

## DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGC-14-50-CO	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	$\times 10^{-4}$ kgm <sup>2</sup>	
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	3.6	cNm	
No load running torque(25°C/2000rpm)	3.5	cNm	
Weight	0.09	kg	
Permissible dynamic tilting moment	-	Nm	
Permissible axial load	-	kN	
Permissible radial load	-	kN	