



# PV mounting systems

# Company

**MEISER**



MEISER, founded in 1956, is today a medium-sized, owner-managed family business with its headquarters in Schmelz-Limbach in south-west Germany.

As a steel processing company with a focus on gratings, sheet metal profiles, slit strip, staircases and galvanising, MEISER employs around 3,000 people, more than 2,000 of them in Germany. The two main production sites in Saarland and Saxony are supplemented by manufacturing facilities in Belgium, France, Hungary, Egypt, Dubai, Turkey, Morocco and Brazil. And with numerous other subsidiaries, MEISER is represented almost worldwide. This guarantees personal support for our customers on site. We guarantee the quality of our products with our own galvanising plants, slitting plants and cold rolling mills.

Even more than 60 years after Edmund Meiser founded the company, we are still committed to our origins and our traditional values as a family business. Long-term planning and reliability characterise our daily work, which is supported by flexible and enthusiastic employees as well as modern and highly efficient machinery.

For us, economic activity primarily has to do with people. We therefore place particular value on personal and individual contact with you, our business partners and customers. For us, progress only takes place when you, as our customer, are satisfied in the long term. The many extraordinary projects we have implemented together with our customers confirm us in this view.

**MEISER**



**Straßenausstattung**

As your specialist for ground-mounted PV systems, we have many years of experience in the solar industry.

Our steel and aluminium table systems are 100% Made in Germany.

From steel purchasing and slitting to production and galvanising, the entire value-added chain is represented in our own plants in Schmelz-Limbach and Oelsnitz. This means that we can guarantee the optimum quality of our assembly systems and the best delivery times at all times.

We deliver our PV-Freiland mounting systems to our customers and partners worldwide. We supply our mounting systems to customers in Germany, Hungary, the Netherlands, Spain, Romania, the Czech Republic, Italy, France, England, Iran and the USA.

They are installed in fields and meadows, over contaminated sites and in sealed surfaces, in hilly desert landscapes as well as in damp lowlands and on coasts.

Today, we can proudly look back on approx. 1 GW of installed output with our systems.

**The MEISER modular systems for PV mounting systems are the ideal addition to our service portfolio.**

The Solar division completes the range of services offered by MEISER Straßenausstattung GmbH, which has been dedicated to the development, production, installation and worldwide distribution of a wide variety of restraint systems since 1984. For more than 30 years, MEISER Straßenausstattung has also specialised in the installation of safety equipment, fall protection, railings and noise barriers.



# System variants & module structure

Whether single or double-axis systems - we offer you the right solution.

Depending on the layout requirements, the modules can be mounted either horizontally or vertically, with inclinations of up to 30°. In the single-axis system, the PV modules can be vertically installed in up to 2 rows. With two-axis systems in horizontal mounting, up to 8 rows of modules can be mounted.

Up to 4 rows can be accommodated in a vertical arrangement.

Each project is individually adapted to the customer's wishes and the local conditions. Thanks to our in-house construction and statics, we can always offer you the optimal and most cost-effective variant for your project requirements.

Variante 1: Single-axis module system with 2 module rows vertically.

Variante 2: Two-axis module system with up to 4 module rows vertically.

Variante 3: Two-axis module system with up to 8 module rows horizontally.



Variant 1 - Single-axis modular system



Variant 2 - Two-axis system with vertical module alignment



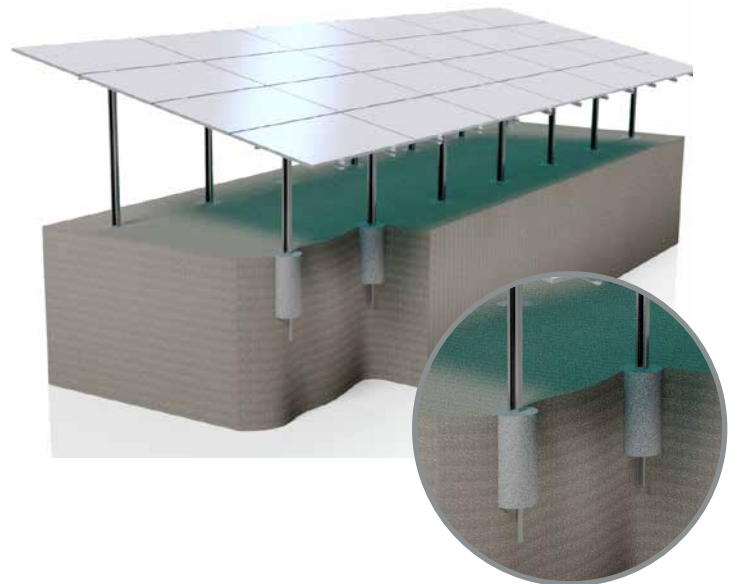
Variant 3 - Two-axis system with horizontal module alignment

# System details

## Foundation

The piles of the system can either be driven or set in concret. In normal subsoil conditions, the driven pile variant offers a quick and economical foundation. In case of unfavourable conditions such as high corrosiveness or low load-bearing capacity of the ground, the piles can be

equipped with concrete foundations. The foundation is always coordinated with the soil expertise and the pull-out tests. If required, we offer the possibility of creating pull-out tests or pile-driving plans for each project.



## Ease of assembly

By using C-profiles, the piles can be mounted „back to back“ with the profiles of the substructure - simple, fast and cost-efficient. The existing hole grid can compensate for minor terrain unevenness and inaccuracies during installation. Individual solutions can be offered for more complex terrain. The purlins

are mounted via keyholes in the beams. The screws of the purlins are pre-assembled on the floor, after which the purlins can simply be hooked into the beam. Thanks to the use of threaded plates, the purlins can be aligned and tightened with one hand, which ensures rapid assembly progress.

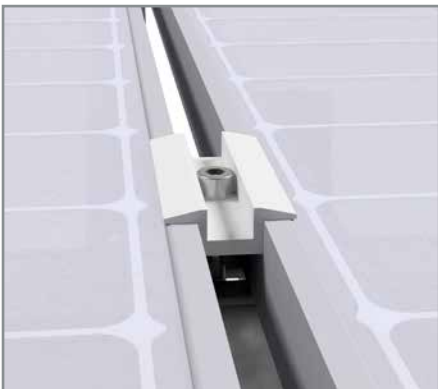
## Module fastening

The solar modules can be fastened either by clamping or direct bolting (2).

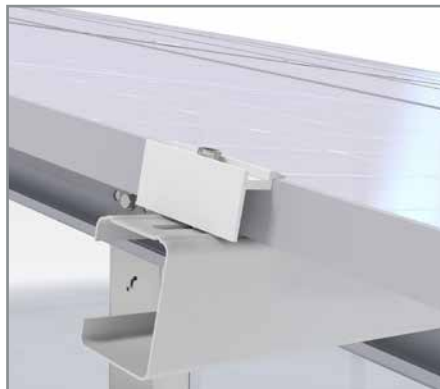
When using a module clamp (1), fastening is done via aluminium clamping profiles, which also serve as spacers between the modules. Here, too, a high assembly speed is possible by using threaded plates. In the case of a

direct screw connection (2), the assembly is carried out via the mounting holes of the module frame on the frame of the stand.

In both cases, the earthing of the modules is guaranteed via the steel frame.



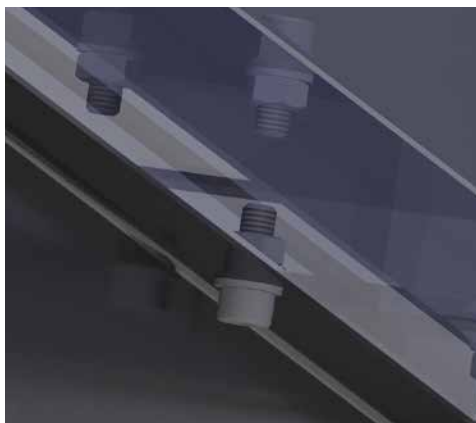
1) Module clamp



1) End clamp



Connection of beam to purlin



2) Direct screw connection pile to beam



# Steel systems - 100% Made in Germany

Project-specific steel profiles - our experience, your benefit!

We produce the individual steel components in project-specific mass production.

The strip-galvanised raw material is fed from large coils into the production's own punching unit, where individually defined perforations are made to rule out any possible mix-ups of the components on the construction site. This allows us to produce the assembly systems cost-effectively and deliver them to the construction site just-in-time.

The steel systems are anchored by steel piles driven into the ground or set in concrete.

In addition to our own production and static calculation, we offer:

- ✓ **100% Made in Germany**
- ✓ Inexpensive manufacturing costs
- ✓ Just-in-time delivery to the construction site
- ✓ Industrial production of the steel profiles enables rapid production of large quantities
- ✓ Optimised assembly times
- ✓ Favourable system prices
- ✓ Low weight of the substructure
- ✓ Reduced machine use
- ✓ Galvanising - optimally adapted corrosion protection for your projects

With our hot-dip galvanising plant, we can supplement our portfolio with the service of piece galvanising.

Benefit from German Engineering and Knowhow

Always keeping an eye on market trends, our in-house design and engineering team continuously develops the systems and reacts to the growing requirements and new needs of the industry.

With a good network of renowned soil experts, partner engineering offices and our many years of experience, we guarantee the economic efficiency, performance and durability of our solar constructions.

Whether a single- or double-axis system, whether a classic south-facing or east-west orientation, whether a horizontal or vertical module orientation: we offer individual substructures tailored to your project requirements, so that you can realise your project with the best possible cost-effectiveness.

**We have the perfect solution for your project!**







MEISER Straßenausstattung GmbH  
Edmund Meiser Straße 3  
D-66839 Schmelz-Limbach



+49 6887 / 9590 100



+49 6887 / 9590 169



solar@meiser.de



<https://solar.meiser.de>