



NX HORIZON SELF-POWERED TRACKER

THE MOST ADVANCED AND RELIABLE TRACKER ON THE MARKET

In our mission to make solar a mainstream energy source, NEXTracker has engineered the most intelligent and flexible tracking technology available today: the NX Horizon™ self-powered tracker.

NX Horizon brings self-contained motor power and control to each row, eliminating power wiring and trenching and enabling advanced energy yield optimization. With a balanced mechanical design and highly configurable, independent rows, NX Horizon improves reliability and design flexibility while lowering O&M costs. By offering more powerful systems at a greater value, NEXTracker is accelerating deployment of renewable energy worldwide.

NX HORIZON KEY FEATURES AND BENEFITS INCLUDE:

SELF-POWERED SYSTEM WITH SMART PERFORMANCE COMMUNICATION ARCHITECTURE:

Self-contained units on each row include a dedicated PV panel to provide power to the controller which drives the motor and hosts intelligent control electronics to position each tracker row for maximum yield.

INDEPENDENT BALANCED ROWS WITH 120 DEGREE ROTATIONAL RANGE:

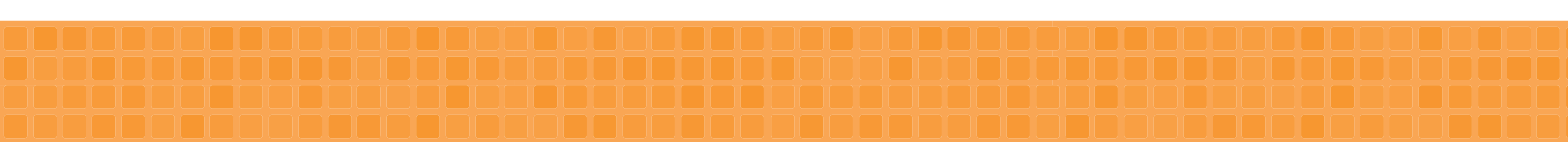
Each NX Horizon row has its own controlled motor and a wide rotational range that delivers up to 2% more energy than typical linked row trackers.

FAST AND SIMPLE INSTALLATION:

With less steel, no drive shafts, extra cabling, or welding required, NX Horizon allows for quick and easy installation. We also offer our PowerworX™ Academy to share hands-on best practices to ensure the highest quality installation and reliability for the life of the plant.

LOWEST LONG-TERM O+M COSTS:


NX Horizon's elegant design, independent rows, and smart, data-driven Digital O&M™ capability contribute to the lowest long-term ownership costs for our customers.





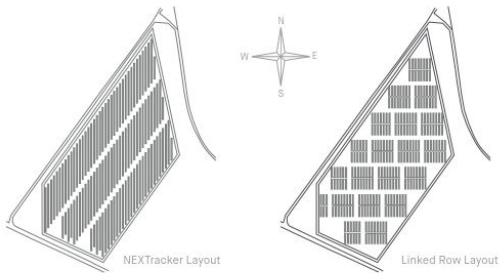
GENERAL

Tracking Technology	Horizontal single-axis balanced-mass tracker
Tracking Range	120° (± 60°)
Drive System	One slew gear, 24 VDC motor and self-powered controller w/ dedicated solar panel per row
DC Capacity	23-35kWp per tracker row, depending on panel type. Row length up to 90 panels.
System Voltage	1,000 volt or 1,500 volt
Safety Stowing	Automated wind and snow stowing with self-contained backup power
Torsional Limiter	Included at each foundation/bearing for additional wind and snow load protection
Principal Materials	Galvanized and stainless steel
Compliance	Grounding/bonding: UL2703; structural design: ASCE7-10, T racker: UL 3703
Typical Dimensions	Height 1.4 m/4.5 ft, Width 2.0 m/6.4 ft, Length 85 m/283 ft
Module Frame Bonding	Integrated bonding to foundation pier. No additional copper wiring required



SITE CONDITIONS

The innovative NX Horizon is so flexible that we are able to build almost anywhere with minimum grading. While linked row systems need to pay attention to both north-south and east-west slopes, NX Horizon offers complete freedom in east-west slope tolerance. In the north-south direction, NEXTracker's unique design accommodates a generous 15% grade.

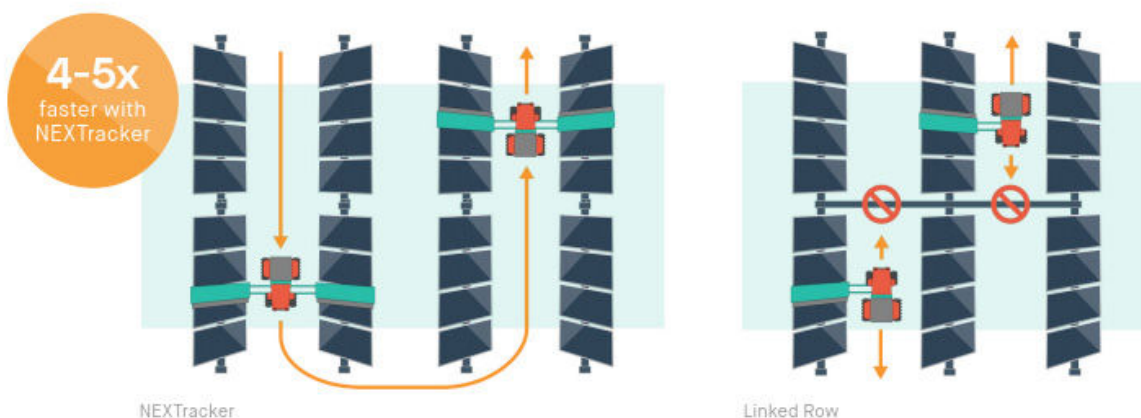


Power Consumption	Self-powered, no grid power required
Ground Coverage Ratio	No limitation. Typical range 33%-50% depending on site conditions
Foundations	I-beam and C-channel options
Maximum Site Slope	15% (8 degrees) North-South; Unlimited East-West
Maximum Wind Speed	Configurable up to 140 mph ASCE7-10
Flood Clearance	1.2m/4ft clearance for tracker electrical & controls standard. Increased array heights available

INSTALLATION & O&M

NX Horizon's efficient structural design uses less steel than conventional trackers, with fewer parts and quicker installation. You won't need drive shafts or extra cabling to power the tracker, speeding the process up even further. NX Horizon is self-grounded, so you won't have to pay costs and labor for installing grounding washers, braided straps, bare copper wire, and grounding rods. Furthermore, zero welding is required. Our patented fasteners make mounting the panels quick and easy. The fasteners are designed to hold their tensile strength indefinitely, so you won't have to waste time and money checking and re-torquing these connections.

Once installed, the tracker is easy to service. Because the rows are not linked with a drive shaft, maintenance vehicles can drive through the arrays freely. Plus, module cleaning and vegetation management becomes quick and effortless.



Installation Method	Rapid field installation of pre-manufactured components. No welding, cutting or drilling
Module Attachment	Shared mounting rails with integrated module frame grounding. Rails pre align to locating holes in torque tubes
Structural Connections	Vibration proof, permanent swaged fasteners. No re-torquing required
Commissioning Process	Automated commissioning with NEXTracker CX rapid system commissioning tool
Array Pivots	All metal, no lubrication required
Motor & Slew Drive	Fully sealed, lubricated for life. No annual maintenance
Scheduled Maintenance	Limited to annual inspections

CONTROL/MONITORING

As soon as the wireless controller is plugged in, tracking begins. Each controller has an integrated inclinometer, and can measure each row individually, sending its data through a wireless mesh network.

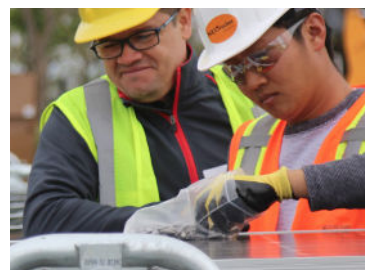
Each state-of-the-art NEXTracker row features real time data collection so you'll always know that it's working properly. You can review your entire portfolio, identify issues at a glance with flag alerts, and drill down to individual rows to see alert status, and a wide range of operational parameters. No other tracker technology offers this level of visibility. We know it's crucial for you to be able know about issues right when and where they happen, so you can react immediately. Use our NEXTracker monitoring tools to understand how your asset is performing at all times, from anywhere in the world.



Tracker Control	1 self-powered controller, DC motor and slew drive per tracker row
Communications	Wireless ZigBee® mesh network; no communication wiring required
Weather Monitoring	Wind measurement standard, snow and flood optional
Solar Tracking Method	Astronomical GPS based algorithm
Communications Architecture	One network control unit (NCU) per 100 trackers
SCADA Interface	Dedicated tracker system SCADA with HMI on dedicated industrial computer
Optimized Backtracking	Yes

SERVICE & WARRANTY

Exemplary customer service is tightly woven into NEXTracker's company DNA. We have 30 years of experience with boots on the ground, and we know how to best help you speed installation, lower project costs, insure proper maintenance, and answer every question you might have. We've got you covered with our on-site tech advisors and our PowerworX training. Customer service is value — one that we've always carried in our DNA, and always will.



Comprehensive Warranty	10 years on structural components; 5 years on drive and control systems. Extended terms available
Design Services	Site plan, topography review, detailed mechanical/structural sheet set (P.E. stamped)
Training	Regularly scheduled PowerworX Academy
On-site tech advisors	Standard



MAXIMIZE YOUR ENERGY GENERATION AND INVESTMENT WITH NX HORIZON

Email us today for a quote: salesteam@nextracker.com

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