

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGH-40-160-PH	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		9.28	x10 ⁻⁴ kgm ²
Transmission accuracy		1	arc min
Repeatability		±6	arc sec
Maximum backlash		-	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		5.4	kg
Permissible dynamic tilting moment		849	Nm
Permissible axial load		9.25	kN
Permissible radial load		6.198	kN