The NX Gemini™ two-in-portrait (2P) solar tracker optimizes lifetime value and performance, helping project developers and asset owners get the most from their power plant. Ideally suited for sites with challenging soils, high winds, and irregular boundaries, the ruggedized 2P tracker features a patent-pending distributed drive system for maximum stability in extreme weather, eliminating the need for dampers and producing virtually zero energy losses associated with stowing.

**Capitalizing with Highest Power Density Solar Tracker**

NX Gemini’s flexible 2P module configuration allows for the maximum number of modules per foundation, requiring only 60 meters and seven foundation posts to provide support for up to 120 modules on four 1500-volt strings. With the lowest number of foundations per megawatts on the solar tracker market today, NX Gemini helps reduce tracker installation costs on difficult sites.

**Pair with TrueCapture and Bifacial for Maximum Performance**

The 2P tracker can be equipped with either monofacial or bifacial PV modules and integrated with the entire NEXTracker software ecosystem, including the TrueCapture™ advanced smart control and energy yield enhancement platform. Incorporated into the NX Gemini design is the field-proven innovations found in NX Horizon™, such as independent-row architecture, intelligent control systems and wireless communications.

“...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, President of Swinerton Renewable Energy
## GENERAL AND MECHANICAL

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tracking type</td>
<td>Horizontal single-axis, independent row</td>
</tr>
<tr>
<td>String voltage</td>
<td>1,500 Vdc</td>
</tr>
<tr>
<td>Typical row size</td>
<td>112 - 120 modules, depending on module string length</td>
</tr>
<tr>
<td>Drive type</td>
<td>NX patent-pending self-locking, distributed drive</td>
</tr>
<tr>
<td>Motor type</td>
<td>48 V brushless DC motor</td>
</tr>
<tr>
<td>Array height</td>
<td>Rotation axis elevation 1.9 to 2.5 m/ 6’2” to 8’2”</td>
</tr>
<tr>
<td>Ground coverage ratio (GCR)</td>
<td>Typical range 28-50%</td>
</tr>
<tr>
<td>Modules supported</td>
<td>Mounting options available for most utility-scale crystalline modules</td>
</tr>
<tr>
<td>Bifacial features</td>
<td>Available with optimized central torque tube gap</td>
</tr>
<tr>
<td>Tracking type</td>
<td>Horizontal single-axis, independent row</td>
</tr>
<tr>
<td>Tracking range of motion</td>
<td>±50°</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>Array powered: -20°C to 55°C (-4°F to 131°F) AC powered: -40°C to 55°C (-40°F to 131°F)</td>
</tr>
<tr>
<td>Module configuration</td>
<td>2 in portrait, 4 x 1,500 strings per standard tracker. Partial length trackers available.</td>
</tr>
<tr>
<td>Module attachment</td>
<td>Self-grounding, electric tool-actuated fasteners standard. Clamping system optional.</td>
</tr>
<tr>
<td>Materials</td>
<td>Galvanized steel</td>
</tr>
<tr>
<td>Allowable wind speed</td>
<td>Configurable up to 235 kph (145 mph) 3-second gust</td>
</tr>
<tr>
<td>Wind protection</td>
<td>Intelligent wind stowing with self-locking, distributed drive system for maximum array stability in all wind conditions</td>
</tr>
<tr>
<td>Foundations</td>
<td>Standard W8 section foundation posts. Typically ~160 piers/MW</td>
</tr>
</tbody>
</table>

## ELECTRONICS AND CONTROLS

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar tracking method</td>
<td>Astronomical algorithm with backtracking. TrueCapture™ upgrades available for terrain adaptive backtracking and diffuse tracking mode</td>
</tr>
<tr>
<td>Control electronics</td>
<td>NX tracker controller with inbuilt inclinometer and backup battery</td>
</tr>
<tr>
<td>Communications</td>
<td>Zigbee wireless communications to all tracker rows and weather stations via network control units (NCUs)</td>
</tr>
<tr>
<td>Nighttime stow</td>
<td>Yes</td>
</tr>
<tr>
<td>Power supply</td>
<td>Array powered: NX Integrated DC pre-combiner &amp; power supply AC powered: Customer-provided AC circuit</td>
</tr>
</tbody>
</table>

## INSTALLATION, OPERATIONS AND SERVICE

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE stamped structural calculations and drawings</td>
<td>Included</td>
</tr>
<tr>
<td>Onsite training and system commission</td>
<td>Included</td>
</tr>
<tr>
<td>Installation requirements</td>
<td>Simple assembly using swaged fasteners and bolted connections. No field cutting, drilling or welding</td>
</tr>
<tr>
<td>Monitoring</td>
<td>NX Data Hub™ centralized data aggregation and monitoring</td>
</tr>
<tr>
<td>Module cleaning compatibility</td>
<td>Compatible with virtually all standard cleaning systems</td>
</tr>
<tr>
<td>DC string monitoring</td>
<td>Available with array-powered option</td>
</tr>
<tr>
<td>Warranty</td>
<td>10-year structural, 5-year drive and control components</td>
</tr>
<tr>
<td>Codes and standards</td>
<td>UL 3703, UL 2703, IEC 62817</td>
</tr>
</tbody>
</table>

Installer-friendly array height with construction rotation feature for faster, easier installation.