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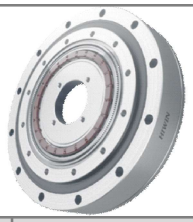
DATORKER® Strain Wave Gear Technical Data

Date: 2026/1/5

Specification	DTH-25-50-PE	Diagram	
Model	25		
Ratio	50		

Item	Value	Unit
Rated torque at input 2000rpm	27	Nm
Average torque	38	Nm
Repeated peak torque	69	Nm
Momentary peak torque	127	Nm
Average input speed	3500	rpm
Maximum input speed	5600	rpm
Moment of inertia	0.282	$x10^{-4}$ kgm^2
Transmission accuracy	1	arc min
Repeatability	±6	arc sec
Maximum backlash	-	arc sec
Hysteresis loss	2	arc min
Lost motion	1	arc min
Torsional Stiffness K1	0.6	kgfm/arc min
Torsional Stiffness K2	0.8	kgfm/arc min
No load starting torque	39	cNm
No load running torque(25℃/2000rpm)	21	cNm
Weight	0.91	kg
Crossed roller bearing specifications		
Pitch circle diameter of roller	0.086	m
Offset amount	0.0121	m
Basic dynamic load ratings	10.9	kN
Basic static load ratings	17.9	kN
Moment rigidity	9.2	kgfm/arc min
Permissible dynamic tilting moment	129	Nm
Permissible static tilting moment	210	Nm
Permissible axial load	2.329	kN
Permissible radial load	1.56	kN