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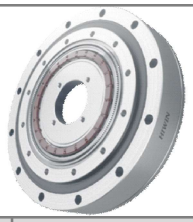
DATORKER® Strain Wave Gear Technical Data

Date: 2026/1/5

Specification	DTH-32-50-PE	Diagram	
Model	32		
Ratio	50		

Item	Value	Unit
Rated torque at input 2000rpm	53	Nm
Average torque	75	Nm
Repeated peak torque	151	Nm
Momentary peak torque	268	Nm
Average input speed	3500	rpm
Maximum input speed	4800	rpm
Moment of inertia	1.09	$x10^{-4}$ 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	1.4	kgfm/arc min
Torsional Stiffness K2	1.8	kgfm/arc min
No load starting torque	60	cNm
No load running torque(25℃/2000rpm)	45	cNm
Weight	1.87	kg
Crossed roller bearing specifications		
Pitch circle diameter of roller	0.112	m
Offset amount	0.0173	m
Basic dynamic load ratings	19.1	kN
Basic static load ratings	32.7	kN
Moment rigidity	24.4	kgfm/arc min
Permissible dynamic tilting moment	290	Nm
Permissible static tilting moment	503	Nm
Permissible axial load	4.08	kN
Permissible radial load	2.734	kN