

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGC-17-120-PO		Diagram	
Model	17			
Ratio	120			
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			8	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			3.4	cNm
No load running torque(25°C/2000rpm)			5.8	cNm
Weight			0.68	kg
Permissible dynamic tilting moment			64	Nm
Permissible axial load			1.13	kN
Permissible radial load			0.757	kN