



## Motorized Pulley 800M, 800H, 800HD, Ø 31.50 in. (800 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) Weight in lbs <sup>5</sup>										Type of Bracket
Power HP	No. of Poles								37.40	39.37	41.34	43.31	45.28	47.24	49.21	51.18	53.15	longer than 53.15	
30	8	2	800M	300 384 480 600 768	312 396 515 621 806	2966 2333 1797 1489 1148	16,500	37.40	2118	2150	2179	2211	2241	2266	2291	2323	2354	See Note <sup>4</sup>	AL90 & ALO90
40	8	2	800M	300 384 480 600 768	312 396 515 621 806	4045 3182 2451 2030 1565	22,000	37.40	2207	2239	2268	2300	2329	2354	2379	2411	2443		
50	6	2	800M	384 480 600 768 960	416 528 686 828 1075	3741 2944 2267 1877 1448	22,000	37.40	2207	2239	2268	2300	2329	2354	2379	2411	2443		
61	4	2	800M	600 768 960	614 786 983	3034 2386 1838	19,900	37.40	2251	2282	2312	2343	2373	2398	2423	2455	2486		
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								55.12	57.09	59.06	61.02	62.99	64.96	66.93	68.90	70.87	longer than 70.87	
75	**	3	800HD	192 240 300	**	**	**	51.18*	*	*	*	**	**	**	**	**	**	See Note <sup>4</sup>	AL90 & ALO90
	8	2	800H	384	380	6087	45,000	55.12											
	6	2	800H	480 600 768 960 1064	507 617 740 879 1036	4565 3749 3124 2630 2231	45,000	45.28	4823	4881	4939	4997	5055	5114	5172	5230	5288		
100	8	3	800HD	240	**	**	**	61.02	-	-	-	**	**	**	**	**	**	See Note <sup>4</sup>	AL90 & ALO90
	6	2	800H	300	**	**	**	51.18*	*	*	*	**	**	**	**	**	**		
	8	2	800H	384	380	8300	45,000	55.12											
122	**	3	800HD	300 384	**	**	**	61.02	-	-	-	**	**	**	**	**	**	See Note <sup>4</sup>	AL90 & ALO90
	6	2	800H	480 600 768 960 1064	507 617 740 879 1036	7470 6134 5111 4260 3587 3043	45,000	55.12	4933	4991	5049	5108	5166	5224	5282	5340	5398		
	**	3	800HD	384 480 600	**	**	**	**	61.02	-	-	-	**	**	**	**	**		
150	**	3	800HD	384 480 600	**	**	**	61.02	-	-	-	**	**	**	**	**	**	See Note <sup>4</sup>	AL90 & ALO90
	4	2	800H	768 960 1064	760 926 1111	6087 4998 4165	40,500	55.12	4878	4936	4994	5052	5111	5169	5227	5285	5343		
180	**	3	800HD	480 600	**	**	**	61.02	-	-	-	**	**	**	**	**	**	See Note <sup>4</sup>	AL90 & ALO90
	4	2	800H	768 960 1064	760 926 1111	7304 5997 4998	40,500	55.12	4966	5024	5062	5141	5199	5257	5315	5373	5431		
<b>Idler Pulley</b>				Model UT630M			22,000	29.53	765	788	810	832	852	874	897	919	941	See Note <sup>4</sup>	AL90 & ALO90
				Model UT630H			45,000	45.28	1608	1643	1678	1713	1749	1784	1819	1854	1889		

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: Model 800M: 53.15" ≤ RL ≤ 78.74" Wt = 16.1 lbs/in; Model 800H & 800HD: 66.93" ≤ RL ≤ 78.74" Wt = 31.5 lbs/in. Additional Idler Pulley weight: Model UT630M: 53.15" ≤ RL ≤ 78.74" Wt = 11.2 lbs/in; Model UT630H: 66.93" ≤ RL ≤ 78.74" Wt = 18.0 lbs/in.

5 All weights shown above are for pulleys "fully lagged" with 3/8" thick rubber. For "partially lagged" model 800M pulleys add 5% to 8% (for 800H pulleys add 3% to 4%) 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.

\* Special "Short Roller Length" Option.

\*\* Available September 2007.