	0.22	0.42	0.60	0.78	1.12	1.45	1.77	2.09	2.40	2.71	3.01	3.31	3.90	4.48	5.05	5.62	6.17	7.27	8.4	9.4	10.5
20	0.11	0.24	0.44	0.63	0.82	1.17	1.53	1.87	2.21	2.54	2.86	3.18	3.50	4.12	4.73	5.34	5.94	6.53	7.69	8.8	10.0	11.1
21	0.11	0.25	0.46	0.67	0.87	1.25	1.62	1.98	2.33	2.68	3.02	3.36	3.69	4.34	4.99	5.63	6.26	6.88	8.11	9.3	10.5	11.7
22	0.12	0.26	0.49	0.70	0.91	1.31	1.70	2.08	2.45	2.81	3.17	3.53	3.88	4.57	5.25	5.92	6.58	7.23	8.52	9.8	11.0	12.3
23	0.13	0.27	0.51	0.74	0.96	1.37	1.78	2.18	2.57	2.95	3.33	3.70	4.07	4.79	5.51	6.21	6.90	7.59	8.94	10.3	11.6	12.9
24	0.13	0.29	0.54	0.77	1.00	1.43	1.87	2.28	2.69	3.09	3.48	3.87	4.26	5.01	5.8	6.5	7.2	8.0	9.4	10.8	12.1	13.5
25	0.14	0.30	0.56	0.80	1.05	1.50	1.95	2.38	2.81	3.22	3.64	4.05	4.45	5.24	6.0	6.8	7.6	8.3	9.8	11.2	12.7	14.1
26	0.15	0.31	0.58	0.84	1.09	1.57	2.04	2.49	2.93	3.37	3.80	4.22	4.64	5.46	6.3	7.1	7.9	8.7	10.2	11.7	13.2	14.7
28	0.16	0.34	0.63	0.91	1.18	1.69	2.20	2.69	3.18	3.64	4.11	4.57	5.03	5.92	6.8	7.7	8.5	9.4	11.1	12.7	14.3	15.9
30	0.16	0.37	0.68	0.98	1.27	1.83	2.38	2.90	3.42	3.93	4.43	4.93	5.42	6.38	7.3	8.3	9.2	10.1	11.9	13.7	15.4	17.2
32	0.17	0.39	0.73	1.05	1.36	1.96	2.55	3.11	3.67	4.21	4.75	5.28	5.81	6.84	7.9	8.9	9.9	10.8	12.8	14.7	16.5	18.4
35	0.19	0.43	0.81	1.16	1.50	2.16	2.81	3.43	4.04	4.64	5.24	5.82	6.40	7.53	8.7	9.8	10.9	11.9	14.1	16.2	18.2	20.3
40	0.22	0.50	0.93	1.34	1.74	2.49	3.24	3.95	4.67	5.36	6.05	6.72	7.39	8.70	10.0	11.3	12.5	13.8	16.3	18.7	21.1	23.4
45	0.25	0.57	1.06	1.52	1.97	2.83	3.68	4.49	5.30	6.09	6.87	7.64	8.40	9.90	11.4	12.8	14.2	15.7	18.5	21.2	23.9	26.6
	TYPE A										TYPE B						TYPE C					

**50**

5/8" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800
9	0.09	0.19	0.36	0.52	0.67	0.97	1.26	1.53	1.81	2.08	2.35	2.61	2.87	3.38	3.89	4.39	4.88	5.36	6.32	6.02	4.92	4.13
10	0.10	0.22	0.41	0.58	0.76	1.09	1.41	1.72	2.03	2.33	2.63	2.93	3.22	3.79	4.36	4.91	5.46	6.01	7.08	7.05	5.77	4.83
11	0.11	0.24	0.45	0.65	0.84	1.20	1.56	1.91	2.25	2.59	2.92	3.25	3.57	4.20	4.83	5.45	6.06	6.66	7.85	8.13	6.65	5.58
12	0.12	0.26	0.49	0.71	0.92	1.32	1.72	2.10	2.47	2.84	3.21	3.57	3.92	4.62	5.31	5.98	6.65	7.31	8.62	9.26	7.58	6.35
13	0.13	0.29	0.54	0.77	1.00	1.44	1.87	2.29	2.70	3.10	3.50	3.89	4.27	5.03	5.78	6.52	7.25	8.0	9.4	10.4	8.6	7.2
14	0.14	0.31	0.58	0.84	1.09	1.56	2.03	2.48	2.92	3.36	3.79	4.21	4.63	5.45	6.27	7.07	7.86	8.6	10.2	11.7	9.6	8.0
15	0.15	0.34	0.63	0.90	1.17	1.68	2.19	2.67	3.15	3.62	4.08	4.54	4.99	5.87	6.75	7.61	8.47	9.3	11.0	12.6	10.6	8.9
16	0.16	0.36	0.67	0.97	1.26	1.80	2.34	2.86	3.38	3.88	4.37	4.86	5.35	6.30	7.24	8.16	9.08	10.0	11.8	13.5	11.7	9.8
17	0.17	0.39	0.72	1.03	1.34	1.92	2.50	3.06	3.61	4.14	4.67	5.19	5.71	6.72	7.73	8.71	9.69	10.7	12.6	14.4	12.8	10.7
18	0.18	0.41	0.76	1.10	1.43	2.05	2.66	3.25	3.83	4.40	4.97	5.52	6.07	7.15	8.22	9.3	10.3	11.3	13.4	15.3	13.9	11.7
19	0.19	0.43	0.81	1.16	1.51	2.15	2.82	3.45	4.07	4.67	5.27	5.86	6.44	7.58	8.72	9.8	10.9	12.0	14.2	16.3	15.1	12.7
20	0.20	0.46	0.86	1.23	1.60	2.29	2.98	3.64	4.30	4.94	5.57	6.19	6.80	8.01	9.21	10.4	11.5	12.7	15.0	17.2	16.3	13.7
21	0.21	0.48	0.90	1.30	1.69	2.42	3.14	3.84	4.53	5.20	5.87	6.52	7.17	8.44	9.71	11.0	12.2	13.4	15.8	18.1	17.6	14.7
22	0.22	0.51	0.95	1.36	1.77	2.54	3.31	4.03	4.76	5.47	6.17	6.86	7.54	8.9	10.2	11.5	12.8	14.1	16.6	19.1	18.8	15.8
23	0.23	0.53	1.00	1.43	1.86	2.67	3.47	4.24	5.00	5.74	6.47	7.19	7.91	9.3	10.7	12.0	13.4	14.8	17.4	20.0	20.1	16.9
24	0.25	0.56	1.04	1.50	1.95	2.79	3.63	4.43	5.23	6.01	6.78	7.54	8.29	9.7	11.2	12.7	14.1	15.5	18.2	20.9	21.4	18.0
25	0.26	0.58	1.09	1.56	2.03	2.92	3.80	4.64	5.47	6.28	7.08	7.87	8.66	10.2	11.7	13.2	14.7	16.2	19.0	21.9	22.8	19.1
26	0.27	0.61	1.14	1.63	2.12	3.04	3.96	4.83	5.70	6.55	7.39	8.21	9.03	10.6	12.2	13.8	15.3	16.9	19.9	22.8	24.2	20.3
28	0.29	0.66	1.23	1.77	2.30	3.30	4.29	5.24	6.18	7.10	8.01	8.90	9.79	11.5	13.2	14.9	16.6	18.3	21.5	24.7	27.0	22.6
30	0.31	0.71	1.33	1.90	2.48	3.55	4.62	5.64	6.66	7.65	8.6	9.6	10.5	12.4	14.3	16.1	17.9	19.7	23.2	26.6	30.0	25.1
32	0.33	0.76	1.42	2.04	2.66	3.81	4.96	6.05	7.14	8.20	9.3	10.3	11.3	13.3	15.3	17.3	19.2	21.1	24.9	28.6	32.2	27.7
35	0.37	0.84	1.57	2.25	2.93	4.20	5.46	6.66	7.86	9.03	10.2	11.4	12.5	14.7	16.9	19.0	21.1	23.2	27.4	31.5	35.5	31.6
40	0.43	0.97	1.81	2.60	3.38	4.85	6.31	7.70	9.1	10.4	11.8	13.1	14.4	17.0	19.5	22.0	24.4	26.8	31.6	36.3	41.0	38.7
45	0.48	1.10	2.06	2.95	3.84	5.50	7.16	8.73	10.3	11.9	13.4	14.9	16.3	19.2	22.1	24.9	27.7	30.5	35.9	41.3	46.5	46.1
	TYPE A										TYPE B						TYPE C					

**Lubrication Note:**

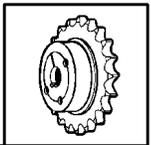
TYPE A: Manual or Drip  
 TYPE B: Bath or Disc  
 TYPE C: Oil Stream

**Multiple Strand Chain HP Factors:**

Single Strand	1.0
Double Strand	1.9
Triple Strand	2.8

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# SELECTION



## Basic Horsepower Ratings

60

3/4" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	125	150	175	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600
9	0.15	0.33	0.62	0.89	1.16	1.42	1.67	1.91	2.16	2.64	3.12	3.58	4.04	4.94	5.82	6.68	7.54	8.38	9.21	8.77	6.96	5.70
10	0.16	0.37	0.70	1.00	1.30	1.59	1.87	2.15	2.43	2.96	3.49	4.01	4.53	5.53	6.52	7.49	8.44	9.39	10.3	10.3	8.15	6.67
11	0.18	0.41	0.77	1.11	1.44	1.76	2.07	2.38	2.69	3.28	3.87	4.44	5.02	6.13	7.23	8.30	9.36	10.4	11.4	11.9	9.4	7.70
12	0.20	0.45	0.85	1.22	1.58	1.93	2.28	2.62	2.95	3.60	4.25	4.88	5.51	6.74	7.94	9.12	10.3	11.4	12.6	13.5	10.7	8.77
13	0.22	0.50	0.92	1.33	1.73	2.11	2.49	2.86	3.22	3.93	4.64	5.33	6.01	7.34	8.65	9.94	11.2	12.5	13.7	15.2	12.1	9.89
14	0.24	0.54	1.00	1.44	1.87	2.28	2.69	3.09	3.49	4.26	5.02	5.77	6.51	7.96	9.37	10.8	12.1	13.5	14.8	17.0	13.5	11.1
15	0.25	0.58	1.08	1.55	2.01	2.46	2.90	3.33	3.76	4.59	5.41	6.21	7.01	8.57	10.1	11.6	13.1	14.5	16.0	18.8	15.0	12.3
16	0.27	0.62	1.16	1.66	2.16	2.64	3.11	3.57	4.03	4.92	5.80	6.66	7.52	9.19	10.8	12.4	14.0	15.6	17.1	20.2	16.5	13.5
17	0.29	0.66	1.24	1.78	2.31	2.82	3.32	3.81	4.30	5.25	6.20	7.12	8.03	9.81	11.6	13.3	15.0	16.7	18.3	21.6	18.1	14.8
18	0.31	0.70	1.31	1.88	2.45	2.99	3.53	4.05	4.58	5.59	6.59	7.57	8.54	10.4	12.3	14.1	15.9	17.7	19.5	22.9	19.7	16.1
19	0.33	0.75	1.39	2.00	2.60	3.17	3.74	4.30	4.85	5.92	6.99	8.02	9.05	11.1	13.0	15.0	16.9	18.8	20.6	24.3	21.4	17.5
20	0.35	0.79	1.47	2.11	2.75	3.36	3.96	4.55	5.13	6.26	7.38	8.48	9.57	11.7	13.8	15.8	17.9	19.8	21.8	25.7	23.1	18.9
21	0.36	0.83	1.55	2.23	2.90	3.54	4.17	4.79	5.40	6.59	7.78	8.94	10.1	12.3	14.5	16.7	18.8	20.9	23.0	27.1	24.8	20.3
22	0.38	0.87	1.63	2.34	3.05	3.72	4.39	5.04	5.68	6.94	8.19	9.40	10.6	13.0	15.3	17.5	19.8	22.0	24.2	28.5	26.6	21.8
23	0.40	0.92	1.71	2.45	3.19	3.90	4.60	5.28	5.96	7.28	8.59	9.85	11.1	13.6	16.0	18.4	20.8	23.1	25.4	29.9	28.4	23.3
24	0.42	0.96	1.79	2.57	3.35	4.09	4.82	5.53	6.24	7.62	8.99	10.3	11.6	14.2	16.8	19.3	21.7	24.2	26.6	31.3	30.3	24.8
25	0.44	1.00	1.87	2.68	3.50	4.27	5.04	5.78	6.52	7.96	9.40	10.8	12.2	14.9	17.5	20.1	22.7	25.3	27.8	32.7	32.2	26.4
26	0.46	1.05	1.95	2.80	3.65	4.45	5.25	6.03	6.81	8.31	9.80	11.3	12.7	15.5	18.3	21.0	23.7	26.4	29.0	34.1	34.2	28.0
28	0.50	1.13	2.12	3.04	3.95	4.82	5.69	6.53	7.37	8.99	10.6	12.2	13.8	16.8	19.8	22.8	25.7	28.5	31.4	37.0	38.2	31.3
30	0.54	1.22	2.28	3.27	4.26	5.20	6.13	7.04	7.94	9.67	11.4	13.1	14.8	18.1	21.4	24.5	27.7	30.8	33.8	39.8	42.4	34.7
32	0.57	1.31	2.45	3.51	4.56	5.57	6.57	7.55	8.52	10.4	12.3	14.1	15.9	19.4	22.9	26.3	29.7	33.0	36.3	42.7	46.7	38.2
35	0.63	1.44	2.69	3.86	5.03	6.14	7.24	8.31	9.38	11.4	13.5	15.5	17.5	21.4	25.2	29.0	32.7	36.3	39.9	47.1	53.4	43.7
40	0.73	1.67	3.11	4.46	5.81	7.09	8.37	9.59	10.8	13.2	15.6	17.9	20.2	24.7	29.1	33.5	37.7	42.0	46.1	54.4	62.5	53.4
45	0.83	1.89	3.53	5.07	6.60	8.05	9.50	10.9	12.3	15.0	17.7	20.4	23.0	28.1	33.1	38.0	42.9	47.7	52.4	61.7	70.9	63.7
	TYPE A					TYPE B								TYPE C								

80

1" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	125	150	175	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600
9	0.34	0.78	1.45	2.08	2.71	3.31	3.90	4.48	5.05	6.17	7.28	8.36	9.43	11.5	13.6	15.6	17.6	17.0	14.5	11.0	8.76	7.17
10	0.38	0.87	1.63	2.33	3.03	3.70	4.37	5.02	5.66	6.91	8.16	9.38	10.6	12.9	15.2	17.5	19.7	19.9	17.0	12.9	10.3	8.40
11	0.42	0.97	1.80	2.58	3.36	4.10	4.84	5.56	6.28	7.66	9.04	10.4	11.7	14.3	16.9	19.4	21.9	23.0	19.6	14.9	11.8	9.69
12	0.47	1.06	1.98	2.84	3.69	4.51	5.32	6.11	6.89	8.41	9.93	11.4	12.9	15.7	18.5	21.3	24.0	26.2	22.3	17.0	13.5	11.0
13	0.51	1.16	2.16	3.10	4.03	4.91	5.80	6.66	7.52	9.16	10.8	12.4	14.0	17.1	20.2	23.2	26.2	29.1	25.2	19.2	15.2	12.5
14	0.55	1.25	2.34	3.35	4.36	5.33	6.29	7.22	8.14	9.92	11.7	13.4	15.2	18.6	21.9	25.1	28.4	31.5	28.2	21.4	17.0	13.9
15	0.59	1.35	2.52	3.61	4.70	5.74	6.77	7.77	8.77	10.7	12.6	14.5	16.4	20.0	23.6	27.1	30.6	34.0	31.2	23.8	18.9	15.4
16	0.63	1.45	2.70	3.87	5.04	6.15	7.26	8.34	9.41	11.5	13.5	15.6	17.6	21.5	25.3	29.0	32.8	36.4	34.4	26.2	20.8	17.0
17	0.68	1.55	2.88	4.13	5.38	6.57	7.75	8.88	10.0	12.3	14.5	16.6	18.7	22.9	27.0	31.0	35.0	38.9	37.7	28.7	22.7	18.6
18	0.72	1.64	3.07	4.40	5.72	6.99	8.25	9.48	10.7	13.1	15.4	17.6	19.9	24.4	28.7	33.0	37.2	41.4	41.1	31.2	24.8	20.3
19	0.76	1.74	3.25	4.66	6.07	7.41	8.74	10.0	11.3	13.8	16.3	18.7	21.1	25.8	30.4	35.0	39.4	43.8	44.5	33.9	26.9	22.0
20	0.81	1.84	3.44	4.93	6.41	7.83	9.24	10.6	12.0	14.6	17.2	19.7	22.3	27.3	32.2	37.0	41.7	46.3	48.1	36.6	29.0	23.8
21	0.85	1.94	3.62	5.19	6.76	8.25	9.74	11.2	12.6	15.4	18.2	20.9	23.5	28.8	33.9	39.0	43.9	48.9	51.7	39.4	31.2	25.6
22	0.90	2.04	3.81	5.46	7.11	8.66	10.2	11.8	13.3	16.2	19.1	22.0	24.8	30.3	35.7	41.0	46.2	51.4	55.5	42.2	33.5	27.4
23	0.94	2.14	4.00	5.73	7.46	9.08	10.7	12.3	13.9	17.0	20.1	23.1	26.0	31.8	37.4	43.0	48.5	53.9	59.3	45.1	35.8	29.3
24	0.98	2.24	4.19	6.00	7.81	9.56	11.3	13.0	14.6	17.8	21.0	24.1	27.2	33.2	39.2	45.0	50.8	56.4	62.0	48.1	38.2	31.2
25	1.03	2.34	4.37	6.27	8.16	9.98	11.8	13.5	15.2	18.6	21.9	25.2	28.4	34.7	40.9	47.0	53.0	59.0	64.8	51.1	40.6	33.2
26	1.07	2.45	4.56	6.54	8.52	10.4	12.3	14.1	15.9	19.4	22.9	26.3	29.7	36.2	42.7	49.1	55.3	61.5	67.6	54.2	43.0	35.2
28	1.16	2.65	4.94	7.09	9.23	11.3	13.3	15.3	17.2	21.0	24.8	28.5	32.1	39.3	46.3	53.2	59.9	66.7	73.7	60.6	48.1	39.4
30	1.25	2.85	5.33	7.64	9.94	12.1	14.3	16.4	18.5	22.6	26.7	30.7	34.6	42.3	49.9	57.3	64.6	71.8	78.9	67.2	53.3	43.6
32	1.34	3.06	5.71	8.21	10.7	13.0	15.3	17.6	19.9	24.3	28.6	32.9	37.1	45.4	53.5	61.4	69.2	77.0	84.6	74.0	58.7	48.1
35	1.48	3.37	6.29	9.00	11.7	14.3	16.9	19.4	21.9	26.8	31.6	36.3	40.9	50.0	58.9	67.6	76.3	84.8	93.3	84.7	67.2	55.0
40	1.71	3.89	7.27	10.4	13.6	16.5	19.5	22.4	25.3	30.9	36.4	41.8	47.2	57.7	68.0	78.1	88.1	99.0	108	103	82.1	67.2
45	1.94	4.42	8.25	11.8	15.4	18.8	22.2	25.5	28.7	35.1	41.4	47.5	53.6	65.6	77.2	88.7	100	111	122	123	98.0	80.2
	TYPE A					TYPE B								TYPE C								

**Lubrication Note:**

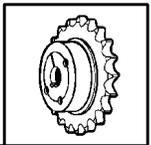
- TYPE A: Manual or Drip
- TYPE B: Bath or Disc
- TYPE C: Oil Stream

**Multiple Strand Chain HP Factors:**

Single Strand	1.0
Double Strand	1.9
Triple Strand	2.8

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# SELECTION



## Basic Horsepower Ratings

**100**

1-1/4" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	125	150	175	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
9	0.65	1.49	2.78	3.985	5.19	6.33	7.47	8.575	9.68	11.8	13.9	16.0	18.1	20.1	22.1	26.0	29.6	33.2	36.8	40.4	44.0	47.6
10	0.73	1.67	3.11	4.46	5.81	7.09	8.37	9.585	10.8	13.2	15.6	17.9	20.2	22.5	24.7	29.2	33.5	37.8	42.1	46.4	50.7	55.0
11	0.81	1.85	3.45	4.945	6.44	7.86	9.28	10.6	12.0	14.6	17.3	19.8	22.4	24.9	27.4	32.3	37.1	41.9	46.7	51.5	56.3	61.1
12	0.89	2.03	3.79	5.435	7.08	8.64	10.2	11.7	13.2	16.1	19.0	21.8	24.6	27.4	30.1	35.5	40.8	46.1	51.4	56.7	62.0	67.3
13	0.97	2.22	4.13	5.925	7.72	9.41	11.1	12.8	14.4	17.5	20.7	23.8	26.9	29.8	32.8	38.7	44.5	50.3	56.1	61.9	67.7	73.5
14	1.05	2.40	4.48	6.42	8.36	10.18	12.0	13.8	15.6	19.0	22.5	25.8	29.1	32.3	35.6	41.9	48.2	54.5	60.8	67.1	73.4	79.7
15	1.13	2.59	4.83	6.92	9.01	11.0	13.0	14.9	16.8	20.5	24.2	27.8	31.4	34.8	38.3	45.2	51.9	58.6	65.3	72.0	78.7	85.4
16	1.22	2.77	5.17	7.415	9.66	11.8	13.9	15.9	18.0	22.0	26.0	29.8	33.6	37.3	41.1	48.4	55.6	62.8	70.0	77.2	84.4	91.6
17	1.30	2.96	5.52	7.91	10.3	12.6	14.8	17.0	19.2	23.5	27.7	31.8	35.9	39.9	43.9	51.7	59.4	67.1	74.8	82.5	90.2	97.9
18	1.38	3.15	5.88	8.44	11.0	13.4	15.8	18.1	20.5	25.0	29.5	33.8	38.2	42.5	46.7	55.0	63.2	71.4	79.6	87.8	96.0	104.2
19	1.46	3.34	6.23	8.915	11.6	14.2	16.7	19.2	21.7	26.5	31.2	35.8	40.5	45.0	49.5	58.3	67.0	75.7	84.4	93.1	101.8	110.5
20	1.55	3.53	6.58	9.44	12.3	15.0	17.7	20.3	22.9	28.0	33.0	37.9	42.8	47.5	52.3	61.6	70.8	79.8	88.8	97.8	106.8	115.8
21	1.63	3.72	6.94	9.97	13.0	15.9	18.7	21.5	24.2	29.5	34.8	39.9	45.1	50.1	55.1	65.0	74.6	84.2	93.7	103.2	112.7	122.2
22	1.71	3.91	7.30	10.45	13.6	16.6	19.6	22.5	25.4	31.0	36.6	42.0	47.4	52.7	58.0	68.3	78.5	88.5	98.5	108.5	118.5	128.5
23	1.80	4.10	7.66	11.0	14.3	17.5	20.6	23.7	26.7	32.6	38.4	44.1	49.8	55.3	60.8	71.7	82.3	92.8	103.2	113.6	124.0	134.4
24	1.88	4.30	8.02	11.5	15.0	18.3	21.5	24.7	27.9	34.0	40.2	46.2	52.1	57.9	63.7	75.0	86.2	97.2	108.1	119.0	130.0	140.9
25	1.97	4.49	8.38	12.0	15.6	19.0	22.5	25.9	29.2	35.6	42.0	48.2	54.4	60.5	66.6	78.4	90.1	102	113.7	125.4	137.1	148.8
26	2.05	4.68	8.74	12.5	16.3	19.9	23.5	27.0	30.4	37.1	43.8	50.3	56.8	63.1	69.4	81.8	94.0	106	118	130	142	154
28	2.22	5.07	9.47	13.6	17.7	21.6	25.5	29.3	33.0	40.3	47.5	54.5	61.5	68.3	75.2	88.6	102	115	128	141	154	167
30	2.40	5.47	10.2	14.6	19.0	23.2	27.4	31.5	35.5	43.3	51.2	58.8	66.3	73.7	81.0	95.5	110	124	138	152	166	180
32	2.57	5.86	10.9	15.6	20.4	24.9	29.4	33.8	38.1	46.5	54.9	63.0	71.1	79.0	86.9	102	118	133	148	163	178	193
35	2.83	6.46	12.0	17.3	22.5	27.5	32.4	37.2	42.0	51.2	60.4	69.4	78.3	87.0	95.7	113	130	146	162	178	194	210
40	3.27	7.46	13.9	20.0	26.0	31.7	37.4	43.0	48.5	59.2	69.8	80.1	90.4	101	111	130	150	169	188	207	226	245
45	3.71	8.47	15.8	22.6	29.5	36.0	42.5	48.8	55.0	67.2	79.3	91.2	103	114	126	148	170	192	213	234	255	276
TYPE A					TYPE B					TYPE C												

**120**

1-1/2" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	125	150	175	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
9	1.10	2.52	4.69	6.73	8.76	10.7	12.6	14.4	16.3	19.9	23.5	27.0	30.5	33.9	37.3	43.2	49.1	55.0	60.9	66.8	72.7	78.6
10	1.24	2.82	5.26	7.54	9.81	12.0	14.1	16.2	18.3	22.3	26.4	30.3	34.2	38.0	41.8	49.2	56.6	64.0	71.4	78.8	86.2	93.6
11	1.37	3.12	5.83	8.36	10.9	13.3	15.7	18.0	20.3	24.8	29.2	33.6	37.9	42.1	46.3	54.6	63.0	71.4	79.8	88.2	96.6	105.0
12	1.50	3.43	6.40	9.15	11.9	14.6	17.2	19.7	22.3	27.2	32.1	36.8	41.6	46.3	50.9	59.9	69.3	78.7	88.1	97.5	106.9	116.3
13	1.64	3.74	6.98	10.0	13.0	15.9	18.8	21.5	24.3	29.6	35.0	40.2	45.4	50.5	55.5	65.3	75.1	84.9	94.7	104.5	114.3	124.1
14	1.78	4.05	7.56	10.8	14.1	17.2	20.3	23.3	26.3	32.1	37.9	43.5	49.1	54.6	60.1	70.8	80.6	90.4	100.2	110.0	119.8	129.6
15	1.91	4.37	8.15	11.7	15.2	18.5	21.9	25.1	28.4	34.7	40.9	47.0	53.0	58.8	64.7	76.3	86.1	95.9	105.7	115.5	125.3	135.1
16	2.05	4.68	8.74	12.5	16.3	19.9	23.5	27.0	30.4	37.1	43.8	50.3	56.8	63.1	69.4	81.8	91.6	101.4	111.2	121.0	130.8	140.6
17	2.19	5.00	9.33	13.4	17.4	21.3	25.1	28.8	32.5	39.7	46.8	53.7	60.6	67.3	74.1	87.3	97.1	106.9	116.7	126.5	136.3	146.1
18	2.33	5.32	9.92	14.2	18.5	22.6	26.7	30.6	34.6	42.2	49.8	57.2	64.5	71.7	78.8	92.9	102.7	112.5	122.3	132.1	141.9	151.7
19	2.47	5.64	10.5	15.1	19.6	24.0	28.3	32.4	36.6	44.7	52.8	60.6	68.4	76.0	83.6	98.5	108.3	118.1	127.9	137.7	147.5	157.3
20	2.61	5.96	11.1	15.9	20.7	25.3	29.9	34.3	38.7	47.3	55.8	64.0	72.2	80.3	88.3	104	114	124	134	144	154	164
21	2.75	6.28	11.7	16.8	21.9	26.7	31.5	36.2	40.8	49.8	58.8	67.5	76.2	84.6	93.1	110	122	132	142	152	162	172
22	2.90	6.60	12.3	17.6	23.0	28.0	33.1	38.0	42.9	52.3	61.8	70.9	80.1	89.0	97.9	115	131	141	151	161	171	181
23	3.04	6.93	12.9	18.5	24.1	29.5	34.8	39.9	45.0	55.0	64.9	74.4	84.0	93.5	103	121	139	149	159	169	179	189
24	3.18	7.25	13.5	19.4	25.3	30.9	36.4	41.8	47.1	57.5	67.9	77.9	88.0	98.0	108	127	146	156	166	176	186	196
25	3.32	7.58	14.1	20.3	26.4	32.2	38.0	43.7	49.3	60.2	71.0	81.4	91.9	102	112	132	152	162	172	182	192	202
26	3.47	7.91	14.8	21.1	27.5	33.6	39.7	45.6	51.4	62.7	74.0	84.9	95.9	106	117	138	159	169	179	189	199	209
28	3.76	8.57	16.0	22.9	29.8	36.4	43.0	49.3	55.7	67.9	80.2	92.1	104	115.5	127	150	172	184	196	208	220	232
30	4.05	9.23	17.2	24.6	32.1	39.2	46.3	53.2	60.0	73.2	86.4	99.2	112	124.5	137	161	185	209	233	257	281	305
32	4.34	9.90	18.5	26.5	34.5	42.0	49.6	57.0	64.3	78.4	92.6	106.3	120	133.5	147	173	199	225	251	277	303	329
35	4.78	10.9	20.3	29.1	38.0	46.3	54.7	62.8	70.9	86.4	102	117	132	147	162	190	219	248	277	306	335	364
40	5.52	12.6	23.5	33.7	43.9	53.6	63.2	72.5	81.8	99.9	118	135.5	153	170	187	220	253	286	319	352	385	418
45	6.27	14.3	26.7	38.3	49.8	60.8	71.7	82.3	92.9	113	134	153.5	173	192.5	212	250	287	324	361	398	435	472
TYPE A					TYPE B					TYPE C												

**Lubrication Note:**

- TYPE A: Manual or Drip
- TYPE B: Bath or Disc
- TYPE C: Oil Stream

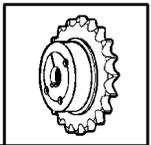
Shaded Area: Operation is in the galling range -- consult factory

**Multiple Strand Chain HP Factors:**

Single Strand	1.0
Double Strand	1.9
Triple Strand	2.8

FEATURES/BENEFITS PAGE PT12-2	SPECIFICATIONS PAGES PT12-3 - PT12-27	RELATED PRODUCTS PAGES PT12-40 - PT12-42	ENGINEERING/TECHNICAL PAGES PT12-43 - PT12-46
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# SELECTION



## Basic Horsepower Ratings

**140**

1-3/4" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	125	150	175	200	225	250	275	300	325	350	400	450	500	550	600	700	800
9	1.71	3.89	7.26	10.4	13.6	16.5	19.5	22.4	25.3	28.1	30.9	33.7	36.4	39.1	41.8	47.2	52.5	57.7	55.7	48.9	38.8	31.7
10	1.91	4.36	8.14	11.7	15.2	18.5	21.9	25.1	28.3	31.4	34.6	37.7	40.8	43.8	46.9	52.9	58.8	64.6	65.2	52.4	45.4	37.2
11	2.12	4.83	9.02	12.9	16.8	20.5	24.2	27.8	31.4	34.9	38.4	41.8	45.2	48.6	52.0	58.6	65.2	71.6	75.2	66.0	54.2	42.9
12	2.33	5.31	9.91	14.2	18.5	22.5	26.6	30.5	34.5	38.3	42.2	46.0	49.7	53.4	57.1	64.4	71.6	78.7	85.7	75.2	59.7	48.9
13	2.54	5.79	10.8	15.5	20.2	24.6	29.0	33.3	37.6	41.8	46.0	50.1	54.2	58.2	62.2	70.2	78.0	85.8	93.5	84.8	67.3	55.1
14	2.75	6.27	11.7	16.8	21.8	26.6	31.5	36.2	40.8	45.3	49.8	54.3	58.7	63.1	67.4	76.0	84.5	93.0	101	94.8	75.2	61.6
15	2.96	6.76	12.6	18.0	23.5	28.7	33.9	38.9	43.9	48.8	53.7	58.5	63.2	67.9	72.7	81.9	91.1	100	109	105	83.4	68.3
16	3.18	7.24	13.5	19.4	25.2	30.8	36.3	41.7	47.1	52.3	57.5	62.7	67.8	72.9	77.9	87.8	97.7	107	117	116	91.9	75.2
17	3.39	7.73	14.4	20.6	26.9	32.8	38.8	44.5	50.3	55.8	61.4	66.9	72.4	77.8	83.2	93.8	104	115	125	127	101	82.4
18	3.61	8.23	15.4	22.0	28.6	35.0	41.3	47.4	53.5	59.4	65.3	71.2	77.0	82.8	88.5	99.8	111	122	133	138	110	89.8
19	3.82	8.72	16.3	23.3	30.4	37.0	43.7	50.2	56.7	63.0	69.3	75.4	81.6	87.7	93.8	106	118	129	141	150	119	97.4
20	4.04	9.22	17.2	24.6	32.1	39.2	46.2	53.1	59.9	66.6	73.2	79.8	86.3	92.7	99.1	112	124	137	149	161	128	105
21	4.26	9.72	18.1	26.0	33.8	41.3	48.7	55.9	63.1	70.1	77.2	84.1	91.0	97.5	104	118	131	144	157	170	138	113
22	4.48	10.2	19.1	27.3	35.6	43.4	51.3	58.8	66.4	73.8	81.2	88.4	95.6	103	110	124	138	151	165	178	148	121
23	4.70	10.7	20.0	28.6	37.3	45.5	53.8	61.8	69.7	77.4	85.2	92.6	100	107	115	130	145	159	173	187	158	130
24	4.92	11.2	20.9	30.0	39.1	47.7	56.3	64.6	72.9	81.1	89.2	97.1	105	113	121	136	151	166	181	196	169	138
25	5.14	11.7	21.9	31.3	40.8	49.8	58.8	67.5	76.2	84.7	93.2	102	110	118	126	142	158	174	189	205	180	147
26	5.37	12.2	22.8	32.7	42.6	52.0	61.4	70.4	79.5	88.3	97.2	106	115	124	132	148	165	181	198	214	190	156
28	5.81	13.3	24.7	35.5	46.2	56.3	66.5	76.3	86.2	95.6	105	114	124	134	143	161	179	197	214	232	213	174
30	6.26	14.3	26.7	38.2	49.7	60.7	71.6	82.2	92.8	102.9	113	124	134	144	154	173	193	212	231	249	236	193
32	6.71	15.3	28.6	41.0	53.3	65.1	76.8	88.2	99.5	111	122	132	143	154	165	186	206	227	247	267	260	213
35	7.40	16.9	31.5	45.1	58.7	71.7	84.6	97.3	110	122	134	146	158	169	181	205	227	250	272	295	297	243
40	8.54	19.5	36.4	52.2	67.9	82.8	97.7	112	127	141	155	168	182	196	210	236	263	289	315	340	363	297
45	9.70	22.1	41.3	59.2	77.1	94.1	111	127.5	144	160	176	192	207	222	238	268	298	328	357	387	434	355
TYPE A			TYPE B									TYPE C										

**160**

2" Pitch Single Strand Roller Chain

### HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	700
9	2.48	5.65	10.5	15.1	19.7	24.0	28.3	32.5	36.7	40.8	44.8	48.8	52.8	56.8	60.7	64.6	68.5	76.1	71.5	62.0	54.4	43.2
10	2.77	6.33	11.8	16.9	22.0	26.9	31.7	36.4	41.1	45.7	50.3	54.8	59.2	63.6	68.0	72.3	76.7	85.3	83.7	72.6	63.7	50.5
11	3.07	7.01	13.1	18.8	24.4	29.8	35.2	40.4	45.6	50.7	55.7	60.7	65.6	70.5	75.4	80.2	85.0	94.5	96.6	83.7	73.5	58.3
12	3.38	7.70	14.4	20.6	26.8	32.7	38.6	44.3	50.1	55.7	61.2	66.7	72.1	77.4	82.8	88.1	93.4	104	110	95.4	83.7	66.4
13	3.68	8.40	15.7	22.5	29.2	35.7	42.1	48.3	54.6	60.6	66.7	72.6	78.6	84.4	90.3	96.2	102	113	124	108	94.4	74.9
14	3.99	9.10	17.0	24.4	31.7	38.7	45.6	52.3	59.1	65.7	72.3	78.8	85.2	91.5	97.8	104	110	123	135	120	105	83.7
15	4.30	9.80	18.3	26.2	34.1	41.7	49.2	56.5	63.7	70.8	77.9	84.8	91.7	98.3	105	112	119	132	145	133	117	92.8
16	4.61	10.5	19.6	28.1	36.6	44.7	52.7	60.5	68.3	75.9	83.5	90.9	98.4	106	113	120	127	142	156	147	129	102
17	4.92	11.2	20.9	30.0	39.1	47.7	56.3	64.6	72.9	81.0	89.1	97.1	105	113	121	128	136	151	166	161	141	112
18	5.23	11.9	22.3	31.9	41.6	50.8	59.9	68.8	77.6	86.2	94.8	103	112	120	128	136	145	161	177	175	154	122
19	5.55	12.7	23.6	33.8	44.1	53.8	63.5	72.8	82.2	91.6	101	109	118	127	136	145	153	171	188	190	167	132
20	5.86	13.4	25.0	35.8	46.6	56.8	67.1	77.0	86.9	96.4	106	115	125	135	144	153	162	180	198	205	180	143
21	6.18	14.1	26.3	37.7	49.1	59.9	70.7	81.1	91.6	102	112	122	132	142	152	162	171	190	209	221	194	154
22	6.50	14.8	27.7	39.7	51.6	63.0	74.4	85.4	96.3	107	118	128	139	149	159	169	180	200	220	237	208	165
23	6.82	15.6	29.0	41.6	54.2	66.1	78.0	89.5	101	112	124	135	146	156	167	178	189	210	231	251	222	176
24	7.14	16.3	30.4	43.5	56.7	69.2	81.7	93.8	106	117	129	141	152	163	175	186	197	220	241	263	237	188
25	7.46	17.0	31.1	45.2	59.3	72.3	85.4	98.2	111	123	135	147	159	171	183	195	206	229	252	275	252	200
26	7.78	17.8	31.8	46.8	61.8	75.4	89.1	102	115	128	141	153	166	179	191	203	215	239	263	287	267	212
28	8.43	19.2	35.9	51.5	67.0	81.8	96.5	111	125	139	153	166	180	193	207	220	233	259	285	311	298	237
30	9.08	20.7	38.7	55.4	72.2	88.1	104	119	135	150	165	179	194	209	223	237	251	279	307	336	331	263
32	9.74	22.2	41.5	59.5	77.4	94.2	111	128	144	160	176	192	208	223	239	254	269	300	329	359	365	289
35	10.7	24.5	45.7	65.4	85.2	104	123	141	159	176	194	212	229	246	263	280	297	330	363	395	417	331
40	12.4	28.3	52.8	75.7	98.5	120	142	163	184	205	225	245	265	284	304	324	343	381	419	457	494	404
45	14.1	32.1	59.9	85.9	112	136	161	185	209	232	255	278	301	323	345	367	389	433	476	519	561	482
TYPE A			TYPE B									TYPE C										

**Lubrication Note:**

- TYPE A: Manual or Drip
- TYPE B: Bath or Disc
- TYPE C: Oil Stream

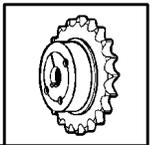
**Shaded Area: Operation is in the galling range -- consult factory**

**Multiple Strand Chain HP Factors:**

Single Strand	1.0
Double Strand	1.9
Triple Strand	2.8

FEATURES/BENEFITS PAGE PT12-2	SPECIFICATIONS PAGES PT12-3 - PT12-27	RELATED PRODUCTS PAGES PT12-40 - PT12-42	ENGINEERING/TECHNICAL PAGES PT12-43 - PT12-46
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# SELECTION



## Basic Horsepower Ratings

180		HORSEPOWER RATINGS																	
2-1/4" Pitch Single Strand Roller Chain		Small Sprocket RPM																	
No. Teeth	10	20	30	40	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400
11	4.24	7.87	11.4	14.7	18.1	25.9	33.7	41.2	48.6	55.7	62.9	69.9	76.9	83.8	90.6	97.3	104	110	117
12	4.66	8.62	12.4	16.1	19.8	28.4	37.0	45.2	53.4	61.3	69.1	76.8	84.5	92.1	99.6	107	114	121	129
13	5.08	9.43	13.6	17.6	21.6	31.0	40.4	49.3	58.2	66.8	75.4	83.8	92.1	101	109	117	125	133	141
14	5.51	10.2	14.8	19.1	23.4	33.5	43.7	53.3	63.0	72.3	81.6	90.7	99.8	109	118	126	135	143	152
15	5.93	11.0	15.9	20.6	25.3	36.2	47.1	57.5	67.9	77.9	88.0	98.0	108	117	127	136	146	155	164
16	6.36	11.8	17.0	22.1	27.1	38.8	50.5	61.7	72.8	83.6	94.3	105	115	125	136	146	156	166	176
17	6.79	12.6	18.2	23.5	28.9	41.5	54.0	65.8	77.7	89.3	101	112	123	134	145	156	167	178	188
18	7.22	13.4	19.4	25.1	30.8	44.1	57.4	70.1	82.7	94.8	107	119	131	142	154	165	177	189	200
19	7.66	14.2	20.5	26.6	32.6	46.7	60.8	74.2	87.6	101	114	126	139	152	164	176	188	200	212
20	8.10	15.0	21.7	28.1	34.5	49.4	64.3	78.4	92.6	106	120	134	147	160	173	186	199	212	224
21	8.53	15.8	22.9	29.6	36.3	52.1	67.8	82.7	97.6	112	126	141	155	168	182	195	209	222	236
22	8.97	16.7	24.0	31.1	38.2	54.8	71.3	87.2	103	118	133	148	163	178	192	206	220	234	248
23	9.41	17.5	25.2	32.7	40.1	57.5	74.8	91.4	108	124	140	155	171	186	201	216	231	246	260
24	9.86	18.3	26.4	34.2	42.0	60.2	78.3	95.7	113	129	146	162	179	195	210	226	242	258	273
25	10.3	19.1	27.6	35.7	43.9	62.9	81.8	99.9	118	135	153	170	187	203	220	236	253	269	285
26	10.7	19.9	28.7	37.2	45.7	65.6	85.4	104	123	141	159	177	195	212	229	246	264	281	297
28	11.6	21.6	31.2	40.4	49.6	71.1	92.5	113	133	153	173	192	211	230	249	267	286	304	322
30	12.5	23.2	33.6	43.5	53.4	76.5	99.6	122	144	165	186	206	227	247	268	288	308	327	347
32	13.4	24.9	36.0	46.6	57.2	82.1	107	131	154	176	199	222	244	265	287	308	330	351	372
35	14.8	27.5	39.7	51.4	63.1	90.6	118	144	170	195	220	244	268	292	316	339	363	386	410
TYPE A				TYPE B								TYPE C							

200		HORSEPOWER RATINGS																	
2-1/2" Pitch Single Strand Roller Chain		Small Sprocket RPM																	
No. Teeth	10	15	20	30	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300
11	5.64	8.12	10.5	15.1	19.6	24.0	28.3	32.5	36.6	40.7	44.8	54.7	64.5	74.0	83.5	92.8	102	111	120
12	6.19	8.92	11.6	16.6	21.6	26.4	31.0	35.7	40.2	44.7	49.2	60.0	70.8	81.3	91.8	102	112	122	132
13	6.75	9.72	12.6	18.1	23.5	28.7	33.8	38.9	43.8	48.7	53.6	65.4	77.2	88.6	100	111	122	133	144
14	7.31	10.5	13.6	19.7	25.5	31.1	36.6	42.1	47.4	52.8	58.1	70.9	83.7	95.8	108	120	132	144	156
15	7.88	11.3	14.7	21.2	27.4	33.5	39.5	45.4	51.1	56.9	62.6	76.3	90.1	104	117	130	143	155	168
16	8.45	12.2	15.8	22.7	29.4	36.0	42.3	48.7	54.8	61.0	67.1	81.8	96.6	111	125	139	153	166	180
17	9.02	13.0	16.8	24.2	31.4	38.4	45.2	52.0	58.5	65.1	71.6	87.3	103	119	134	148	163	178	193
18	9.59	13.8	17.9	25.8	33.4	40.8	48.0	55.3	62.3	69.2	76.2	93.1	110	126	142	158	174	189	205
19	10.2	14.6	19.0	27.3	35.4	43.3	50.9	58.6	66.0	73.4	80.8	98.4	116	134	151	168	184	200	217
20	10.7	15.5	20.1	28.9	37.4	45.8	53.8	61.9	69.7	77.6	85.4	104	123	141	159	177	195	212	229
21	11.3	16.3	21.1	30.5	39.5	48.2	56.8	65.3	73.5	81.8	90.0	110	130	149	168	186	205	223	242
22	11.9	17.2	22.2	32.0	41.5	50.7	59.7	68.7	77.3	86.0	94.6	115	136	156	177	196	216	235	254
23	12.5	18.0	23.3	33.6	43.5	53.2	62.6	72.0	81.1	90.2	99.3	121	143	164	185	205	226	246	267
24	13.1	18.9	24.4	35.2	45.6	55.7	65.6	75.4	84.9	94.5	104	127	150	172	194	216	237	258	279
25	13.7	19.7	25.5	36.8	47.6	58.2	68.5	78.8	88.9	98.9	109	132	156	179	203	226	248	270	292
26	14.3	20.6	26.6	38.4	49.7	60.7	71.4	82.2	92.5	103	113	138	163	188	212	236	259	282	305
TYPE A				TYPE B								TYPE C							

240		HORSEPOWER RATINGS																	
3" Pitch Single Strand Roller Chain		Small Sprocket RPM																	
No. Teeth	5	10	15	20	25	30	40	50	60	70	80	90	100	125	150	175	200	250	300
11	4.86	9.08	13.1	16.9	20.7	24.4	31.6	38.6	45.5	52.3	59.0	65.6	72.1	88.1	104	119	135	164	194
12	5.34	9.97	14.4	18.6	22.7	26.8	34.7	42.4	50.0	57.4	64.8	72.0	79.2	96.8	114	131	148	181	213
13	5.83	10.9	15.7	20.3	24.8	29.2	37.9	46.3	54.5	62.5	70.6	78.5	86.4	106	124	143	161	197	232
14	6.31	11.8	17.0	22.0	26.9	31.7	41.0	50.1	59.1	67.8	76.5	85.1	93.6	114	135	155	175	213	251
15	6.80	12.7	18.3	23.7	28.9	34.1	44.2	54.0	63.6	73.0	82.4	91.7	101	123	145	167	188	230	271
16	7.29	13.6	19.6	25.4	31.0	36.6	47.4	57.9	68.2	78.3	88.4	98.2	108	132	156	179	202	247	290
17	7.78	14.5	20.9	27.1	33.1	39.0	50.6	61.8	72.9	83.7	94.4	105	115	141	166	191	215	263	310
18	8.28	15.4	22.3	28.8	35.2	41.5	53.8	65.8	77.5	88.8	100	112	123	150	177	203	229	280	330
19	8.78	16.4	23.6	30.6	37.4	44.0	57.0	69.7	82.2	94.1	106	118	130	159	187	215	243	297	350
20	9.28	17.3	24.9	32.3	39.5	46.5	60.3	73.7	86.8	99.4	112	125	138	168	198	228	257	314	370
21	9.78	18.2	26.3	34.1	41.6	49.0	63.5	77.7	91.5	105	119	132	145	177	209	240	270	331	390
22	10.3	19.2	27.6	35.8	43.8	51.6	66.8	81.7	96.2	111	125	138	152	186	220	252	284	348	410
23	10.8	20.1	29.0	37.6	45.9	54.1	70.1	85.7	101	116	131	145	160	195	230	265	298	365	430
24	11.3	21.1	30.4	39.3	48.1	56.7	73.4	89.7	106	121	137	152	167	205	241	277	312	382	450
25	11.8	22.0	31.7	41.1	50.3	59.2	76.7	93.8	110	126	143	159	175	214	252	290	327	399	470
26	12.3	23.0	33.1	42.9	52.4	61.8	80.0	97.8	115	132	149	166	183	223	263	302	341	416	491
TYPE A				TYPE B								TYPE C							

**Lubrication Note:**

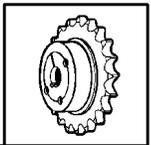
- TYPE A: Manual or Drip
- TYPE B: Bath or Disc+
- TYPE C: Oil Stream

**Shaded Area: Operation is in the galling range -- consult factory**  
**Multiple Strand Chain HP Factors:**

Single Strand	1.0	Triple Strand	2.8
Double Strand	1.9		

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# SELECTION



## Basic Horsepower Ratings

### 2040 — HP Ratings for 2040 Double Pitch Drive Chain

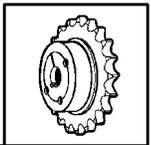
No. of Effective Teeth, Small Spkt.	HP Ratings @ Various RPM, Small Sprocket																			
	25	50	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1300
6	.10	.17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	.12	.21	.35	.46	.54	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	.14	.25	.64	.72	.82	.90	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	.16	.30	.53	.72	.88	1.02	1.14	1.3	1.3	...	...	...	...	...	...	...	...	...	...	...
10	.18	.34	.61	.82	1.04	1.21	1.37	1.5	1.6	1.7	1.8	1.9	...	...	...	...	...	...	...	...
11	.20	.38	.69	.96	1.20	1.41	1.59	1.8	1.9	2.0	2.1	2.2	2.3	...	...	...	...	...	...	...
12	.22	.42	.77	1.07	1.34	1.58	1.80	2.0	2.2	2.3	2.5	2.6	2.7	2.9	...	...	...	...	...	...
13	.24	.46	.84	1.18	1.48	1.76	2.01	2.2	2.4	2.6	2.8	2.9	3.1	3.3	3.5	...	...	...	...	...
14	.26	.50	.92	1.29	1.62	1.93	2.21	2.5	2.7	2.9	3.1	3.3	3.4	3.7	3.9	4.1	...	...	...	...
15	.28	.54	.99	1.39	1.76	2.09	2.40	2.7	2.9	3.2	3.4	3.6	3.8	4.1	4.3	4.5	4.7	...	...	...
16	.30	.57	1.06	1.50	1.89	2.25	2.59	2.9	3.2	3.4	3.7	3.9	4.1	4.4	4.7	5.0	5.1	...	...	...
17	.32	.61	1.13	1.60	2.02	2.41	2.77	3.1	3.4	3.7	4.0	4.2	4.4	4.8	5.1	5.4	5.6	5.7	...	...
18	.34	.65	1.20	1.70	2.15	2.57	2.95	3.3	3.6	3.9	4.2	4.5	4.7	5.1	5.5	5.8	6.0	6.2	...	...
19	.36	.69	1.27	1.80	2.28	2.73	3.13	3.5	3.9	4.2	4.5	4.8	5.0	5.5	5.9	6.2	6.4	6.6	6.7	...
20	.38	.72	1.34	1.89	2.40	2.87	3.30	3.7	4.1	4.4	4.7	5.0	5.3	5.8	6.2	6.5	6.8	7.0	7.1	...
21	.40	.76	1.41	1.99	2.53	3.01	3.47	3.9	4.3	4.6	5.0	5.3	5.6	6.1	6.5	6.9	7.1	7.4	7.5	...
22	.42	.79	1.48	2.09	2.64	3.16	3.63	4.1	4.5	4.9	5.2	5.5	5.8	6.4	6.8	7.2	7.5	7.7	7.9	...
23	.44	.83	1.54	2.18	2.76	3.30	3.80	4.3	4.7	5.1	5.4	5.8	6.1	6.6	7.1	7.5	7.8	8.0	8.2	8.3
24	.46	.87	1.61	2.27	2.88	3.44	3.95	4.4	4.9	5.3	5.7	6.0	6.4	6.9	7.4	7.8	8.1	8.4	8.5	8.6
25	.48	.90	1.67	2.36	3.00	3.58	4.11	4.6	5.1	5.5	5.9	6.3	6.6	7.2	7.7	8.1	8.4	8.7	8.8	8.9
30	.57	1.08	1.99	2.81	3.56	4.24	4.87	5.4	6.0	6.5	6.9	7.4	7.8	8.4	8.9	9.4	9.7	10.0	10.1	10.1
	TYPE I					TYPE II								TYPE III						

### 2050 — HP Ratings for 2050 Double Pitch Drive Chain

No. of Effective Teeth, Small Spkt.	HP Ratings @ Various RPM, Small Sprocket																			
	25	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
6	.18	.31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	.22	.40	.65	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	.26	.48	.82	1.08	1.28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	.31	.56	.98	1.32	1.59	1.82	1.99	...	...	...	...	...	...	...	...	...	...	...	...	...
10	.35	.64	1.14	1.55	1.89	2.19	2.42	2.62	2.80	...	...	...	...	...	...	...	...	...	...	...
11	.39	.72	1.30	1.77	2.19	2.55	2.85	3.11	3.35	3.55	...	...	...	...	...	...	...	...	...	...
12	.43	.80	1.45	1.99	2.47	2.90	3.26	3.58	3.88	4.12	4.31	...	...	...	...	...	...	...	...	...
13	.47	.88	1.59	2.20	2.74	3.23	3.65	4.03	4.38	4.66	4.90	5.11	5.30	...	...	...	...	...	...	...
14	.51	.95	1.73	2.41	3.01	3.55	4.02	4.45	4.85	5.17	5.47	5.73	5.95	6.09	...	...	...	...	...	...
15	.55	1.02	1.87	2.62	3.27	3.87	4.37	4.86	5.30	5.67	6.01	6.31	6.57	6.75	6.94	...	...	...	...	...
16	.58	1.09	2.01	2.82	3.52	4.17	4.72	5.25	5.73	6.15	6.53	6.87	7.17	7.39	7.61	7.79	...	...	...	...
17	.62	1.17	2.14	3.01	3.77	4.46	5.07	5.67	6.15	6.61	7.05	7.42	7.74	7.99	8.24	8.46	8.62	...	...	...
18	.66	1.24	2.27	3.20	4.01	4.75	5.41	6.04	6.56	7.07	7.54	7.95	8.29	8.56	8.84	9.08	9.28	...	...	...
19	.70	1.31	2.40	3.39	4.25	5.04	5.75	6.40	6.96	7.51	8.01	8.46	8.82	9.12	9.42	9.68	9.90	10.08	...	...
20	.74	1.38	2.53	3.57	4.48	5.32	6.07	6.75	7.35	7.94	8.46	8.94	9.33	9.65	9.97	10.25	10.49	10.69	...	...
21	.77	1.45	2.66	3.75	4.71	5.59	6.38	7.10	7.74	8.36	8.90	9.40	9.82	10.16	10.50	10.80	11.06	11.28	11.44	...
22	.81	1.52	2.79	3.92	4.93	5.85	6.69	7.44	8.12	8.77	9.33	9.84	10.29	10.65	11.01	11.32	11.59	11.83	12.00	...
23	.84	1.59	2.92	4.10	5.15	6.11	6.99	7.77	8.49	9.16	9.75	10.27	10.74	11.12	11.50	11.82	12.10	12.35	12.53	...
24	.88	1.66	3.05	4.27	5.37	6.37	7.29	8.10	8.85	9.54	10.16	10.70	11.18	11.57	11.97	12.30	12.59	12.85	13.03	...
25	.91	1.72	3.17	4.45	5.59	6.62	7.57	8.42	9.20	9.91	10.56	11.12	11.61	12.01	12.42	12.75	13.05	13.33	13.50	13.57
30	1.09	2.05	3.77	5.29	6.62	7.82	8.92	9.92	10.80	11.65	12.32	12.99	13.55	13.96	14.39	14.76	15.06	15.30	15.48	...
	TYPE I					TYPE II								TYPE III						

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# SELECTION



## Basic Horsepower Ratings

### 2060 — HP Ratings for 2060 Double Pitch Drive Chain

No. of Effective Teeth, Small Spkt.	HP Ratings @ Various RPM, Small Sprocket																			
	25	50	75	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700
6	.30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	.37	.66	.88	1.06	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	.44	.80	1.09	1.34	1.56	1.74	1.89	...	...	...	...	...	...	...	...	...	...	...	...	...
9	.52	.94	1.30	1.62	1.90	2.15	2.36	2.55	2.72	...	...	...	...	...	...	...	...	...	...	...
10	.59	1.08	1.51	1.89	2.23	2.54	2.82	3.07	3.29	3.50	3.68	3.83	...	...	...	...	...	...	...	...
11	.66	1.21	1.71	2.15	2.54	2.92	3.25	3.58	3.84	4.12	4.34	4.56	4.93	...	...	...	...	...	...	...
12	.73	1.34	1.90	2.41	2.85	3.29	3.67	4.06	4.37	4.71	4.97	5.24	5.71	6.06	...	...	...	...	...	...
13	.79	1.47	2.09	2.66	3.15	3.65	4.08	4.52	4.88	5.27	5.59	5.91	6.46	6.92	7.25	...	...	...	...	...
14	.86	1.60	2.27	2.90	3.45	4.00	4.48	4.96	5.37	5.80	6.17	6.54	7.17	7.72	8.10	8.51	...	...	...	...
15	.92	1.72	2.45	3.14	3.74	4.34	4.86	5.39	5.85	6.32	6.73	7.14	7.86	8.48	8.92	9.40	...	...	...	...
16	.99	1.85	2.64	3.37	4.02	4.67	5.24	5.81	6.32	6.82	7.27	7.72	8.52	9.21	9.71	10.25	10.70	...	...	...
17	1.05	1.97	2.82	3.59	4.29	4.99	5.61	6.22	6.78	7.32	7.80	8.29	9.16	9.91	10.47	11.06	11.59	11.99	...	...
18	1.12	2.10	3.00	3.82	4.56	5.31	5.97	6.63	7.23	7.81	8.32	8.84	9.78	10.58	11.21	11.84	12.42	12.88	...	...
19	1.18	2.22	3.17	4.04	4.83	5.62	6.32	7.03	7.67	8.29	8.83	9.38	10.38	11.23	11.93	12.60	13.22	13.73	14.14	...
20	1.25	2.34	3.34	4.25	5.09	5.93	6.67	7.42	8.09	8.74	9.33	9.91	10.95	11.86	12.62	13.34	13.99	14.54	14.99	...
21	1.31	2.46	3.51	4.48	5.36	6.24	7.02	7.80	8.50	9.19	9.81	10.43	11.53	12.47	13.28	14.05	14.73	15.31	15.80	...
22	1.37	2.58	3.67	4.70	5.62	6.54	7.35	8.17	8.90	9.63	10.28	10.93	12.08	13.06	13.92	14.73	15.44	16.05	16.57	...
23	1.44	2.69	3.84	4.91	5.87	6.83	7.68	8.54	9.30	10.06	10.74	11.42	12.62	13.63	14.54	15.39	16.12	16.76	17.30	17.78
24	1.50	2.80	4.00	5.12	6.12	7.12	8.01	8.91	9.69	10.48	11.19	11.90	13.15	14.18	15.15	16.03	16.77	17.44	18.00	18.40
25	1.56	2.92	4.17	5.32	6.36	7.41	8.34	9.27	10.08	10.89	11.62	12.37	13.58	14.72	15.75	16.65	17.40	18.09	18.67	19.09
30	1.86	3.48	4.96	6.32	7.58	8.78	9.86	10.94	11.85	12.76	13.71	14.55	15.98	17.28	18.40	19.40	20.22	20.92	21.32	22.00
	TYPE I							TYPE II							TYPE III					

### 2080 — HP Ratings for 2080 Double Pitch Drive Chain

No. of Effective Teeth, Small Spkt.	HP Ratings @ Various RPM, Small Sprocket																			
	10	20	30	40	50	60	70	80	90	100	125	150	175	200	225	250	300	350	400	450
6	.32	.55	.76	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	.38	.70	.98	1.22	1.44	1.63	1.80	...	...	...	...	...	...	...	...	...	...	...	...	...
8	.46	.84	1.18	1.50	1.78	2.04	2.28	2.50	2.70	2.88	...	...	...	...	...	...	...	...	...	...
9	.52	.98	1.39	1.76	2.11	2.43	2.74	3.02	3.29	3.53	4.08	4.54	...	...	...	...	...	...	...	...
10	.59	1.11	1.58	2.02	2.43	2.82	3.18	3.53	3.85	4.16	4.85	5.45	5.98	...	...	...	...	...	...	...
11	.66	1.24	1.77	2.27	2.76	3.20	3.60	4.02	4.38	4.77	5.60	6.33	6.98	7.56	8.07	...	...	...	...	...
12	.72	1.37	1.96	2.52	3.08	3.56	4.02	4.50	4.92	5.36	6.33	7.19	7.95	8.66	9.27	9.82	...	...	...	...
13	.79	1.49	2.15	2.77	3.38	3.81	4.44	4.97	5.45	5.93	7.02	8.02	8.89	9.72	10.42	11.08	...	...	...	...
14	.85	1.62	2.33	3.01	3.67	4.26	4.85	5.42	5.96	6.49	7.69	8.82	9.80	10.74	11.53	12.29	13.60	...	...	...
15	.91	1.74	2.52	3.25	3.96	4.60	5.25	5.86	6.45	7.03	8.34	9.60	10.68	11.73	12.60	13.46	14.94	...	...	...
16	.98	1.87	2.70	3.48	4.24	4.94	5.64	6.29	6.93	7.56	8.98	10.36	11.53	12.69	13.63	14.59	16.24	17.65	...	...
17	1.04	1.99	2.88	3.71	4.52	5.28	6.02	6.72	7.40	8.09	9.61	11.10	12.36	13.62	14.63	15.69	17.50	19.04	...	...
18	1.11	2.11	3.05	3.94	4.80	5.61	6.40	7.14	7.87	8.60	10.23	11.82	13.18	14.52	15.60	16.76	18.72	20.38	21.77	...
19	1.17	2.23	3.23	4.17	5.08	5.94	6.77	7.56	8.33	9.10	10.84	12.52	13.98	15.39	16.55	17.80	19.90	21.67	23.18	...
20	1.23	2.35	3.40	4.40	5.35	6.26	7.13	7.98	8.78	9.60	11.44	13.20	14.76	16.24	17.48	18.81	21.04	22.91	24.52	...
21	1.29	2.47	3.57	4.62	5.62	6.58	7.49	8.39	9.23	10.09	12.03	13.87	15.52	17.07	18.39	19.79	22.14	24.11	25.80	...
22	1.36	2.58	3.74	4.84	5.89	6.89	7.84	8.79	9.67	10.57	12.62	14.53	16.27	17.89	19.28	20.74	23.20	25.27	27.03	...
23	1.42	2.70	3.90	5.06	6.16	7.20	8.19	9.18	10.10	11.05	13.20	15.18	17.01	18.70	20.15	21.66	24.23	26.40	28.22	...
24	1.48	2.82	4.05	5.27	6.43	7.51	8.54	9.56	10.53	11.52	13.77	15.82	17.74	19.50	21.01	22.55	25.23	27.50	29.38	30.98
25	1.54	2.93	4.20	5.48	6.70	7.81	8.89	9.94	10.95	11.98	14.33	16.45	18.46	20.29	21.86	23.42	26.20	28.57	30.52	32.16
30	1.84	3.50	5.02	6.54	7.96	9.29	10.59	11.74	12.97	14.23	16.98	19.46	21.79	23.91	25.73	27.52	30.70	33.56	35.52	37.26
	TYPE I							TYPE II							TYPE III					

#### Explanation of Lubrication:

**TYPE I:** Steady Drip (4-10 drops/minute) shallow bath or manual w/oil applied by brush or spout can to link plate edges when in lower span of chain.

**TYPE II:** Rapid Drip (20 drops/minute, min.) or continuous w/ shallow bath, disc or slinger.

**TYPE III:** Continuous w/disc, slinger or circulating pump.

**Additional Information**—ANSI Roller Chain Standard B29.3, Section A1.3.

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