

Double Capacity Chain

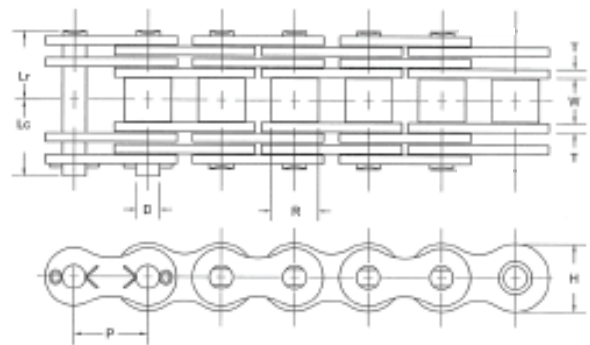


Double Capacity roller chains possess twice the number of link plates and therefore twice the ultimate strength of standard single strand roller chains. They are primarily designed for high load hoist, pull down, or other tension linkage applications, and operate on standard ASME/ANSI single strand sprockets with hardened teeth. Multiple strand Double Capacity chains are not available.

- Stronger than “Super Series” Roller Chains.
- Superior wear resistance compared to leaf chains.
- Rated working load is related to chain speed.

Rated working load (Lbs) vs. Linear Chain Speed for Double Capacity Chains

Chain Size	Linear Chain Speed (feet per minute)					
	<10FPM	10-20 FPM	20-30 FPM	30-40 FPM	40-50 FPM	50-160 FPM
60DC	4,450	3,950	3,460	2,970	2,720	2,470
80 DC	7,450	6,630	5,800	4,970	4,550	4,140
100DC	11,450	10,200	8,900	7,630	7,000	6,360
120DC	15,400	13,650	11,950	10,250	9,400	8,540
140DC	20,350	18,100	15,850	13,600	12,450	11,310
160DC	26,800	23,850	20,850	17,900	16,400	14,900
180DC	29,900	26,550	23,250	19,900	18,250	16,600
200DC	33,500	29,750	20,050	22,350	20,450	18,600
240DC	45,750	40,650	35,550	30,500	27,950	25,400



Chain Number	Chain Dimensions Are Given In Inches								Average Ultimate Strength (Lbs)	Average Chain Weight (Lbs/Ft)
	Pitch P	Inside Width W	Roller Diameter R	Pin Diameter D	Link Plate Thickness T	Link Plate Height H	Riv. Pin Length Lr	Cot. Pin Length Lc		
60DC	3/4	0.500	0.469	0.234	0.094	0.691	1.410	1.500	19,400	1.60
80DC	1	0.625	0.625	0.312	0.125	0.921	1.800	1.920	35,200	1.74
100DC	1 1/4	0.750	0.750	0.375	0.156	1.154	2.200	2.340	52,800	2.72
120DC	1 1/2	1.000	0.875	0.437	0.187	1.382	2.720	2.890	75,000	4.02
140DC	1 3/4	1.000	1.000	0.500	0.219	1.610	3.010	3.200	97,000	5.22
160DC	2	1.250	1.125	0.562	0.250	1.839	3.550	3.750	123,400	6.93
180DC	2 1/4	1.406	1.406	0.687	0.281	2.067	4.000	4.240	158,800	9.50
200DC	2 1/2	1.500	1.562	0.781	0.312	2.354	4.380	4.730	202,000	12.13
240DC	3	1.875	1.875	0.937	0.375	2.768	5.340	5.640	304,000	17.21

Freedom Series® Maintenance Free Chain



Freedom Series® Self Lubricating maintenance free chains offer premium performance and value. These chains feature the addition of a roller for reduced friction, smoother operation over sprockets and specially coated pins and link plates for improved wear life and rust prevention.

PT-Type series are made with slightly modified dimensions to achieve the same strength and working load values as standard ASME/ANSI chains. This allows direct replacement for many slow to moderate speed drive chains. The PT-Type is available in single strand construction only and will operate on standard sprocket tooth forms.

Operating Temperature: 4°F - 160°F
Available in Nickel Plate and Perfect Coat Plus

Features

No Secondary lubrication required

Same strength as standard chain

Specially treated pin surface:

Solid Rollers

Fits existing sprockets.

Black Oxide Link plates

Benefits

Clean work area

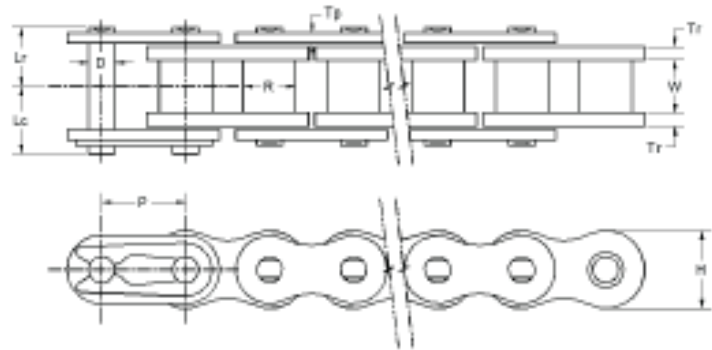
Direct size replacement for most applications.

Improved wear life.

Smooth action over sprockets.

No special sprockets.

Resists corrosion.



Freedom Series® PT-Type Specifications

Chain Number	Chain Dimensions Are Given In Inches									Rated Working Load (Lbs)	Average Ultimate Strength (Lbs)	Average Chain Weight (Lbs/Ft)
	Chain Pitch P	Inside Width W	Roller Diameter R	Pin Diameter D	Roller Plate Thickness Tr	Pin Plate Thickness Tp	Link Plate Height H	Riv. Pin Length Lr	Cot. Pin Length Lc			
40FS	1/2	0.312	0.312	0.156	0.080	0.060	0.463	0.350	0.400	820	4,300	0.46
50FS	5/8	0.375	0.400	0.200	0.094	0.080	0.577	0.425	0.485	1,410	7,200	0.72
60FS	3/4	0.500	0.469	0.234	0.125	0.094	0.691	0.545	0.615	1,940	9,700	1.15
80FS	1	0.625	0.625	0.312	0.156	0.125	0.921	0.680	0.790	3,300	17,600	1.80
100FS	1 1/4	0.750	0.750	0.375	0.187	0.156	1.154	0.805	0.955	5,080	26,500	2.85