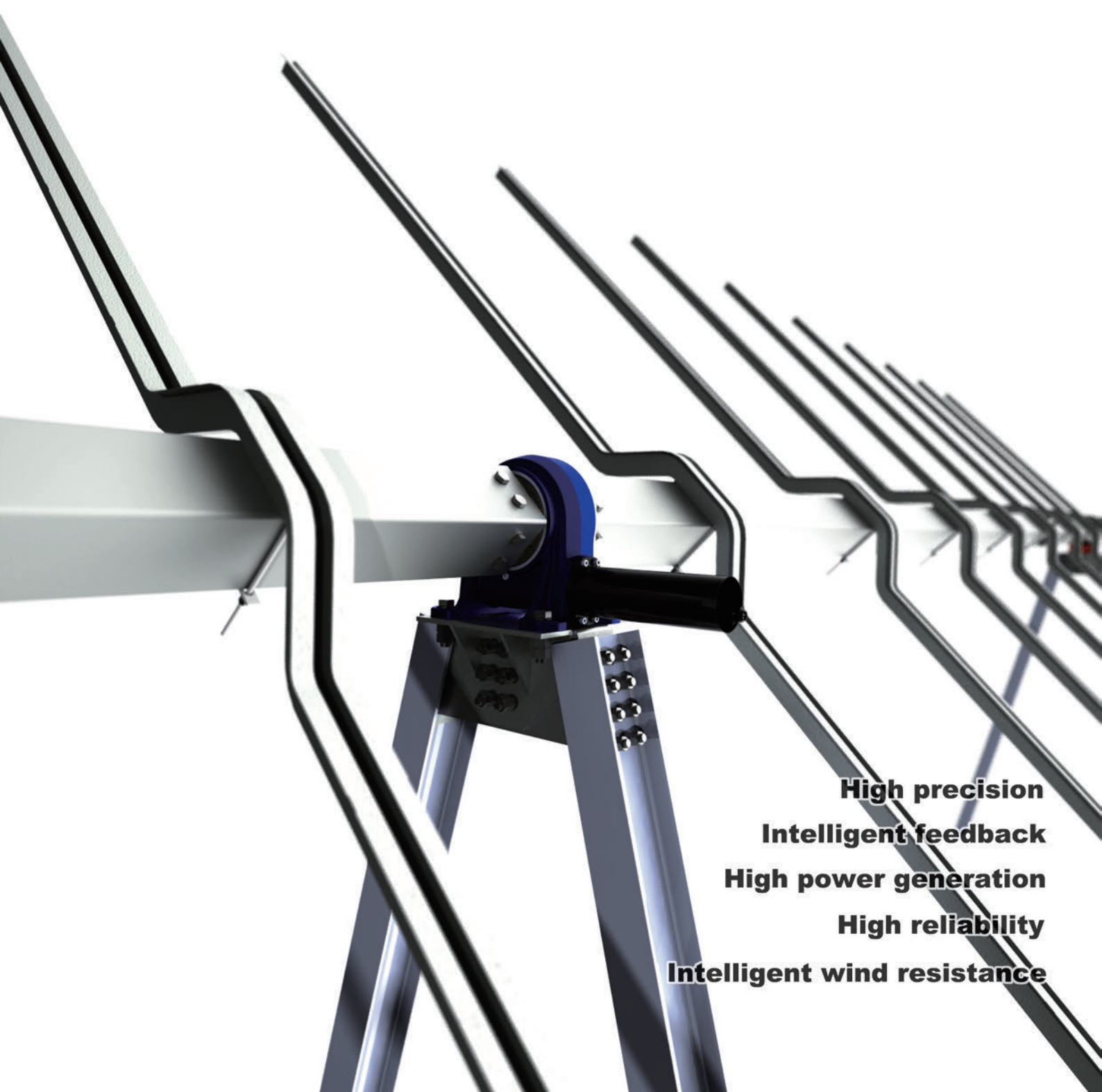




BOFU SOLAR

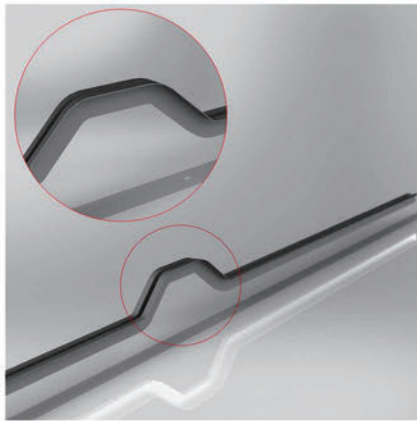
Solar Tracker



High precision
Intelligent feedback
High power generation
High reliability
Intelligent wind resistance

A-Type Single Axis Solar Tracker

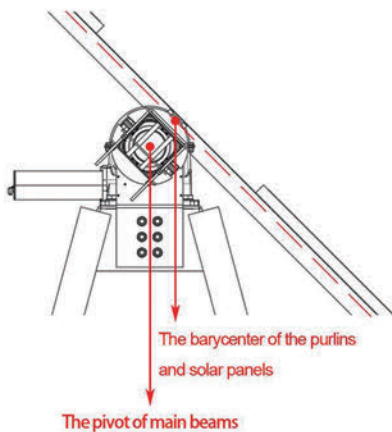
We provide the design, customized manufacture, logistics, and one-stop purchasing of solar trackers, meet requirements of different clients.



| Purlins

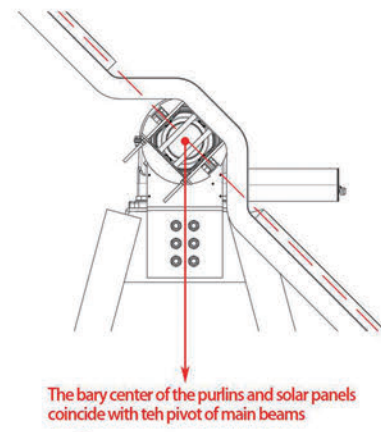
Self Balancing Arch Purlin

Self-balancing solar tracker is equipped BOFU unique arch purlins to support solar panels. This is the most obvious difference between BOFU Self-balancing solar tracker and other brand trackers. Why ?



Ordinary Flat Purlin

The barycenter of ordinary flat purlins is located above the main beam, when the main beam rotates at a certain angle, the barycenter of the purlins and solar panels will deviate from the pivot of the main beam, resulting in an eccentric torque. Therefore, when the slewing drive rotates, it is not only necessary to overcome the friction of the supporting bearing itself, but also to overcome the torsion force caused by the eccentric torque, which inevitably increases the power consumption of the motor.



Self Balancing Arch Purlin

The BOFU new arch purlins makes the total barycenter of the purlins and solar panels coincide with the pivot of the main beam at any angle, thus the overall eccentric torque is almost zero no matter how the main beam rotates, the slewing drive only need to overcome the friction of the supporting bearing itself, so to reduce the power consumption of the motor.

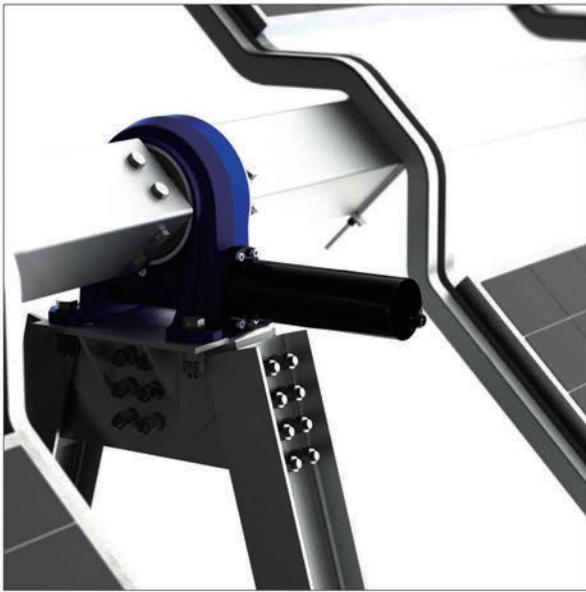
A-Type Single Axis Solar Tracker

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| Advantage

Self Balancing Arch Purlin

- Reduce the power consumption of driving motors, thus improve the power generation rate of the system.
- The load of the drive motor is stable, prolong the service life of the drive motor.
- Ordinary purlins have a short-term zero eccentric torque only in the horizontal state, and arch purlins are in a zero-eccentric torque moment at any time, which reduce the swing caused by wind, so the windproof effect of self-balancing bracket is better.



| Advantage

A Type Strut

For medium or small power stations, pouring the concrete foundation of the solar tracker can be a difficult and expensive task. BOFU offers A-type struts that can be adapted to earth anchor, make it is possible to eliminat the need for concrete foundations, speeding up installation of the tracker and save labor cost, lower the total cost of the solar power system.



A-Type Single Axis Solar Tracker

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| Panels

For Bifacial Solar Panels

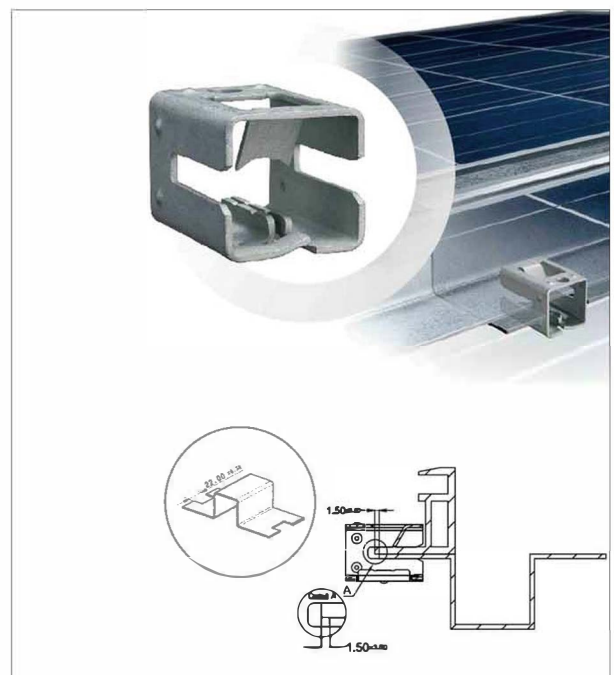
More and more power stations are choosing to use Bifacial solar panels, which generate power not only by direct sunlight to the front surface but also by reflected light to the panel back. Unlike single-sided solar panels, they are made of clear glass that allows reflect light pass through and arrive panel back to generate power also. This requires that the solar tracker must minimize the blocking of sunlight, especially on the back of the solar panels. BOFU's arch-shaped purlins are designed so that the solar panels can be mounted on purlins only by the edge of panels, which greatly increases the reflective area on the back of the solar panels.



| Clips

Fast Lock Clip

The solar panels were mounted on the purlins with fast lock clip, no need tools and screws, one panel locked on the purlin by 6 clips, only 30 seconds for one solar panel, save time and labor.





A-Type Single Axis Solar Tracker

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Data Sheet

ITEM	VALUE
Products Name	A-Type Single Axis Solar Tracker
Brand	BOFU
Original	China
Wind Resistance	17m/s
Snow Resistance	1.6KN/sqm
Service Life	> 25 Years
Features	Self-balancing
Drive	Slewing Drive
Voltage	24V
Daily Power Consumption	≤0.3kwh
Rotate Angle	±60°
Communicate	RS485
Material	Q345/Q235
Surface Treatment	Hot Dip Galvanizing
Tracking Method	Astronomical Algorithm+GPS
Foundation	Concrete Foundation/Earth Anchor

Dual Axis Solar Tracker

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| Dual Axis

Dual Axis Solar Tracker

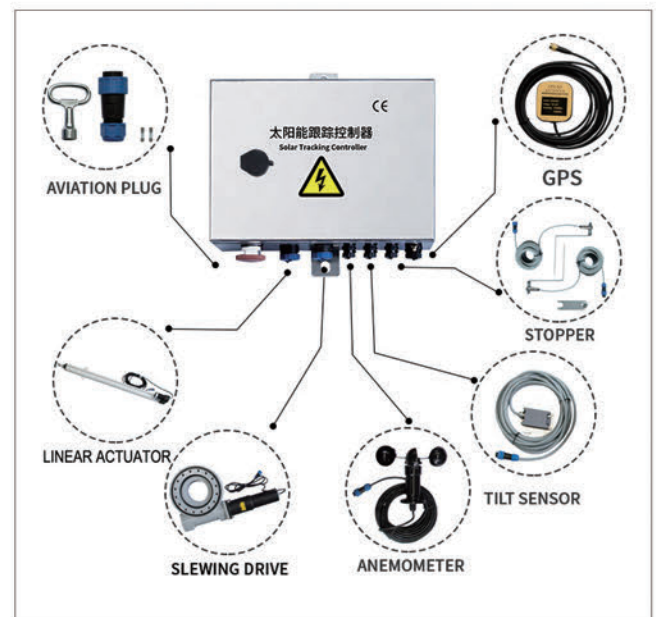


The dual axis solar tracker is equipped with an astronomical algorithm + GPS controller, which determines the real-time position of the sun based on the longitude, latitude, and time of the region. At the same time, the system's built-in inclination sensor provides feedback on the tilt angle of the solar panel, and the controller outputs a signal to driving motors, then the strut is driven to rotate horizontally by slewing drive, with a rotation angle of $\pm 120^\circ$. Meanwhile, the beams are driven by linear actuator or slewing drive to rotate vertically, with a rotation angle of $\pm 60^\circ$, allowing real-time tracking of the sun's position, ensuring that sunlight always shines vertically on the solar panel, achieving maximum power generation efficiency.

| Advantage

Dual Axis Solar Tracker

- Each set of dual axis solar tracker worked separately, occupying a small area and adapting to the complex terrain.
- Rotate both on horizontal and vertical direction for better effect on tracking the sun.
- The area of solar panels is small, the rotating beam is relatively short, and the swing caused by strong winds is small.





Dual Axis Solar Tracker

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Data Sheet

ITEM	VALUE
Products Name	Dual Axis Solar Tracker
Brand	BOFU
Original	China
Wind Resistance	17m/s
Snow Resistance	1.6KN/sqm
Service Life	> 25 Years
Features	Horizon + Pitch Rotate
Drive	Slewing Drive + Actuator
Voltage	24V
Daily Power Consumption	≤0.5kwh
Horizon Rotate Angle	±120°
Pitch Rotate Angle	±60°
Communicate	RS485
Material	Q345/Q235
Surface Treatment	Hot Dip Galvanizing
Tracking Method	Astronomical Algorithm+GPS
Foundation	Concrete Foundation