

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGC-20-80-PO		Diagram	
Model	20			
Ratio	80			
Item			Value	Unit
Rated torque at input 2000rpm			44	Nm
Average torque			61	Nm
Repeated peak torque			96	Nm
Momentary peak torque			165	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			11	arc sec
Hysteresis loss			1	arc min
Lost motion			1	arc min
Torsional Stiffness K1			0.47	kgfm/arc min
Torsional Stiffness K2			0.75	kgfm/arc min
No load starting torque			5.4	cNm
No load running torque(25°C/2000rpm)			10	cNm
Weight			0.98	kg
Permissible dynamic tilting moment			91	Nm
Permissible axial load			1.235	kN
Permissible radial load			0.827	kN