

High-torque planetary gearboxes are used with NEMA 17 stepper motors and brushless DC motors. Using of the gearbox results in a compact and powerful drive unit that is suitable for a wide variety of applications. The GP42 series is equipped with an 8-mm shaft and planets that run on sliding bearings.



## Technical data

Suitable for motor sizes	NEMA 17 (42 mm)
Rated output torque	6.5 – 24.4 Nm
Max. backlash	60' (arc. Minutes)
Efficiency	85 – 90 %
Possible reduction ratios	4 - 46
IP protection	IP54
Admissible radial shaft Load	305 N
Admissible axial shaft Load	890 N
Operating temperature	-15 to +90 °C

Reduction ratio	Rated output torque, Nm	Max. output torque, Nm	Efficiency, %	Max. input speed, rpm	Max. backlash, arc minutes	Moment of inertia, kg*mm <sup>2</sup>	Length L, mm	Weight, kg
4	6.5	12.7	90	8236	60	0.81	42.7	0.3
5	6.9	13.8		11943		0.48		
7	7.3	14.6		17061		0.28		
9	7.0	14		18000		0.22		
15	9.1	18.2	85	8236		0.62	56.6	0.4
20	9.4	18.8		11943		0.51		
25	8.6	17.2		14050		0.4		
46	12.2	24.4		18000		0.22		

## Dimensions of high torque planetary gearbox GP42

