



Ratio	****	5.5	22	30.2	88	121	166	352	484	665.5	915
1	Number of gear stages	1	2	2	3	3	3	4	4	4	4
2	Direction of rotation	=	=	=	=	=	=	=	=	=	=
3	Efficiency	0.85	0.75	0.75	0.65	0.65	0.65	0.55	0.55	0.55	0.55
4	L1 (mm)	14.5	18.6	18.6	22.7	22.7	22.7	26.8	26.8	26.8	26.8
5	Weight g (oz)	6 (0.211)	9 (0.317)	9 (0.317)	12 (0.423)	12 (0.423)	12 (0.423)	15 (0.529)	15 (0.529)	15 (0.529)	15 (0.529)
6	Available with Motor - L2 = Length with motor (mm)										
	<b>13N 88</b> .....1	42.7	46.8	46.8	50.9	50.9	50.9	55	55	55	55
	<b>12G 88</b> .....1	42.7	46.8	50.9	50.9	50.9	55	55	55	55	28.2

Characteristics		R13 • 0 • ....	R13 2R • 0 • ....
7	Shaft Bearings	Sleeve	Ball Bearing
8	Maximum Static Torque	Nm (oz-in)	0.5 (71)
9	Maximum Radial Force		
	@ 8mm from mounting face	N (lb)	5 (1.12)
10	Maximum Axial force	N (lb)	8 (1.8)
11	Maximum press fit force	N (lb)	100 (23)
12	Average Backlash @ no-load		1.25°
13	Average Backlash @ 3 Nm		2°
	Shaft play:		
14	-radial	µm	≤ 20
15	-axial	µm	50-150
16	Maximum Recommended Input speed	rpm	7500
17	Operating Temperature Range:	°C (°F)	-30 to +85 (-22 to +185)

Motor + gearbox = L2

