

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGH-14-80-PH		Diagram	
Model	14			
Ratio	80			
Item			Value	Unit
Rated torque at input 2000rpm			10	Nm
Average torque			14	Nm
Repeated peak torque			30	Nm
Momentary peak torque			61	Nm
Average input speed			3500	rpm
Maximum input speed			8500	rpm
Moment of inertia			0.091	x10 ⁻⁴ kgm ²
Transmission accuracy			1.5	arc min
Repeatability			±6	arc sec
Maximum backlash			-	arc sec
Hysteresis loss			1	arc min
Lost motion			1	arc min
Torsional Stiffness K1			0.14	kgfm/arc min
Torsional Stiffness K2			0.18	kgfm/arc min
No load starting torque			3.1	cNm
No load running torque(25°C/2000rpm)			3.7	cNm
Weight			0.45	kg
Permissible dynamic tilting moment			74	Nm
Permissible axial load			1.239	kN
Permissible radial load			0.83	kN