

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGH-20-120-PO		Diagram	
Model	20			
Ratio	120			
Item		Value	Unit	
Rated torque at input 2000rpm		52	Nm	
Average torque		64	Nm	
Repeated peak torque		113	Nm	
Momentary peak torque		191	Nm	
Average input speed		3500	rpm	
Maximum input speed		6500	rpm	
Moment of inertia		0.193	x10 ⁻⁴ kgm ²	
Transmission accuracy		1	arc min	
Repeatability		±6	arc sec	
Maximum backlash		8	arc sec	
Hysteresis loss		1	arc min	
Lost motion		1	arc min	
Torsional Stiffness K1		0.47	kgfm/arc min	
Torsional Stiffness K2		0.75	kgfm/arc min	
No load starting torque		4.2	cNm	
No load running torque(25°C/2000rpm)		9.2	cNm	
Weight		0.81	kg	
Permissible dynamic tilting moment		187	Nm	
Permissible axial load		3.119	kN	
Permissible radial load		2.09	kN	