


DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DSH-40-160-AJ	Diagram	
Model	40		
Ratio	160		
Item	Value	Unit	
Rated torque at input 2000rpm	294	Nm	
Average torque	451	Nm	
Repeated peak torque	647	Nm	
Momentary peak torque	1180	Nm	
Average input speed	3000	rpm	
Maximum input speed	4000	rpm	
Moment of inertia	3.41	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	39	cNm	
No load running torque(25°C/2000rpm)	76	cNm	
Weight	7.3	kg	
Permissible dynamic tilting moment	849	Nm	
Permissible axial load	9.25	kN	
Permissible radial load	6.198	kN	