



SOLAR

MARKET SOLUTIONS

About Cone Drive



Our Company. Our Value.

As a leader in precision motion control technology, we work with our customers every step of the way - from early design specifications to the final solution. Cone Drive has a long history of providing solutions tailored to specific needs and performance requirements of the customer, keeping our customers' technology at the forefront of their industry. From day one we've been dedicated to producing and presenting superior, innovative technology that provides the absolute best solution for our customers. Our priority is to present precision motion control solutions at competitive prices.

Cone Drive has multiple locations around the world which allow us to serve every corner of the globe. The Cone Drive value delivers advanced actuation technology, superior engineering design, lean manufacturing, and quality assurance.

Engineered Solutions

Cone Drive's engineering team designs and creates precision motion control solutions for a wide range of Concentrating Solar and Concentrating Photovoltaic Power Generation systems around the world. Our products feature high torsional stiffness for structural integrity, static backholding torque up to 158,300 Nm, non-locking or self-locking worm gear ratios, robust corrosion protection, extremely low backlash options, and maintenance-free operation over the system's lifetime. Working as an extension of your engineering team, Cone Drive's team of design, manufacturing, and quality engineers will deliver the ideal solution to meet all of your cost and performance specifications.

Key Applications

- Single-Axis Tracking Drives
- Dual-Axis Tracking Drives



Cone Drive

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Product Specifications



Product Type	Description	Precision Level	Output Torque Range (Nm)	Ratios
Tracker Drive (TD)	Foot Mounted Elevation Drive	≥ 5.0 mRad	150-145,000	5:1-85:1
Azimuth Drive (AD)	Gear/Output Flange Mounted Azimuth Drive	≥ 0.7 mRad	150-15,000	5:1-85:1
Dual Axis Drive (DD)	Gear/Output Flange Mounted Dual Axis Drive	≥ 0.7 mRad	30-2,000	5:1-85:1
Slewing Drive (SE)	Housing Mounted Azimuth Slewing Drive	≥ 16.4 mRad	240-158,300	61:1-150:1
Vertical Slewing Drive (VE)	Foot Mounted Elevation Slewing Drive	≥ 16.4 mRad	240-105,800	30:1-125:1
Dual Axis Slewing Drive (WD)	Gear/Output Flange Mounted Dual Axis Drive	≥ 11.0 mRad	400-2,000	28:1-62:1



With over six gigawatts of solar power generation using Cone Drive drives, it's easy to see why we are the global leader in solar tracking. Our solutions for the Solar Industry help harness the sun's power, efficiently and cost effectively. Our slewing drives and worm drives deliver the highest dynamic and static torque load capacity in the smallest amount of space possible. For applications where pointing accuracy is critical, Cone Drive's double-enveloping worm technology provides ultimate tracking precision and accuracy, with up to absolute zero backlash.



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