

## NXT-D-050 PLANETARY GEARBOX

Inline direct drive gearbox

NXT-D-050-1-3

- 50mm diameter, high efficiency
- Very high torsional stiffness
- Low std backlash with tighter tolerance option
- Nominal torque up to 12Nm
- Ratios 3:1 to 81:1



### PRODUCT DESCRIPTION

NXT D series range offers coaxial planetary gearboxes in 4 sizes with high torsional rigidity and standard keyway output shaft.

- Gear ratios from 3:1 (single stage) to 100:1 (two stage)
- Nominal torque handling from 8-110Nm
- Torsional rigidity between 0.7-22Nm/arcmin

Two backlash tolerances are available in each configuration depending on application requirements.

NXT range also includes right-angle and toothed pulley-drive output options, IP65 is standard

### TECHNICAL DATA

|                               |               |
|-------------------------------|---------------|
| <b>Axial load max</b>         | 450 N         |
| <b>Efficiency</b>             | 96 %          |
| <b>Emergency brake torque</b> | 25            |
| <b>Input speed</b>            | 3500 rpm      |
| <b>IP class</b>               | IP65          |
| <b>Max backlash</b>           | 8 arcmin      |
| <b>Max radial load</b>        | 500 N         |
| <b>Max. input speed</b>       | 6000 rpm      |
| <b>Moment of inertia</b>      | 0.09          |
| <b>Noise level</b>            | 70 dB         |
| <b>Nominal torque</b>         | 8             |
| <b>Reduction ratio</b>        | 3             |
| <b>Starting torque</b>        | 14            |
| <b>Stiffness</b>              | 0.8 Nm/arcmin |

**Weight**

0.8 kg