

IDEEMATEC's Horizon L:TEC® pv tracker: The new benchmark in decoupled solar tracking



IDEEMATEC advances the development of highly engineered – and innovative horizontal trackers. We build on our proven platform of a decoupled drive technology. **With the introduction of the new Horizon L:TEC® tracker, Ideematec is once again pioneering a new era – the permanently locked module wing.** Our urge to expand an ever improving technological edge fuels our motivation to satisfy our customer base and ever more challenging market requests.

Horizon L:TEC® – the latest outstanding development of Ideematec offers unprecedented safety against wind induced instabilities. It builds on our disconnected drive technology through which Ideematec became trendsetter in the market. Its patented locking function transforms the tracking movement into the safe characteristics of a fixed tilt system at each individual tracking position. In established Ideematec fashion this sophisticated invention continues to realize its stow position at a **ZERO-DEGREE-ANGLE.**

In combination, Horizon L:TEC® offers the most protective single axis tracker solution for your module and the entire system integrity itself.

With Horizon L:TEC® IDEEMATEC offers the market's most advanced zero loss bifacial, two-in-portrait tracker solution. Our system provides highest additional gains, optimizes overall yields and improves lifetime cost performance of a solar system.

Beyond such key advantages, the Horizon L:TEC® installation process is easy and time saving. An optimized and reduced part count, the integration of standard components and a simple maintenance schedule complete this market leading innovation.



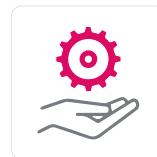
0° stow position



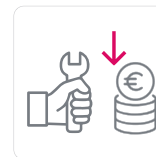
Permanently locked



Higher Yield



Easy installation



30% less parts



ISO 9001 TÜV



UL 3703 - Intertek



Structural review - G. i. B. SPB



Wind engineering - I.f.I.



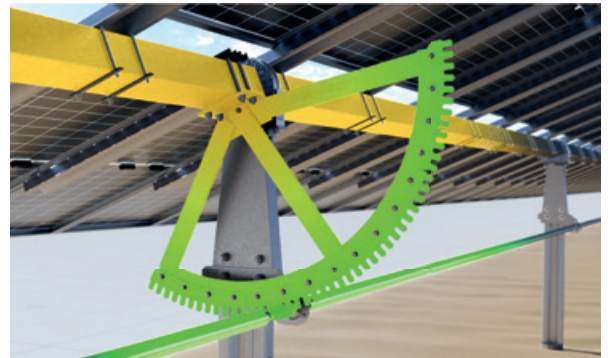
Bankability Report - DNV GL

Fits all conventional & XL modules
with most flexible string configuration



Full back shade free design

- Significant power increase and max. benefits of bifacial pv
- IDEEMATECs 2P tracker can be equipped with all types of bifacial modules
- IDEEMATECs Algorithym Aurora offers the best possible optimized performance for bifacial modules



Permanent Locked Tube Technology

- Excludes torsion
- For highest wind loads and longest design lifetime
- As stable as a fixed tilt system

General mechanical features

Tracking type	Horizontal single axis tracker
Typical tracker size	Up to 190 m - up to 5 m width
Ground cover ratio (GCR)	Configurable: typical 30 - 50%
Array height	Up to 2.5 m
Horizon L:TEC features	Self-locking drive in any angle
Wind protection	Zero degree stow position
Materials	Galvanized steel
Foundation	Sigma foundation
Tracking range	± 60°

Power and control system

Software	Aurora™ by IDEEMATEC
Solar Tracking Method	Astronomical Algorithm I 3D adaptive backtraining
Communication	Full wired redundant data transfer & control flow
Drive type	High accuracy slew gear - disconnected
Motor type	CE 400V 50Hz / UL 480V 60Hz
Operating temperature	-20°C up to +55°C
Warranty	10 Years II Standard

Modules and configuration 2P

Up to 360 modules on 1 tracker

Up to 12 Strings on 1 tracker

Fits all strings length requirements **up to 40 modules per string**

All types of modules are possible to install
72 Cells, 78 Cells and XL modules, bifacial, thin film and First Solar.