

DATORKER® Strain Wave Gear Technical Data

Date: 2026/1/5

Specification	DTH-20-160-AH		Diagram	
Model	20			
Ratio	160			
Item			Value	Unit
Rated torque at input 2000rpm			28	Nm
Average torque			34	Nm
Repeated peak torque			64	Nm
Momentary peak torque			95	Nm
Average input speed			3500	rpm
Maximum input speed			6500	rpm
Moment of inertia			0.271	x10 ⁻⁴ kgm ²
Transmission accuracy			1	arc min
Repeatability			±6	arc sec
Maximum backlash			-	arc sec
Hysteresis loss			1	arc min
Lost motion			1	arc min
Torsional Stiffness K1			0.4	kgfm/arc min
Torsional Stiffness K2			0.5	kgfm/arc min
No load starting torque			48	cNm
No load running torque(25°C/2000rpm)			30.3	cNm
Weight			0.84	kg
Crossed roller bearing specifications				
Pitch circle diameter of roller			0.07	m
Offset amount			0.011	m
Basic dynamic load ratings			7.3	kN
Basic static load ratings			11	kN
Moment rigidity			6.2	kgfm/arc min
Permissible dynamic tilting moment			93	Nm
Permissible static tilting moment			161	Nm
Permissible axial load			1.56	kN
Permissible radial load			1.045	kN