

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGH-20-50-AJ	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		0.137	x10 ⁻⁴ kgm ²
Transmission accuracy		1	arc min
Repeatability		±6	arc sec
Maximum backlash		-	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		14	cNm
No load running torque(25°C/2000rpm)		19.6	cNm
Weight		1.38	kg
Permissible dynamic tilting moment		187	Nm
Permissible axial load		3.119	kN
Permissible radial load		2.09	kN