

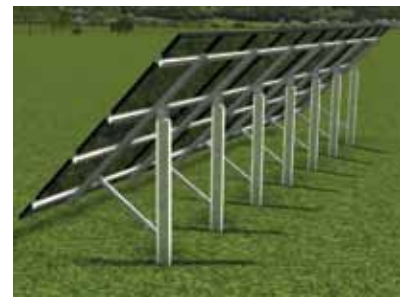
FSVario

Enhancement of the existing single-row tracking system

- The module rack can be pivoted easily by means of a special mechanical latching device
- Perfectly synchronized system components
- Optimum accessibility for terrain maintenance (central support)
- Long service life due to exemplary combinations of materials
- No soil sealing
- Extremely short mounting time
- 10-year warranty (optionally 20 years)



The **FSVario** system belongs to the Schletter FS Open Area Systems' product family. By reducing the number of mechanical interfaces and purposefully dispensing with automated control systems, Schletter has realised an extremely cost-effective construction with the **FSVario** system. The company has deployed open area systems in large projects across Europe for many years, customizing each to the specific location and terrain category. Each plant therefore follows the course of its respective terrain.



Product information

The **FSVario** system offers the benefits of the FS Open Area System with an enhanced and innovative, mechanical latching device which allows for alignment of the module rack elevation according to season. This facilitates an increase in the annual yield of energy. All module types can be deployed.



Special characteristics

A complete module rack comprising, for example, 2 rows of modules, one above the other, can be pivoted with the help of adjustable struts. Mounting the module rack with a favourable centre of gravity enables alignment of the elevation angle with little physical effort.

In the case of large plants, for example, the alignment of individual module racks can be undertaken cost effectively by surveillance personnel.



Mounting

As far as is possible, the module-bearing structure is pre-assembled in our factory. On arrival at the construction site the rack is set on the foundations and is bolted together.

Module mounting is carried out quickly and cost effectively from the ground, or, depending on the module arrangement, using appropriate auxiliary devices.



A decentralized mechanical latching device is integrated into the support base. Each module rack can be tilted easily around its axis by one person, by simply releasing the clamp at the support.



Latching locked



Latching opened

Accessories


the following accessories can be supplied to facilitate assembly:

- Cable duct
- Cable clip for purlin
- Cable clip for girder
- Pipe clamp for foundation

On request, the complete plant can be equipped with exterior lightning protection by means of but a few additional components. Schletter GmbH offers a special planning program to this end (please refer also to the FS Protect product sheet).



Technical data

Material	Fastening elements, bolts: High-grade steel 1.4301 Profiles: Aluminum MgSi05 /EN AW 6063, EN AW 6005 Pile-driven foundations: Steel, hot-dip galvanized
Logistics	<ul style="list-style-type: none"> • Quick and simple mounting • Maximum level of pre-fabrication • Optimized transport to the construction site
Construction	<ul style="list-style-type: none"> • Adjustment options to compensate for uneven ground • For framed and unframed modules
Soil analyses	Soil survey on location and chemical analysis for the creation of a soil profile.
Structural analysis	<ul style="list-style-type: none"> • Structural analysis of the respective terrain based upon a geological survey • Individual systems analysis based on regional load values <p>Load assumptions according to DIN 1055, part 4 (03/2006), part 5 (06/2005), part 100 (03/2001), Eurocode 1 (06/2002), DIN 4113, DIN 18800, Eurocode 9 and further or corresponding national norms</p> <ul style="list-style-type: none"> • Optimized material dimensioning based on the latest research results on wind dynamics. • Verification of all construction components based on FEM-calculation
Delivery and services	<ul style="list-style-type: none"> • Structural analysis of the individual rack based on regional data • Pile driving of the foundations and delivery of the complete mounting material • optional: Rack mounting • optional: Complete module assembly
Warranty and Certifications	

Conclusion

Schletter open area systems were designed to provide an economic and practical mounting solution for large-scale open areas and are suited to almost all agricultural conditions.

Save time and costs with our FS Vario system:

- *Concrete foundations are not required in the majority of cases - the pile-driving of the metal foundations is quick and accurate*
- *Aligning the elevation angle according to season substantially increases the annual yield of energy.*
- *Alignment of the elevation angle can be carried out by currently employed or lower qualified personnel; No special training is required!*
- *A 10-year durability guarantee and a long service life of all system components form the basis of an efficient photovoltaic plant*

**Our team would be happy to assist you with any specific enquiries.
Further information and our declaration of warranty can be referenced at
www.schletter.com.au/AGB**

*in accordance with our General Terms and Conditions of Sale and Supply (www.schletter.com.au/AGB)
Subject to changes and / or technical modifications.