


DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DSC-32-120-PO-M	Diagram	
Model	32		
Ratio	120		
Item	Value	Unit	
Rated torque at input 2000rpm	137	Nm	
Average torque	216	Nm	
Repeated peak torque	353	Nm	
Momentary peak torque	686	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	6	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	15	cNm	
No load running torque(25°C/2000rpm)	37.1	cNm	
Weight	3.95	kg	
Permissible dynamic tilting moment	578	Nm	
Permissible axial load	9.357	kN	
Permissible radial load	6.269	kN	