

# TerraTrak 1P

Expanded offering, proven reliability



TerraTrak 1P is designed for fewer foundations per MW and reliable performance. Our smart engineering allows for fewer parts and faster installation. The foundation agnostic design ensures reliable results in any terrain. With 80% of the parts shared with TerraTrak 2P, you're ensured proven quality and performance.

**Reduced structure and foundation loads**

- 30%-50% fewer foundations and materials required
- Reduced static and dynamic wind loads due to a new, innovative zero-degree stow strategy
- Over 500 hours of comprehensive wind tunnel testing with RWDI

**Electrician's favorite tracker**

- Easy wire management design for faster wire installation
- Designed to save on skilled labor
- Efficient wire layout requires less materials




**Proven reliability from over 500 MWs of experience**




- A-frame, legs, gear box, torque tube, controllers and more shared with TerraTrak 2P design
- Tested in the most challenging conditions and terrains

**Faster installation at no additional cost**

- 30% fewer parts
- Spherical bushings for quick and efficient torque tube alignment
- 73% reduction in bushing assembly parts

## Best in class controls & software

	<p><b>Real-time data</b> down to row level so you always know how your tracker is performing</p>
	<p><b>Minimize weather risks</b> with on-site weather stations and weather API that predicts bad weather and automatically stows when thresholds are crossed</p>
	<p><b>Remote updates</b> allow your system to stay up to date with the latest software innovations without requiring a person on site</p>

	<p><b>Machine learning</b> tells us when a row isn't tracking on its normal path and alerts you immediately, enabling you to fix issues before they affect site performance</p>
	<p><b>Faster troubleshooting</b> without rolling a truck on site. The admin panel allows users to see inside the project site, view real-time data, and investigate historical data that often leads to identification of the issue</p>
	<p><b>Zone controls</b> can rotate rows for easier and faster maintenance like mowing, washing, and electrical installation, saving our customer's money and time on O&amp;M and installation</p>

## Specifications

<b>Module orientation</b>	1 module in portrait
<b>Tracker range of motion</b>	100°
<b>Torque tube slope</b>	N/S: Up to 10%
<b>Foundation</b>	Driven pile and ground screw
<b>Wind load</b>	Up to 150 mph
<b>Snow load</b>	Up to 100 psf
<b>Optimized* mechanical dimensions</b>	18" ground clearance / 12" grade height variation
<b>Foundations per row</b>	≥7
<b>Stow strategy</b>	Reduced static and dynamic wind loads due to a new, innovative 0 degree stow strategy
<b>Weather monitoring</b>	Wind speed, snow depth, flood height, predictive analytics
<b>Torque tube height</b>	≥4 feet
<b>Corrosion</b>	ISO 9223 C2, C3

<b>Drive system</b>	Independent row design / 12 VDC motorized slew drive / zero grid power consumption
<b>Bushings</b>	Self-aligning spherical design / high impact polymer / lubricant-free, dry bushings
<b>Fasteners</b>	Standard sizes / self-locking / no special tools required
<b>Material coating</b>	HDG, inline, pre-galvanization, powder coating
<b>Adjustable foundations</b>	Flexible installation allows market leading adjustability
<b>Electrical subsystem</b>	Highly advanced BMS hardware & software
<b>Modules</b>	Compatible with large format modules
<b>Certification</b>	UL3703
<b>Warranty</b>	10 year structural, 5 year on drive and control system, 20 years on screw foundations, extended terms available

\*Optimized means the design is most cost efficient in this configuration (60 modules, 2 string). Higher loads can be accommodated with an engineering review.

## 80% of the parts are proven on over 500 MWs of installed capacity with our TerraTrak 2P

The same quality and reliable parts:	
A-frame	Bracing
Legs	Network controller
Gear box	Row box
Torque tube	Weather station
Part of the module mounting assembly	Sensors
Self-locking hardware	TerraTrak cloud and dashboard

