

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGC-20-50-PO	Diagram	
Model	20		
Ratio	50		
Item	Value	Unit	
Rated torque at input 2000rpm	33	Nm	
Average torque	44	Nm	
Repeated peak torque	73	Nm	
Momentary peak torque	127	Nm	
Average input speed	3500	rpm	
Maximum input speed	6500	rpm	
Moment of inertia	0.193	x10 ⁻⁴ kgm ²	
Transmission accuracy	1	arc min	
Repeatability	±6	arc sec	
Maximum backlash	17	arc sec	
Hysteresis loss	2	arc min	
Lost motion	1	arc min	
Torsional Stiffness K1	0.38	kgfm/arc min	
Torsional Stiffness K2	0.52	kgfm/arc min	
No load starting torque	8.6	cNm	
No load running torque(25°C/2000rpm)	11.8	cNm	
Weight	0.98	kg	
Permissible dynamic tilting moment	91	Nm	
Permissible axial load	1.235	kN	
Permissible radial load	0.827	kN	