

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGH-14-50-PO	Diagram	
Model	14		
Ratio	50		
Item		Value	Unit
Rated torque at input 2000rpm		7	Nm
Average torque		9	Nm
Repeated peak torque		23	Nm
Momentary peak torque		46	Nm
Average input speed		3500	rpm
Maximum input speed		8500	rpm
Moment of inertia		0.033	x10 ⁻⁴ kgm ²
Transmission accuracy		1.5	arc min
Repeatability		±6	arc sec
Maximum backlash		36	arc sec
Hysteresis loss		2	arc min
Lost motion		1	arc min
Torsional Stiffness K1		0.1	kgfm/arc min
Torsional Stiffness K2		0.14	kgfm/arc min
No load starting torque		4.5	cNm
No load running torque(25°C/2000rpm)		4.6	cNm
Weight		0.41	kg
Permissible dynamic tilting moment		74	Nm
Permissible axial load		1.239	kN
Permissible radial load		0.83	kN