

## DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	<b>DSC-25-160-PO</b>	Diagram	
Model	<b>25</b>		
Ratio	<b>160</b>		
Item	Value	Unit	
Rated torque at input 2000rpm	<b>67</b>	Nm	
Average torque	<b>108</b>	Nm	
Repeated peak torque	<b>176</b>	Nm	
Momentary peak torque	<b>314</b>	Nm	
Average input speed	<b>3500</b>	rpm	
Maximum input speed	<b>5600</b>	rpm	
Moment of inertia	<b>0.413</b>	$\times 10^{-4}$ kgm <sup>2</sup>	
Transmission accuracy	<b>1</b>	arc min	
Repeatability	<b>±6</b>	arc sec	
Maximum backlash	<b>6</b>	arc sec	
Hysteresis loss	<b>1</b>	arc min	
Lost motion	<b>1</b>	arc min	
Torsional Stiffness K1	<b>0.92</b>	kgfm/arc min	
Torsional Stiffness K2	<b>1.5</b>	kgfm/arc min	
No load starting torque	<b>6.3</b>	cNm	
No load running torque(25°C/2000rpm)	<b>16.8</b>	cNm	
Weight	<b>1.5</b>	kg	
Permissible dynamic tilting moment	<b>156</b>	Nm	
Permissible axial load	<b>2.051</b>	kN	
Permissible radial load	<b>1.374</b>	kN	