

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGC-14-50-PO		Diagram	
Model	14			
Ratio	50			
Item			Value	Unit
Rated torque at input 2000rpm			7	Nm
Average torque			9	Nm
Repeated peak torque			23	Nm
Momentary peak torque			46	Nm
Average input speed			3500	rpm
Maximum input speed			8500	rpm
Moment of inertia			0.033	x10 ⁻⁴ kgm ²
Transmission accuracy			1.5	arc min
Repeatability			±6	arc sec
Maximum backlash			36	arc sec
Hysteresis loss			2	arc min
Lost motion			1	arc min
Torsional Stiffness K1			0.1	kgfm/arc min
Torsional Stiffness K2			0.14	kgfm/arc min
No load starting torque			4.5	cNm
No load running torque(25°C/2000rpm)			4.6	cNm
Weight			0.52	kg
Permissible dynamic tilting moment			41	Nm
Permissible axial load			1.004	kN
Permissible radial load			0.673	kN