

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGC-14-100-PO	Diagram	
Model	14		
Ratio	100		
Item		Value	Unit
Rated torque at input 2000rpm		10	Nm
Average torque		14	Nm
Repeated peak torque		36	Nm
Momentary peak torque		58	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		18	arc sec
Hysteresis loss		1	arc min
Lost motion		1	arc min
Torsional Stiffness K1		0.14	kgfm/arc min
Torsional Stiffness K2		0.18	kgfm/arc min
No load starting torque		2.8	cNm
No load running torque(25°C/2000rpm)		3.5	cNm
Weight		0.52	kg
Permissible dynamic tilting moment		41	Nm
Permissible axial load		1.004	kN
Permissible radial load		0.673	kN