

# HelioTrack 1P



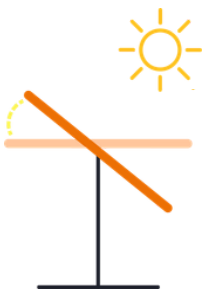
## ABOUT

**HelioTrack 1P horizontal single-axis tracker is engineered for maximum stability and durability.**

Its multi-drive design principle validated by advanced wind tunnel testing, provides a robust, risk-minimized solution for utility-scale & AgriPV applications. The control system provides standard tracking algorithm along with adaptive backtracking for different tracker orientations to optimize the incident sunlight on the PV modules.

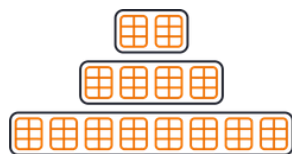
### Tilt Angles

+60° to -60°  
+50° to -50°



### Variable Table Length

18 up to 120  
PV Modules

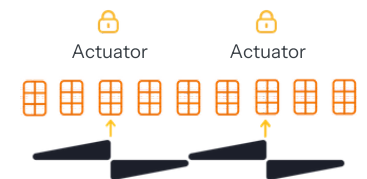


### 0° Stow Position

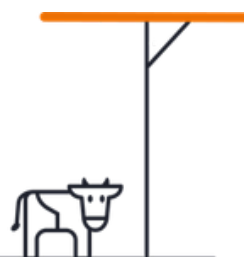
180 km/h



### Torsional Stiffness Distribution



### AgriPV Applications



DESIGN SPECIFICATION	
Tracker type	1P - Horizontal Single Axis Tracker (1P-HSAT)
Drive Strategy	Distributed Multi Drive
Drive Motor (Electric Motor)	24V Geared DC-Motor
Power Input	230V, 50Hz Optional: PV Module/ DC-String
Foundations	C-Pile / Sigma Pile / Ground screw / Concrete
Operating Temperature	-20° to +55°
Tracker-Length	Variable tracker length from 18 up to 120 modules
Operating Angle	Max 60° (configurable)
Module Types	All framed modules
Stow-/ Night Time Position	0° to 5°
Wind-Protection	Up to 60 km/h with tracking. Up to 180 km/h in storm position
Cleaning-Position	45° (configurable)
Ground Slope	North to South up to 10%; East to West up to 20 %
Design-Principles	Eurocode 0 - basics   Eurocode 1 - actions on structure   Eurocode 3 - steel construction EU Machine directive 2006/42/EC
Standard Corrosion Resistance	C3
Standard Materials Specification	Hot-dip galvanized (HDG) Avg. 80µm / Magnelis® ZM310

CONTROL SYSTEM	
Controller Strategy	Independent on Each Tracker
Table Control Unit	Time, GPS, Bi-Directional
Tracking-Algorithm	Astronomical Algorithm (AA)
TCU Communication	Wireless - LoRA Optional - Modbus RS485
Monitoring-System	Web/Cloud Based
Sensoric	1 tilt sensor per Tracker Wind sensor Snow or Flood sensor
Tracking Accuracy	≤ 2°

WARRANTY	
Structure Warranty	10 Years
Electronics & Controller Warranty	5 Years
Drive Part Warranty	15 Years
Corrosion Warranty	20 Years
Spare Supply Guarantee	25 Years



Layout &  
Design



Quick  
Delivery



Easy  
Installation



AC/DC  
Motors



LoRA



Adaptive Sun  
Pos. Algorithm



Technical  
support



Easy  
Maintenance



Extended  
Warranty



> 99%  
Uptime  
Guarantee

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