

**ABOUT
ARRAY TECHNOLOGIES, INC.**

Solar industry pioneer Array Technologies, Inc. is the leading manufacturer of innovative, cost-effective, reliable and robust solar tracking systems. Our customers include utilities, corporations, small businesses, and homeowners. Headquartered in Albuquerque, NM for over twenty years, Array provides its customers with unequalled solar tracking expertise. Array's trackers are manufactured in the USA and shipped worldwide.

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Array Technologies' DuraTrack HZ Solar Tracker optimally balances performance with high durability, long-term reliability, and minimal operation and maintenance, to maximize the ROI for utility-scale projects.

SMART DESIGN

Unlike "push-pull" tracker designs, DuraTrack HZ's rotating gear-drive system does not transmit wind forces through the driveline, resulting in an uncomplicated, robust solution that requires less structural material and parts.

GREATEST DESIGN FLEXIBILITY

Articulating driveline connections accommodate installation on undulating terrain and irregular site boundaries while immensely relaxing installation tolerances, reducing the risk of installation errors.

LESS MOTORS PER MW INCREASES PAYBACK

Designed to expedite the development of utility-scale solar plants, the DuraTrack HZ high-density, low-profile system has less motors per MW making it easier to install, operate and maintain.

WIND TUNNEL AND LAB TESTED

Full-scale wind tunnel testing of the DuraTrack structure, and laboratory lifetime-tested components, results in a reliable and durable system that has proved to exceed expectations.



**SAN LUIS VALLEY,
NEAR ALAMOSA, CO – 6.6 MW**

Acres of open, unobstructed land in the sunny San Luis Valley of southern Colorado make it a great location for a solar tracking system—except for the extreme cold temperatures. Summertime temperatures swing from hot in the day to cold at night. Wintertime lows have reached -50° F. Array Technologies engineered DuraTrack HZ electronics and drive components for reliable operation in this extremely cold climate. The DuraTrack HZ tracker has been field-tested and proven in all climate conditions—extreme hot, extreme cold, extreme wind and in coastal locations.

View more installations at:
arraytechinc.com

STRUCTURAL & MECHANICAL FEATURES/SPECIFICATIONS

Tracking Type	Single Axis
Tilt Angle	0 Degrees
kW per Drive Motor	From 350 kW DC to 650 kW DC
Drive Type	Gear Drive
Motor Type	1.5 to 3 HP, 3 Phase, 480V AC
Motors per 1 MW	2 – 4 motors
East-West/North-South Dimensions	Site/module specific
Array Height	48" standard, adjustable
Recommended Ground Cover Ratio (GCR)	33% standard, flexible
Modules Supported	Most commercially available
Tracking Range of Motion	90°
Module Configuration	Single module in portrait
Module Attachment	DuraTrack HZ high speed mounting clamps
Materials	HDG, high-strength steel & anodized aluminum
Allowable Wind Load	Tailored to site requirements; up to IBC 140 MPH, 3-second gust exposure C
Wind Protection	None required, safety windstow included.

ELECTRONIC CONTROLLER FEATURES/SPECIFICATIONS

Wind Stow Device	Yes
Wind Stow Device Type	Array Tech proprietary
Solar Tracking Method	Algorithm with GPS input
Control Electronics	MCU plus Central Controller
Data Feed	MODBUS over Ethernet to SCADA system
Nighttime Stow	Yes
Tracking Accuracy	+ or - 2° standard, field adjustable
Backtracking	Yes

INSTALLATION, OPERATION & MAINTENANCE

PE Stamped Structural Calculations & Drawings	Yes
Onsite System Commissioning	Yes
Welding Required	Fillet welds only
In-field Fabrication Required	No
Dry Slide Bearings & Articulating Drive-Line Connections	No lube required
Gear Drives	Grease every 2 years

GENERAL

Annual Power Consumption (kWh per 1 MW)	350 kWh per MW per year, estimated
Land Area Required Per 1 MW	Approx. 5-6 acres per MW @ 33% GCR (site and design specific)
Energy Gain vs. Fixed-Tilt	Up to 25%, site specific
Warranty	5 years parts only, 10 year extended available
Made in the USA	Yes