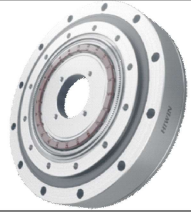


DATORKER® Strain Wave Gear Technical Data

Date: 2026/1/5

Specification	DTH-20-120-PE		Diagram	
Model	20			
Ratio	120			
Item		Value	Unit	
Rated torque at input 2000rpm		28	Nm	
Average torque		34	Nm	
Repeated peak torque		60	Nm	
Momentary peak torque		95	Nm	
Average input speed		3500	rpm	
Maximum input speed		6500	rpm	
Moment of inertia		0.09	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		22	cNm	
No load running torque(25°C/2000rpm)		9.1	cNm	
Weight		0.52	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	