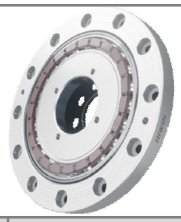
HIWIN®
上銀科技股份有限公司
台灣408208台中市精密機械園區精科路7號
Tel : +886-4-23594510 Fax : +886-4-23594420
HIWIN TECHNOLOGIES CORP.
No. 7, Jingke Road, Precision Machinery Park, Taichung 408208, Taiwan
www.hiwin.tw business@hiwin.tw

# DATORKER® Strain Wave Gear Technical Data

Date: 2025/12/30

| Specification | DTC-25-160-CE | Diagram |  |
|---|---|---|---|
| Model | 25 | | |
| Ratio | 160 | | |

| Item | Value | Unit |
|---|---|---|
| Rated torque at input 2000rpm | 47 | Nm |
| Average torque | 75 | Nm |
| Repeated peak torque | 123 | Nm |
| Momentary peak torque | 152 | Nm |
| Average input speed | 3500 | rpm |
| Maximum input speed | 5600 | rpm |
| Moment of inertia | 0.282 | $x10^{-4}$ $kgm^2$ |
| 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 | 0.8 | kgfm/arc min |
| Torsional Stiffness K2 | 1.1 | kgfm/arc min |
| No load starting torque | 6.4 | cNm |
| No load running torque(25℃/2000rpm) | 16.28 | cNm |
| Weight | 0.24 | 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 |