

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGC-17-100-PO	Diagram	
Model	17		
Ratio	100		
Item		Value	Unit
Rated torque at input 2000rpm		31	Nm
Average torque		51	Nm
Repeated peak torque		70	Nm
Momentary peak torque		109	Nm
Average input speed		3500	rpm
Maximum input speed		7300	rpm
Moment of inertia		0.079	x10 ⁻⁴ kgm ²
Transmission accuracy		1.5	arc min
Repeatability		±6	arc sec
Maximum backlash		10	arc sec
Hysteresis loss		1	arc min
Lost motion		1	arc min
Torsional Stiffness K1		0.3	kgfm/arc min
Torsional Stiffness K2		0.4	kgfm/arc min
No load starting torque		3.7	cNm
No load running torque(25°C/2000rpm)		6	cNm
Weight		0.68	kg
Permissible dynamic tilting moment		64	Nm
Permissible axial load		1.13	kN
Permissible radial load		0.757	kN