

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGH-32-50-AJ		Diagram	
Model	32			
Ratio	50			
Item			Value	Unit
Rated torque at input 2000rpm			99	Nm
Average torque			140	Nm
Repeated peak torque			281	Nm
Momentary peak torque			497	Nm
Average input speed			3500	rpm
Maximum input speed			4800	rpm
Moment of inertia			1.2	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			1.6	kgfm/arc min
Torsional Stiffness K2			2.3	kgfm/arc min
No load starting torque			41	cNm
No load running torque(25°C/2000rpm)			53	cNm
Weight			4.4	kg
Permissible dynamic tilting moment			580	Nm
Permissible axial load			8.161	kN
Permissible radial load			5.468	kN