Haitai Solar

MOUNTING SYSTEM

Tangshan Haitai Intelligent Equipment Co., Ltd

www.haitai-solar.com

catalogue

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Company Profile

· Group Profile · Development History · Business Segments
· cooperative partner · Introduction to PV Mounting
· production process · Company advantages
· Quality assurance · On site proces

01

Company profile

About Haitai

Haitai Solar was founded in 2006 and operates in nine major business sectors: photovoltaic modules, photovoltaic power plants, photovoltaic mounting systems, energy storage systems, hydrogen energy, graphite electrodes/carbon electrode, battery swapping, wind energy and solar cells. It began with the manufacturing of PV modules and achieved significant development by successfully listing on the Beijing Stock Exchange (Northbound Trading) on August 8, 2022. The company has grown in other sectors of the new energy industry, such as photovoltaic power plants, photovoltaic mounting systems, and energy storage systems. Both the photovoltaic mounting systems and energy storage have achieved integration of R&D, production, and sales.

Vision

Become the most valuable intelligent producer of green energy

Mission

Be committed to offering high-quality products and services to maximize the benefits of solar energy

Core Values

Serving Customers：

Customer Success is Self Achievement

Full Commitment:

Dedicated to creating value for customers and contributing to the company's sustainable growth.

Striving for Excellence：

Pursuing higher goals guided by mission and vision

Be open-minded:

Embracing openness and cooperation for mutual benefit

01

Company Profile

Development Process

2006

Haitai solar was established.

2008

Mature R&D and technological capabilities

Full entry into the photovoltaic industry

2011

Officially Launched 600MW Solar Module Production Line

Co-established the "Haitai Solar Cell R&D Center" with the Institute of Electrical Engineering, Chinese Academy of Sciences.

2013

Pass acceptance tests of Hebei Province Engineering Laboratory.

Established partnerships with Sharp and BYD, fully expanding into the Japanese market.

2016

Obtained the "Pioneer" power degradation certification in the first year.

2017

Entered into the photovoltaic power plant sector.

2020

Tier 1 module manufacturer.

2021

Entered into the fields of photovoltaic mounting systems, energy storage, and hydrogen energy.

2022

Listed on the Beijing Stock Exchange.

Entered into the wind energy sector.

2023

· Establishment of a third-party verified base.
· Entered the Photovoltaic Cell, Battery Swapping, and Graphite Electrodes/Carbon Electrode Sectors.

2024

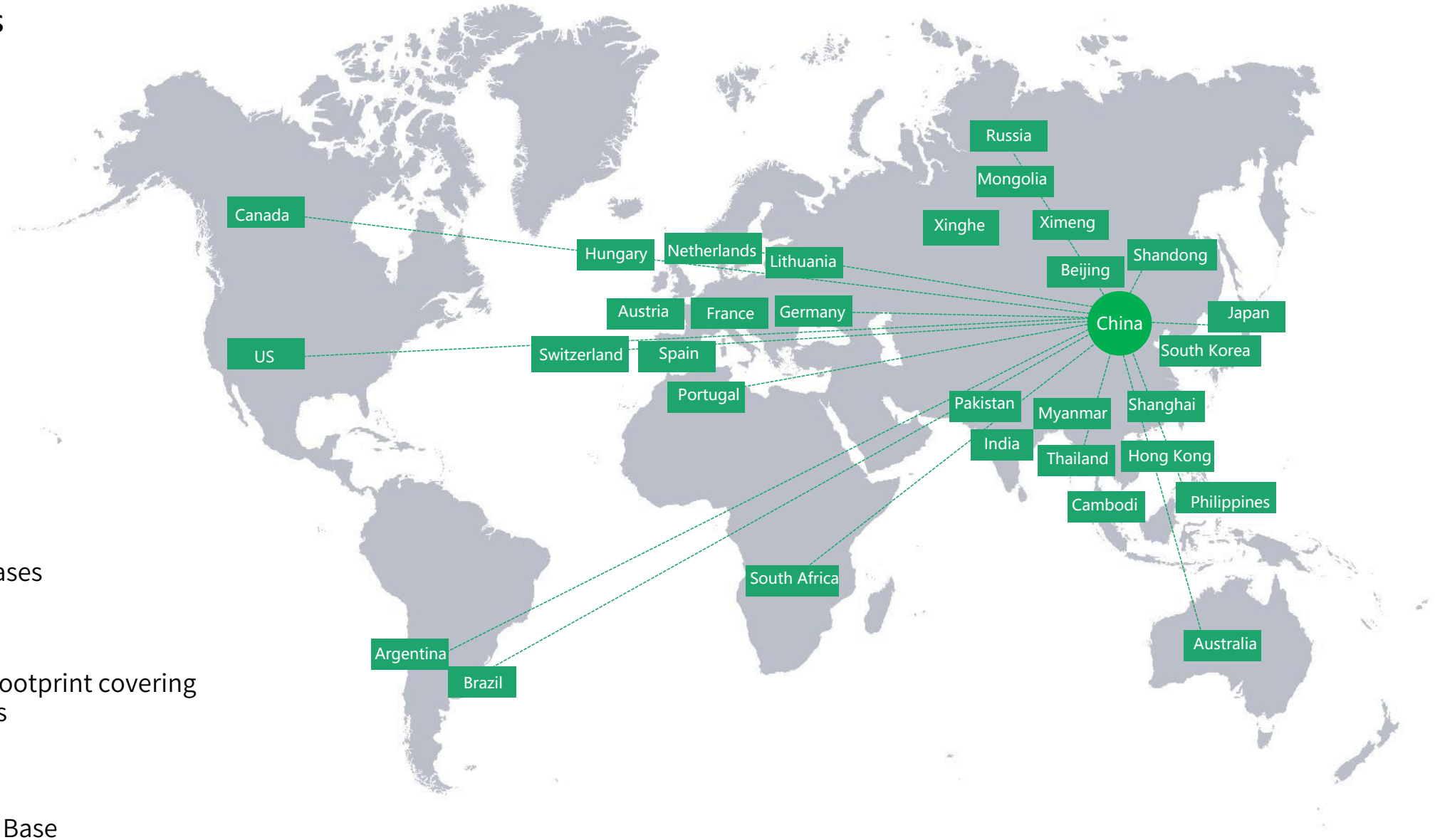
Provincial-level reliability laboratory put into operation.

Establishment of a third-party verified base.

01

Company Profile

Business Sectors



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Manufacturing bases

100+

Global business footprint covering countries/regions

7000+

Global Customer Base

01

Company Profile

Business Partner

Haitai Solar

Sincere cooperation for creating brilliance.

CGGC 中国葛洲坝集团 | THRIFT ENERGY GROUP | HUAWEI | 中国长江三峡集团公司

WAKO GROUP Workout Advance Keep Obtain | COLIBRI CAPITAL | 住友电工 SUMITOMO ELECTRIC | SHARP

ICHIGO Ichigo | +SOLAR The Next Energy Revolution | TBEA 特变电工 | Marubeni 丸紅株式会社

YUASA | METALEX SUMISHO METALEX CORPORATION | RAYSTECH Your Trusted Solar Partner | WEST GROUP

PANDA | ACME | audax renovables | WEGA ENERGY

Introduction to Photovoltaic mounting

Haitai solar Photovoltaic Mounting Business Unit was established in 2021, specializes in the research, design, manufacturing, and sales of photovoltaic mounting systems. With an annual production capacity of 100,000 tons and the capability to install 4GW of components, the company provides the most professional solutions to its customers, leveraging its diversified industrial base.

Support various types of support products for ground power stations

Support various types of mounting products for industry and commerce

Support various types of support products for residential roofs

Support various types of support products for residential roofs

Production process

1、Advantages of the industrial chain - carbon steel mounting

Roof mounting system, galvanized aluminum magnesium ground mounting system, carport mounting system, clothing shed mounting system, fishery-PV complementary mounting system

Steel processing——Cold rolling——Punching——Galvanizing——Processing——Packing——Transportation

2、Advantages of the industrial chain - aluminum alloy mounting

Carport shed mounting system, clothing shed mounting system, roof mounting system, aluminum alloy ground mounting system

Casting——Mold——Extrusion——Timeliness——Oxidation——Finishing——Packing——Transportation




Company advantages

Strict quality control

Introduce advanced quality management methods and tools, conduct regular quality training, make timely corrections, and establish a preventive mindset.

Material advantages

Our production base is located in Hebei Province, at the source of the steel supply chain. Through economies of scale and supply chain management, we reduce raw material costs.

Professional design team

With over 5 years of experience, we provide the best solutions for solar energy projects.

Familiar with multiple standards

Familiar with various standards, including British standards, Japanese industrial standards, American standards, etc., to meet the needs of customers in different regions.

Quality assurance

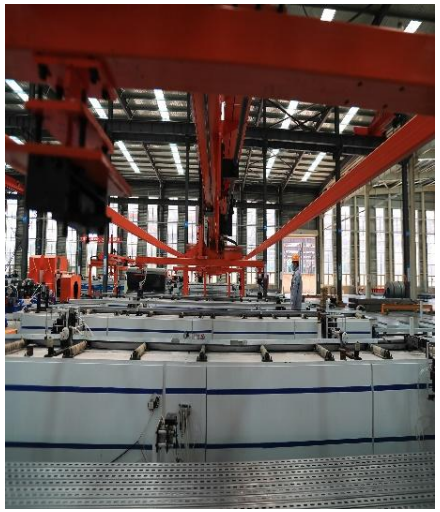
Mechanical properties test of raw materials: tensile strength, yield strength, elongation after fracture, bending elongation

Check whether the mechanical and anti-corrosion properties of raw materials have changed under extreme conditions

Artificially simulate the natural environment to test whether the corrosion resistance of raw materials meets customer requirements

Anti-aging performance of raw materials under strong ultraviolet and rain environment

On site process



02

Product Introduction

· Introduction to raw materials

· Core products

Introduction to raw materials

Specifications: U41*21
Features:
High pressure resistance, easy installation, self-healing of scratched coating, strong anti-corrosion ability.
Mainly used for inter-column support of solar photovoltaic panels etc.

Specifications: U41*41
Features:
High pressure resistance, easy installation, self-healing of scratched coating, strong anti-corrosion ability.
Mainly used for purlins and diagonal braces of solar photovoltaic panels.

Specifications: U41*52
Features:
High pressure resistance, easy installation, self-healing of scratched coating, strong anti-corrosion ability.
Mainly used for columns, tracks, load-bearing beams, etc. of solar photovoltaic panels.

Specifications: U41*62
Features:
High pressure resistance, easy installation, self-healing of scratched coating, strong anti-corrosion ability.
Mainly used for columns, tracks, load-bearing beams, etc. of solar photovoltaic panels.

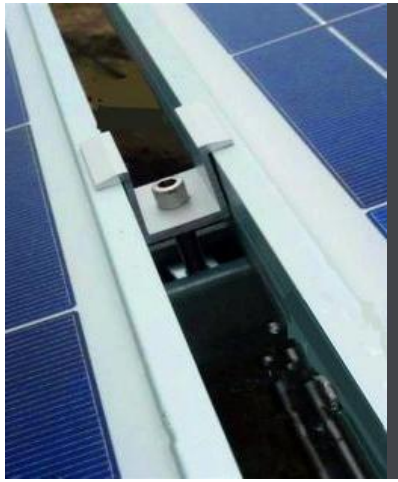
Specifications: C60*40
Features:
Effective anti-slip, anti-impact, anti-shear, convenient on-site installation and processing, self-healing of scratched coating, strong anti-corrosion ability, and the hole position can be customized according to the actual situation of customer needs.
Mainly used for front and rear columns, inclined beams, front and rear diagonal braces, purlins, etc. of solar photovoltaic panels.

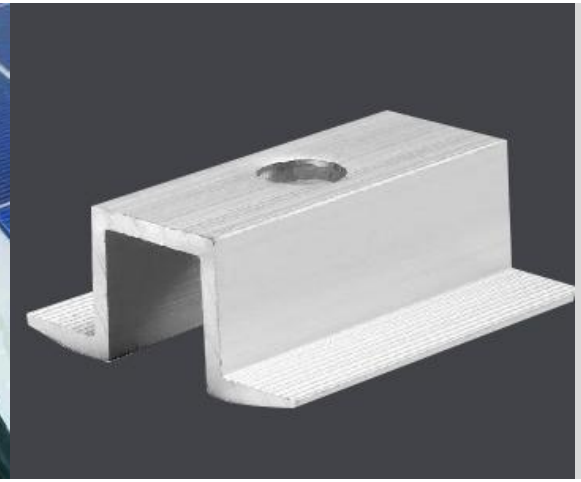
Specifications: C100*50
Features:
Effective anti-slip, anti-impact, anti-shear, convenient on-site installation and processing, self-healing of scratched coating, strong anti-corrosion ability, and the hole position can be customized according to the actual situation of customer needs.
Mainly used for front and rear columns, diagonal beams, front and rear diagonal braces, purlins, etc. of solar photovoltaic panels.

Introduction to raw materials

Straight connectors, triangular connectors

Features:
Easy and convenient connection and adjustment, self-healing of scratched coating, strong anti-corrosion ability.
Mainly used for connecting purlins, rails and diagonal braces of solar photovoltaic panels.





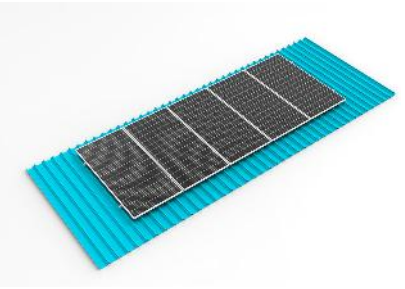
Middle pressure block, side pressure block

Features:
Flexible, simple and convenient installation, self-healing of scratched coating, strong anti-corrosion ability.
Mainly used for fixed connection of solar photovoltaic panels to enhance the stability and wind resistance of the entire photovoltaic power station.

Main products

photovoltaic carport mounting system

The photovoltaic carport system is a new type of integrated photovoltaic and architectural waterproof carport mounting system.



commercial and industrial roof mounting system

Tailor-made design, convenient installation method, and compatibility with various color steel tiles. It can provide a rail-less solution, allowing direct installation of photovoltaic modules for convenient and efficient deployment

galvanized aluminum-magnesium ground mounting system

The ground mounting solution suitable for flatland, hilly terrain, and highly corrosive environments is a new material photovoltaic mounting system, designed for high-corrosion environments such as coastal areas

aluminum alloy ground mounting system

The ground mounting solution suitable for flatland, hilly terrain, and highly corrosive environments is a traditional and popular mounting system designed for high-corrosion environments such as coastal areas.

agricultural greenhouse mounting system

The agricultural complementary mounting solution suitable for agriculture, fisheries, and other farming applications is a mounting system that combines agriculture and photovoltaic systems.

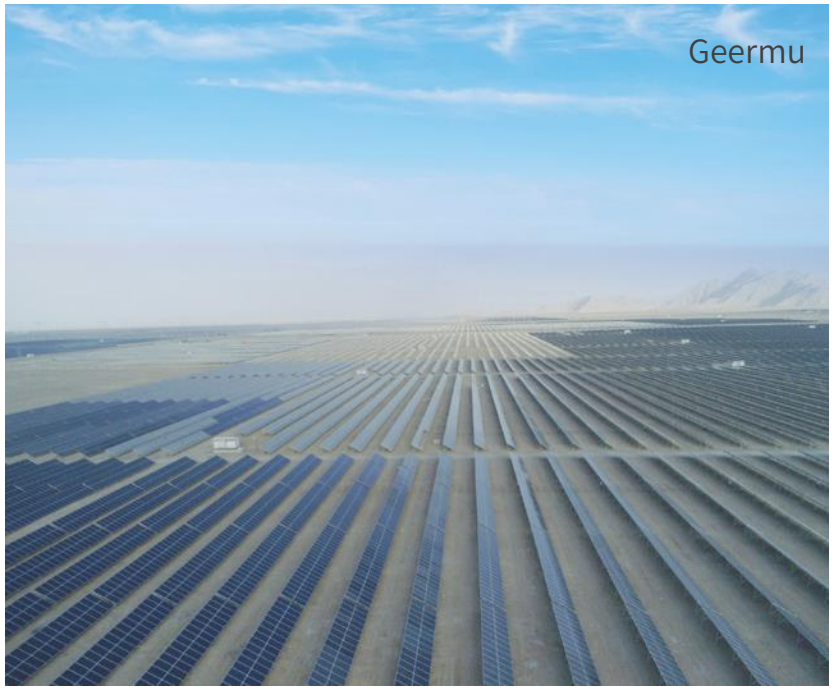
roof mounting system

The roof mounting system is suitable for commercial, industrial, and residential rooftops. It is a versatile photovoltaic mounting system designed to accommodate different types of roofs.

03 Project Case

PV modules Ground-based power plants

Haitai solar has introduced a range of high-efficiency photovoltaic modules specifically designed for large ground-based power plant projects. These modules have a maximum power output of up to 700W. Among them, the Taitong bifacial photovoltaic modules offer additional rear-side power generation benefits, enhancing the overall power generation capacity of the power plant and increasing project revenue for users.




Yiyang


Spain


Netherlands


Japan

PV modules Commercial and industrial sector

With the advancement of the dual carbon goals, the capacity of the distributed photovoltaic market in industrial and commercial sectors, such as factory roofs and office building roofs, has been fully unleashed. Haitai New Energy starts from the product design end to enrich the product portfolio and meet the product demands in different application scenarios. In various types of industrial and commercial distributed applications, such as cement roofs and color steel tile roofs, the advantages of different module specifications are utilized to flexibly develop product solutions tailored to specific application scenarios. This approach maximizes the reduction of installation restrictions for photovoltaics, thereby promoting the development of distributed photovoltaics in the industrial and commercial sectors.

PV modules

Residential distributed generation

In response to the dual carbon goals and the promotion of energy structure reform, new energy sources, led by photovoltaics, are gradually making their way from remote deserts and farms to households. Building photovoltaic power projects on residential rooftops not only meets the household's own electricity needs but also enables grid-connected benefits. In recent years, residential distributed photovoltaic projects have become increasingly popular in the field of new energy. Haitai New Energy has gained the favor of global residential customers due to its excellent product quality and comprehensive after-sales service.

Haitai Solar

Thanks

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