



## Motorized Pulley 500L & 500M, Ø 19.72 in. (501 mm) 60 Hz

Motor		No. Gear Stages	Model	Nominal belt speed <sup>1</sup> at Full Load 60 Hz fpm	Actual belt speed <sup>1</sup> at Full Load 60 Hz fpm	Belt Pull <sup>2</sup> lbs	Max. Radial Load <sup>3</sup> T1 + T2 lbs	Min. RL in	RL Dimension inches (RL>78.74" available on request)											Type of Bracket
Power HP	No. of Poles								Weight in lbs <sup>5</sup>											
									23.62	25.59	27.56	29.53	31.50	33.46	35.43	37.40	39.37	longer than 39.37"		
3	8	3	500M	48 60 76	55 67 80	1696 1380 1154	9487	25.59	-	593	610	628	645	663	680	697	715	See Foot-note <sup>4</sup>	KL60 6YA09	
		2	500L	96 120 150 192 240	102 126 151 190 247	905 736 616 487 375	7868	23.62	498	516	533	550	568	585	603	620	638			
5.5	8	3	500M	76 96 120	80 101 126	2098 1663 1338	9487	25.59	-	613	630	647	665	682	699	717	735			
		2	500L	150 192 240 300 384 480	151 190 247 311 383 487	1119 887 681 540 439 346	7868	23.62	518	535	553	570	588	605	623	640	657			
7.5	4	3	500M	120 150 192	134 160 202	1725 1442 1144	9487	25.59	-	593	610	628	645	663	680	697	715			
		2	500L	240 300 384 480 600 768	251 301 379 494 622 766	920 770 610 468 372 302	7868	23.62	498	516	533	550	568	585	603	620	638			
10	6	3	500M	150 192 240	175 221 272	1795 1425 1157	9487	29.53	-	-	-	641	658	676	693	711	728			
		4	2	500L	300 384 480 600 768	301 379 494 622 766	1049 831 639 507 411	7868	23.62	511	529	546	564	581	599	616	633			651
15	4	3	500M	240 300 384	251 301 379	1840 1538 1220	9487	29.53	-	-	-	667	685	702	720	737	755			
		2	500L	480 600 768	494 622 766	936 743 604	7868	27.56	-	-	573*	590	608	625	642	660	677			
20	2	3	500M	300 384 480	321 405 527	1967 1560 1196	9487	29.53	-	-	-	667	685	702	720	737	755			
		2	500L	600 768	601 759	1049 831	7868	27.56	-	-	573*	590	608	625	642	660	677			

Idler Pulley	UT400M	9,100	23.62	271	286	304	319	334	345	360	376	391	See Foot-note <sup>4</sup>	KL60 6YA09
	UT400H	11,250	25.59	-	295	315	330	345	356	371	387	402		

- 1 Use "nominal belt speed" to specify pulley. "Actual belt speed" is presented (for pulley lagged with 3/8" thick rubber) to assist with process design calculations. See Technical Precautions page 77. Note that "actual belt speed" decreases when lagging is not used due to decreased pulley diameter.
  - 2 Belt pull value allows for gearbox loss.
  - 3 Pulley must not be subjected to radial load exceeding "Maximum radial load" defined above. See "Belt Tension" section in Technical Precautions, page 78.
  - 4 Additional Motorized Pulley weight, specified per Roller Length: 39.37" ≤ RL ≤ 78.749" Wt = 8.7 lbs/in. Pulley weight: 39.37" ≤ RL ≤ 78.74" Wt = 7.6 lbs/in.
  - 5 All weights shown above are for pulleys "fully lagged" with 3/8" thick rubber. To calculate unlagged pulley weight subtract 0.9 lbs/in of Roller Length from above.
- \* Special "Short Roller Length" Option



# Motorized Pulley 500H, Ø 19.72 in. (501 mm) (Design based on former TM500/TM501)

**60 Hz**

Motor		No. Gear Stages	Model	Nominal belt speed <sup>1</sup> at Full Load 60 Hz fpm	Actual belt speed <sup>1</sup> at Full Load 60 Hz fpm	Belt Pull <sup>2</sup> lbs	Max. Radial Load <sup>3</sup> T1 + T2 lbs	Min. RL in	RL Dimension inches (RL>78.74" available on request) Weight in lbs <sup>5</sup>										Type of Bracket				
Power HP	No. of Poles								29.53	31.50	33.46	35.43	37.40	39.37	41.34	43.31	45.28	longer than 45.28					
7.5	8	2	500H	120 150 192	126 161 211	1839 1442 1097	10,340	29.53													See Foot-note <sup>4</sup> AL65 & ALO65		
	6	2	500H	240 300 384 480 600	281 313 390 476 626	823 739 592 486 369			775	797	819	839	861	878	897	916	936						
10	8	2	500H	120 150 192	126 161 211	2509 1966 1496																	
	6	2	500H	240 300 384 480 600	281 313 390 476 626	1122 1007 807 662 504			797	819	841	861	883	898	917	936	956						
15	6	2	500H	192 240 300 384 480 600	214 281 313 390 476 626	2163 1645 1477 1185 970 739			819	841	863	883	905	920	939	958	978						
20	4	2	500H	240 300 384 480 600 768	251 321 421 469 585 715	2509 1966 1496 1343 1077 882			844	863	881	900	918	940	959	978	999						
25	4	2	500H	300 384 480 600 768	321 421 469 585 715	2425 1845 1656 1328 1089			866	885	903	922	940	962	981	1000	1020						
30	2	2	500H	480 600 768	502 642 843	1839 1442 1097			866	885	903	922	940	959	978	997	1017						

<b>Idler Pulley</b>	Model UT500H	10,340	23.62	495	515	537	556	578	600	619	638	658	See Foot-note <sup>4</sup>	AL65 & ALO65
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- 1 Use "nominal belt speed" to specify pulley. "Actual belt speed" is presented (for pulley lagged with 3/8" thick rubber) to assist with process design calculations. See Technical Precautions page 77. Note that "actual belt speed" decreases when lagging is not used due to decreased pulley diameter.
- 2 Belt pull value allows for gearbox loss.
- 3 Pulley must not be subjected to radial load exceeding "Maximum radial load" defined above. See "Belt Tension" section in Technical Precautions, page 78.
- 4 Additional Motorized Pulley and Idler weight, specified per Roller Length: 45.28" ≤ RL ≤ 78.74" Wt = 9.8 lbs/in.
- 5 All weights shown above are for pulleys "fully lagged" with 3/8" thick rubber. For "partially lagged" pulleys add 6% to 10% to the weights shown above. See page 80 for "partial lagging." To calculate unlagged pulley weight subtract 0.9 lbs/in of Roller Length from above.

**For Motorized Pulley 500H spare parts list & sectional drawings see pgs 68-69.**