

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGC-20-160-PO	Diagram	
Model	20		
Ratio	160		
Item		Value	Unit
Rated torque at input 2000rpm		52	Nm
Average torque		64	Nm
Repeated peak torque		120	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		6	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		3.6	cNm
No load running torque(25°C/2000rpm)		8.7	cNm
Weight		0.98	kg
Permissible dynamic tilting moment		91	Nm
Permissible axial load		1.235	kN
Permissible radial load		0.827	kN