

Tracking Systems for Solar Parks

**up to 40%
additional yield**

reliable

maintenance-free

**excellent price-
performance ratio**

high Return On Investment

Solar tracking systems allow increased returns on investment. Thanks to their robust mechanics and their reliable control concepts for installations of all sizes, LORENTZ tracking systems for solar parks guarantee highest energy yields - all around the year.

The statics are certified according to German and European norms.

Characteristics

- based on the tracking system ETATRACK active, successfully operating worldwide since more than 10 years
- premium workmanship, high life expectancy
- maintenance-free
- optimised control concepts for solar parks of different sizes
- economical



Solar park Germany



Solar park in South Korea



Solar park in Portugal

Tracking unit

- single axis, second axis manually adjustable 0-45°
- tracking angle East-West: 90°
- net module surface up to 15 m², up to c. 2.5 kWp
- larger systems with net surfaces up to 22 m² for specific projects; more information on request
- frame: steel, Zn-coated
- module fixation by stainless steel clips

- sensorless control
- for high wind speeds; statics according to German and European standards
- optional: with wind sensor
- low energy consumption c. 1.25 kWh p.a. per unit

Drive

- DC linear drive
- maintenance-free

Foundation

- concrete foundation (c. 3 m³)
- screw foundation
- ram-foundation

Control Concepts

	LCU Master Central Control Unit 10 / 25 / 50			Central Control Unit 2000
size of installation	up to 10 units	up to 25 units	up to 50 units	up to 2000 units
sensorless control	■	■	■	■
low energy consumption	■	■	■	■
energy supply from the grid	■	■	■	■
tested statics for high wind speeds	■	■	■	■
wind sensor (optional)	■	■	■	■
remote maintenance and diagnosis (optional)				■
avoidance of mutual shadowing	■	■	■	■

Spatial Requirements

LORENTZ solar parks are spatial optimised to achieve highest yields on a given space. For smaller distances between the units, mutual shadowing is avoided by optimised tracking movements.

Examples for module surface of 3.4 x 4.8 m² (WxH)::

Location	Latitude	Elevation	Unit spacing N/S	Unit spacing E/W
Germany, South	49 °N	c. 30°	c. 12 m	c. 8 m
Greece Italy, South Spain, South	38 °N	c. 27°	c. 10 m	c. 8 m
South Korea	36 °N	c. 27°	c. 10 m	c. 8 m