

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGC-25-80-PO		Diagram	
Model	25			
Ratio	80			
Item			Value	Unit
Rated torque at input 2000rpm			82	Nm
Average torque			113	Nm
Repeated peak torque			178	Nm
Momentary peak torque			332	Nm
Average input speed			3500	rpm
Maximum input speed			5600	rpm
Moment of inertia			0.413	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			0.92	kgfm/arc min
Torsional Stiffness K2			1.5	kgfm/arc min
No load starting torque			10	cNm
No load running torque(25°C/2000rpm)			18.7	cNm
Weight			1.5	kg
Permissible dynamic tilting moment			156	Nm
Permissible axial load			2.051	kN
Permissible radial load			1.374	kN