



ALL TERRAIN TRACKER

BECAUSE THE WORLD IS NOT FLAT

The Nevados ATT changes the way solar developers look at the world by allowing solar power plants to fit to the land rather than forcing the land to accept solar power plants. Avoid engineering and construction costs, eliminate costly labor activities, and install a single product on flat, sloped, and rolling terrain with equal ease.

1 UNDERSTAND THE WIND

- Wind tunnel studies on variable terrain provide clear answers on complex forces.
- Inherent resistance to wind dynamics eliminate the need for external dampers.

2 INCREASE SITE OPTIONS

- Access overlooked land
- Source lower-cost land
- Revisit sites previously disqualified due to grading

3 FOLLOW THE LAND

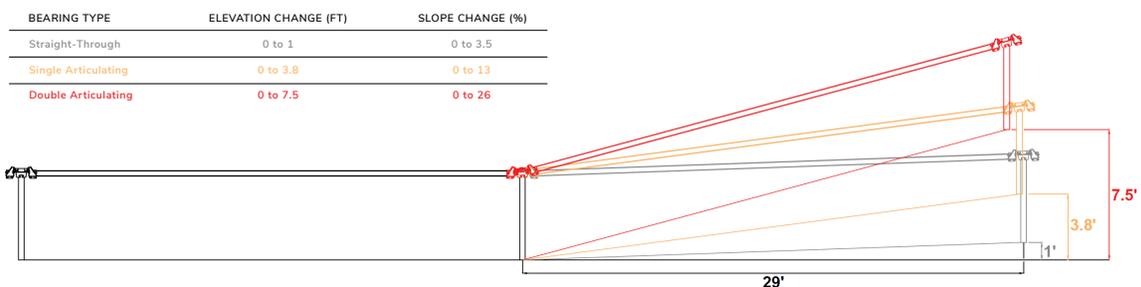
- Eliminate grading and ease permitting
- Reduce the need for environmental remediation
- Shorten construction schedules

4 SAFELY ACCELERATE CONSTRUCTION

- Assemble equipment at chest height on flat, sloped, and rolling terrain
- Eliminate bearing and module alignment labor
- Lift and set torque tubes in one motion
- Rotate any row to horizontal or full tilt with the press of a button

5 MAXIMIZE RETURNS WITH HD MODELER

- Eliminate inter-row shadows for all terrains while maximizing light capture
- Row-level tilt optimization
- Jumpstart power generation in the morning and maintain it until late in the evening



COMMUNICATIONS

<p>ROW CONFIGURATION</p>	<ul style="list-style-type: none"> • Up to 96 modules per row • 6 to 8 modules per bay
<p>TRACKING CAPABILITIES</p>	<ul style="list-style-type: none"> • $\pm 60^\circ$ tracking with primary and secondary over-rotation limits in slew drive and structure • Single row actuation with 24VDC slew drive
<p>TERRAIN FOLLOWING</p>	<ul style="list-style-type: none"> • “Standard” equipment accommodates up to $\pm 3.5\%$ slope change at each foundation (12” foundation deflection) • “Articulating” solution accommodates up to $\pm 26\%$ slope change at each foundation (90” foundation deflection) • 37% max N-S and E-W slope
<p>FOUNDATION</p>	<ul style="list-style-type: none"> • C-Channel or I-Beam foundations installed at consistent reveal throughout site
<p>GROUND COVERAGE RATIO</p>	<ul style="list-style-type: none"> • Greater than or equal to 0.25
<p>DESIGN LOADS</p>	<ul style="list-style-type: none"> • Designed to applicable ASCE • Configurable to 135+MPH • Configurable to 50PSF snow load • Loads studied in wind tunnels for variable terrain; no external dampers required for wind dynamics
<p>STOW STRATEGY</p>	<ul style="list-style-type: none"> • Wind stow at 45MPH, and proven stability at non-stow wind speeds exceeding 80MPH • Same tilt angle for snow, wind, and hail stow, as well as evening stow • Row-by-row flood stow option
<p>OPERATING TEMPERATURE</p>	<ul style="list-style-type: none"> • $-20^\circ\text{C} - 55^\circ\text{C}$
<p>MODULE CONNECTION/GROUNDING:</p>	<ul style="list-style-type: none"> • Self-grounding module clips • UL2703 and UL3703
<p>TOLERANCES</p>	<ul style="list-style-type: none"> • Flat-land: ± 12” vertical and E-W, ± 1.5” N-S (expandable), 2° vertical plumb, 9° twist • Variable-terrain: vertical tolerances may increase or decrease based on neighboring foundations
<p>CONTROLS</p>	<ul style="list-style-type: none"> • Zone controller web dashboard for zone monitoring & management, with row-level control • SCADA integration via Modbus TCP/IP for zone monitoring & management, with row-level control • Fully wireless and self-powered row controllers • Wired and line-powered zone controllers
<p>WARRANTY</p>	<ul style="list-style-type: none"> • 10-year extendable structural warranty, 5-year drive and controls warranty (extendable)