

The following pages provide power ratings for PowerTwist Plus, NuTLink and SuperTLink belting, and offer some information on how to determine the belt type for a particular drive. Before you can proceed, you need to know the following four things:

1. The type of application or driven machine.
2. The type of prime mover, its HP rating and RPM.
3. The speed of the driven machine or speed ratio.
4. The approximate center distance between shafts.

Example:

7½ HP 1750 RPM, NEMA A, electric motor driving a restaurant roof top exhaust fan. Current drive consists of a 5.4 x 2B on the motor, a 6.8 x 2B on the fan and a center distance of about 22". Runs 16 – 24 hours/day.

Step 1. Find the Design Horsepower

- A. From Table 1 we select 1.2 SF, i.e. NEMA A motor, Fan up to 10 HP
- B. DHP = 7.5 HP x 1.2 SF = 9.0 DHP

The machines listed below are representative samples only. Select the group whose load characteristics closely match the machine being considered.

DriveN Machine	Types of Prime Mover					
	AC Motors: Normal Torque (NEMA A-B), Squirrel Cage, Synchronous, Split Phase DC Motors: Shunt Wound Engines: Multiple Cylinder Internal Combustion			AC Motors: High Torque (NEMA C-D), High Slip, Repulsion, Induction, Single Phase, Slip Ring, Series Wound DC Motors: Series Wound, Compound Wound Engines: Single Cylinder Internal Combustion Lineshafts, Clutches		
	Intermittent Service 3 – 5 Hrs/Day or Seasonal	Normal Service 8 – 10 Hrs/Day	Continuous Service 16 – 24 Hrs/Day	Intermittent Service 3 – 5 Hrs/Day or Seasonal	Normal Service 8 – 10 Hrs/Day	Continuous Service 16 – 24 Hrs/Day
Fans (up to 10 HP); Centrifugal Pumps and Compressors; Conveyors (Light Duty)	1.0	1.1	1.2	1.1	1.2	1.3
Agitators: Liquid; Revolving and Vibrating Screens; Fans (over 10 HP); Generators; Machine Tools: Lathes, Mills, etc.; Line Shafts; Positive Displacement Rotary Pumps; Woodworking Equipment: Saws, Drills, Lathes, etc.	1.1	1.2	1.3	1.2	1.3	1.4
Brick Machinery; Agitators: Semi-Liquid; Presses, Punches, Shears; Pumps (Piston); Belt Conveyors: Ore, Coal, Sand, Aggregate; Compressors (Piston); Positive Displacement Blowers; Saw Mill Machinery; Textile Machinery	1.2	1.3	1.4	1.4	1.5	1.6

Table 1

Step 2. Review the Drive

- A. Calculate the speed ratio. This is large diameter divided by small diameter.
 $6.8 \div 5.4 = 1.26:1$
- B. Calculate Belt HP Rating
 1. Refer to the PowerTwist Plus power rating table for "B" cross section belt. Using the faster shaft RPM of 1750, read across to column headed 5.4" and find 5.43. This is the basic HP rating. Read across on the same line under the **Add-on Horsepower** rating section, in column headed 1.21 to 1.27, read .19. Adding .19 to 5.43 gives 5.62 rated HP per belt.
- C. Determine the Arc of Contact Correction Factor
 1. Calculate $(D - d) \div C$ and find factor $K\phi$ from Table 2.
 Where: $D = 6.8$, $d = 5.4$ and $C = 22$
 $(6.8 - 5.4) \div 22 = 0.06$
 Factor $K\phi$ is 1.00.
- D. Determine Belt Length and Length Correction Factor (L_C)
 1. Using the formula below calculate the belt length and from Table 3 find the Length Correction Factor (L_C).

$$\text{Belt Length} = 2C + 1.57(D + d) + \frac{(D - d)^2}{4C}$$
 Where: $D = 6.8$, $d = 5.4$ and $C = 22$
 Belt Length = 63.2 inches
 From Table 3, under "B" cross section and between a 60 and 68 inch belt factor L_C is .93.
- E. Calculate Corrected HP per Belt
 1. Corrected HP per Belt = Rated HP per belt x Factor $K\phi$ x Factor L_C
 Corrected HP per Belt = $5.62 \times 1.00 \times .93 = 5.23$

Step 3. Find the Number of Belts Required

- A. Divide the Design Horsepower by the Corrected Horsepower per belt to find the number of belts required.
 The answer will usually contain a fraction; therefore always round up to the next whole number of belts.
 $DHP \div CHP = 9.0 \div 5.23 = 1.72$

Two PowerTwist Plus belts are okay for the application.

Arc of Contact Correction Factor (K ϕ) for V-Belt Drives

$\frac{D-d}{C}$	Arc of Contact, ϕ on Small Sheave Diameter	Factor K ϕ
		A, B, C, D, SPZ, SPA, SPB, SPC
0.00	180	1.00
0.10	174	0.99
0.20	169	0.97
0.30	163	0.96
0.40	157	0.94
0.50	151	0.93
0.60	145	0.91
0.70	139	0.89
0.80	133	0.87
0.90	127	0.85
1.00	120	0.82
1.10	113	0.80
1.20	106	0.77
1.30	99	0.73
1.40	91	0.70
1.50	83	0.65

Where: D = large datum diameter
d = small datum diameter
C = center distance

Table 2

Belt Length Correction Factors (L_c)

Length (inches)	Belt Cross Section				Length (mm)	Belt Cross Section			
	A	B	C	D		SPZ	SPA	SPB	SPC
26	0.78				512	0.79			
31	0.82				630	0.83			
35	0.85	0.80			710	0.85			
38	0.87	0.82			800	0.87	0.81		
42	0.89	0.84			900	0.89	0.83		
46	0.91	0.86			1000	0.91	0.85		
51	0.93	0.88	0.80		1120	0.93	0.86		
55	0.95	0.89	0.83		1250	0.95	0.88	0.88	
60	0.97	0.91	0.83		1400	0.98	0.90	0.85	
68	1.00	0.94	0.85		1500	0.99	0.91	0.86	
75	1.02	0.96	0.87		1600	1.00	0.92	0.87	
80	1.04	0.98	0.88		1800	1.02	0.94	0.89	
81	1.05	0.98	0.89		2000	1.04	0.96	0.91	0.85
85	1.05	0.99	0.90		2240	1.06	0.98	0.93	0.86
90	1.07	1.00	0.91		2500	1.08	1.00	0.94	0.88
96	1.08	1.02	0.92		2800	1.10	1.02	0.96	0.90
97	1.10	1.02	0.94		3150	1.12	1.04	0.98	0.91
105	1.10	1.03	0.94		3550	1.15	1.06	1.00	0.93
112	1.12	1.05	0.95		4000			1.02	0.95
120	1.13	1.06	0.96	0.88	4500			1.04	0.97
128	1.15	1.08	0.98	0.89	5000			1.05	0.98
144		1.10	1.00	0.91	5600			1.07	1.00
158		1.12	1.02	0.93	6300			1.09	1.02
173		1.14	1.04	0.94	7100			1.11	1.03
180		1.15	1.05	0.95	7500			1.12	1.04
195		1.17	1.07	0.96	8000			1.13	1.05
210		1.18	1.08	0.98	9000				1.07
240		1.22	1.10	1.00	9500				1.08
270		1.24	1.13	1.02					
300		1.27	1.15	1.04					
330			1.17	1.06					
360			1.18	1.07					
390			1.20	1.09					
420			1.21	1.10					
480				1.13					
540				1.15					
600				1.17					
660				1.18					

Table 3

$$\text{Belt Length} = 2C + 1.57(D + d) + \frac{(D - d)^2}{4C}$$

Where: D = large datum diameter
d = small datum diameter
C = center distance



PowerTwist Plus Power Ratings for 3L Section Belt

RPM of Faster Shaft	Basic Horsepower per Belt for Small Sheave Datum Diameter						RPM of Faster Shaft	Basic Horsepower per Belt for Small Sheave Datum Diameter						RPM of Faster Shaft	Basic Horsepower per Belt for Small Sheave Datum Diameter					
	2.00	2.50	3.00	3.50	4.00	4.50		2.00	2.50	3.00	3.50	4.00	4.50		2.00	2.50	3.00	3.50	4.00	4.50
1160	0.19	0.30	0.40	0.50	0.59	0.68	1800	0.27	0.42	0.56	0.70	0.83	0.96	3400	0.40	0.64	0.85	1.04	1.19	1.30
1750	0.26	0.41	0.55	0.69	0.82	0.94	2000	0.29	0.45	0.61	0.76	0.90	1.03	3600	0.42	0.66	0.87	1.05	1.20	
3450	0.41	0.65	0.86	1.04	1.19	1.30	2200	0.31	0.49	0.65	0.81	0.96	1.10	3800	0.43	0.68	0.89	1.07		
800	0.15	0.22	0.29	0.36	0.43	0.50	2400	0.33	0.52	0.69	0.86	1.01	1.15	4000	0.43	0.69	0.91	1.08		
1000	0.17	0.26	0.35	0.44	0.52	0.61	2600	0.35	0.55	0.73	0.90	1.06	1.20	4200	0.44	0.70	0.92			
1200	0.20	0.31	0.41	0.51	0.61	0.70	2800	0.36	0.57	0.77	0.94	1.10	1.24	4400	0.45	0.71				
1400	0.22	0.35	0.46	0.58	0.69	0.79	3000	0.38	0.60	0.80	0.98	1.14	1.27	4600	0.45	0.72				
1600	0.25	0.38	0.51	0.64	0.76	0.88	3200	0.39	0.62	0.83	1.01	1.17	1.29	4800	0.46					

PowerTwist Plus Power Ratings for A Section Belt

RPM of Faster Shaft	Basic Horsepower per Belt for Small Sheave Datum Diameter										RPM of Faster Shaft	Add-on Horsepower per belt for Speed Ratio					
	3.00	3.40	3.80	4.20	4.80	5.20	5.60	6.00	6.40	7.00		1.00 to 1.01	1.05 to 1.07	1.11 to 1.14	1.21 to 1.27	1.40 to 1.64	1.65 and higher
1160	1.17	1.53	1.89	2.24	2.76	3.10	3.44	3.77	4.10	4.58	1160	0.00	0.04	0.08	0.13	0.17	0.19
1750	1.55	2.07	2.58	3.07	3.80	4.27	4.74	5.19	5.64	6.29	1750	0.00	0.06	0.13	0.19	0.26	0.29
3450	2.29	3.16	4.00	4.80	5.93	6.64	7.30				3450	0.00	0.13	0.25	0.38	0.50	0.57
200	0.30	0.38	0.45	0.53	0.64	0.71	0.78	0.85	0.93	1.03	200	0.00	0.01	0.01	0.02	0.03	0.03
400	0.52	0.67	0.81	0.94	1.15	1.29	1.42	1.55	1.68	1.88	400	0.00	0.01	0.03	0.04	0.06	0.07
600	0.72	0.92	1.12	1.32	1.62	1.81	2.00	2.19	3.03	2.66	600	0.00	0.02	0.04	0.07	0.09	0.10
800	0.89	1.15	1.41	1.67	2.05	2.30	2.54	2.79	3.03	3.38	800	0.00	0.03	0.06	0.09	0.12	0.13
1000	1.05	1.37	1.69	2.00	2.45	2.76	3.05	3.35	3.64	4.07	1000	0.00	0.04	0.07	0.11	0.15	0.16
1200	1.20	1.57	1.94	2.31	2.84	3.19	3.54	3.88	4.21	4.71	1200	0.00	0.04	0.09	0.13	0.18	0.20
1400	1.34	1.76	2.18	2.60	3.21	3.60	3.99	4.38	4.76	5.32	1400	0.00	0.05	0.10	0.15	0.20	0.23
1600	1.46	1.94	2.41	2.87	3.55	3.99	4.43	4.85	5.27	5.89	1600	0.00	0.06	0.12	0.18	0.23	0.26
1800	1.58	2.11	2.63	3.14	3.88	4.36	4.84	5.30	5.76	6.42	1800	0.00	0.07	0.13	0.20	0.26	0.30
2000	1.69	2.27	2.84	3.39	4.19	4.71	5.23	5.72	6.21	6.92	2000	0.00	0.07	0.15	0.22	0.29	0.33
2200	1.80	2.42	3.03	3.62	4.49	5.05	5.59	6.12	6.63	7.37	2200	0.00	0.08	0.16	0.24	0.32	0.36
2400	1.89	2.56	3.21	3.85	4.77	5.36	5.93	6.48	7.02	7.79	2400	0.00	0.09	0.18	0.26	0.35	0.39
2600	1.98	2.69	3.39	4.06	5.03	5.65	6.25	6.82	7.38	8.17	2600	0.00	0.09	0.19	0.29	0.38	0.43
2800	2.07	2.82	3.55	4.25	5.27	5.91	6.54	7.13	7.70		2800	0.00	0.10	0.20	0.31	0.41	0.46
3000	2.14	2.93	3.70	4.44	5.49	6.16	6.80	7.41	7.99		3000	0.00	0.11	0.22	0.33	0.44	0.49
3200	2.21	3.04	3.84	4.61	5.70	6.39	7.04	7.66			3200	0.00	0.12	0.23	0.35	0.47	0.53
3400	2.27	3.14	3.97	4.76	5.89	6.59	7.25				3400	0.00	0.12	0.25	0.37	0.50	0.56
3600	2.33	3.23	4.09	4.91	6.06	6.77					3600	0.00	0.13	0.26	0.39	0.53	0.59
3800	2.38	3.31	4.19	5.04	6.21						3800	0.00	0.14	0.28	0.42	0.56	0.63
4000	2.42	3.38	4.29	5.15							4000	0.00	0.15	0.29	0.44	0.59	0.66
4200	2.45	3.44	4.37	5.25							4200	0.00	0.15	0.31	0.46	0.61	0.69
4400	2.48	3.50	4.45	5.33							4400	0.00	0.16	0.32	0.48	0.64	0.72
4600	2.51	3.54	4.51								4600	0.00	0.17	0.34	0.50	0.67	0.76
4800	2.52	3.58	4.55								4800	0.00	0.18	0.35	0.53	0.70	0.79
5000	2.53	3.60									5000	0.00	0.18	0.37	0.55	0.73	0.82
5200	2.53	3.62									5200	0.00	0.19	0.38	0.57	0.76	0.86
5400	2.52	3.62									5400	0.00	0.20	0.39	0.59	0.79	0.89



PowerTwist Plus Power Ratings for B Section Belt

RPM of Faster Shaft	Basic Horsepower per Belt for Small Sheave Datum Diameter									RPM of Faster Shaft	Add-on Horsepower per belt for Speed Ratio					
	5.00*	5.20*	5.40	6.00	6.40	6.80	7.40	8.60	9.40		1.00 to 1.01	1.05 to 1.07	1.11 to 1.14	1.21 to 1.27	1.40 to 1.64	1.65 and higher
1160	3.51	3.81	4.11	4.99	5.57	6.14	6.99	8.62	9.68	1160	0.00	0.04	0.08	0.13	0.17	0.19
1750	4.61	5.02	5.43	6.64	7.43	8.20	9.32	11.44	12.76	1750	0.00	0.06	0.13	0.19	0.26	0.29
3450	6.02	6.65	7.22							3450	0.00	0.13	0.25	0.38	0.50	0.57
200	0.89	0.96	1.02	1.21	1.34	1.46	1.65	2.02	2.26	200	0.00	0.01	0.01	0.02	0.03	0.03
400	1.57	1.69	1.80	2.16	2.39	2.62	2.97	3.65	4.10	400	0.00	0.01	0.03	0.04	0.06	0.07
600	2.15	2.32	2.49	3.00	3.33	3.66	4.15	5.12	5.75	600	0.00	0.02	0.04	0.07	0.09	0.10
800	2.68	2.90	3.12	3.76	4.19	4.61	5.24	6.46	7.26	800	0.00	0.03	0.06	0.09	0.12	0.13
1000	3.16	3.42	3.69	4.47	4.98	5.49	6.24	7.71	8.65	1000	0.00	0.04	0.07	0.11	0.15	0.16
1200	3.59	3.90	4.21	5.12	5.71	6.30	7.17	8.84	9.92	1200	0.00	0.04	0.09	0.13	0.18	0.20
1400	3.99	4.34	4.69	5.72	6.39	7.05	8.02	9.88	11.07	1400	0.00	0.05	0.10	0.15	0.20	0.23
1600	4.36	4.75	5.13	6.27	7.00	7.73	8.79	10.81	12.09	1600	0.00	0.06	0.12	0.18	0.23	0.26
1800	4.69	5.11	5.53	6.76	7.57	8.35	9.49	11.63	12.97	1800	0.00	0.07	0.13	0.20	0.26	0.30
2000	4.98	5.44	5.89	7.21	8.07	8.90	10.10	12.34	13.70	2000	0.00	0.07	0.15	0.22	0.29	0.33
2200	5.24	5.73	6.21	7.61	8.51	9.38	10.64	12.93		2200	0.00	0.08	0.16	0.24	0.32	0.36
2400	5.47	5.98	6.49	7.96	8.90	9.80	11.08			2400	0.00	0.09	0.18	0.26	0.35	0.39
2600	5.66	6.19	6.72	8.25	9.22	10.14				2600	0.00	0.09	0.19	0.29	0.38	0.43
2800	5.81	6.37	6.92	8.49	9.47	10.40				2800	0.00	0.10	0.20	0.31	0.41	0.46
3000	5.93	6.50	7.06	8.66						3000	0.00	0.11	0.22	0.33	0.44	0.49
3200	6.00	6.59	7.17							3200	0.00	0.12	0.23	0.35	0.47	0.53
3400	6.04	6.64	7.22							3400	0.00	0.12	0.25	0.37	0.50	0.56
3600	6.04	6.64	7.22							3600	0.00	0.13	0.26	0.39	0.53	0.59

* Indicates diameters below minimum recommended for B V-belt. Can be used only if a reduction in belt service life is acceptable.

PowerTwist Plus Power Ratings for C Section Belt

RPM of Faster Shaft	Basic Horsepower per Belt for Small Sheave Datum Diameter								RPM of Faster Shaft	Add-on Horsepower per belt for Speed Ratio					
	8.00*	8.50*	9.00	10.00	11.00	12.00	14.00	16.00		1.00 to 1.01	1.05 to 1.07	1.11 to 1.14	1.21 to 1.27	1.40 to 1.64	1.65 and higher
870	8.41	9.43	10.44	12.41	14.34	16.23	19.84	23.25	870	0.00	0.03	0.06	0.10	0.13	0.14
1160	10.21	11.48	12.73	15.16	17.50	19.75	23.96	27.77	1160	0.00	0.04	0.08	0.13	0.17	0.19
1750	12.78	14.41	15.98	18.96					1750	0.00	0.06	0.13	0.19	0.26	0.29
200	2.68	2.97	3.25	3.82	4.38	4.93	6.02	7.09	200	0.00	0.01	0.01	0.02	0.03	0.03
400	4.68	5.21	5.74	6.78	7.80	8.82	10.80	12.75	400	0.00	0.01	0.03	0.04	0.06	0.07
600	6.40	7.15	7.90	9.37	10.81	12.23	15.00	17.67	600	0.00	0.02	0.04	0.07	0.09	0.10
800	7.92	8.87	9.82	11.67	13.48	15.26	18.67	21.92	800	0.00	0.03	0.06	0.09	0.12	0.13
1000	9.26	10.39	11.52	13.71	15.84	17.91	21.83	25.48	1000	0.00	0.04	0.07	0.11	0.15	0.16
1200	10.43	11.73	13.01	15.49	17.88	20.17	24.44		1200	0.00	0.04	0.09	0.13	0.18	0.20
1400	11.43	12.87	14.28	17.00	19.59	22.02			1400	0.00	0.05	0.10	0.15	0.20	0.23
1600	12.27	13.83	15.34	18.23	20.94	23.44			1600	0.00	0.06	0.12	0.18	0.23	0.26
1800	12.93	14.58	16.17	19.17					1800	0.00	0.07	0.13	0.20	0.26	0.30
2000	13.41	15.12	16.75						2000	0.00	0.07	0.15	0.22	0.29	0.33
2200	13.69	15.44							2200	0.00	0.08	0.16	0.24	0.32	0.36

* Indicates diameters below minimum recommended for C V-belt. Can be used only if a reduction in belt service life is acceptable.

- The ultimate red V-belt.
- High performance urethane elastomer.
- High strength — low stretch.
- Superior resistance to hostile environments.
- Made to length by hand — no tools.
- Can be installed without dismantling drive components.





NuLink Power Ratings for A Section Belt

RPM of Faster Shaft	Basic Horsepower per Belt for Small Sheave Datum Diameter										RPM of Faster Shaft	Add-on Horsepower per belt for Speed Ratio					
	3.00	3.40	3.80	4.20	4.80	5.20	5.60	6.00	6.40	7.00		1.00 to 1.01	1.05 to 1.07	1.11 to 1.14	1.21 to 1.27	1.40 to 1.64	1.65 and higher
1160	1.41	1.85	2.29	2.72	3.36	3.78	4.18	4.59	4.99	5.59	1160	0.00	0.04	0.08	0.14	0.18	0.20
1750	1.85	2.49	3.11	3.71	4.59	5.17	5.73	6.28	6.82	7.60	1750	0.00	0.06	0.14	0.20	0.27	0.30
3450	2.62	3.65	4.64	5.57	6.86	7.64	8.35	8.96	9.57	0.00	3450	0.00	0.14	0.26	0.40	0.53	0.60
200	0.37	0.45	0.55	0.64	0.77	0.85	0.95	1.04	1.12	1.24	200	0.00	0.01	0.01	0.02	0.03	0.03
400	0.63	0.80	0.97	1.14	1.39	1.56	1.72	1.89	2.04	2.29	400	0.00	0.01	0.03	0.04	0.06	0.07
600	0.86	1.11	1.36	1.60	1.96	2.19	2.43	2.66	2.90	3.24	600	0.00	0.02	0.04	0.07	0.09	0.11
800	1.07	1.39	1.71	2.03	2.49	2.79	3.09	3.39	3.69	4.12	800	0.00	0.03	0.06	0.09	0.13	0.14
1000	1.26	1.65	2.04	2.42	2.98	3.35	3.71	4.07	4.43	4.96	1000	0.00	0.04	0.07	0.12	0.16	0.17
1200	1.44	1.90	2.35	2.79	3.45	3.87	4.30	4.72	5.12	5.73	1200	0.00	0.04	0.09	0.14	0.19	0.21
1400	1.60	2.12	2.64	3.14	3.89	4.37	4.85	5.32	5.78	6.46	1400	0.00	0.05	0.11	0.16	0.21	0.24
1600	1.75	2.34	2.91	3.47	4.30	4.84	5.37	5.88	6.39	7.13	1600	0.00	0.06	0.13	0.19	0.24	0.27
1800	1.89	2.53	3.17	3.78	4.69	5.27	5.85	6.40	6.95	7.74	1800	0.00	0.07	0.14	0.21	0.27	0.32
2000	2.02	2.72	3.40	4.07	5.05	5.68	6.29	6.89	7.47	8.31	2000	0.00	0.07	0.16	0.23	0.30	0.35
2200	2.13	2.89	3.63	4.35	5.39	6.06	6.71	7.33	7.93	8.79	2200	0.00	0.08	0.17	0.25	0.34	0.38
2400	2.24	3.05	3.84	4.59	5.70	6.40	7.08	7.73	8.35	9.22	2400	0.00	0.09	0.19	0.27	0.37	0.41
2600	2.33	3.19	4.03	4.83	5.98	6.71	7.41	8.08	8.70	9.57	2600	0.00	0.09	0.20	0.30	0.40	0.45
2800	2.42	3.32	4.19	5.04	6.24	6.99	7.71	8.38	9.05		2800	0.00	0.11	0.21	0.33	0.43	0.48
3000	2.49	3.44	4.35	5.23	6.46	7.23	7.95	8.63	9.22		3000	0.00	0.12	0.23	0.35	0.46	0.51
3200	2.56	3.54	4.49	5.39	6.66	7.44	8.16	8.87			3200	0.00	0.13	0.24	0.37	0.49	0.56
3400	2.61	3.64	4.61	5.53	6.82	7.60	8.33				3400	0.00	0.13	0.26	0.39	0.53	0.59
3600	2.64	3.71	4.72	5.66	6.95	7.73					3600	0.00	0.14	0.27	0.41	0.56	0.62
3800	2.68	3.77	4.79	5.66	7.05						3800	0.00	0.15	0.29	0.44	0.59	0.66
4000	2.70	3.81	4.85	5.82							4000	0.00	0.16	0.30	0.46	0.62	0.69
4200	2.71	3.85	4.90	5.86							4200	0.00	0.16	0.33	0.48	0.64	0.72
4400	2.70	3.85	4.92	5.88							4400	0.00	0.17	0.34	0.50	0.67	0.76
4600	2.68	3.85	4.92								4600	0.00	0.18	0.36	0.53	0.70	0.80
4800	2.65	3.84	4.90								4800	0.00	0.19	0.37	0.56	0.74	0.83
5000	2.61	3.80									5000	0.00	0.19	0.39	0.58	0.77	0.86

NuLink Power Ratings for B Section Belt

RPM of Faster Shaft	Basic Horsepower per Belt for Small Sheave Datum Diameter									RPM of Faster Shaft	Add-on Horsepower per belt for Speed Ratio					
	5.00*	5.20*	5.40	6.00	6.40	6.80	7.40	8.60	9.40		1.00 to 1.01	1.05 to 1.07	1.11 to 1.14	1.21 to 1.27	1.40 to 1.64	1.65 and higher
1160	4.40	4.75	5.10	6.13	6.80	7.47	8.45	10.40	11.59	1160	0.00	0.04	0.08	0.14	0.18	0.20
1750	5.80	6.27	6.74	8.14	9.04	9.94	11.22	13.62	15.09	1750	0.00	0.06	0.14	0.2	0.27	0.30
3450	7.26	7.89	8.49	10.12	11.04	11.87	0.00	0.00	0.00	3450	0.00	0.14	0.26	0.4	0.53	0.60
200	1.09	1.17	1.24	1.46	1.61	1.75	1.97	2.39	2.68	200	0.00	0.01	0.01	0.02	0.03	0.03
400	1.93	2.07	2.21	2.62	2.89	3.16	3.56	4.36	4.88	400	0.00	0.01	0.03	0.04	0.06	0.07
600	2.67	2.87	3.06	3.66	4.05	4.43	5.00	6.14	6.87	600	0.00	0.02	0.04	0.07	0.09	0.11
800	3.34	3.60	3.85	4.61	5.11	5.59	6.33	7.76	8.69	800	0.00	0.03	0.06	0.09	0.13	0.14
1000	3.95	4.26	4.56	5.48	6.08	6.67	7.54	9.29	10.40	1000	0.00	0.04	0.07	0.12	0.16	0.17
1200	4.51	4.87	5.23	6.28	6.97	7.65	8.67	10.58	11.87	1200	0.00	0.04	0.09	0.14	0.19	0.21
1400	5.01	5.43	5.82	7.02	7.79	8.56	9.66	11.87	13.16	1400	0.00	0.05	0.11	0.16	0.21	0.24
1600	5.47	5.92	6.38	7.68	8.54	9.38	10.58	12.88	14.35	1600	0.00	0.06	0.13	0.19	0.24	0.27
1800	5.89	6.38	6.86	8.28	9.20	10.12	11.41	13.80	15.27	1800	0.00	0.07	0.14	0.21	0.27	0.32
2000	6.26	6.78	7.30	8.80	9.75	10.67	12.05	14.54	16.01	2000	0.00	0.07	0.16	0.23	0.30	0.35
2200	6.57	7.12	7.67	9.29	10.30	11.22	12.33	15.09		2200	0.00	0.08	0.17	0.25	0.34	0.38
2400	6.83	7.41	7.98	9.66	10.67	11.68	13.06			2400	0.00	0.09	0.19	0.27	0.37	0.41
2600	7.04	7.64	8.22	9.95	10.95	11.96				2600	0.00	0.09	0.20	0.3	0.40	0.45
2800	7.19	7.80	8.41	10.21	11.13	12.14				2800	0.00	0.11	0.21	0.33	0.43	0.48
3000	7.28	7.90	8.52	10.21						3000	0.00	0.12	0.23	0.35	0.46	0.51
3200	7.31	7.94	8.56							3200	0.00	0.13	0.24	0.37	0.49	0.56
3400	7.28	7.91	8.51							3400	0.00	0.13	0.26	0.39	0.53	0.59
3600	7.19	7.80	8.39							3600	0.00	0.14	0.27	0.41	0.56	0.62

* Indicates diameters below minimum recommended for B V-belt. Can be used only if a reduction in belt service life is acceptable.



NuLink Power Ratings for C Section Belt

RPM of Faster Shaft	Basic Horsepower per Belt for Small Sheave Datum Diameter								RPM of Faster Shaft	Add-on Horsepower per belt for Speed Ratio					
	8.00*	8.50*	9.00	10.00	11.00	12.00	14.00	16.00		1.00 to 1.01	1.05 to 1.07	1.11 to 1.14	1.21 to 1.27	1.40 to 1.64	1.65 and higher
870	9.27	10.35	11.34	13.41	15.30	17.19	20.88	24.30	870	0.00	0.03	0.06	0.11	0.14	0.15
1160	11.34	12.69	13.95	16.38	18.72	20.97	25.11	28.80	1160	0.00	0.04	0.08	0.14	0.18	0.20
1750	14.22	15.84	17.37	20.25	22.77	25.11	0.00	0.00	1750	0.00	0.06	0.14	0.20	0.27	0.30
200	2.84	3.13	3.42	3.99	4.55	5.11	6.22	7.31	200	0.00	0.01	0.01	0.02	0.03	0.03
400	5.06	5.60	6.13	7.19	8.24	9.27	11.25	13.32	400	0.00	0.01	0.03	0.04	0.06	0.07
600	7.00	7.77	8.52	9.99	11.52	12.96	15.75	18.45	600	0.00	0.02	0.04	0.07	0.09	0.11
800	8.73	9.72	10.62	12.51	14.40	16.20	19.62	22.95	800	0.00	0.03	0.06	0.09	0.13	0.14
1000	10.26	11.43	12.60	14.76	16.92	18.99	22.95	26.55	1000	0.00	0.04	0.07	0.12	0.16	0.17
1200	11.61	12.96	14.22	16.74	19.08	21.42	25.56		1200	0.00	0.04	0.09	0.14	0.19	0.21
1400	12.78	14.22	15.57	18.27	20.88	23.22			1400	0.00	0.05	0.11	0.16	0.21	0.24
1600	13.68	15.21	16.74	19.53	22.14	24.48			1600	0.00	0.06	0.13	0.19	0.24	0.27
1800	14.40	16.02	17.55	20.43					1800	0.00	0.07	0.14	0.21	0.27	0.32
2000	14.94	16.56	18.09						2000	0.00	0.07	0.16	0.23	0.30	0.35
2200	15.12	16.74							2200	0.00	0.08	0.17	0.25	0.34	0.38

* Indicates diameters below minimum recommended for C V-belt. Can be used only if a reduction in belt service life is acceptable.

NuLink Power Ratings for D Section Belt

RPM of Faster Shaft	Basic Horsepower per Belt for Small Sheave Datum Diameter						RPM of Faster Shaft	Add-on Horsepower per belt for Speed Ratio					
	13.00	14.00	15.00	16.00	18.00	22.00		1.00 to 1.01	1.05 to 1.07	1.11 to 1.14	1.21 to 1.27	1.40 to 1.64	1.65 and higher
575	20.01	22.63	25.25	27.77	32.73	41.98	575	0.00	0.02	0.04	0.06	0.08	0.09
870	26.55	30.01	33.38	36.65	42.73	53.39	870	0.00	0.03	0.06	0.11	0.14	0.15
1160	30.67	34.60	38.15				1160	0.00	0.04	0.06	0.14	0.18	0.20
200	8.56	9.63	10.66	11.78	13.84	17.86	200	0.00	0.01	0.01	0.02	0.03	0.03
400	15.15	17.11	18.68	20.94	24.68	31.98	400	0.00	0.01	0.03	0.04	0.06	0.07
600	20.66	23.38	25.99	28.61	33.75	43.29	600	0.00	0.02	0.04	0.07	0.09	0.11
800	25.15	28.52	31.70	34.88	40.77	51.43	800	0.00	0.03	0.06	0.09	0.13	0.14
1000	28.70	32.44	36.00				1000	0.00	0.04	0.07	0.12	0.16	0.17
1200	31.04	34.97					1200	0.00	0.04	0.09	0.14	0.19	0.21

- For when your drive needs more “muscle.”
- Ideal for heavier shock loaded applications and reciprocated engine powered drives.
- Exclusive T-stud for easy assembly.
- Highly resistant to oil, water, chemicals and extreme temperatures.
- Easy to fit — no need to dismantle drives.
- Reduces transmitted vibration.



SUPER T LINK[®]

SuperTLink Power Ratings for SPZ Section Belt

RPM of Faster Shaft	Basic Horsepower per Belt for Small Sheave Outside Diameter										RPM of Faster Shaft	Add-on Horsepower per belt for Speed Ratio				
	71mm	80mm	90mm	100mm	112mm	125mm	140mm	150mm	160mm	1.00 to 1.01		1.01 to 1.05	1.08 to 1.26	1.27 to 1.57	1.58 and higher	
1160	1.31	1.72	2.18	2.62	3.16	3.72	4.38	4.81	5.26		1160	0.00	0.03	0.12	0.19	0.23
1750	1.81	2.40	3.07	3.71	4.42	5.29	6.20	6.80	7.39		1750	0.00	0.04	0.20	0.29	0.36
3450	2.93	3.99	5.13	6.23	7.51	8.78	10.19				3450	0.00	0.07	0.40	0.57	0.70
200	0.30	0.38	0.48	0.56	0.72	0.78	0.90	1.00	1.08		200	0.00	0.00	0.03	0.04	0.04
400	0.52	0.70	0.86	1.04	1.24	1.45	1.71	1.87	2.02		400	0.00	0.01	0.04	0.07	0.08
600	0.64	1.00	1.24	1.48	2.02	2.09	2.44	2.69	2.92		600	0.00	0.01	0.08	0.10	0.12
800	0.97	1.26	1.58	1.91	2.28	2.70	3.16	3.47	3.77		800	0.00	0.01	0.10	0.15	0.16
1000	1.16	1.52	1.92	2.31	2.77	3.28	3.54	3.85	4.60		1000	0.00	0.01	0.11	0.16	0.20
1200	1.35	1.77	2.24	2.70	3.25	3.84	4.51	4.94	5.38		1200	0.00	0.03	0.14	0.20	0.24
1400	1.52	2.01	2.55	3.09	3.71	4.38	5.15	5.64	6.14		1400	0.00	0.03	0.16	0.23	0.29
1600	1.68	2.24	2.84	3.44	4.15	4.90	5.76	6.31	6.87		1600	0.00	0.03	0.19	0.27	0.33
1800	1.84	2.46	3.14	3.80	4.57	5.41	6.62	6.95	7.55		1800	0.00	0.04	0.22	0.30	0.37
2000	2.00	2.68	3.41	4.12	4.98	5.89	6.91	7.57	8.22		2000	0.00	0.04	0.24	0.33	0.41
2200	2.16	2.88	3.69	4.46	5.38	6.36	7.44	8.15	8.84		2200	0.00	0.04	0.26	0.37	0.45
2400	2.29	3.09	3.93	4.78	5.76	6.80	7.96	8.33	9.44		2400	0.00	0.04	0.29	0.41	0.49
2600	2.42	3.28	4.18	4.97	6.13	7.22	8.45	9.23	9.98		2600	0.00	0.05	0.30	0.44	0.53
2800	2.57	3.45	4.42	5.38	6.47	7.63	8.90	9.72	10.51		2800	0.00	0.05	0.33	0.48	0.57
3000	2.68	3.63	4.65	5.64	6.80	8.01	9.34	10.18	10.98		3000	0.00	0.05	0.36	0.49	0.61
3200	2.79	3.80	4.86	5.91	7.13	8.37	9.74	10.60			3200	0.00	0.07	0.38	0.53	0.67
3400	2.87	3.95	5.08	6.17	7.43	8.71	10.10				3400	0.00	0.07	0.40	0.57	0.70
3600	3.00	4.10	5.27	6.41	7.70	9.02					3600	0.00	0.07	0.42	0.60	0.74
3800	3.11	4.25	5.46	6.74	7.96	9.31					3800	0.00	0.07	0.45	0.64	0.78
4000	3.20	4.38	5.64	6.84	8.21						4000	0.00	0.07	0.48	0.67	0.82
4200	3.29	4.51	5.80	7.03	8.42						4200	0.00	0.08	0.49	0.70	0.86
4400	3.36	4.63	5.95	7.21							4400	0.00	0.08	0.52	0.74	0.90
4600	3.44	4.73	6.09	7.38							4600	0.00	0.09	0.55	0.76	0.94
4800	3.51	4.83	6.21	7.52							4800	0.00	0.09	0.56	0.80	0.98
5000	3.56	4.92	6.33								5000	0.00	0.09	0.59	0.85	1.04
5200	3.62	5.01	6.45								5200	0.00	0.09	0.61	0.86	1.07
5400	3.66	5.07	6.52								5400	0.00	0.10	0.64	0.90	1.11
5600	3.69	5.13									5600	0.00	0.11	0.68	0.99	1.21
5800	3.73	5.18									5800	0.00	0.11	0.78	1.02	1.25
6000	3.74	5.22									6000	0.00	0.12	0.75	1.06	1.30
6200	3.77										6200	0.00	0.12	0.76	1.09	1.34
6400	3.77										6400	0.00	0.12	0.79	1.13	1.34

SuperTLink Power Ratings for SPA Section Belt

RPM of Faster Shaft	Basic Horsepower per Belt for Small Sheave Outside Diameter										RPM of Faster Shaft	Add-on Horsepower per belt for Speed Ratio				
	90mm	100mm	112mm	125mm	140mm	150mm	160mm	200mm	250mm	1.00 to 1.01		1.01 to 1.05	1.08 to 1.26	1.27 to 1.57	1.58 and higher	
1160	2.19	2.95	3.86	4.81	5.90	6.61	7.28	10.04	13.34		1160	0.00	0.05	0.32	0.46	0.55
1750	2.95	4.08	5.33	6.70	8.28	9.25	10.24	14.04			1750	0.00	0.08	0.48	0.71	0.88
3450	4.34	6.19	8.33	10.51							3450	0.00	0.14	0.94	1.34	1.64
200	0.53	0.68	0.86	1.05	1.27	1.42	1.56	3.07	2.83		200	0.00	0.01	0.05	0.08	0.09
400	0.96	1.24	1.58	1.94	2.36	2.62	2.91	3.97	5.30		400	0.00	0.01	0.11	0.11	0.19
600	1.32	1.73	2.23	2.76	3.35	3.76	4.15	5.71	7.62		600	0.00	0.03	0.16	0.23	0.29
800	1.65	2.19	2.84	3.52	4.05	4.82	5.34	7.35	9.81		800	0.00	0.04	0.22	0.30	0.38
1000	1.98	2.62	3.41	4.26	5.21	5.83	6.46	8.92	11.88		1000	0.00	0.04	0.29	0.40	0.48
1200	2.25	3.03	3.96	4.94	6.06	6.80	7.54	10.39	13.81		1200	0.00	0.05	0.33	0.48	0.57
1400	2.54	3.43	4.48	5.61	6.89	7.67	8.56	11.80	15.61		1400	0.00	0.07	0.38	0.55	0.67
1600	2.79	3.78	4.98	6.24	7.67	8.62	9.54	13.11	17.25		1600	0.00	0.07	0.44	0.63	0.76
1800	3.02	4.12	5.44	6.84	8.42	9.45	10.46	14.34	19.43		1800	0.00	0.08	0.49	0.70	0.90
2000	3.24	4.46	5.89	7.41	9.12	10.23	11.32	15.47			2000	0.00	0.09	0.55	0.78	0.96
2200	3.44	4.77	6.31	7.95	9.79	10.99	12.14	16.50			2200	0.00	0.09	0.60	0.86	1.05
2400	3.63	5.04	6.70	8.45	10.41	11.66	12.89	17.41			2400	0.00	0.10	0.67	0.93	1.15
2600	3.81	5.31	7.07	8.92	9.89	12.29	13.57				2600	0.00	0.11	0.71	1.01	1.24
2800	3.96	5.56	7.41	9.35	11.50	12.88	14.19				2800	0.00	0.11	0.76	1.09	1.34
3000	4.10	5.77	7.72	9.76	11.99	13.39	14.74				3000	0.00	0.12	0.83	1.17	1.43
3200	4.22	5.98	8.01	10.12	12.41	13.85					3200	0.00	0.14	0.90	1.24	1.53
3400	4.32	6.16	8.27	10.43	12.77						3400	0.00	0.14	0.93	1.32	1.62
3600	4.40	6.31	8.48	10.72							3600	0.00	0.15	0.98	1.41	1.72
3800	4.47	6.45	8.67	10.95							3800	0.00	0.16	1.05	1.48	1.81
4000	4.52	6.55	8.84	11.14							4000	0.00	0.16	1.09	1.68	1.91
4200	4.56	6.62	8.97								4200	0.00	0.18	1.15	1.63	2.00
4400	4.56	6.69	9.05								4400	0.00	0.19	1.19	1.71	2.10
4600	4.55	6.71									4600	0.00	0.19	1.26	1.80	2.19
4800	4.52	6.71									4800	0.00	0.20	1.31	1.87	2.29
5000	4.47										5000	0.00	0.22	1.38	1.95	2.38
5200	4.40										5200	0.00	0.22	1.43	2.06	2.48

SUPER T LINK®

SuperTLink Power Ratings for SPB Section Belt

RPM of Faster Shaft	Basic Horsepower per Belt for Small Sheave Outside Diameter									RPM of Faster Shaft	Add-on Horsepower per belt for Speed Ratio				
	140mm	150mm	160mm	180mm	200mm	224mm	250mm	315mm	355mm		1.00 to 1.01	1.01 to 1.05	1.08 to 1.26	1.27 to 1.57	1.58 and higher
1160	6.56	7.63	8.89	11.17	13.40	16.03	18.80	25.37	29.14	1160	0.00	0.10	0.68	1.00	1.21
1750	8.85	10.49	12.10	15.25	18.30	21.78	25.36			1750	0.00	0.15	1.05	1.49	1.73
200	1.53	1.76	2.00	2.46	2.92	3.47	4.05	5.50	6.38	200	0.00	0.01	0.11	0.09	0.20
400	2.76	3.21	3.66	4.53	5.41	4.98	7.55	7.95	11.95	400	0.00	0.04	0.24	0.34	0.42
600	3.88	4.52	5.17	6.45	6.57	9.20	9.22	14.73	17.07	600	0.00	0.05	0.36	0.51	0.63
800	4.65	5.75	6.57	8.23	9.86	11.78	12.34	18.83	21.79	800	0.00	0.08	0.48	0.68	0.85
1000	5.98	6.88	7.89	9.90	11.88	14.20	16.69	22.61	26.08	1000	0.00	0.09	0.60	0.86	1.05
1200	6.74	7.93	9.13	11.48	13.78	16.47	19.31	26.04	29.87	200	0.00	0.11	0.72	1.04	1.26
1400	7.57	8.93	10.28	12.94	15.54	18.56	21.72	29.07		1400	0.00	0.12	0.85	1.20	1.46
1600	8.32	9.85	11.35	14.31	17.16	23.02	23.90			1600	0.00	0.15	0.97	1.38	1.68
1800	9.02	10.69	12.34	15.55	18.65	22.19	25.82			1800	0.00	0.16	1.08	1.54	1.88
2000	9.64	11.47	13.23	16.69	19.98	23.71				2000	0.00	0.19	1.21	1.71	2.10
2200	10.21	12.15	14.04	17.68	21.13					2200	0.00	0.20	1.32	1.88	2.31
2400	10.72	12.75	14.75	18.56	22.13					2400	0.00	0.23	1.45	2.05	2.53
2600	11.13	13.27	15.35	19.30						2600	0.00	0.24	1.57	2.23	2.73
2800	11.48	13.71	15.85							2800	0.00	0.27	1.69	2.39	2.95
3000	11.74	14.04	16.24							3000	0.00	0.29	1.81	2.57	3.14
3200	11.92									3200	0.00	0.29	1.94	2.74	3.36
3400	12.03									3400	0.00	0.32	2.05	2.92	3.57

SuperTLink Power Ratings for SPC Section Belt

RPM of Faster Shaft	Basic Horsepower per Belt for Small Sheave Outside Diameter									RPM of Faster Shaft	Add-on Horsepower per belt for Speed Ratio				
	224mm	250mm	280mm	300mm	315mm	335mm	355mm	400mm	500mm		1.00 to 1.01	1.01 to 1.05	1.08 to 1.26	1.27 to 1.57	1.58 and higher
870	15.81	19.87	24.48	27.49	29.73	32.65	35.53	41.83		870	0.00	0.22	2.04	2.02	2.47
1160	19.69	24.68	30.40	34.11	36.81	40.35	43.79			1160	0.00	0.29	1.90	2.70	3.30
1750	25.14	31.71								1750	0.00	0.45	2.87	4.07	5.00
200	4.64	5.72	6.95	7.78	8.40	9.20	10.01	11.82	15.77	200	0.00	0.05	0.33	0.48	0.29
400	8.40	10.45	12.79	14.34	15.49	17.02	18.53	21.93	29.26	400	0.00	0.10	0.65	0.93	1.15
600	11.76	14.72	18.08	20.29	21.94	24.12	26.27	31.05	41.26	600	0.00	0.15	0.98	1.41	1.71
800	14.82	18.60	22.90	25.72	27.81	30.56	33.26	39.22	51.64	800	0.00	0.20	1.31	1.86	2.28
1000	17.57	22.13	27.27	30.61	33.07	36.31	39.46	46.32		1000	0.00	0.26	1.64	2.33	2.85
1200	20.03	25.28	31.13	34.92	37.69	41.29	44.82	52.22		1200	0.00	0.30	1.97	2.79	3.43
1400	22.18	28.02	34.48	38.59	41.57	45.42				1400	0.00	0.36	2.29	3.26	3.99
1600	24.00	30.33	37.22							1600	0.00	0.41	2.62	3.72	4.56
1800	25.47	32.17								1800	0.00	0.46	2.95	4.19	5.13
2000	26.56									2000	0.00	0.54	3.45	4.89	6.01

- Designed for SP Metric rated drives.
- Highly resistant to oil, water, chemicals and extreme temperatures.
- Exclusive T-stud for easy assembly.
- Easy to fit — no need to dismantle drives.
- Reduces transmitted vibration.

