

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGH-32-50-PH	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		2.85	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		34	cNm
No load running torque(25°C/2000rpm)		44.1	cNm
Weight		3.1	kg
Permissible dynamic tilting moment		580	Nm
Permissible axial load		8.161	kN
Permissible radial load		5.468	kN