



# WPLS / WPLV

## High Precision Bevel-Planetary Servo Gearhead

Radial / Axial Loads, Input Speeds, Noise Level, Inertias



Output Shaft Radial and Axial Loads • Input Speeds • Noise Level •						
		WPLS 70 WPLV 70	WPLS 90 WPLV 90	WPLS 115 WPLV 115	WPLS 142 WPLV 142	WPLS 190
Output Shaft Radial Load <sup>(1)</sup> ( at 20000 hrs L10 and 100 output shaft rpm )	<i>N (lb)</i>	3300 (742) 2800 (629)	4300 (967)	4800 (1079)	9000 (2023)	13300 (2990)
Output shaft Axial Load ( at 20000 hrs L10 and 100 output shaft rpm )	<i>N (lb)</i>	4700 (1057)	6400 (1439)	8000 (1798)	15000 (3372)	21000 (4721)
Output Shaft Radial Load <sup>(1)</sup> ( at 30000 hrs L10 and 100 output shaft rpm )	<i>N (lb)</i>	3000 (674) 2800 (629)	3900 (877)	4300 (967)	8200 (1843)	12000 (2698)
Output Shaft Axial Load ( at 30000 hrs L10 and 100 output shaft rpm )	<i>N (lb)</i>	4100 (922)	5700 (1281)	7100 (1596)	13300 (2990)	18500 (4159)
Max Input Speed	<i>rpm</i>	8000	7000	6000	4500	4000
Continuous / Average Input Speed	<i>rpm</i>	any rpm as long as the gearbox temperature does not exceed the +100 °C (212 °F)				
Noise Level <sup>(2)</sup>	<i>dBA</i>	72	73	76	78	78

(1) Radial load at shaft midpoint.  
 (2) Sound pressure level measured at 3000 rpm, no load, 1m distance from the gearbox.

Standard Motor Mount WPLS / WPLV Gearhead Moment of Inertia (at the input)						$kgcm^2$ ( $lbin.sec^2 10^{-4}$ )
WPLS 70 WPLV 70	WPLS 90 WPLV 90	WPLS 115 WPLV 115	WPLS 142 WPLV 142	WPLS 190	Ratio	Stages
0.61 (5.40)	1.91 (16.9)	5.00 (44.3)	19.4 (171)	116 (1030)	4	1
0.57 (5.04)	1.85 (16.4)	4.70 (41.6)	17.5 (155)	109 (965)	5	1
0.52 (4.60)	1.79 (15.8)	4.60 (40.7)	15.9 (140)	102 (903)	8	1
0.50 (4.43)	1.73 (15.3)	4.50 (39.8)	15.5 (137)	100 (885)	10	1
0.61 (5.40)	1.91 (16.9)	5.00 (44.3)	19.4 (171)	38 (336)	16	2
0.58 (5.13)	1.91 (16.9)	4.70 (41.6)	17.5 (155)	31 (274)	20	2
0.57 (5.04)	1.85 (16.4)	4.70 (41.6)	17.5 (155)	31 (264)	25	2
0.52 (4.60)	1.79 (15.8)	4.60 (40.7)	15.9 (140)	24 (212)	32	2
0.52 (4.60)	1.79 (15.8)	460 (40.7)	15.9 (140)	24(212)	40	2
0.52 (4.60)	1.79 (15.8)	4.60 (40.7)	15.9 (140)	24 (212)	64	2
0.50 (4.43)	1.73 (15.3)	4.50 (39.8)	15.5 (137)	22 (195)	100	2