

Open Field PV Rack Mounting System

# KIVO

## FS

### Single Pile

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Mounting system KIVO FS for ground mounted photovoltaic systems is suitable for First Solar thin film modules.

The mounting system consists of galvanized steel mounting structures, based on pile foundations such as IPE, C, Sigma or RHS.

- Foundations are rammed to the depth of up to 2 meters into the ground.
- A ramming test is carried on before the installation in order to ensure the ground suitability.
- Each bay consists of a steel braced frame, made of galvanized cold formed steel sections and can accommodate 6 to 8 p/v modules. The span between the ground supports varies between 3000 to 4200mm.
- Horizontal mounting (landscape) and vertical mounting (portrait) are possible on the KIVO FS
- Aluminum clamps (middle & end profile, EPDM rubber) are used to fasten the modules.
- P/V module's minimal distance to the ground – 500mm.or upon demant
- Only M12 screws are used
- Optimized material selection, integrated functions (e.g. cable conduit) and reduced number of single parts ensure quick and easy installation.
- The mounting system is CE certified and suitable for the climate conditions of Europe.
- Solutions even for difficult terrain and geological situations, ground conditions and/or earth quake areas are available on request.

- KIVO FS
- Single Pile
- Open Field
- 20 Years Warranty
- CE, ISO 9001 TÜV



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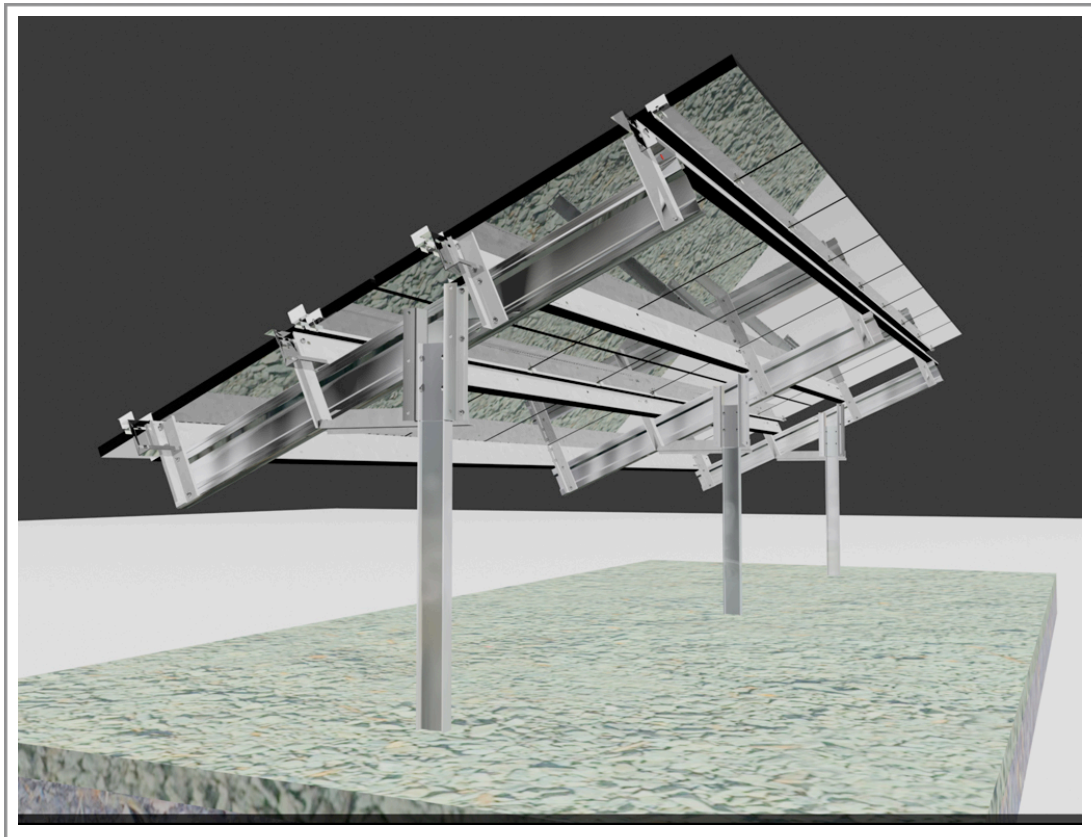
## Specifications

<b>Application</b>	<b>Ground mounted</b>
Grounding	single pile ramming or drilling/concrete filling
Soil Classes DIN 18300:	Soil Classes 3-5 single pile Soil Classes 5-7 single pile/ drilling
Material	Cold roll-formed pre-galvanized steel profiles according to DIN EN 1327 – S320+Z or post galvanized steel profiles Hot dip Galvanized IPE, RHS or C section piles according to EN ISO 1461
Tilt Angles	Upon demand from 10 to 40 degrees
Panel arrangement	2-4 line horizontal mounting(landscape)
Module Compatibility	First Solar PV modules
Average Installation Rate	Up to 12 kWp/man per day
Accessories: Screw type	Aluminum profile depending on module specifications Grade 8.8 (galvanized) or A2-70(Stainless steel), M12 and M8(clamps) EPDM rubber against Electrolytic corrosion
Warranty	20 years
Manufacturing Location	Depending on the location of an installation site
Certifications:	CE, ISO 9001 TÜV

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## Images



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## Design Norms & Standards

Design according to the following Norms:

**Eurocode 1: Actions on structures (EC1, ENV 1991 1-1, 1-3, 1-4),**

- Part 1-1: General actions – Densities, self-weight and imposed loads
  - Part 1-3: General actions – Snow loads
  - Part 1-4: General actions – Wind actions

**Eurocode 3: Design of steel structures (EC3, ENV 1991-1-1, 1-3)**

- Part 1-1: General rules and rules for buildings
- Part 1-3: General – Cold formed thin gauge members and sheeting
  - Part 1-8: General – Design of joints
- Part 1-10: General – Material toughness and through thickness assessment

**Eurocode 8: Design of structures for earthquake resistance (EC8, ENV 1998-1-1)**

- Part 5: Foundations, retaining structures and geotechnical aspects
- Part 1: General rules, seismic actions and rules for buildings
  - National Norms for Earthquake Resistance



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