FS UNO

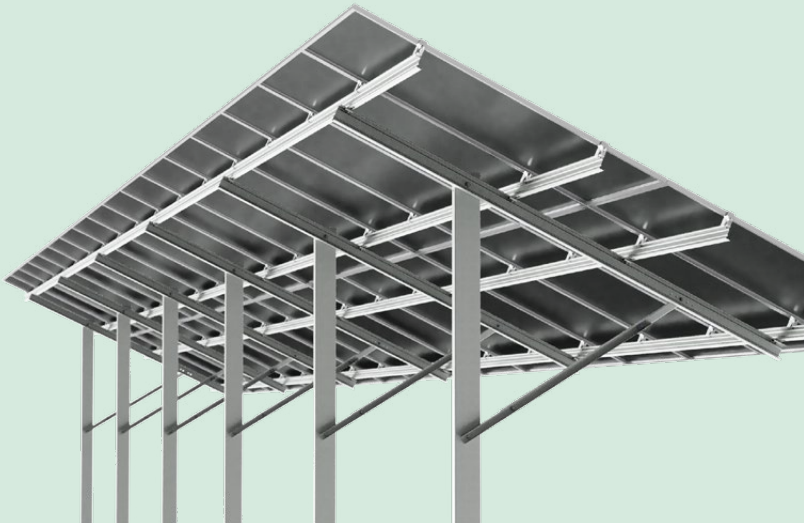
PRODUCT SHEET

Economical single post steel system

Easy to implement in challenging terrains

Easily accessible for maintenance work due to ground clearance of up to 1500 mm

Well proven for Agri-PV installations



WORLDWIDE USAGE

The FS Uno system has proven itself for many years in countless projects all over the world. More than 15 GW of installed capacity has been implemented with this system. The FS Uno steel substructure was developed as a counterpart to the FS Duo double post system.
Its flexibility makes it a best practice for challenging terrain, where a small number of foundations is reasonable.
Low LCOE is enabled by an easy installation and low weight which results in low shipping costs.

Highly efficient and material-economic profile geometries

ECONOMICAL SOLUTION FOR LARGE SCALE PROJECTS

The structure is made of pre-galvanized material and is available in different versions. Care has been taken to ensure that the use of the substructure is suitable for almost any terrain.
The efficient use of material and larger distances between supports adapted to the terrain make the steel system particularly attractive for the implementation of large projects.

The FS Uno system is available in individual parts or, upon request, maximally pre-assembled. The rammed steel foundations replace the concrete foundations in most cases. This saves material and labour costs.

In addition, accessibility is optimal and the proportion of sealed ground area is zero.
This makes it perfect for Agri-PV applications.
And also for rocky area, that requires predrilling.

FS UNO

TECHNICAL SPECIFICATIONS

Scope of application	Ground-mount system with ram foundations, single post
Material	• Foundation posts: steel, Z1200 hot-dip galvanized according to DIN EN ISO 1461 or ZM600 coated according to DIN EN 10346 (depending on soil conditions) • Girders / Purlins: steel, Z600 hot-dip galvanized coated according to DIN EN ISO 12944-2 or ZM310 coated according to DIN EN 10346 • Module clamps: aluminum clamps or nuts & bolts according to client specification • Fasteners and screws: steel, zinc flake coated or stainless steel
Planning aid	Project specific construction design
Structural analysis	• Individual system structural analysis based on regional data and guidelines • Structural analysis of the terrain based on an external soil expertise • 3D terrain model for layout and foundation optimization optional • Load assumptions according to DIN EN 1991-1 part 3 & 4, DIN EN 1990, DIN EN 1999, DIN EN 1993 and further or corresponding national standards (UL 2703, ASCE 07-05, ASCE 07-10, ASCE 07-16, ASCE 07-20) • Verification of all structural components on the basis of FEM calculations or verification according to structural test setup
Module configuration	• Framed modules with a frame height between 30 – 50 mm • 2 module rows in portrait configuration • Option for large format modules and bifacial modules • Option available for First Solar modules
Fastening	• Backside clamping possible • Integrated module grounding option
Warranty	10 years according to our warranty terms
Supplementary documents	Assembly instructions FS Uno