

FLEXIBLE MOUNTING SYSTEM SOLUTION

AKCOME FLEXIBLE MOUNTING SYSTEM SOLUTION

PV MOUNTING SYSTEM

Smart Mounting System · Photovoltaic New Value



AKCOME ICROSS

FLEXIBLE MOUNTING SYSTEM

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iCross
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Part 02

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iCross Series
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iCross
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Part 01

AKCOME iCross Flexible Mounting System

Technical Development

AKCOME iCross Flexible Mounting System Series

Technical Development



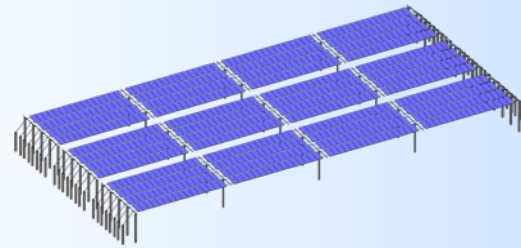
Single-layer Prestressed Cable Structure
Steel Wire Rope

Single-layer Prestressed Cable Structure
Steel Strand

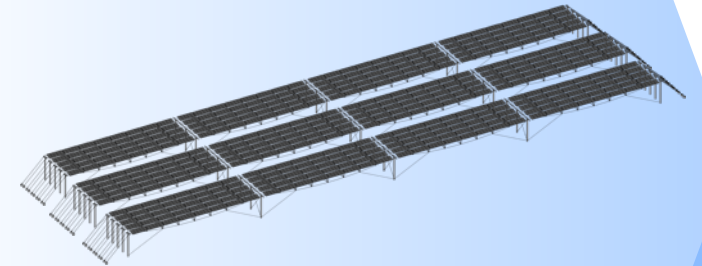
Double Prestressed Cable Truss Structure
Steel Strand



1ST Stage



2nd Stage



At Present

Part 02

AKCOME iCross FLEXIBLE MOUNTING SYSTEM

Product Details

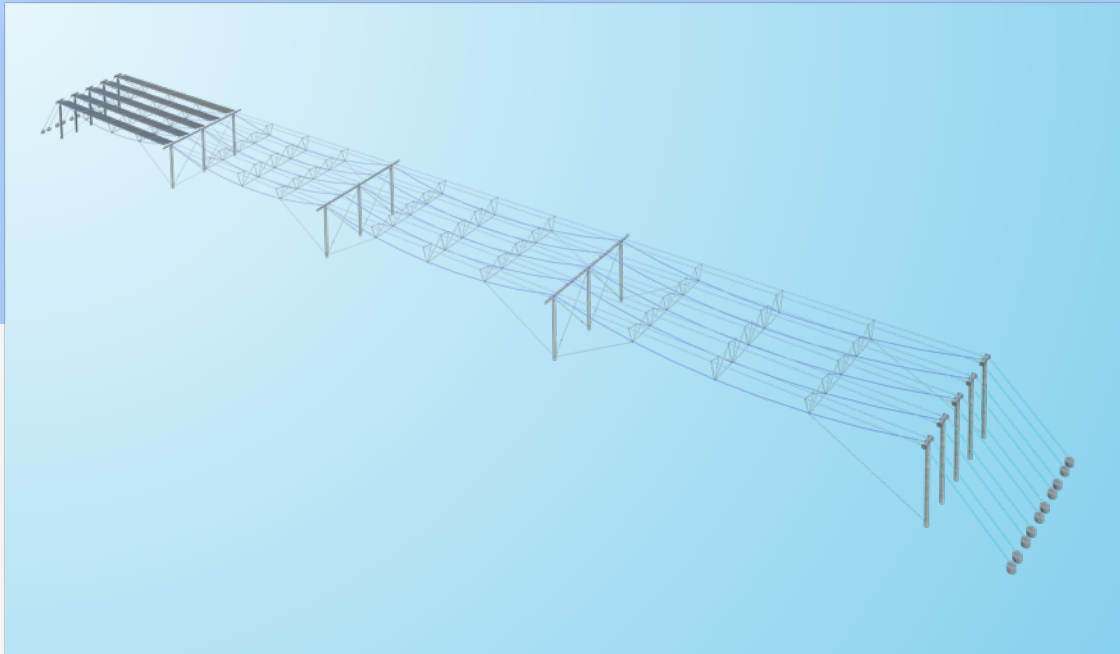
AKCOME iCross FLEXIBLE MOUNTING SYSTEM

Utmost Tenderness Utmost Adamancy



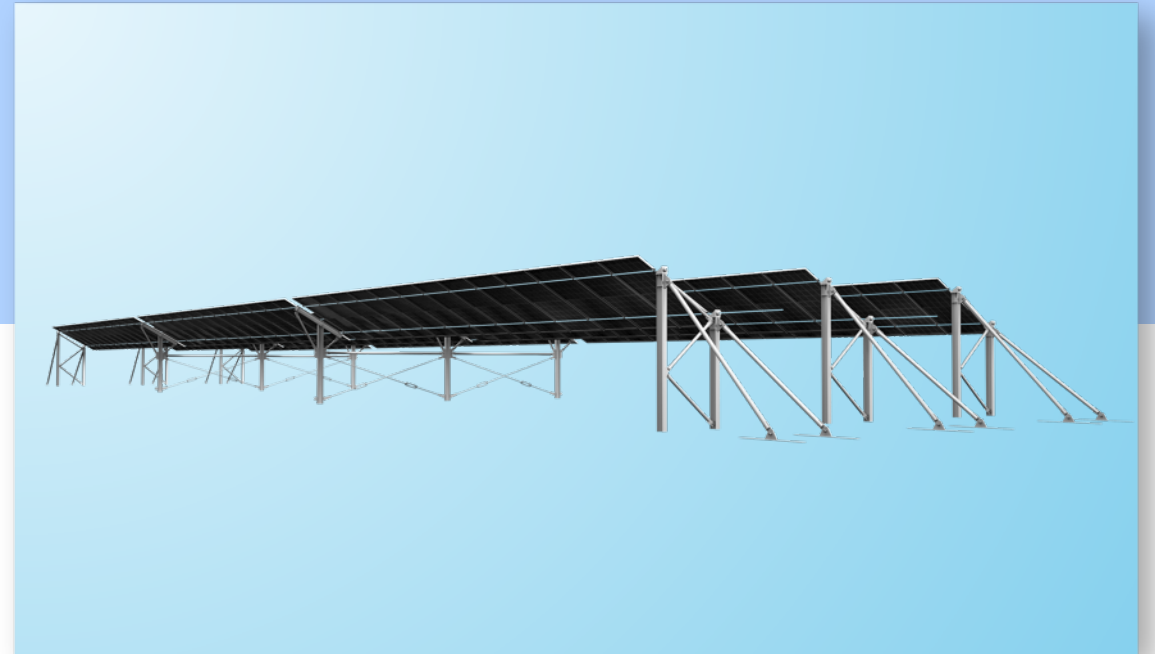
Flat Ground Flexible Mounting System

iCross-F



Mountain Land Flexible Mounting System

iCross-M

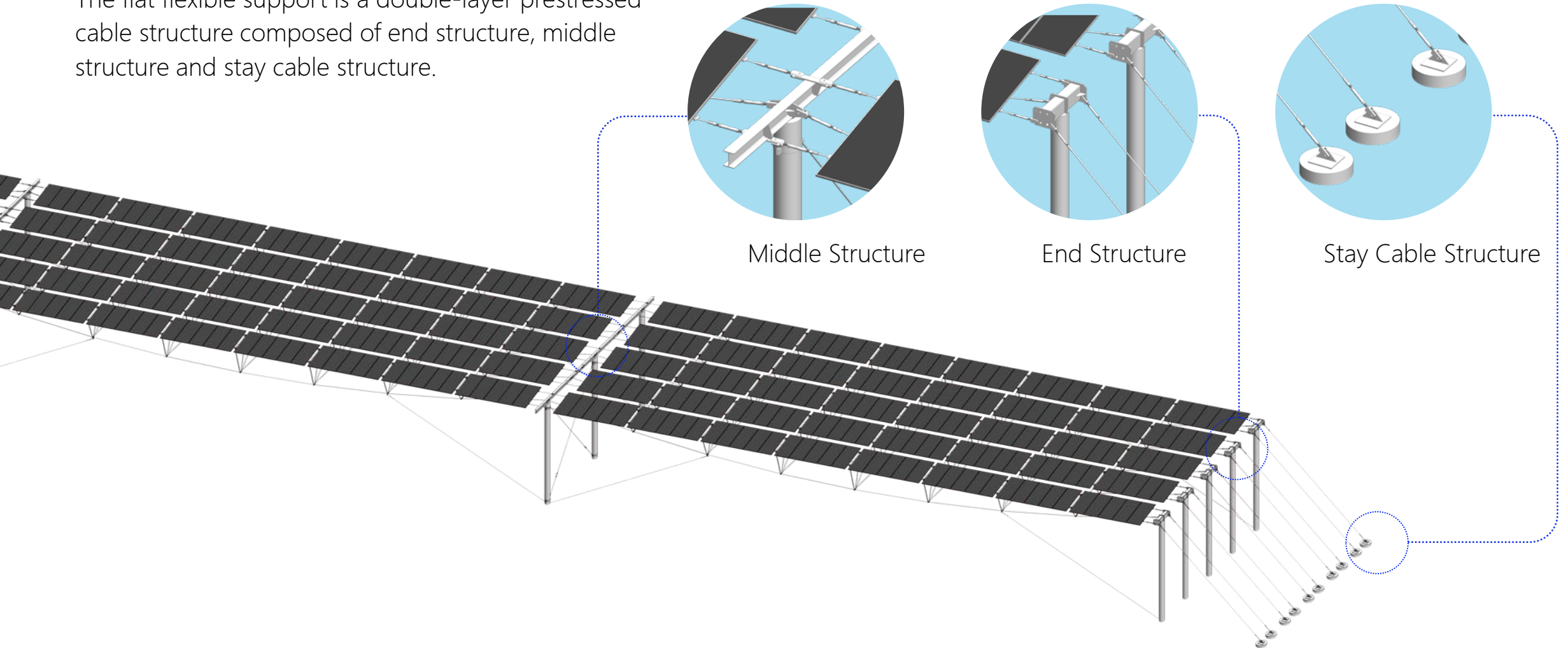


AKCOME iCross Flexible Mounting System

iCross-F Flat Ground Flexible Mounting System



The flat flexible support is a double-layer prestressed cable structure composed of end structure, middle structure and stay cable structure.

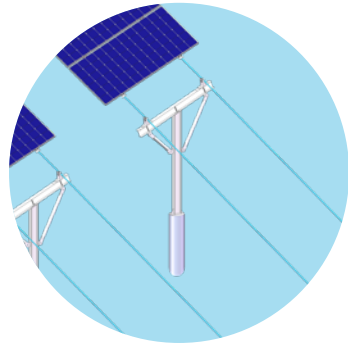


AKCOME iCross FLEXIBLE MOUNTING SYSTEM

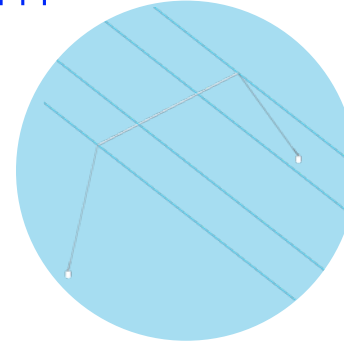
iCross-M Mountains Flexible Mounting System



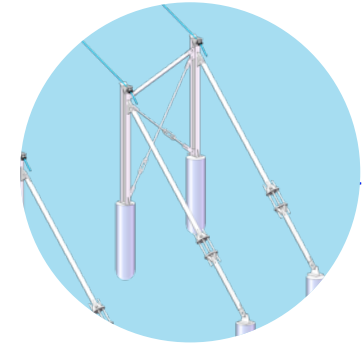
Mountain flexible mounting system consists of end structure, middle structure, ground anchor system and prestressed steel strand.



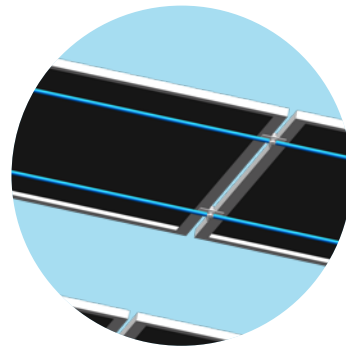
Middle Structure



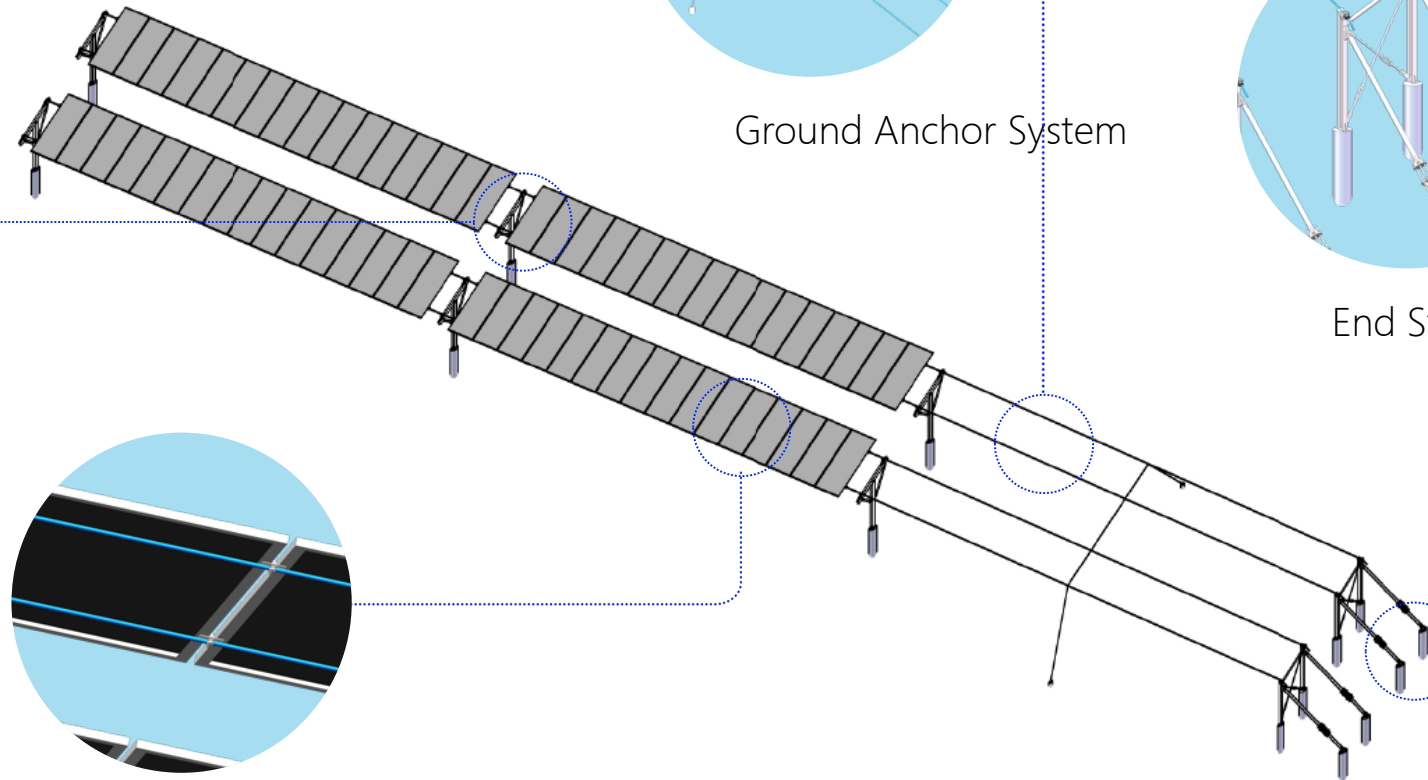
Ground Anchor System



End Structure



Component Installation



AKCOME iCross FLEXIBLE MOUNTING SYSTEM

All Application Scenarios Are Covered



Mountainous Complex Terrain

- Save Land Resources (More Than 30%)
- High Terrain Adaptability (Rock, Soil Layer)
- Protect Woodland Landform



Agriculture-Complementary Solar Power Station

- High Headroom
- Protection of Original Landforms



Aquaculture-Complementary Solar Power Station

- Less Amount of Pile Foundation



Other Application Scenarios

- Sewage Treatment Plant
- Span Building Structure



Part 03

AKCOME iCross FLEXIBLE MOUNTING SYSTEM

Product Advantages

AKCOME iCross FLEXIBLE MOUNTING SYSTEM

Product Features



AKCOME mountain flexible mounting adhere to the span of less than 20m as a standard span design unit, which confluence economic and convenient of construction and installation.

Land Use Rate
Increased By

30%
↑

The Maximum
Saving of Basic
Quantity Is

60%
↓

Mountain (Scenarios with Base Diameter Less Than 200)

Mounting Form	Mountain Flexible (Single Layer Cable)	Fixed Mounting (Double Column)
Module	540Wp	540Wp
Configuration	1x14x2	2x14
Span(m)	17	3.7
Terrain Clearance(m)	2	2
Angle	24	24
Total Length(m)	274.18	16.34
Base Form	Microporous perfusion pile	Microporous perfusion pile
Base quantity	223	661
The amount of steel used for mounting(t/MW)	27	30

Mountain (Scenarios with Base Diameter Less Than 400))

Mounting Form	Mountain Flexible (Single Layer Cable)	Fixed Mounting (Single Column)
Module	540Wp	540Wp
Configuration	1x14x3	2x14
Span(m)	17	4.5
Terrain Clearance(m)	2	2
Angle	24	24
Total Length(m)	274.18	16.34
Base Form	Microporous perfusion pile	Microporous perfusion pile
Base quantity	182	265
The amount of steel used for mounting(t/MW)	30	35

AKCOME iCross FLEXIBLE MOUNTING SYSTEM

Product Features



AKCOME flat flexible mounting includes two standard products with Span 20m and 35m, which can be applied to the scene with special requirements for span and clear height, such as fishing light, agricultural light, sewage ponds and aquaculture farms.

The Maximum
Saving of Basic
Quantity Is

70%

Agriculture/Aquaculture-Complementary Solar Power

Mounting Form	Flat Flexible (Single Cable)	Flat Flexible (Double Cable)	Fixed Mounting (Single Column)
Module	540	540	540
Configuration	1x14x4	1X28	2X28
Angle	15	15	15
Span(m)	17	35	4.5
Total Length(m)	274.18	274.34	16.34
Base Form	PHC	PHC	PHC
Base Quantity	145	76	265
The Amount of Steel Used for Mounting (t/MW)	30	35	30

AKCOME iCross FLEXIBLE MOUNTING SYSTEM

Product Advantages



Optional Anticorrosion Schemes
Longer Service Life

✓ High And Low Matching Scheme Is Optional :

C3 And Below Environments

Hot-dip galvanized steel strand

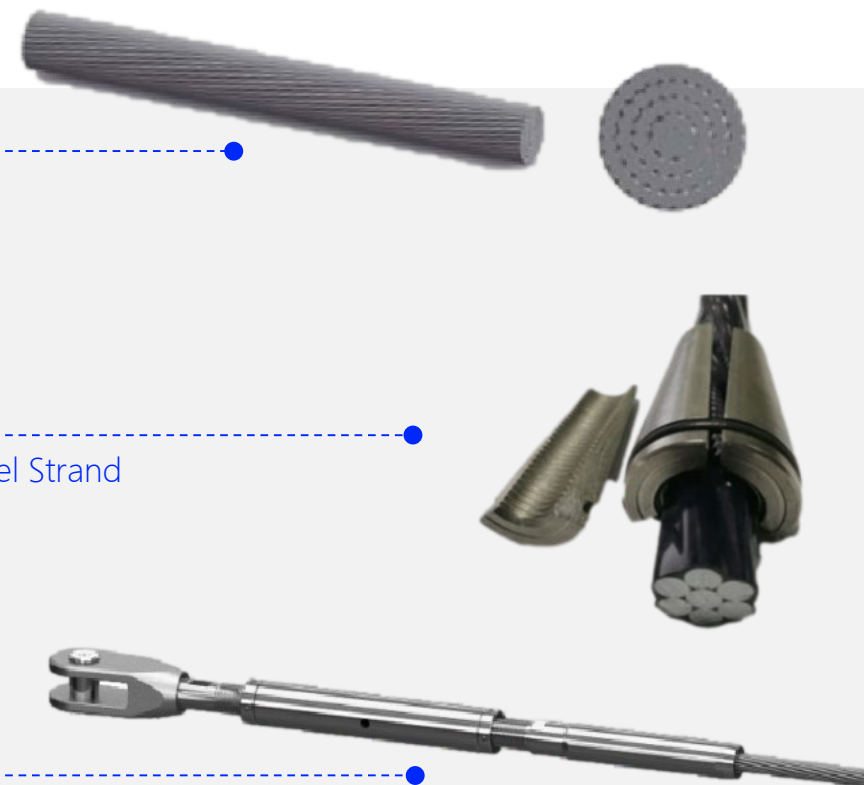
Above C4 Environments

Filled epoxy coating +PE jacket/ GALFAN

GALFAN

Clip Rigging And Epoxy Steel Strand

Lug Rigging And Galvanized Steel Strand

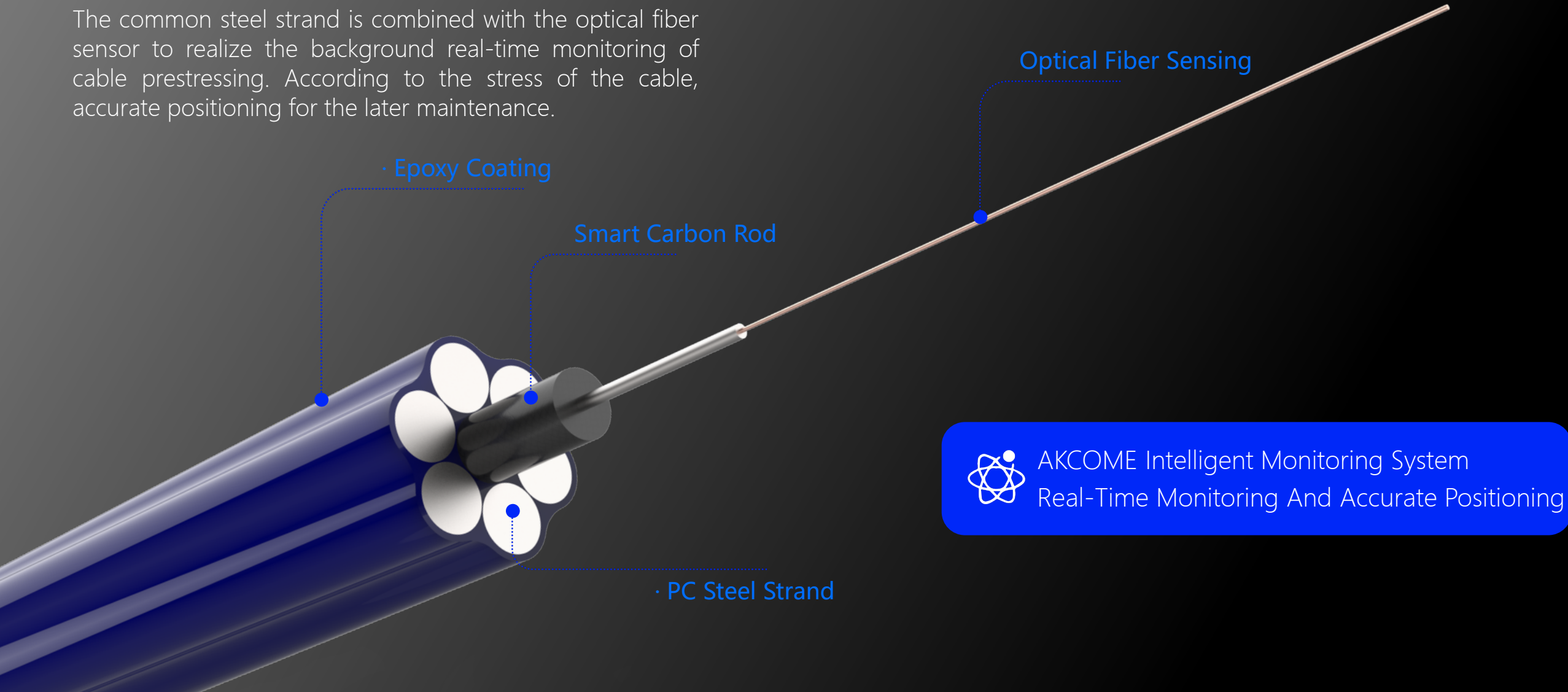


AKCOME iCross FLEXIBLE MOUNTING SYSTEM

Product Advantages



The common steel strand is combined with the optical fiber sensor to realize the background real-time monitoring of cable prestressing. According to the stress of the cable, accurate positioning for the later maintenance.



AKCOME Intelligent Monitoring System
Real-Time Monitoring And Accurate Positioning

AKCOME iCross FLEXIBLE MOUNTING SYSTEM

Product Advantages



Multidimensional Product Testing And Analysis
Effectively Solve the Problems of Wind Vibration And Hidden Cracks



AKCOME iCross FLEXIBLE MOUNTING
**Wind Tunnel Test, Finite Element
Simulation Analysis**



Single-layer Cable Structure,
Double-layer Cable Structure
**Modal Analysis, Wind Vibration
Coefficient Analysis, Aerodynamic
Instability Analysis**





Localization

- More Than 80 Countries And Regions Around The World
- Localized Service Network Coverage
- 1 Hour Response, The Fastest Arrival Within 1 Day



Customization

- According To The Project Scene
- Customized Products According To Customer Needs



Full Cycle

- System Design
- Structure Optimization
- Professional Installation
- More Than 25 Years Of Service Life Guarantee
- Full Cycle Service

Part 04

AKCOME iCross FLEXIBLE MOUNTING SYSTEM

Product Displays

Flexible Mounting System Project Cases



Yellow River Hydropower Hainan Zhou Project



Gui Zhou-Qian Xi

THANKS!



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