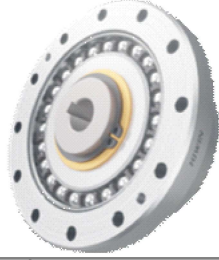


DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DSC-11-50-CO	Diagram	
Model	11		
Ratio	50		
Item	Value	Unit	
Rated torque at input 2000rpm	3.5	Nm	
Average torque	5.5	Nm	
Repeated peak torque	8.3	Nm	
Momentary peak torque	17	Nm	
Average input speed	3500	rpm	
Maximum input speed	8500	rpm	
Moment of inertia	0.012	x10 ⁻⁴ kgm ²	
Transmission accuracy	2	arc min	
Repeatability	±6	arc sec	
Maximum backlash	24	arc sec	
Hysteresis loss	2	arc min	
Lost motion	1	arc min	
Torsional Stiffness K1	0.066	kgfm/arc min	
Torsional Stiffness K2	0.09	kgfm/arc min	
No load starting torque	1.6	cNm	
No load running torque(25°C/2000rpm)	2.1	cNm	
Weight	0.05	kg	
Permissible dynamic tilting moment	-	Nm	
Permissible axial load	-	kN	
Permissible radial load	-	kN	