

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGH-40-160-PO		Diagram	
Model	40			
Ratio	160			
Item		Value		Unit
Rated torque at input 2000rpm		382		Nm
Average torque		586		Nm
Repeated peak torque		841		Nm
Momentary peak torque		1530		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		5		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		26		cNm
No load running torque(25°C/2000rpm)		63.5		cNm
Weight		5.1		kg
Permissible dynamic tilting moment		849		Nm
Permissible axial load		9.25		kN
Permissible radial load		6.198		kN