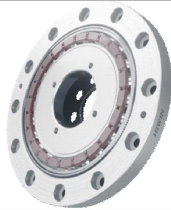


DATORKER® Strain Wave Gear Technical Data

Date: 2025/12/30

Specification	DTC-32-50-CE		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			28	cNm
No load running torque(25°C/2000rpm)			40.4	cNm
Weight			0.51	kg
Crossed roller bearing specifications				
Pitch circle diameter of roller			-	m
Offset amount			-	m
Basic dynamic load ratings			-	kN
Basic static load ratings			-	kN
Moment rigidity			-	kgfm/arc min
Permissible dynamic tilting moment			-	Nm
Permissible static tilting moment			-	Nm
Permissible axial load			-	kN
Permissible radial load			-	kN