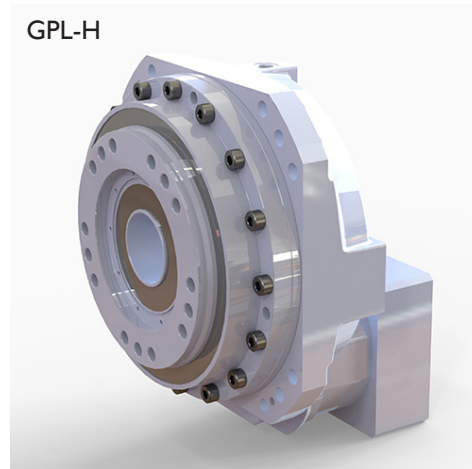
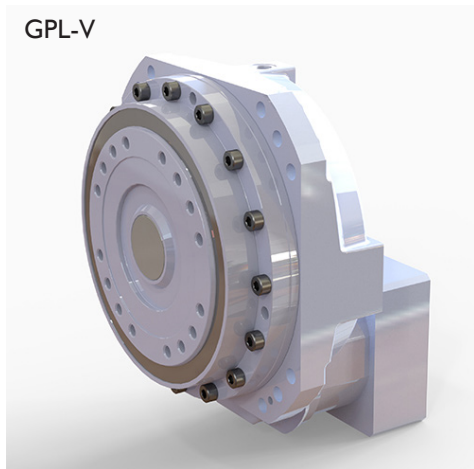


Robotic Planetary Gearbox



| Gearbox | Type | Nominal Ratio | Outer Diameter (mm) | Length (mm) | Nominal Output Torque (Nm) | Accel Torque (Nm) | E-Stop Torque (Nm) | Max Output Speed (RPM) | Average Input Speed (RPM) | Max Input Speed (RPM) | Max Bending Force (Nm) | Tilting Stiffness (Nm/arcmin) | Torsional Stiffness (Nm/arcmin) | Max Axial Force (kN) - Static | Max Radial Force (kN) - Static | Max Axial Force (kN) - Dynamic | Max Radial Force (kN) - Dynamic | Power Density (Nm/kg) | Weight (kg) |
|----------------------------|--------|----------------------------------|---------------------|-------------|----------------------------|-------------------|--------------------|------------------------|---------------------------|-----------------------|------------------------|-------------------------------|---------------------------------|-------------------------------|--------------------------------|--------------------------------|---------------------------------|-----------------------|-------------|
| GPL-V-056 | Shaft | 50, 63, 80, 100, 125, 160, 200 | 180 | 85 | 438 | 613 | 1,545 | 120 | 4,000 | 6,000 | 1,180 | 744 | 159 | 152 | 55 | 26.0 | 15.5 | 56.9 | |
| GPL-V-080 | Shaft | | 200 | 93 | 748 | 1,047 | 2,530 | 100 | 3,500 | 5,000 | 1,865 | 1,094 | 253 | 168 | 56.5 | 33.6 | 20.0 | 66.8 | |
| GPL-V-112 | Shaft | | 232 | 107 | 1,100 | 1,540 | 3,780 | 100 | 3,500 | 5,000 | 3,230 | 1,538 | 339 | 270 | 85 | 42.0 | 25.1 | 69.2 | |
| GPL-V-160 | Shaft | | 248 | 114 | 1,370 | 1,918 | 4,800 | 100 | 3,500 | 5,000 | 3,930 | 2,296 | 572 | 292 | 97 | 55.0 | 32.8 | 68.8 | |
| GPL-V-224 | Shaft | | 263 | 123 | 1,719 | 2,406 | 6,090 | 90 | 3,000 | 4,500 | 4,280 | 3,004 | 649 | 315 | 100 | 64.4 | 41.6 | 62.1 | |
| GPL-V-300 | Shaft | | 301 | 138 | 2,540 | 3,555 | 8,990 | 80 | 2,500 | 4,000 | 6,620 | 4,505 | 1,109 | 400 | 140 | 78.6 | 50.7 | 67.9 | |
| GPL-V-400 | Shaft | | 329 | 150 | 3,305 | 4,625 | 11,980 | 70 | 2,000 | 3,500 | 9,350 | 6,250 | 1,359 | 535 | 170 | 96.0 | 61.9 | 65.7 | |
| GPL-H-056 | Hollow | 35.5, 45, 56, 71, 90, 125, 131.5 | 180 | 101 | 438 | 613 | 1,545 | 120 | 4,000 | 6,000 | 1,180 | 930 | 170 | 189 | 55 | 29.5 | 17.8 | 56.9 | |
| GPL-H-080 | Hollow | | 200 | 114 | 748 | 1,047 | 2,530 | 100 | 3,500 | 5,000 | 1,865 | 1,368 | 250 | 245 | 71 | 38.1 | 23.0 | 66.8 | |
| GPL-H-112 | Hollow | | 232 | 126 | 1,100 | 1,540 | 3,780 | 100 | 3,500 | 5,000 | 3,230 | 1,923 | 355 | 307 | 90 | 47.7 | 28.8 | 69.2 | |
| GPL-H-160 | Hollow | | 248 | 132 | 1,370 | 1,918 | 4,800 | 100 | 3,500 | 5,000 | 3,930 | 2,870 | 530 | 401 | 117 | 62.4 | 37.6 | 68.8 | |
| GPL-H-224 | Hollow | | 263 | 139 | 1,719 | 2,406 | 6,090 | 90 | 3,000 | 4,500 | 4,280 | 3,755 | 695 | 480 | 140 | 74.6 | 45.0 | 62.1 | |
| GPL-H-300 | Hollow | | 301 | 157 | 2,540 | 3,555 | 8,990 | 80 | 2,500 | 4,000 | 6,620 | 5,631 | 935 | 586 | 171 | 91.0 | 54.9 | 67.9 | |
| GPL-H-400 | Hollow | | 329 | 169 | 3,305 | 4,625 | 11,980 | 70 | 2,000 | 3,500 | 9,350 | 7,813 | 1,260 | 715 | 208 | 111.1 | 67.0 | 65.7 | |
| Backlash (arcmin) | | ≤ 0.1 | | | | | | | | | | | | | | | | | |
| Lost Motion (arcmin) | | ≤ 0.6 | | | | | | | | | | | | | | | | | |
| Efficiency under full load | | >90% | | | | | | | | | | | | | | | | | |
| Service Life | | 20,000 hr | | | | | | | | | | | | | | | | | |
| Noise Level | | <65 dB | | | | | | | | | | | | | | | | | |



901 E. Business Center Drive
 Mt. Prospect, IL 60056
 Toll-Free: 888.GAM.7117
 Ph: 847.649.2500
 Fax: 847.649.2501
 General Inquiries: info@gamweb.com