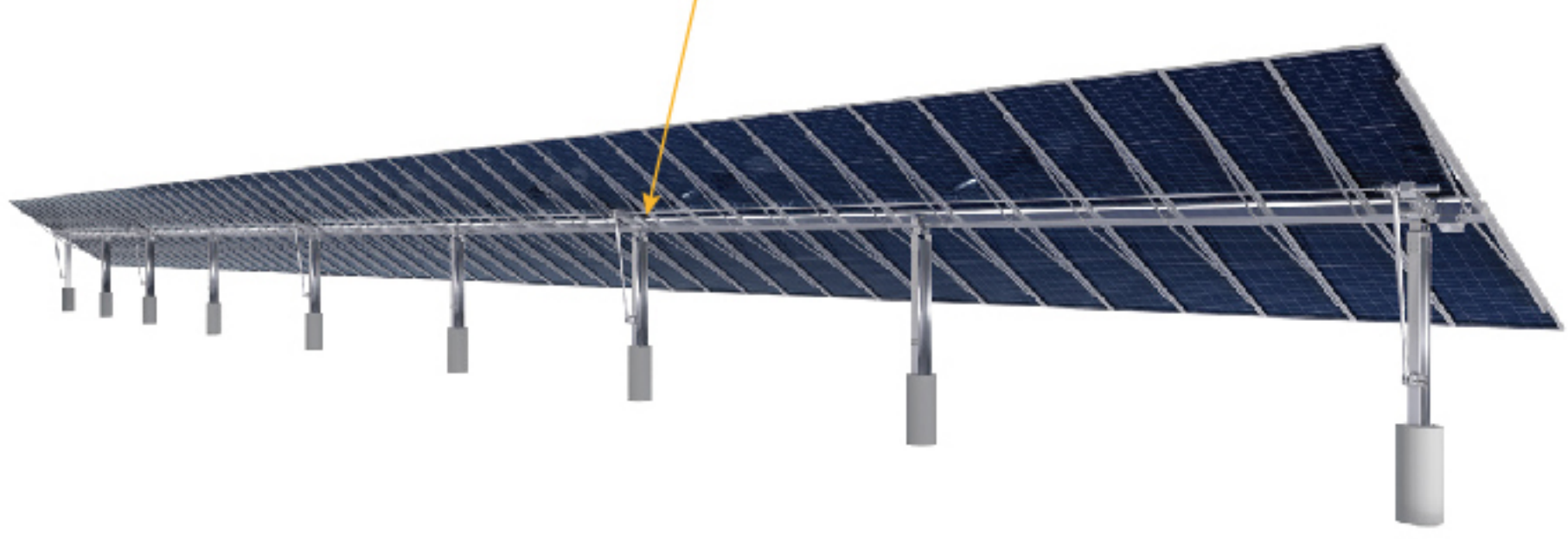
Cosin Solar PT Tracking System
Single Row / Linear Actuator Multi-Point Drive

The multi-point parallel drive design has more drive pylons, and the stress distribution of the frame is more uniform, suitable for harsh environmental conditions such as strong winds.

With a hard limit mechanism inside the linear actuator, the overall hard limit and overload protection function is more reliable.

Support mechanical or electrical synchronization hence a more uniform driving torque.

Unique sealing design is applied on linear actuator. Grease lubrication is used hence no oil pollution and no risk of oil leakage.



Technical Parameters

Basic Parameters	
System Type	Single row horizontal single-axis
Component Type	Compatible with all monofacial and bifacial PV modules
Tracking Angle Range	±45° (±60° optional)
Drive Technology	Linear actuator multi-point parallel drive, 24V DC brush/brushless motor
Pile Foundation	Hammered piles/cast-in-place piles/cement foundation
Structural Materials	Zinc-Aluminum-Magnesium coated steel/hot-dip galvanized steel/pre-galvanized steel
Power Supply	Transformer power supply/from PV string (with battery)
Electric Control Parameters	
Control System	MPU controller
Control Software	Centralized control software/open communication interface
Control Algorithm	Astronomical algorithm + position sensor closed-loop control + intelligent tracking algorithm*
Tracking Accuracy	⩽1°
Communication Method	Wired mode RS485/wireless mode Zigbee
Environmental Adaptability	
Wind Resistance Design	According to specific requirements
Slope Range	North-south slope⩽15%*
Protection Level	IP66
Working Temperature	– 40℃ to 70℃
Safety Protection	
Strong Wind and Snow Protection	Available
Night Mode	Available
Motor Overload Protection	Available

*Backtracking algorithm with terrain adaptation + radiation optimization tracking strategy.
*Can be adjusted according to the terrain of the project without the east-west direction restraint.