



# Cone Drive

BY TIMKEN

## Cycloidal Solutions



TwinSpin® and DriveSpin® cycloidal reducers are designed for high precision, torque density, and weight reduction. The G & GH series provide high tilting stiffness, low friction, and high torque overload capacity with a high precision output bearing. In addition the DS & DSH series provide rotary motion and transfer output torque with high radial-axial load capacity.

AUTOMATION & ROBOTICS | MEDICAL | SATELLITE COMMUNICATION | MILITARY | MACHINE TOOLS

### HIGH TORQUE PRECISION

#### TwinSpin®

- High reduction ratio
- High kinematic accuracy
- Low lost motion
- High moment capacity and stiffness
- Compact and lightweight

#### DriveSpin®

- Dynamic, high performance actuator
- Compact design
- High torsional and tilting stiffness
- Zero backlash



CONFIGURE & DOWNLOAD YOUR MODEL AT

[www.ConeTools.com](http://www.ConeTools.com)

Cycloidal Solutions

# S P E C I F I C A T I O N S

#### TwinSpin®

**Sizes:** 065 thru 285

**Ratio:** 35:1 thru 137:1

**Lost Motion:** < 1 arc min

**Rated Output Torque:** ≤ 1,700 Nm

**Max. Accel./Decel. Torque:** ≤ 4,250 Nm

#### DriveSpin®

**Sizes:** 050 thru 170

**Rated Output Torque:** ≤ 460 Nm

**Max. Acceleration Torque:** ≤ 1,150 Nm

*(ratings vary by size and style)*



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## Precision Motion Control

Cone Drive's precision gearing solutions exceed the most demanding needs in motion control applications. Available in both right angle and in-line configurations, we have a variety of products to fit your precision and power needs. Since 1925, Cone Drive has provided you the quality and lead times required to keep you in motion.

### In-Line Precision Solutions



**CONE DRIVE HARMONIC SOLUTIONS®**

- Low to zero backlash
- High transmission accuracy
- Customizations available upon request
- 1 year warranty



**SPINEA CYCLOIDAL TWINSPIN®**

- Low backlash
- High reduction ratio
- High kinematic accuracy
- High moment capacity and stiffness
- Compact and lightweight



**SPINEA CYCLOIDAL DRIVESPIN®**

- Zero backlash
- Dynamic, high performance actuator
- Compact design
- High torsional and tilting stiffness



**PLANETARY SOLUTIONS**

- Quiet operation
- Low backlash, high efficiency
- Stainless steel option
- Competitive interchanges available

### Right Angle Double Enveloping Precision Worm Gear Solutions



**SERIES FS**

- Low or standard backlash
- IP69k
- 316 stainless steel adapter and housing
- Viton™ output seals
- 5 year warranty



**SERIES W**

- Zero, low, or standard backlash
- Aluminum housing
- Angular contact ball bearings (worm shaft)
- Zero backlash bellows style coupling
- 5 year warranty



**SERIES RG**

- Low or standard backlash
- Cast iron housing
- White epoxy or stainless steel paint available
- 5 year warranty



**SERIES S**

- Conex proprietary worm gearing
- Aluminum housing
- USDA white epoxy paint available
- Optional wash down design
- 2 year warranty



**SERIES HP**

- Low or standard backlash
- Vented, cast iron housing
- Bellows or jaw style coupling
- 5 year warranty



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