TRICKING SYSTEM SOLUTION

AKCOME TRACKING
MOUNTING SYSTEM SOLUTION

PV MOUNTING SYSTEM
Smart System · New Value





AKCOME SMART TRACKING SYSTEM

Born To Sun, Stand Against Light

Part 01
Product
Parameter

Part 02

Product Advantages Part 03

Product Displays



Part 01 SMART TRACKING SYSTEM Product Parameter

1P

Single-row Independent Tracking System 2P

Independent Single-Row Multipoint Tracking System



SMART-R 1P Single-row Independent Tracking System

CHARACTERISTICS



Large Angle Protection High Stability



N-S 20% Slope Adaptability



Single Point Drive Lower Installation Cost



Dual-Faced Module

Al Intelligence





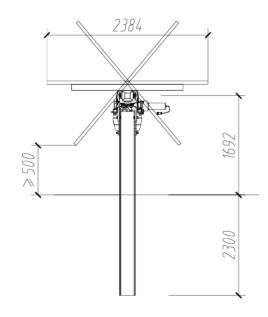
SMART-R 1P Single-row Independent Tracker



PARAMETERS	
Туре	1P-Single-row Independent Tracker
Tracking Range	±45°/±60°
Drive system	Driven by rotary reducer; DC24V DC motor
Tracker Capacity	48.6KW (540wp) (1X90)
System voltage	1000/1500V
GCR	≥25%
Material	HDG Steel/Magnasium
Power supply	Self-powered high voltage series (Lithium battery reserve)
Foundation type	Punching Pile/Filling Pile/PHC
Slope adaptation	N-S 20%; E-W unlimited
Working wind speed	65Km/h (18m/s) (3S-gust)
Max wind resistance	170Km/h (47m/s) (3S-gust)
Module Type	Compatible to all kinds module
Operation temperature	-30°C~60°C

CONTROL SYSTEM PARAMETERS	
Control mode	AI algorithm+ Real-time Big data closed-loop contro
Accuracy	≤±2°
Inverse Tracking	Possess
Communication Mode	RS485,LORA and Zigbee
System Function	Night return mode/Rain Washing/Snow removal

Dimensional Diagram





SMART-R 2P Independent Single-Row Multipoint Tracking System

CHARACTERISTICS



Multipoint Parallel
Drive Higher Critical
Wind Speed



Perfect Matching 182/210 Module

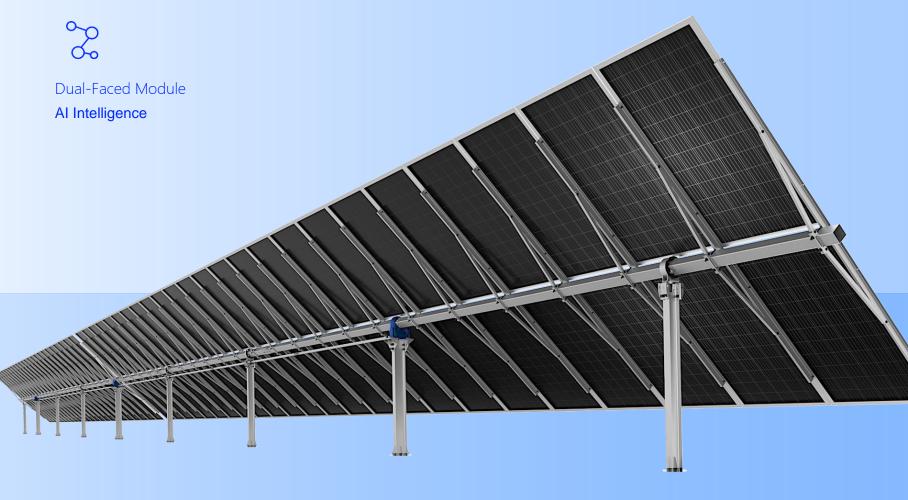


N-S 20% Slope Adaptability



The Maximum

Arrangement is 68m



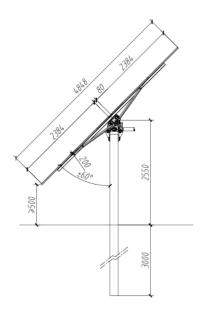


SMART-R 2P Single-row Independent Multipoint Tracker

PARAMETERS	
Type	2P-Single-row Independent Multipoint Tracker
Tracking Range	±45°/±60°
Drive system	Driven by rotary reducer and multipoint Parallel; DC24V DC mot
Tracker Capacity	64.8KW (540wp) (2X60)
System voltage	1000/1500V
GCR	≥25%
Material	HDG Steel/Magnasium
Power supply	Self-powered high voltage series
Foundation type	Punching Pile/Filling Pile/PHC
Slope adaptation	N-S 20%; E-W unlimited
Working wind speed	65Km/h (18m/s) (3S-gust)
Max wind resistance	170Km/h (47m/s) (3S-gust)
Module Type	Compatible to all kinds module
Operation temperature	-30°C~60°C

CONTROL SYSTEM PARAMETERS		
Control mode	AI algorithm + Inclination sensor closed-loop control	
Accuracy	≤±2°	
Inverse Tracking	Possess	
Communication Mode	RS485, LORA and Zigbee	
System Function	Night return mode/Rain Washing/Snow removal	

Dimensional Diagram





Part 02 SMART TRACKING SYSTEM

Product Advantages

High Power Generation Gain



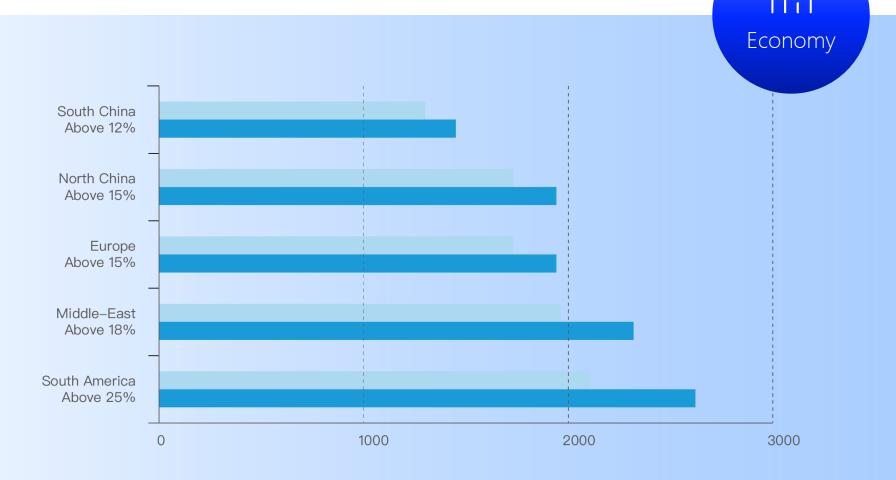


Flat Single-post
Tracking System VS
Fixed Mounting
System

Power Generation (MWh/MWp)

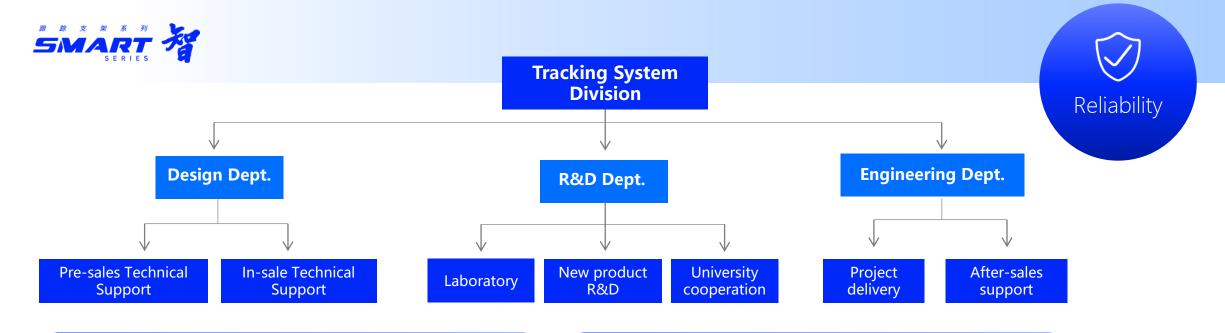
Fixed

Tracker





Independent Research and Development Team



With the technical team of new product research and development, pre-sale technical support to late on-site project delivery and after-sales technical support, from front to back seamless

One-Stop Service.

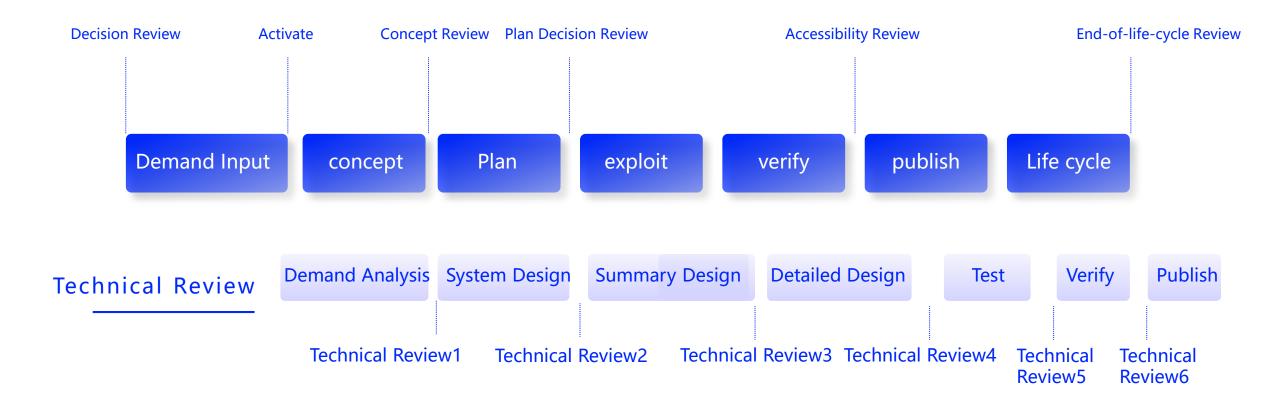
The professional background of the technical team covers structural, mechanical, electrical, software engineering, wind engineering and other related professional to provide the most comprehensive and

Professional Technical Services.



Rigorous Process of Research and Development







Comprehensive And Authoritative Test And Certification

Comprehensive And Authoritative Test And Certification

- ·CPP Wind Tunnel Test
- ·CFD Mock Test
- ·Key Node Of Overload Test
- ·Full Life Cycle Accelerated Push-pull Cycle Test
- ·A variety of static load, dynamic load, salt spray, high and low temperature, UV resistance and other technical tests





Comprehensive And Authoritative Test And Certification

CPP Wind Tunnel Test

A comprehensive and complete wind tunnel test can provide researchers with a large amount of experimental data and form important basic parameters for wind resistance design of photovoltaic bracket structures.

Akcome Metals, together with CPP, an international authoritative wind engineering laboratory carried out comprehensive wind tunnel tests on the SMART series tracking system, which fully verified the high reliability and stability of the series tracking system under various extreme wind conditions







CPP Wind Tunnel Test



Comprehensive And Authoritative Test And Certification

Key Node Of Overload Test

In order to ensure the high reliability and stability of products in application scenarios, we make overload test for all the key nodes of tracking system, and do life test for polymer bearing and rotary support.

















Comprehensive And Authoritative Test And Certification

CFD Mock Test 1.55e+82 6.95e+01 1.29=+02 5.38e+01 7.11e+01 4.25e+01 1.04e+02 1.95e+01 1.68e+01 7.79e+01 -1.48m+01 -9.33e+00 -1.18e+0 491e+01 5.220+01 -5:33e+0 -3.53e+01 -6.12e+01 -1.18e+02 6.756-01 -8.71e+01 -1.52e+02 -2.51e+01 -1.13e+02 -1.78e+0. 1 88m+02 -5.09e+01 -1.39e+02 -2.19e+0 -2.21e+02 -1.65e+02 -2.6:1e+62 -255e+02 -1.91e+02 -1.02e+02 3 02e+0 -289e+02 -2.17e+02 -1.28e+02 -3.43e+0 -3.23e+02 -2-43e+02 -1.54e+02 -3.85e+02 -3.58e+02 -1.80e+02 -4.28e+03 -2.89e+02 -3.92e+02 -2.95e+02 -4.68e+02 -4.26e+02 -3.20e+02 -5.09e+02 -4.61e+02 -3.46e+02 -2.57e+02 -4.95e+02 -3.72e+02 -2 R3e+R2 (a) 0° Wind Angle (b) 30° Wind Angle (d) 60° Wind Angle (c) 45° Wind Angle 1.20e+02 1.09e+02 9.91e+01 1.39e+02 7.85e+01 7.75e+01 1.76e+02 4.58e+01 5.78e+01 1.48e+81 3.71e+01 1.24e+02 1.64e+01 -1.77e+01 9.80e+01 -1 20++01 -4 27e+00 -4.95e+01 7:20e+01 -4.98e+01 -8.13e+01 -2 50e+01 4.61e+01 -8.73±+01 -1.13e+02 -4.56e+01 -1.25e+02 2.01e+01 -1.45e+02 -0.63e+01 -K RRe+BD -1.63e+02 -1 77e+02 -8.70e+01 -3.18e+01 -2.00e+02 -1.08e+02 -2.08e+02 -5.78e+91 -2.38e+02 1 28e+02 -2.40e+02 -2.76e+02 -8.38e+31 -2.72e+02 -1.49e+02 -1.10e+02 -1.70e+02 -3 fi4e+fi2 -1.36e+02 -3.51e+02 1.90e+02 -3.35e+02 1.62e+32 -3.89e+02 -3 £7e+02 -2.11e+02 -1.88e+02 -4.26e+02 2.32e+02 3.19e+02 -7 14e+32 -4.64±+02 -4.31e+02 -2.40e+02 -5.02e+02 (f) 135° Wind Angle (h) 180° Wind Angle (e) 120° Wind Angle (a) 150° Wind Angle



SMART Tracking System Series



Comprehensive And Authoritative Test And Certification



SMART Tracking System Series

Intelligent Q&M





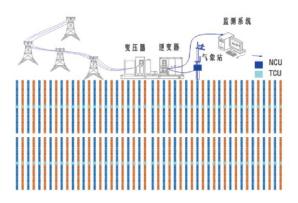
The intelligent working mode is hierarchical and visual, the string-level monitoring is directly linked to each TCU machine motor.



Through the intelligent online monitoring and operation and maintenance platform, it helps customers achieve 24-hour remote real-time monitoring, thus realizing intelligent operation and maintenance of the power generation terminal, and reducing operation and maintenance costs. It can also carry out preventive alarm and remote control of an operational tracking system, so as to increase efficiency in the operation and output of the power station.



It can monitor the working status of the mounting system in real time and quickly identify malfunction; Real-time visual monitoring based on system parameters such as physical location, logic topology, current and voltage of the device; It uses tabular curve charts and histograms to display the working status and analyzes meteorological information; The status parameters of individual device can be precisely monitored down to the minimum.



AKCOME METALS "ONE FOR ONE" Project Service System





Local Service

·More than 80 Countries and Areas Local Service Covered ·1 hour Reaction, Fastest 1 day Arrival



Customized Service

·Customized Product for Project Site and Customer Requirement



Full Cycle Service

- ·System Design
- ·Structural Optimization
- ·Professional Installation
- ·25 Years Life Service
- ·Full Cycle Service



Part 03 SMART TRACKING SYSTEM

Product Displays

AKCOME Tracking SystemProject Cases





AKCOME Tracking System Project Cases











THANKS!



AKCOME METALS TECHNOLOGY (SUZHOU) CO., LTD.

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www.akcomemetals.com

PV MOUNTING SYSTEM Smart System New Value

