

GENERAL
FEATURES

Tracker type	Independent-row single-axis 1P tracker
Tracker length	Up to 300m (984ft) length; coherent string conform tables
Array height	Height rotation axis from 1.30m to 3m (4'3" to 9.8")
Foundation	Sigma shaped steel posts, ground screws
Tracking range	±60°
Slope tolerances	36% N-S; 36% E-W without grading
Max. windspeed	Up to 111m/s; 3-s gust at 10m (400km/h; 228mph)
Stow position	5,2° nose down
Ground cover ratio (GCR)	Standard from 25% to 53%
Module attachment	Screw, Lockbolt, Clip or IDT Fastlock
Motor type	DC and AC available
Drive units per MWp	Configurable to less than 7
Solar tracking method	Astronomical algorithm
Grounding system	Self-grounded hardware included
Compatibility	Compatible with XXL modules and robotic cleaning solutions
Control and communication	BUS wired, ZigBee wireless communication available
Extreme Weather Mitigation	Snow, flood, wind and hail
Backtracking	3D adaptive backtracking
Services	Onsite training, commissioning, site support and after sales
Aeroelastic wind tunnel test	Advanced aeroelastic test with CPP Wind Engineering
Certifications	UL 3703 / UL 2703 / IEC 62817
Warranty	Structural components: 15 years Electronical components: 5 years



MAIN CONTACT

info@ideematec.de

GENERAL SUPPORT

support@ideematec.com

NEXT GENERATION SOLAR TRACKERS

HORIZON
L:TEC® 1P



www.ideematec.com

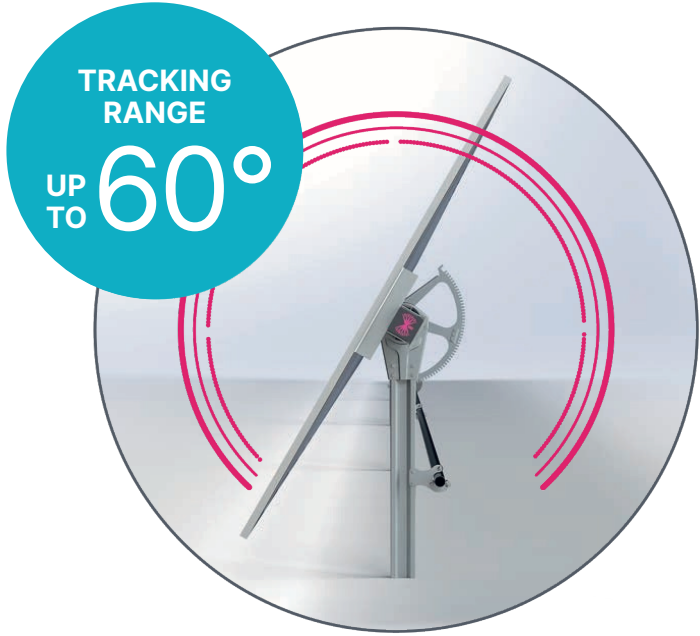


Most advanced one-in-portrait tracker solution



The L:TEC®’s patented decoupled and locking drive technology makes it possible to deploy XXL modules and accommodate longer string lengths without compromising tracker stability. In addition, the low-inclination stow provides optimal module protection, whilst significantly reducing lifetime stress on both the tracker and modules.

OUR STANDARD pre-assembled components save up to 33% of unique parts, simplifying logistics, reducing coordination efforts and minimize the need for specialized tools.
Optimized Installation begins before construction starts



FLAT STOW POSITION 360° WIND PROTECTION

- Unique protection against extreme weather conditions
- Up to 50% less stress with flat stow
- Withstands winds of up to 111m/s 3-s gust
- Higher energy yield during stowing
- Less module stress than other stow strategies

UP TO **260** MODULES PER TRACKER WITH ONE DRIVE UNIT

UP TO 300M TRACKER UNIT

1 String per Table and up to 8 Strings per tracker unit

UP TO 9 M PILE DISTANCE

UP TO **36%** FROM THE PREVIOUS TABLE

CARDAN JOINTS ADAPT TO ANY TERRAIN

- Each table can be installed at an angle of up to 36% from the previous table
- Reduced need for complex grading works

97% REDUCED LOADS ON DRIVE TUBE

BEST LIFETIME VALUE AND OPTIMIZED LCOE

- Highest additional gains
- Optimizes overall yields
- Improves system lifetime
- AC/DC options available

MULTIPLE LOCKING AND DECOUPLED DRIVE TECHNOLOGY

- Our advanced system combines Multi-Locking and decoupled drive technology to eliminate torsional instability and ensure reliable system performance. By redirecting loads directly into the foundations, it reduces stress on the drive and enhances durability.
- This enables IDEEMATEC to deliver the longest and most versatile trackers in the industry.

7 MOTORS & CONTROLLERS PER MW

POWERED BY JUST 1 DRIVE UNIT

- 3 times less drive units than competitors
- Higher availability
- Zero scheduled maintenance costs

ADVANCED TERRAIN ADAPTABILITY

UP TO **8** STRINGS PER TRACKER AND MAXIMUM FLEXIBILITY WITH SHORT TABLES