


DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

| Specification | DSH-32-100-AH | Diagram |  |
|--------------------------------------|---------------|-----------------------------------|---|
| Model | 32 | | |
| Ratio | 100 | | |
| Item | Value | Unit | |
| Rated torque at input 2000rpm | 137 | Nm | |
| Average torque | 216 | Nm | |
| Repeated peak torque | 333 | Nm | |
| Momentary peak torque | 647 | Nm | |
| Average input speed | 3500 | rpm | |
| Maximum input speed | 4800 | rpm | |
| Moment of inertia | 2.85 | $\times 10^{-4}$ 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 | 2 | kgfm/arc min | |
| Torsional Stiffness K2 | 3.2 | kgfm/arc min | |
| No load starting torque | 72 | cNm | |
| No load running torque(25°C/2000rpm) | 90 | cNm | |
| Weight | 4.5 | kg | |
| Permissible dynamic tilting moment | 580 | Nm | |
| Permissible axial load | 8.161 | kN | |
| Permissible radial load | 5.468 | kN | |