

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGH-20-50-PO		Diagram	
Model	20			
Ratio	50			
Item			Value	Unit
Rated torque at input 2000rpm			33	Nm
Average torque			44	Nm
Repeated peak torque			73	Nm
Momentary peak torque			127	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			17	arc sec
Hysteresis loss			2	arc min
Lost motion			1	arc min
Torsional Stiffness K1			0.38	kgfm/arc min
Torsional Stiffness K2			0.52	kgfm/arc min
No load starting torque			8.6	cNm
No load running torque(25°C/2000rpm)			11.8	cNm
Weight			0.81	kg
Permissible dynamic tilting moment			187	Nm
Permissible axial load			3.119	kN
Permissible radial load			2.09	kN