PEG[®] PV Substructure

A unique simplified high-density ground mount solution







IFI Aerodynamically







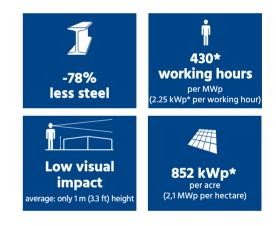
The PEG[®]'s simple, high-density, and lightweight design, streamlines the whole project's installation process leading to drastically reduced construction effort, materials, logistics, and labor sourcing.

The racking is low to the ground, about waist height, providing an aerodynamic design suitable for extreme wind hurricanes.

Our PEG® racking decreases material and installation costs as well as the consumption of CO² while providing a robust ground-mount solar solution that brings energy resiliency and scaleability to GW+.



Learn more about, why PEG is the best ground mount solution: https://www.jurchen-technology.com/products/ solar-mounting/peg/peg-design/



Design

- Extremely light substructure, 78% less steel versus a conventional system
- Maximize land energy density with +225% MWh/acre
- Patented, innovative, minimalist, simple design
- Robust & certified for tropical weather, high winds (185+ mph, 298+ kmh) and high snow loads (50+ psf)
- Low visual impact, typically up to 3.3 ft (1 m) high

Procurement

- Significant CAPEX reduction of both supply and delivery
- 2.2 MW of substructure per 40 ft container

Installation

- Safe installation, working height 3.3 ft (1 m)
- No heavy machines, rods install with e.g. hammer drill
- No DC cable trenching
- No concrete foundations

- Simpler H&S procedures
- Low-skilled labor
- 430 working hours* per MWp with 580 watt modules - applies to PEG EW standard

Operation

Key data

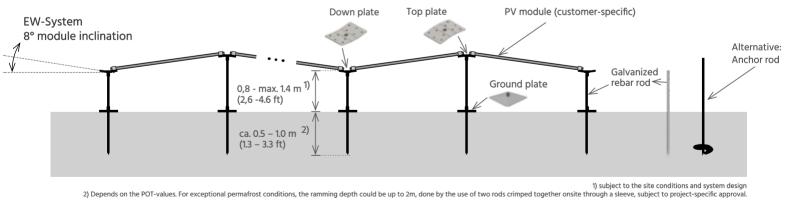
- Optimized energy generation, higher during the morning and afternoon
- Low ecological footprint Carbon footprint is 72 % (61 tons CO2/MWp) less versus a conventional fixed-tilt system.
- Proven design with over 500+ MWp in operation in all continents
- 811 kWp DC per acre (2,0 MWp* DC per hectare)
- Produces ~225% more yield per Hectare (or acre) versus trackers and fixed tilt systems
- Hot-dip galvanised steel offers high resistance to demanding corrosion classes (e.g. also near the sea)





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Requirements	
Land soil condition	Cohesive (e.g. sandy-clay, clayey silt) and non-cohesive soil (e.g. sand or sand-gravel). Rock (e.g. lime stone, basalt), pre drilling required.
Upper soil layer	Pre drilling needed if hard bedrock or underground infrastructure 1 m below ground (deeper if needed). Rammed depth up to 0.8m (or deeper if needed).
Site slopes	Up to 20° (~36%) subject to site conditions and PEG system design



* Explanation of key figures on page 1:

MWp/ha:	Referring to the complete DC area, including the gaps between the DC blocks/tables
kWp/working hour:	Time for complete DC installations including inverter stations
MWp/container:	Only the substructure
Machine costs:	All machines required for the DC installation
Labor costs:	Labor for complete DC installations including inverter stations
Logistic costs:	Including machinery and labor, to the site and onsite
All figures assume suitable ground conditions, a min. 5MWp PEG® system with 580W modules and may differ regionally.	

PEG[®] Datasheet US 2024_0320 Pictures: Jurchen Technology GmbH, Meralli Projects PTY Ltd All data may subject to alterations and errors.

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