

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGH-32-160-AJ		Diagram	
Model	32			
Ratio	160			
Item		Value	Unit	
Rated torque at input 2000rpm		178	Nm	
Average torque		281	Nm	
Repeated peak torque		484	Nm	
Momentary peak torque		892	Nm	
Average input speed		3500	rpm	
Maximum input speed		4800	rpm	
Moment of inertia		1.2	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		2	kgfm/arc min	
Torsional Stiffness K2		3.2	kgfm/arc min	
No load starting torque		23	cNm	
No load running torque(25°C/2000rpm)		42.5	cNm	
Weight		4.4	kg	
Permissible dynamic tilting moment		580	Nm	
Permissible axial load		8.161	kN	
Permissible radial load		5.468	kN	