



WPLFE

Right-Angle Bevel-Planetary Servo Gearhead

Engineering Data



Design life • Emergency peak torque • IP class • Efficiency • Backlash • Stiffness •				
		WPLFE 64	WPLFE 90	WPLFE 110
Design Life (L10 Life)	hrs	20000 hrs		
Emergency Stop Peak torque		200% of the continuous duty-rated torque. The gearbox will withstand this torque only a very limited time (about 500 to 1000 times during the life of the gearbox). -Torques at this magnitude should not be part of the standard operating cycle!		
IP protection class		IP 54 / 55		
Full load efficiency %	1-stage	96 %		
	2-stage	94 %		
Rotational Backlash ⁽¹⁾ (arc.min)	1-stage	<22	<15	<12
	2-stage	<26	<19	<16
Torsional Stiffness Nm/ang.min (lbin /arc.min)	1-stage	18 (159)	34 (301)	93 (823)
	2-stage	12 (106)	25 (221)	68 (602)

(1) Maximum value of the rotational backlash measured at the output in arc minutes (1 arc min = 1 angular min).
Average backlash is approximately 25% smaller than the listed worst case value.

Gearhead Weight • Recommended Maximum Unsupported Motor Weight • Operating Temperatures • Lubrication • Mounting Positions •				
Gearhead Weight kg (lb)	1-stage	2 (4.41)	5.9 (13)	13.0 (28.7)
	2-stage	2.4 (5.3)	6.3 (13.9)	15.0 (33)
Max. Unsupported Motor Weight ⁽²⁾ kg (lb)		3.5 (7.7)	9 (19.8)	16 (35.2)
Operating Temperature ⁽³⁾ Minimum	°C (°F)	-25 (-13)		
	Maximum	+90 (194)		
Lubrication		Lubricated for life with semi-fluid synthetic grease <i>Klüberplex BEM 34-132</i> (Klüber Lubrication LP, - www.kluber.com)		
Mounting Positions		Any mounting position permissible without change of lubrication		

(2) For horizontal mounting position (support recommended if motor weight exceeds the given value)
(3) Measured at the middle of the gearbox main body

Permissible Output Shaft Radial and Axial loads • Input Speeds • Noise Level •				
Radial Load ⁽¹⁾	N (lb)	550 (124)	1400 (315)	2400 (540)
Axial Load ⁽¹⁾	N (lb)	1200 (270)	3000 (675)	3300 (742)
Max. Peak Input Speed	rpm	13000	7000	6500
Continuous Input Speed	rpm	any rpm as long as the gearbox temperature does not exceed +90 °C (194 °F)		
Noise Level ⁽²⁾	dBA	58	60	65

(1) Based on 20000 hrs. L10 life, 100 rpm mean output speed, radial load at shaft midpoint.
(Detailed bearing life calculation utility is available at www.neugartusa.com or contact **Neugart USA** with the application data.)
(2) Sound pressure level measured at 3000 rpm, no load, at 1m distance from the gearbox.