



# WPLE

**Right-Angle Bevel-Planetary Servo Gearhead**  
*Radial / Axial Loads, Input Speeds, Noise Level, Inertias*



## Output Shaft Radial and Axial Loads • Input Speeds • Noise Level •

		WPLE 40	WPLE 60 WPLE 60/70	WPLE 80 WPLE 80/90	WPLE 120 WPLE 120/115
Output shaft radial load <sup>(1)</sup> ( at 10000 hrs L10 and 100 output shaft rpm )	<i>N (lb)</i>	200 (44)	500 (112) 1000 (224)	950 (213) 2500 (562)	2000 (449) 3500 (786)
Output shaft axial load ( at 10000 hrs L10 and 100 output shaft rpm )	<i>N (lb)</i>	200 (44)	600 (134) 1200	1200 (269) 2800 (629)	2800 (629) 2800 (629)
Output shaft radial load <sup>(1)</sup> ( at 30000 hrs L10 and 100 output shaft rpm )	<i>N (lb)</i>	160 (36)	340 (77) 700 (158)	650 (146) 1700 (383)	1500 (338) 2400 (540)
Output shaft axial load ( at 30000 hrs L10 and 100 output shaft rpm )	<i>N (lb)</i>	160 (36)	450 (101) 800 (180)	900 (203) 2000 (450)	2100 (473) 2100 (473)
Max input speed	<i>rpm</i>	18000	13000	7000	6500
Continuous / average input speed	<i>rpm</i>	any rpm as long as the gearbox temperature does not exceed +90 °C (194 °F)			
Noise level <sup>(2)</sup>	<i>dB(A)</i>	68	70	73	75

(1) Radial load at shaft midpoint.

*(Detailed bearing life calculation utility is available at [www.neugartusa.com](http://www.neugartusa.com) or contact Neugart USA with the application data.)*

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

## Standard Motor Mount WPLE Gearhead Moment of Inertia (at the input)

*kgcm<sup>2</sup> (lbin.sec<sup>2</sup> 10<sup>-4</sup>)*

WPLE 40	WPLE 60 & 60/70	WPLE 80 & 80/90	WPLE 120 & 120/115	Ratio	Stages
0.044 (0.35)	0.246 (2.17)	1.189 (10.52)	5.75 (50.8)	3	1
0.035 (0.31)	0.204 (1.80)	0.939 (8.31)	3.91 (34.6)	4	1
0.032 (0.28)	0.189 (1.67)	0.869 (7.69)	3.35 (29.6)	5	1
0.03 (0.26)	0.176 (1.55)	0.809 (7.15)	2.89 (25.5)	8	1
0.043 (0.38)	0.242 (2.14)	1.159 (10.22)	5.73 (50.7)	9	2
0.042 (0.37)	0.238 (2.1)	1.139 (10.0)	5.60 (49.5)	12	2
0.036 (0.32)	0.188 (1.66)	1.129 (9.99)	5.53 (48.9)	15	2
0.035 (0.31)	0.199 (1.76)	0.919 (8.13)	3.83 (33.8)	16	2
0.032 (0.28)	0.186 (1.64)	0.859 (7.6)	3.28 (29.0)	20	2
0.032 (0.28)	0.186 (1.64)	0.859 (7.6)	3.26 (28.8)	25	2
0.03 (0.26)	0.175 (1.54)	0.809 (7.15)	2.84 (25.1)	32	2
0.029 (0.25)	0.175 (1.54)	0.809 (7.15)	2.84(25.1)	40	2
0.029 (0.25)	0.175 (1.54)	0.809 (7.15)	2.84 (25.1)	64	2
0.042 (0.37)	0.187 (1.65)	0.929 (8.22)	5.62 (49.7)	60	3
0.032 (0.28)	0.186 (1.64)	0.919 (8.13)	3.28 (29.0)	80	3
0.032 (0.28)	0.186 (1.64)	0.859 (7.6)	3.26 (28.8)	100	3
0.042 (0.37)	0.175 (1.54)	1.119 (9.9)	5.47 (48.4)	120	3
0.029 (0.25)	0.175 (1.54)	0.809 (7.15)	2.84 (25.1)	160	3
0.029 (0.25)	0.175 (1.54)	0.809 (7.15)	2.84 (25.1)	200	3
0.029 (0.25)	0.175 (1.54)	0.809 (7.15)	2.84 (25.1)	256	3
0.029 (0.25)	0.175 (1.54)	0.809 (7.15)	2.84 (25.1)	320	3
0.029 (0.25)	0.175 (1.54)	0.809 (7.15)	2.84 (25.1)	512	3