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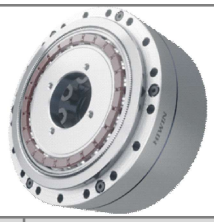
DATORKER® Strain Wave Gear Technical Data

Date: 2025/12/30

Specification	DTC-17-50-PE	Diagram	
Model	17		
Ratio	50		

Item	Value	Unit
Rated torque at input 2000rpm	11	Nm
Average torque	18	Nm
Repeated peak torque	23	Nm
Momentary peak torque	48	Nm
Average input speed	3500	rpm
Maximum input speed	7300	rpm
Moment of inertia	0.054	$x10^{-4}$ kgm^2
Transmission accuracy	1.5	arc min
Repeatability	±6	arc sec
Maximum backlash	-	arc sec
Hysteresis loss	2	arc min
Lost motion	1	arc min
Torsional Stiffness K1	0.2	kgfm/arc min
Torsional Stiffness K2	0.26	kgfm/arc min
No load starting torque	6.7	cNm
No load running torque(25℃/2000rpm)	7.5	cNm
Weight	0.46	kg
Crossed roller bearing specifications		
Pitch circle diameter of roller	0.0425	m
Offset amount	0.0099	m
Basic dynamic load ratings	5.3	kN
Basic static load ratings	7.6	kN
Moment rigidity	2.3	kgfm/arc min
Permissible dynamic tilting moment	64	Nm
Permissible static tilting moment	88	Nm
Permissible axial load	1.13	kN
Permissible radial load	0.758	kN