

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGH-20-80-PO	Diagram	
Model	20		
Ratio	80		
Item		Value	Unit
Rated torque at input 2000rpm		44	Nm
Average torque		61	Nm
Repeated peak torque		96	Nm
Momentary peak torque		165	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		11	arc sec
Hysteresis loss		1	arc min
Lost motion		1	arc min
Torsional Stiffness K1		0.47	kgfm/arc min
Torsional Stiffness K2		0.75	kgfm/arc min
No load starting torque		5.4	cNm
No load running torque(25°C/2000rpm)		10	cNm
Weight		0.81	kg
Permissible dynamic tilting moment		187	Nm
Permissible axial load		3.119	kN
Permissible radial load		2.09	kN