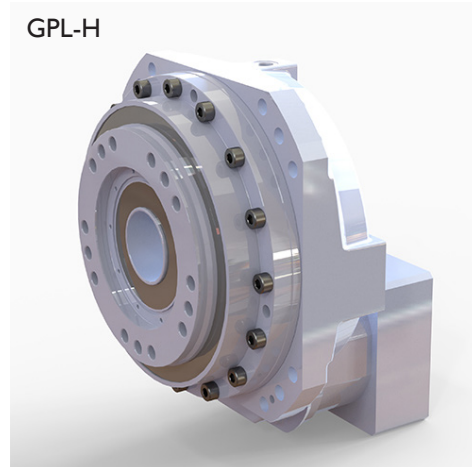
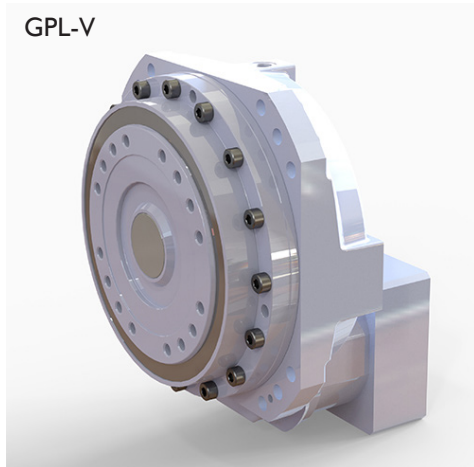


Robotic Planetary Gearbox



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																	



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