HIWIN 上銀科技股份有限公司
台灣408208台中市精密機械園區精科路7號
Tel : +886-4-23594510 Fax : +886-4-23594420
HIWIN TECHNOLOGIES CORP.
No. 7, Jingke Road, Precision Machinery Park, Taichung 408208, Taiwan
www.hiwin.tw business@hiwin.tw

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGH-40-80-PO	Diagram	
Model	40		
Ratio	80		

Item	Value	Unit
Rated torque at input 2000rpm	268	Nm
Average torque	369	Nm
Repeated peak torque	675	Nm
Momentary peak torque	1270	Nm
Average input speed	3000	rpm
Maximum input speed	4000	rpm
Moment of inertia	4.5	$x10^{-4}$ 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	3.8	kgfm/arc min
Torsional Stiffness K2	6	kgfm/arc min
No load starting torque	39	cNm
No load running torque(25°C/2000rpm)	69.1	cNm
Weight	5.1	kg
Permissible dynamic tilting moment	849	Nm
Permissible axial load	9.25	kN
Permissible radial load	6.198	kN