

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGC-40-120-PO	Diagram	
Model	40		
Ratio	120		
Item		Value	Unit
Rated torque at input 2000rpm		382	Nm
Average torque		586	Nm
Repeated peak torque		802	Nm
Momentary peak torque		1510	Nm
Average input speed		3000	rpm
Maximum input speed		4000	rpm
Moment of inertia		4.5	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		3.8	kgfm/arc min
Torsional Stiffness K2		6	kgfm/arc min
No load starting torque		31	cNm
No load running torque(25°C/2000rpm)		65.5	cNm
Weight		5	kg
Permissible dynamic tilting moment		450	Nm
Permissible axial load		4.55	kN
Permissible radial load		3.049	kN