

mounting  
systems

sigmatracker



Ground mount





maximum efficiency  
minimum complexity

**sigmatracker**

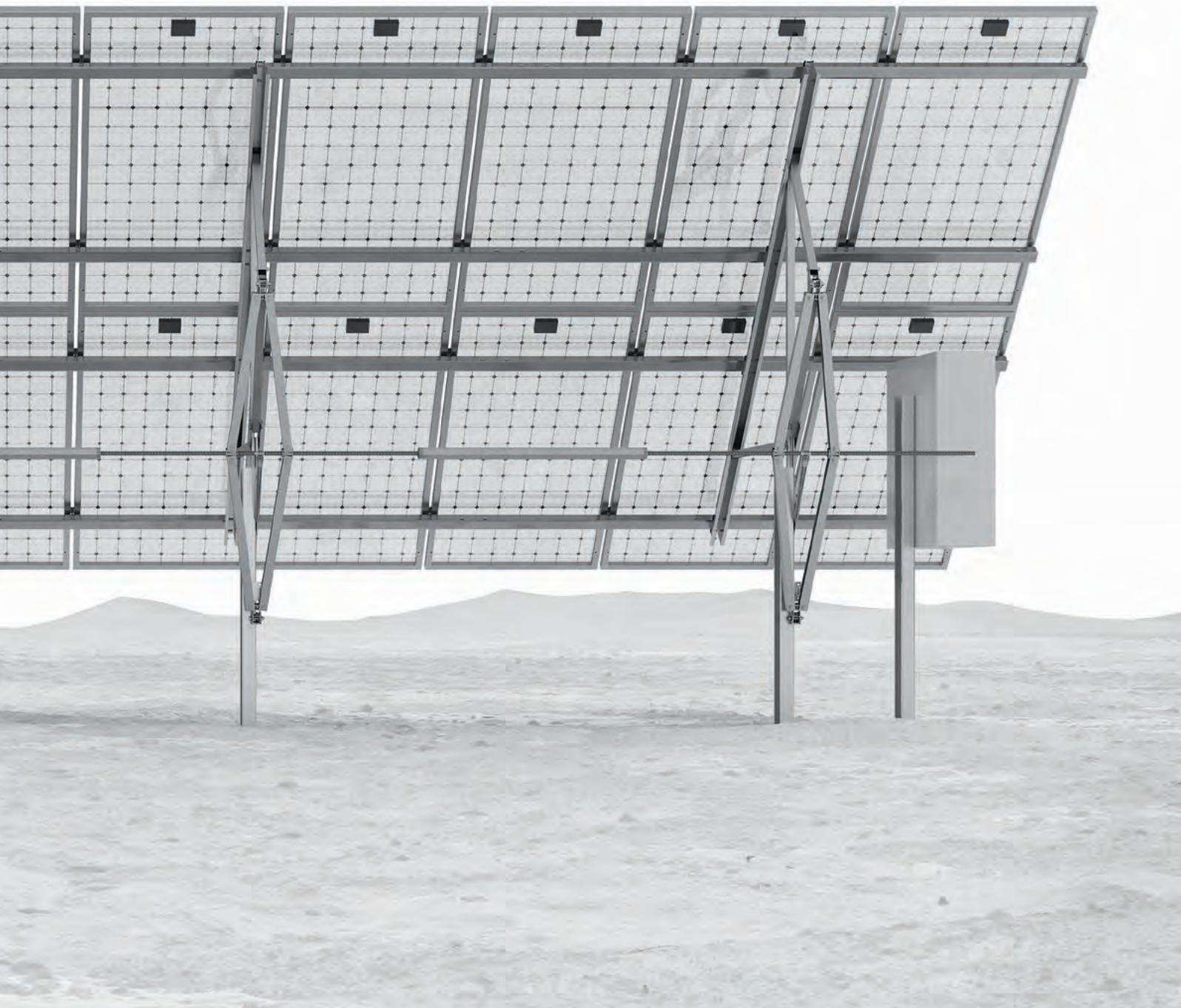


**Chasing the sun, firmly grounded**

**The solution that leaves no doubts: Maximum material efficiency and construction simplicity make the Sigma Tracker a cost-effective solution for any commercial or utility-scale solar installation.**



The Sigma Tracker by Mounting Systems is an advanced single-axis tracker system combining pragmatism with technological foresight. Our radically minimal design cuts down on components, cutting transport costs and reducing maintenance to a footnote. Largely pre-assembled, the Sigma Tracker is quick and easy to install on almost all ground conditions.



**The Sigma Tracker offers instant benefits and long-term security to everyone involved in large-scale PV projects: Developers, investors and everyone responsible for engineering, procurement, and construction.**

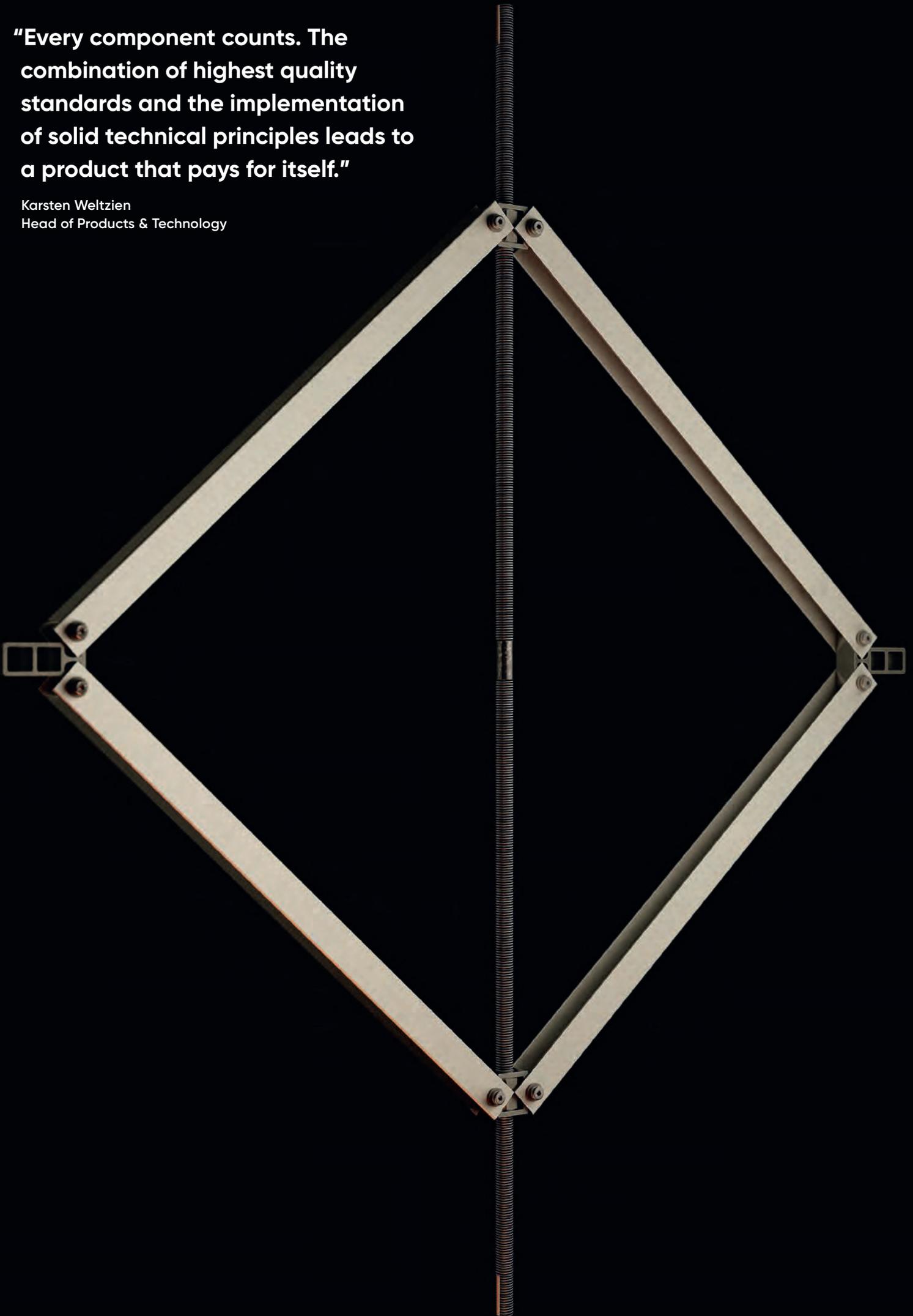
**QR-code based service workflow systems are available for client-tailored O&M procedures and asset management programs.**

**We offer a 10 year warranty for all fixed components and 5 years for moving parts. Standardized industry components ensure that replacement parts are readily available at short notice.**

**Our commitment to continual optimization and our attention to detail adds up to an exceptional product with a design lifetime of 25 years.**

**"Every component counts. The combination of highest quality standards and the implementation of solid technical principles leads to a product that pays for itself."**

Karsten Weltzien  
Head of Products & Technology



### **Reliable technology**

A high-performance asynchronous Siemens motor drives the innovative jack mechanism via a torsion tube, and allows for a range of motion up to  $\pm 45^\circ$ . During the development of the single-post system, we focused on combining high static stability with the lowest possible operational vibration, and a minimum of power consumption.

### **Wired for scale**

Dedicated control units for each tracker bundle DC string combiner functionality with control signals. The decentralized architecture results in high operational flexibility, easy and efficient maintenance with low drop-out, and boundless scalability.

### **Adapts to your needs**

In addition to horizontal module configurations, the Sigma Tracker sets itself apart by allowing up to three modules to be mounted vertically. Project developers can enjoy complete flexibility and optimized project arrangements, plus compliance with the standard warranty conditions of all PV module manufacturers without restrictions on the functionality of their overall system.

### **Ultra-low maintenance**

Some of the system's profiles are manufactured from self-healing steel with a zinc-aluminum-magnesium coating that ensures a long life in highly corrosive conditions like maritime environments. The advantage for the investor: All electrical components and moving parts are designed to withstand extreme weather and environmental conditions, and to reduce maintenance costs to a minimum.

### **Adaptability**

The Sigma Tracker is well qualified for installation in diverse soil types. Driven piles, screw piles and concrete foundations are all possible anchoring solutions for the system. Depending on local conditions and project demands, individual modifications are also possible, making the Sigma Tracker one of the most flexible solutions on the market.

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Refined and pragmatic: The unique jack construction allows for a range of motion up to  $\pm 45^\circ$ . Maintenance-free dry bearings and a self-locking mechanism ensure smooth running for thousands of sunrises and sunsets.



maximum efficiency  
minimum complexity

1



2

4

3



- 1 Self-locking toggle joint
- 2 High-performance asynchronous Siemens motor
- 3 Individually galvanized C-posts
- 4 Preassembled wear-free chain unit
- 5 Robust torsion adapter
- 6 Torsion spindle
- 7 Maintenance-free dry bearings

# Technical Specifications

## Application

Ground-mounted,  
horizontal single-axis

## Foundation

Driven piles, concrete foundation,  
screw piles

## Supporting profiles

Steel profile  
(anti-corrosive coating)

## PV-modules

Framed modules (standard 60 or 72  
cells), frameless and thin-film modules

## Module layout

Up to 3 portrait, 6 landscape  
(standard modules)

## Temperature range

From -25 °C to +60 °C

## Wind resistance

Up to 100 km/h in operation \*  
Up to 260 km/h in stow position \*

\* Standard values. Design solutions  
available for higher wind speeds

## Operation angle

From -45° to +45°

## Drive system

1 Motor per row (max. 125 m)

## Energy consumption per year

58 kWh (EN 62817:2015)

## Power input

400 V / 230 V

## Tracking software

Siemens SIMATIC,  
including backtracking  
customized software layout

## Guarantee

Fixed components: 10 Years  
Moving parts: 5 Years

## Protection class

IP65

## Certification

CE, desert suitability



Our range of services covers all areas of planning, construction, logistics and installation, as well as all areas of operation and maintenance.



**Ground  
mount**



**Orientation  
portrait**



**Orientation  
landscape**



**Framed  
module**



**Unframed  
module**

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