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DATORKER® Strain Wave Gear Technical Data

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Specification	DGH-32-80-PO	Diagram	
Model	32		
Ratio	80		

Item	Value	Unit
Rated torque at input 2000rpm	153	Nm
Average torque	217	Nm
Repeated peak torque	395	Nm
Momentary peak torque	738	Nm
Average input speed	3500	rpm
Maximum input speed	4800	rpm
Moment of inertia	1.69	$x10^{-4}$ kgm^2
Transmission accuracy	1	arc min
Repeatability	±6	arc sec
Maximum backlash	9	arc sec
Hysteresis loss	1	arc min
Lost motion	1	arc min
Torsional Stiffness K1	2	kgfm/arc min
Torsional Stiffness K2	3.2	kgfm/arc min
No load starting torque	21	cNm
No load running torque(25°C/2000rpm)	38.3	cNm
Weight	2.94	kg
Permissible dynamic tilting moment	580	Nm
Permissible axial load	8.161	kN
Permissible radial load	5.468	kN