TrinaTracker

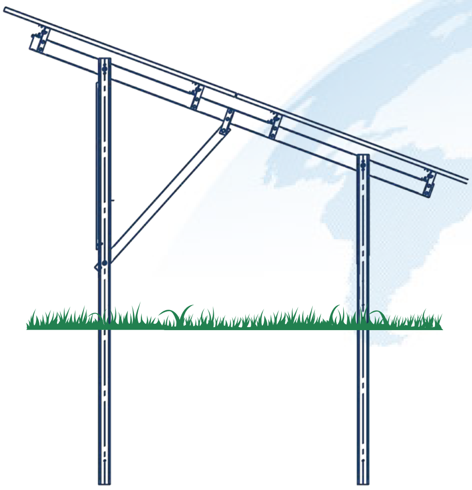
FixOrigin™

Fixed Tilt Solution

FixOrigin™

FixOrigin is the ground fixed tilt system that TrinaTracker includes in its portfolio to provide a cost-effective solution for those sites with high difused and indirect radiation.

TrinaTracker has proven the adaptability of its mounting systems to every site's terrain characteristics and weather conditions around the globe.



18 Years

40 Countries

+209 Fixed Tilt Installations

Guaimbè, Brazil	Curbans, France	Jasper, South Africa
		

Guaimbè, Brazil

Location
Guaimbè (Brazil)

Capacity
180 MW

Environment
- ✓ Temperature range from 12°C to 36°C.
- ✓ Rain season with 200 mm monthly precipitations.
- ✓ Highly humid due to the proximity of the Amazon rainforest.
- ✓ Average wind speed of 12-19 km/h.

Curbans, France

Location
Curbans (France)

Capacity
33 MW

Environment
- ✓ Temperatures go down to -5°C in winter time.
- ✓ Cloudy and rainy weather conditions for 6 months of the year.
- ✓ Average wind speed of 19-27 km/h.
- ✓ Average slope of 15%.

Jasper, South Africa

Location
Jasper (South Africa)

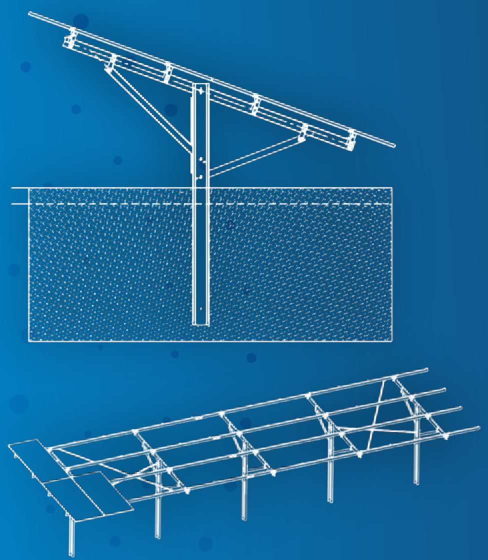
Capacity
100 MW

Environment
- ✓ Average temperature of 36°C.
- ✓ Monthly precipitations above 150 mm.
- ✓ Average wind speed of 12-19 km/h.

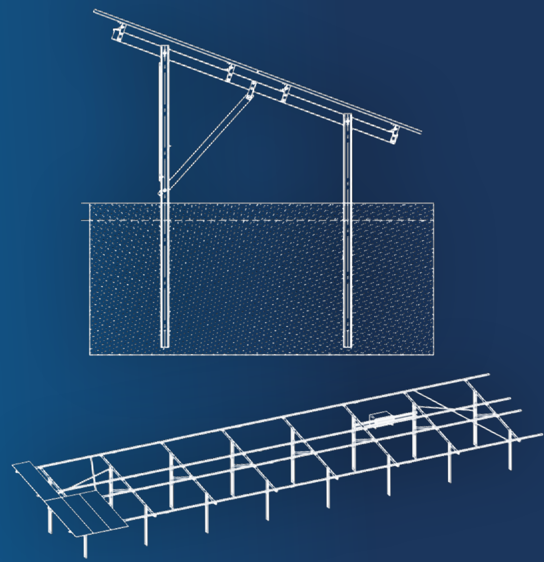
Fixed Structure Design

FixOrigin™

Monopost



Bipost



FixOrigin™ Mounting System

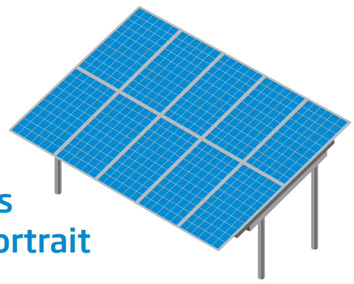
Structure type	Monopost and Bipost
Configuration	Monopost 2P and 4L Bipost 2P, 3P, 4L and 6L
Ground clearance	Up to 1200 mm [1]
Inclination	Up to 25°
Terrain adaptability	20% E-W, 30% N-S [2] per row (1500 V string)
Structure material	S350-S420 GD or higher
Coating	HDG, Pre-galvanized & ZM [3] Micropile and PHC piles
Module fixation	Clamps, rivets, bolts
Inverter support	Optional
Ramming options	Direct ramming Pre-drilling Micropile Screw foundation Concrete footing
Warranty	10 years: structure 5 years: commercial components

[1] Standard up to 800mm.
For higher loads, contact TrinaTracker

[2] Standard conditions up to 10%.
For higher slopes, contact TrinaTracker

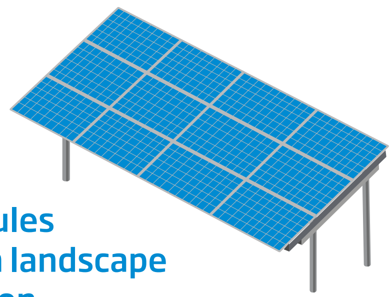
[3] Standard configuration.
Other coating by request

The structure's design depends on the terrain's characteristics and space availability.



2 or 3 modules mounted in portrait configuration (vertical)

Portrait configurations are recommended for high east-west slopes terrains.



4 or 6 modules mounted in landscape configuration (horizontal)

Landscape configurations are recommended for bifacial modules to minimize shading on the rear part of the solar panels.

FixOrigin™

Tailor-Made Foundations

Ramming

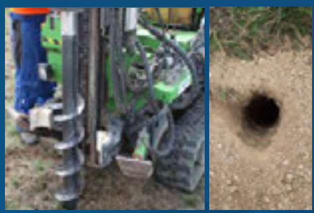
Low-medium hardness ground conditions

Micropile

Cobbles or soft-loose ground conditions

Pre-drilling

Rocky areas or extremelly hard ground conditions



Footing foundation

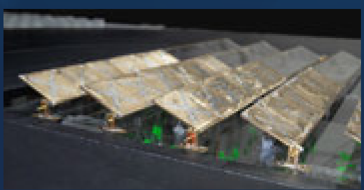
Low bearing capacity ground conditions

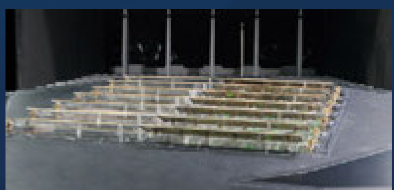
Detailed Engineering, Easy Assembly and Efficient O&M

- Reduced installation time
- Height and inclination adjustability during assembly
- No cutting, drilling or welding required

Verified Stability

FixOrigin has been subjected to a detailed wind tunnel test methodology to analyze the static wind effects on the structures.
The results of the wind tunnel test validated the structure's stability and optimized its design.





Top-Quality Standards

TrinaTracker's high quality internal standards ensure FixOrigin's durability.

FixOrigin™

FixOrigin's Added Value

- Compatible with modules up to 670W+
- Lower LCOE
- Stability tested and ratified
- Tailor-made foundations
- Reduced shading with large format modules
- Easy assembly
- High quality
- No maintenance required

Services Included

COMPLETE RANGE OF SERVICES from a SINGLE SOURCE

Project Design Consultancy

Tailor-made solutions for every site.

Engineering

Optimization of structures to meet each project's requirements, clients' needs and local regulations.

Geotechnical Analysis

Analysis of terrain conditions including technical soil analysis.

Pull-Out-Test

Pull-out-tests are conducted as needed.

Corrosion Analysis

Analysis of atmospheric conditions determines the optimum corrosion-resistant coating.