



EASTBAOYU
NEW ENERGY

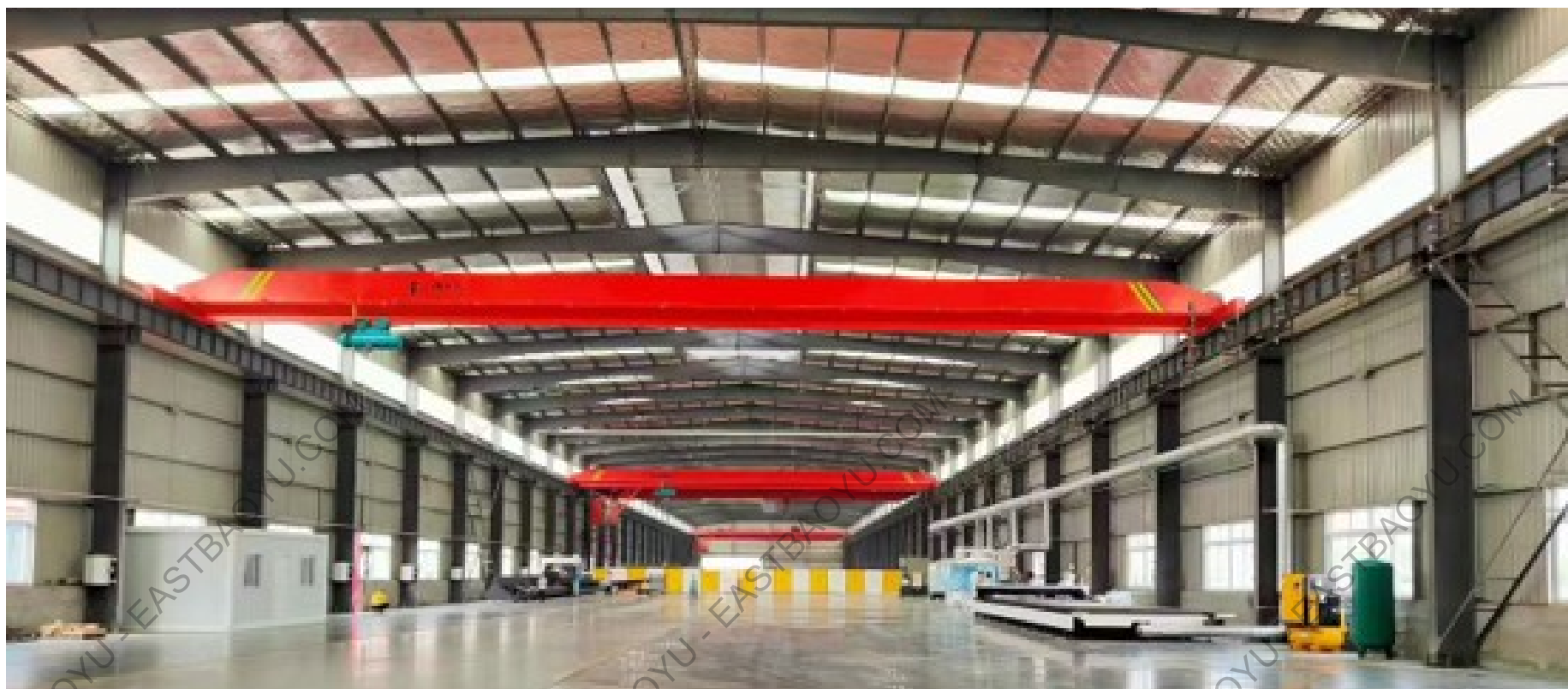


DONGFANG BAOYU
NEW ENERGY

Solar Mounting System



ABOUT US



BUILT ON 30+ YEARS OF STEEL

ENGINEERED FOR THE ENERGY TRANSITION.

Dongfang Baoyu New Energy is a renewable-energy venture of Baolai Steel Group — turning three decades of industrial steelmaking discipline into screw piles, solar mounting systems and steel structures.

Dongfang Baoyu New Energy is a strategic new venture under **Baolai Steel Group**.

Leveraging over **three decades** of industrial steelmaking expertise and a global trade network, we specialize in manufacturing **renewable energy infrastructure**.

Our newly operational smart factory features advanced laser digital processing lines. We deliver high-performance **screw piles, solar mounting systems, and steel structures** as integrated solutions. From core materials to precision fabrication, we commit to industrial-grade quality, rapid project response, and competitive cost-effectiveness, positioning us as your most reliable manufacturing partner in the renewable energy sector.

Building on a legacy of steel, we are defining a sustainable future.

OUR FOUNDATION

**Three decades of steel,
distilled into four numbers.**

Numbers we've earned, not numbers we borrowed. Verifiable through mill certificates and audits.

1991

Year Baolai's first cold-formed steel mill opened in Tianjin

3M+

Tons annual group steel production capacity

100+

Countries supplied through our trade network

±0.5mm

Laser cutting precision in our 2026 smart factory



Fixed PV Bracket

A stable, easy-to-install structure for flat land, roofs and mountains, using aluminium-alloy or steel with anti-corrosion treatment.



Fixed PV bracket adopts standardized modular design with fixed installation angle based on optimal light inclination, no adjustment needed. Made of high-strength carbon steel and aluminum alloy with anti-corrosion treatment, it features stable structure and easy installation, suitable for flat land, roofs, mountains and other scenarios. It provides stable and long-lasting support for PV modules, being the optimal choice with high cost-performance and low maintenance cost.

Key advantages

- Stable & Durable

High-strength mechanical structure, wind, pressure and corrosion resistant, service life over 25 years

- Controllable Cost & High Cost-performance

No complex components, low production & construction cost, zero later maintenance, better full-cycle cost

- Efficient & Convenient Installation

Modular prefabrication, no on-site welding, easy assembly, greatly shorten construction period

- Wide Adaptability & Multiple Scenarios

Suitable for household, industrial & commercial roofs, ground, mountain and other PV installation scenarios

- Stable Performance & Safe Reliability

No operation failure, no debugging needed, ensure long-term stable operation of PV power stations

Applicable Scenarios

- Large-Scale Ground-Mounted PV Power Stations

Large desert PV, flat ground PV, mountain PV, tidal flat PV, saline-alkali land PV and other large ground power station projects.

- Commercial & Industrial Rooftop PV

Factory flat roofs, steel structure workshop roofs, commercial complex roofs, warehouse and logistics rooftop PV projects.

- Residential Distributed PV

Rural self-built house roofs, villa roofs, small distributed PV grid-connected/off-grid systems in family yards.

- Composite PV Projects

Agrivoltaic, fishery-solar hybrid, forest-solar hybrid, greenhouse rooftop PV, and breeding area supporting PV projects.

- Special Terrain PV Projects

PV installation on complex terrains such as slopes, hills, steep slopes, old building roofs and restricted spaces.

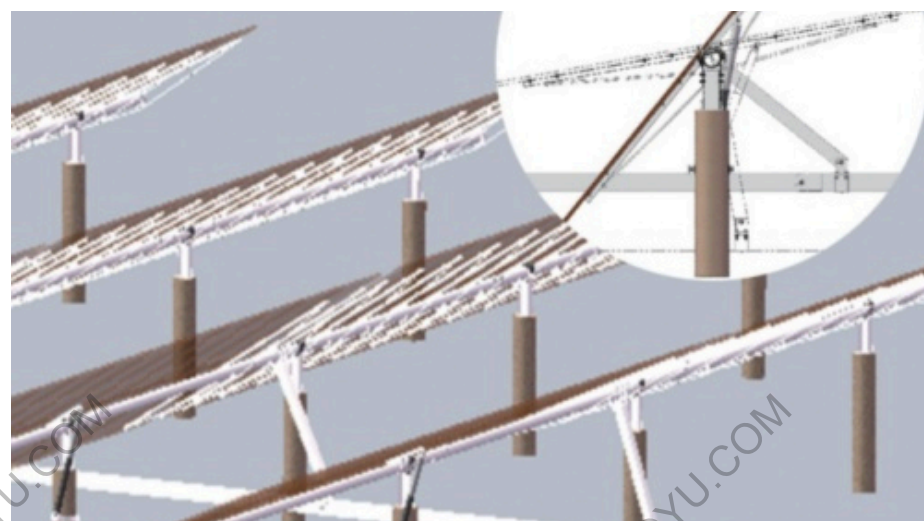
- Overseas Lightweight PV Projects

Overseas residential small-scale PV, off-grid PV in remote areas, and simple PV power supply supporting projects.



Solar Tracking Bracket

An intelligent system that tracks the sun trajectory and adjusts module angle in real time for higher solar absorption.



Tracking PV bracket is an intelligent photovoltaic support system that automatically follows the sun's trajectory. It adjusts the orientation and inclination of PV modules in real time via motors, reducers and intelligent control systems, accurately tracking the solar altitude and azimuth angle all day, maximizing light radiation reception and power generation output.

It is mainly divided into single-axis tracking and dual-axis tracking. The main structure adopts hot-dip galvanized steel or aluminum alloy with strong corrosion resistance and long service life. Equipped with intelligent controller, meteorological sensors and remote monitoring system, it can adapt to light, wind speed, rain and snow weather, with automatic wind avoidance and reset protection, suitable for large ground PV power stations and new energy projects on complex terrain.

Advantages

- Remarkable Power Generation Gain

Single-axis tracking increases power generation by 15%–25%, and dual-axis tracking by 25%–40%. Higher income with the same installed capacity and shorter payback period.

- Intelligent Automatic Solar Tracking

Accurate all-day solar tracking without manual operation; support remote monitoring, automatic operation & maintenance, intelligent wind avoidance, automatically lay flat to protect equipment in strong wind.

- Stable Structure & Excellent Weather Resistance

Mechanically optimized structure with high wind, snow and seismic resistance; overall hot-dip galvanized anti-corrosion design, service life over 25 years, maintenance-free outdoors.

- Strong Terrain Adaptability

Suitable for complex terrain such as mountains, hills, gentle slopes, tidal flats and saline-alkali land, compatible with irregular land plots and higher land utilization rate.

- High Cost Performance & Investment Value

Although the initial cost is higher than fixed brackets, the power generation gain is considerable. Long-term power income far exceeds the incremental investment, ideal for large-scale PV projects.

Applicable Scenarios

- Large-Scale Ground PV Power Station

Flat land centralized PV, desert PV, Gobi PV and large new energy base projects.

- Complex Terrain PV Projects

Mountains, hills, gentle slopes and undulating land where large-scale land leveling is not feasible.

- Agrivoltaic & Forest-Solar Hybrid Projects

Agricultural-PV complementation and under-forest PV planting. The bracket can be heightened without affecting crop growth and mechanical farming.

- High-Yield Investment PV

PV EPC projects and new energy investment power stations pursuing high power output and high ROI.

- Remote Off-Grid PV Projects

Off-grid power supply projects in plateaus, pastoral areas and remote mining areas with good light resources needing maximum power generation.

- Large Industrial & Commercial Centralized PV



Flexible PV Bracket

A flexible load-bearing structure with high-strength cable systems for complex sites where traditional brackets are difficult to install.



Flexible PV bracket adopts cable tensioning and lightweight structure design, breaking the terrain limitations of traditional brackets and specially built for complex and special scenarios. Relying on flexible load-bearing structure and high-strength cable system, it realizes large-span and column-free installation, suitable for difficult PV sites, combining stability and flexibility to boost efficient development of PV resources in special sites.

Advantages

- Super Terrain Adaptability

Break through limitations of mountains, depressions, fish ponds, mining areas and other complex terrains, no site leveling needed

- Large Span & Column-Free

Large-span coverage installation, reduce ground damage, save land resources and improve space utilization

- Lightweight & High Strength

Lightweight structure with high-strength anti-corrosion cables, strong load-bearing, wind and snow resistant, excellent durability

- Efficient Construction & Low Cost

Convenient on-site construction, reduce earthwork, lower site renovation and infrastructure costs

- Strong Scene Compatibility

Realize agro-PV, fishery-PV, mining-PV complementation, multi-purpose use of one site to improve comprehensive benefits

Application Scenarios

Complex and special sites such as mountains and hills, fish ponds and reservoirs, agricultural and forestry greenhouses, mining subsidence areas, saline-alkali land, wasteland, agro-PV/fishery-PV/mining-PV complementary PV projects



PROJECTS

www.eastbaoyu.com

INFRASTRUCTURE



CHINA

Hong Kong-Zhuhai-Macao Bridge

SOLAR



2025 • SINGAPORE

Rooftop PV Mounting

SOLAR



2025 • TIANJIN, CHINA

Mountain PV Mounting Systems

SOLAR



2026 • TIANJIN, CHINA

Ground Solar Infrastructure

INDUSTRIAL



CHINA

Shougang Coal Transformation

POWER



SHANDONG, CHINA

State Grid UHV Shandong Ring Network

AVIATION



BEIJING, CHINA

Beijing Capital Airport

AVIATION



XI'AN, CHINA

Xi'an Airport A380 Hangar

AVIATION



TIANJIN, CHINA

Tianjin Binhai Airport Terminal T2

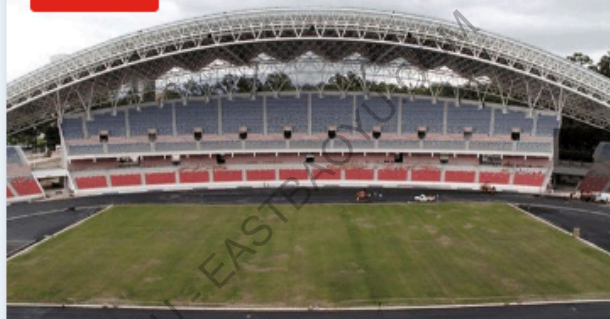
STADIUM



GUANGZHOU, CHINA

Guangzhou Asian Games Stadium

STADIUM



BANGLADESH

Bangladesh National Stadium

STADIUM



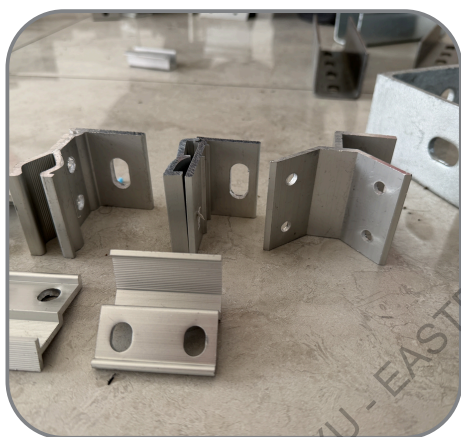
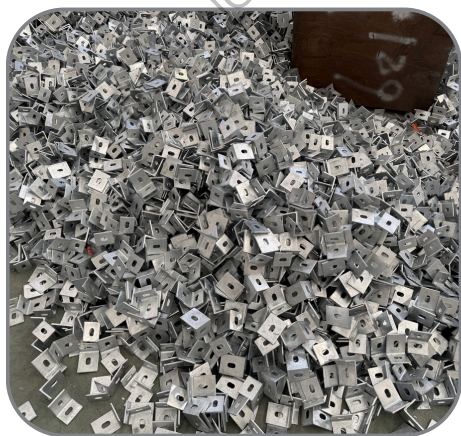
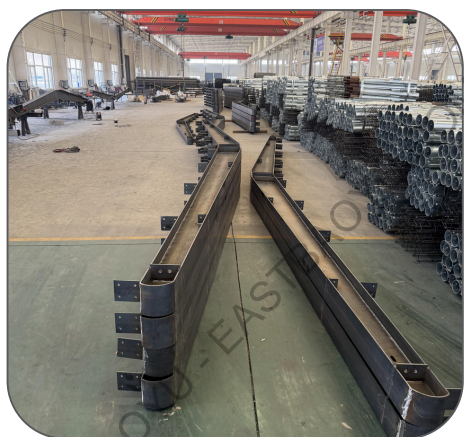
BEIJING, CHINA

Beijing National "Bird's Nest" Stadium



PRODUCT DISPLAY

www.eastbaoyu.com





EASTBAOYU
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