

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGH-40-50-PO		Diagram	
Model	40			
Ratio	50			
Item			Value	Unit
Rated torque at input 2000rpm			178	Nm
Average torque			255	Nm
Repeated peak torque			523	Nm
Momentary peak torque			892	Nm
Average input speed			3000	rpm
Maximum input speed			4000	rpm
Moment of inertia			4.5	x10 ⁻⁴ kgm ²
Transmission accuracy			1	arc min
Repeatability			±6	arc sec
Maximum backlash			14	arc sec
Hysteresis loss			2	arc min
Lost motion			1	arc min
Torsional Stiffness K1			3	kgfm/arc min
Torsional Stiffness K2			4.2	kgfm/arc min
No load starting torque			61	cNm
No load running torque(25°C/2000rpm)			79	cNm
Weight			5.1	kg
Permissible dynamic tilting moment			849	Nm
Permissible axial load			9.25	kN
Permissible radial load			6.198	kN