

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DGC-25-120-PO	Diagram	
Model	25		
Ratio	120		
Item		Value	Unit
Rated torque at input 2000rpm		87	Nm
Average torque		140	Nm
Repeated peak torque		217	Nm
Momentary peak torque		395	Nm
Average input speed		3500	rpm
Maximum input speed		5600	rpm
Moment of inertia		0.413	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		0.92	kgfm/arc min
Torsional Stiffness K2		1.5	kgfm/arc min
No load starting torque		8	cNm
No load running torque(25°C/2000rpm)		17.5	cNm
Weight		1.5	kg
Permissible dynamic tilting moment		156	Nm
Permissible axial load		2.051	kN
Permissible radial load		1.374	kN