

NX Gemini Two-in-Portrait Smart Solar Tracker

The NX Gemini<sup>™</sup> two-in-portrait (2P) solar tracker helps project developers and asset owners get the most from their power plant at the most challenging sites. The Gemini architecture minimizes pier count for difficult soils and maximizes density in sites with irregular boundaries. Its patented self-locking distributed drive system ensures stability in extreme winds without the use of dampers. Horizontal high wind and flood stow minimizes module wind pressures and keeps modules elevated above floods caused by extreme weather.

## Capitalize on Challenging Sites with NX Gemini

NX Gemini minimizes pier count for difficult soil conditions with only seven foundation piers in a typical four-string 540-watt module tracker row. Its flexible 2P module configuration maximizes layout density in irregularly shaped sites while preserving vehicle access between rows.

### Pair with TrueCapture and Bifacial for Maximum Performance

NX Gemini is optimized for the latest PV module advances, including bifacial and large-format modules. It is integrated with the entire Nextracker controls and software ecosystem, including the TrueCapture<sup>™</sup> smart control and energy yield enhancement platform. NX Gemini builds on >50 GW of Nextracker installations to deliver predictable performance for customers.



The Nextracker team has always collaborated with us during their product development process, resulting in trackers that are faster to build, compatible for more sites and easier to maintain. NX Gemini is a strong tracker option for sites with challenging topography and geotechnical conditions.

- George Hershman, CEO, SOLV Energy Features and Benefits

## Industry-leading

2P design that minimizes foundation posts per megawatt

## Flexible

for use on sites with challenging soils and irregular boundaries

# Reliable

In extreme wind events with patented self-locking distributed drive

## Hurricane-ready

with horizontal wind and flood stow, keeping modules and electronics safe

## **TrueCapture**

available to boost energy yield



### GENERAL AND MECHANICAL

Tracking type	Horizontal single-axis, independent row
Module configuration	2 in portrait. 4 strings of crystalline silicon modules. Partial length trackers available
Typical row size	Up to 120 modules, depending on module
Modules supported	Most utility-scale crystalline silicon modules First Solar Series 6/6+
Module attachment	Self-grounding, electric tool-actuated fasteners standard.
Array height	Rotation axis elevation: 1.9 to 2.6 m / 6'2" to 8'8"
Ground coverage ratio (GCR)	Typical range 28-60%
Tracking range of motion	±50°
Motor type	48V brushless DC motor
Drive type	NX-patented self-locking, distributed drive
Operating temperature range	SELF-POWERED: -30°C to 55°C (-22°F to 131°F) AC POWERED: -40°C to 55°C (-40°F to 131°F)
Materials	Galvanized steel
Allowable wind speed	Configurable up to 233 kph (145 mph) (3-sec gust, 10 m AGL)
Wind protection	Intelligent wind stowing with self-locking, distributed drive system for maximum array stability in all wind conditions
High wind stow angle	0° (horizontal)
Flood stow	0° (horizontal). Sensitive components are positioned min. 1.68 m (5.5 ft) above ground. Pier height can be optionally increased.
Foundations	Standard W8 section foundation posts. Typically, 100 - 150 piers/MW.

### **ELECTRONICS AND CONTROLS**

Solar tracking method	Astronomical algorithm with backtracking. TrueCapture™ upgrades available for diffuse tracking mode
Control electronics	NX tracker controller with in-built inclinometer and backup battery
Communications	Zigbee wireless communications to all tracker rows and weather stations via network control units (NCUs)
Nighttime stow	Yes
Power supply	SELF-POWERED: Nextracker-supplied solar module for tracker power
	AC POWERED: Nextracker-supplied AC power supply with customer-provided AC circuit

#### INSTALLATION, OPERATIONS AND SERVICE

PE stamped structural calculations and drawings	Included
Onsite training and system commissioning	Included
Installation requirements	Simple assembly using swaged fasteners and bolted connections. No field cutting, drilling, or welding.
Monitoring	NX Data Hub™ centralized data aggregation and monitoring
Module cleaning compatibility	Compatible with virtually all standard cleaning systems
Warranty	10-year structural 5-year drive and control components
Codes and standards	UL 2703 / UL 3703 / IEC 62817