



**Cone Drive**  
BY TIMKEN

# GEARING FOR **SATCOM**

Cone Drive is a proven leader in precision gearing and motion control, delivering performance and reliability in critical environments around the globe.



## Gearing the Future of Global Communication



Satellite communication systems rely on **highly accurate, repeatable, and durable** actuation to **maintain alignment** and signal integrity. Tracking antennas, radar systems, and mobile ground stations all require precise azimuth and elevation movement. Cone Drive's **double-enveloping worm gearing, harmonic strain wave gearing, TwinSpin® cycloidal gearing, and slewing drives and bearings** offer compact, high-torque solutions ideal for positioning and stabilization.



## In Action

- ⚙ Azimuth and elevation control for ground station satellites
- ⚙ Small antenna actuators for portable comms units
- ⚙ High-accuracy tracking in UAV-mounted comm antennas
- ⚙ Rugged positioners for mobile satellite terminals
- ⚙ Rotation systems for radar arrays or reflectors



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



1-888-994-2663



Traverse City, MI





## Our Competitive Advantage



### LEADING PERFORMANCE

Recognized for our accuracy and precision



### HIGHLY CUSTOMIZABLE SOLUTIONS

We can engineer a solution for your unique application



### SHORT LEAD TIMES

We ship in days; not weeks or months



### SUPERIOR QUALITY

With over 100 years in the industry, we offer robust and reliable solutions



### HIGHEST TORQUE/POWER DENSITY

Smallest form factor in the industry



### GLOBAL REACH WITH LOCAL SUPPORT LEVELS

Where it's needed, when it's needed



[WWW.CONEDRIVE.COM/TOOLS](http://WWW.CONEDRIVE.COM/TOOLS)

Empower yourself with click-to-configure tools.

## A Full Spectrum of Gearing Technologies, Tailored to Perform

### DOUBLE ENVELOPING WORM GEARING

Precision-engineered and made in the USA, Cone Drive's double enveloping worm gears deliver smooth, high-torque transmission with low or zero backlash, customizable for NEMA and servo applications—including IP69K-rated options.

### HARMONIC STRAIN WAVE GEARING

Designed for compact, high-precision motion control, Cone Drive's harmonic solutions offer drop-in compatibility with competitors and full customization in cup, hat, and ring styles—including lightweight and "F-style" bolt patterns.

### **SPINEA TWINSPIN® PRECISION CYCLOIDAL GEARING**

For demanding applications requiring zero backlash and high torque in a compact footprint, Spinea's cycloidal gear units deliver superior torsional stiffness, load capacity, and integrated design flexibility.

### SLEWING DRIVES & BEARINGS

Cone Drive's slewing drives feature high-ratio gearing in a compact, ready-to-install housing, optimized for weight and performance. Cone Drive's slewing bearings can handle the axial, radial, and tilting moments for the most challenging applications – select sizes and styles available from stock.

