



MKG GÖBEL

WE BUILD ENERGY

Since 1999

Mounting systems & service for solar parks –
from planning to installation.

MKG GÖBEL

WHO ARE WE?

MKG GÖBEL stands for mounting systems and service for solar parks – reliable, efficient and with responsibility for the project and the land. We develop, manufacture and realise solar park solutions that combine technical precision with clear processes.

WHAT DEFINES US

We don't just look at individual components, but at the entire process. From the first draft to the last screw.

WHAT DO WE DO?

We supply substructures for solar parks – modular, scalable and designed for real project requirements. Complemented by service packages that can be flexibly combined:

Plan – Deliver – Install – Cable

Your complete solution from a single source. This reduces interfaces in the project and significantly increases the quality of execution.

MKG GÖBEL in numbers

- Over 5 GW of installed capacity
- Over 25 years of experience
- Largest park 650 MW
- Over 1,000 projects realised worldwide
- 80–100 projects per year
- Steepest project 35°

WHAT IT'S REALLY ABOUT

Reliable systems.

Maximum project performance.

An experienced team – clear in execution, efficient in process, reliable in results.



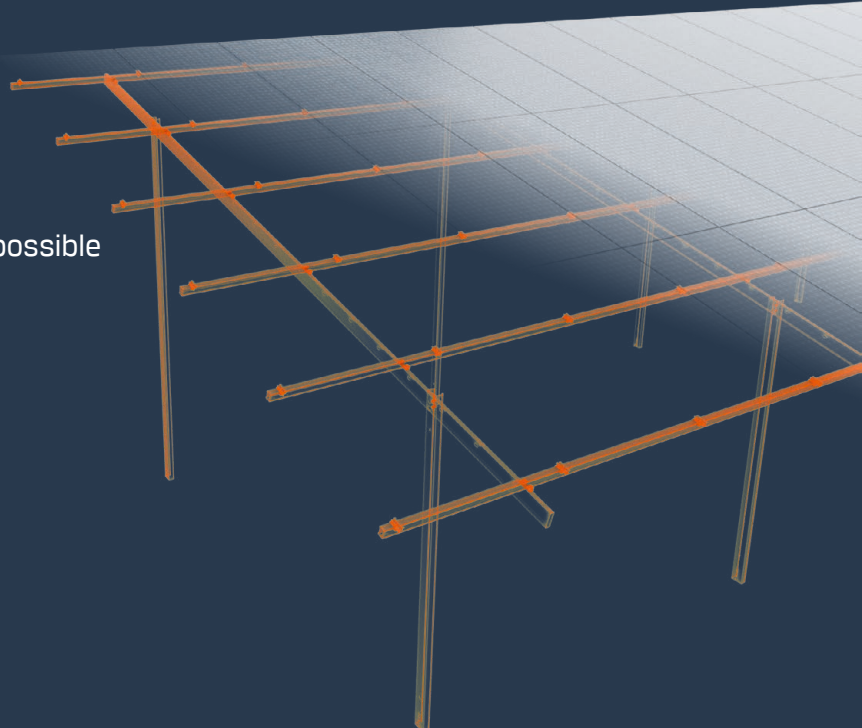


GMS® CORE

Profitability meets reliability

GMS® CORE is the vertically optimised system and impresses with maximum profitability, without compromising on stability and reliability.

- Economically optimised
- Closed, torsionally rigid profiles
- Suitable for uneven terrain - side tilt up to 15°
- Efficient assembly processes, reduced complexity
- Module fastening from below and above possible
- Open cable routing on the system



GMS® SCALE

Efficiency meets innovation

The innovative GMS® SCALE mounting system was developed from the ground up for maximum efficiency. Its design and the innovative ASSEMBLY 2.0 process make it the perfect solution for megaparks, compact layouts, and projects where maximum ground protection is essential.

- Bifacial-optimised design
- Closed, torsionally rigid profiles
- Suitable for uneven terrain - side tilt up to 15°
- Efficient module installation thanks to a 'slide in system'
- Fastening of the module clamps from above and below
- ASSEMBLY 2.0: Faster installation, higher efficiency, ideal for large-scale projects



GMS® DOUBLE

Double benefit meets maximum efficiency

GMS® DOUBLE is developed for projects in which available areas are used twice and yields are specifically optimised.

- Complies with DIN SPEC 91434
- High area efficiency
- Structural crop protection
- System height and clearance width flexibly plannable
- South & east-west orientation possible
- Additional options such as water management / insect protection

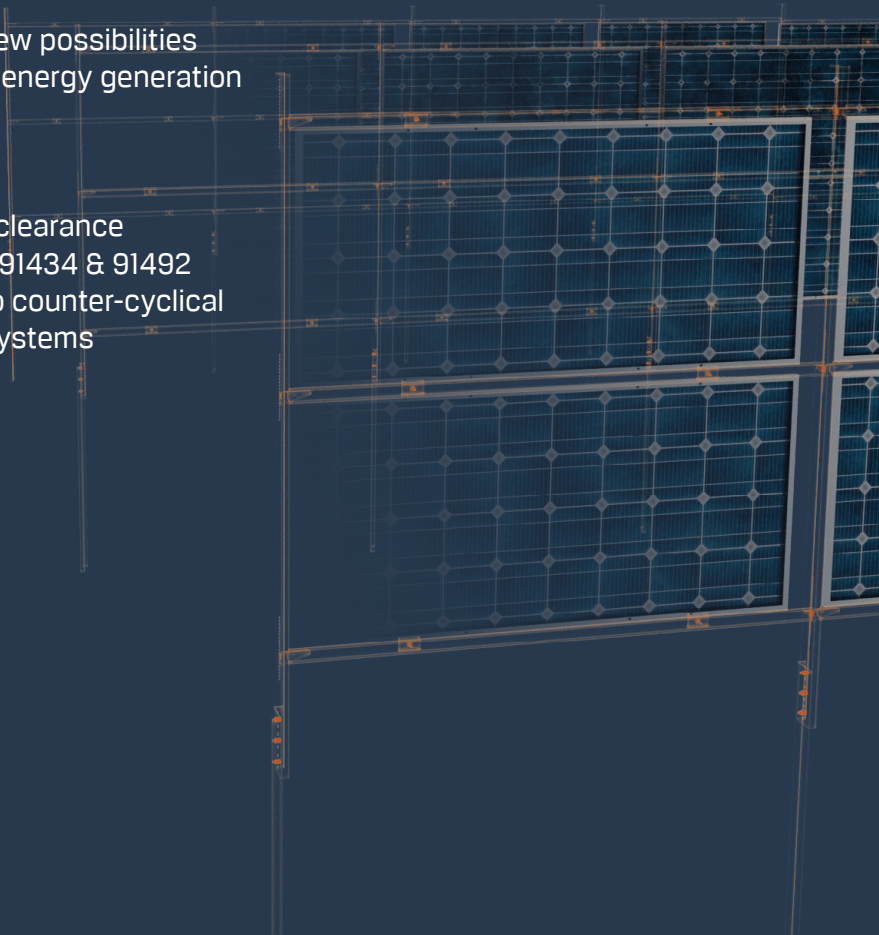


GMS® FENCE

Land meets energy

GMS® FENCE was developed specifically for vertical PV applications. This creates new possibilities for agri-PV and free field projects in which energy generation and land use are efficiently combined.

- Vertical PV system
- Ideal for agri-PV applications with large clearance widths of +7 m; complies with DIN SPEC 91434 & 91492
- Higher electricity market value thanks to counter-cyclical yield peaks compared to conventional systems
- Reliable module fastening
- Well-thought-out cable routing





GMS® SYSTEM



**MECHANICAL
ASSEMBLY**



DC INSTALLATION



EARTHWORKS



AC INSTALLATION

Package 1:

- Pull-out tests with ground survey
- Chemical soil analysis
- Project planning, incl. auditable structural report of the mounting system
- Delivery of the mounting system to the site

SERVICE 1**All services package 1, plus:**

- Unloading and distribution of material
- Ramming posts or laying foundations
- Installation of mounting system
- Installation of modules (without electrics)
- MKG GÖBEL site manager

SERVICE 2**All services packages 1+2, plus:**

- Stringing of module cables, connecting of plug pairs, etc.
- DC cabling up to inverter
- Mounting of inverter
- DC measurements/tests, incl. documentation

SERVICE 3**All services packages 1+2+3, plus:**

- Earthworks
- AC cabling + earthing
- Foundation work, BESS ready
- Set up of fences and gates

SERVICE 4**All services packages 1+2+3+4, plus:**

- AC connection of inverter
- Low-voltage connection
- Connection of sensors

SERVICE 5

SPECIAL APPLICATIONS

MEGAPARKS

While others talk about large solar parks, MKG GÖBEL has been building them for years. MKG GÖBEL has experience in realising megaparks of up to 650 MWp. With our own mounting systems and over 5 GWp of installed capacity, plus a team experienced across Europe, we have the structures that megaparks require: scalable systems, efficient processes and the ability to bring large projects safely to the finish line.

Because beyond a certain project size, it is no longer the individual component that determines success – but the interplay of logistics, installation, planning and experience. That is exactly where our strength is.

- maximum scalability
- high installation speeds
- plannable project workflows
- reliable execution
- a strong team that is used to handling large projects

MKG GÖBEL. The perfect partner for the EPC.



ASSEMBLY 2.0

Soil-friendly installation, maximum speed.

ASSEMBLY 2.0 stands for rethinking installation processes – with a clear focus on soil protection and project speed. Instead of major interventions, we rely on a solution that creates stability without destroying the subsoil. The result: sensitive sites become plannable projects – technically precise and economically efficient.

The principle

1. Prefabrication & sequencing:

Assembly units are prepared so that workflows remain constant.

2. Reduced soil impact:

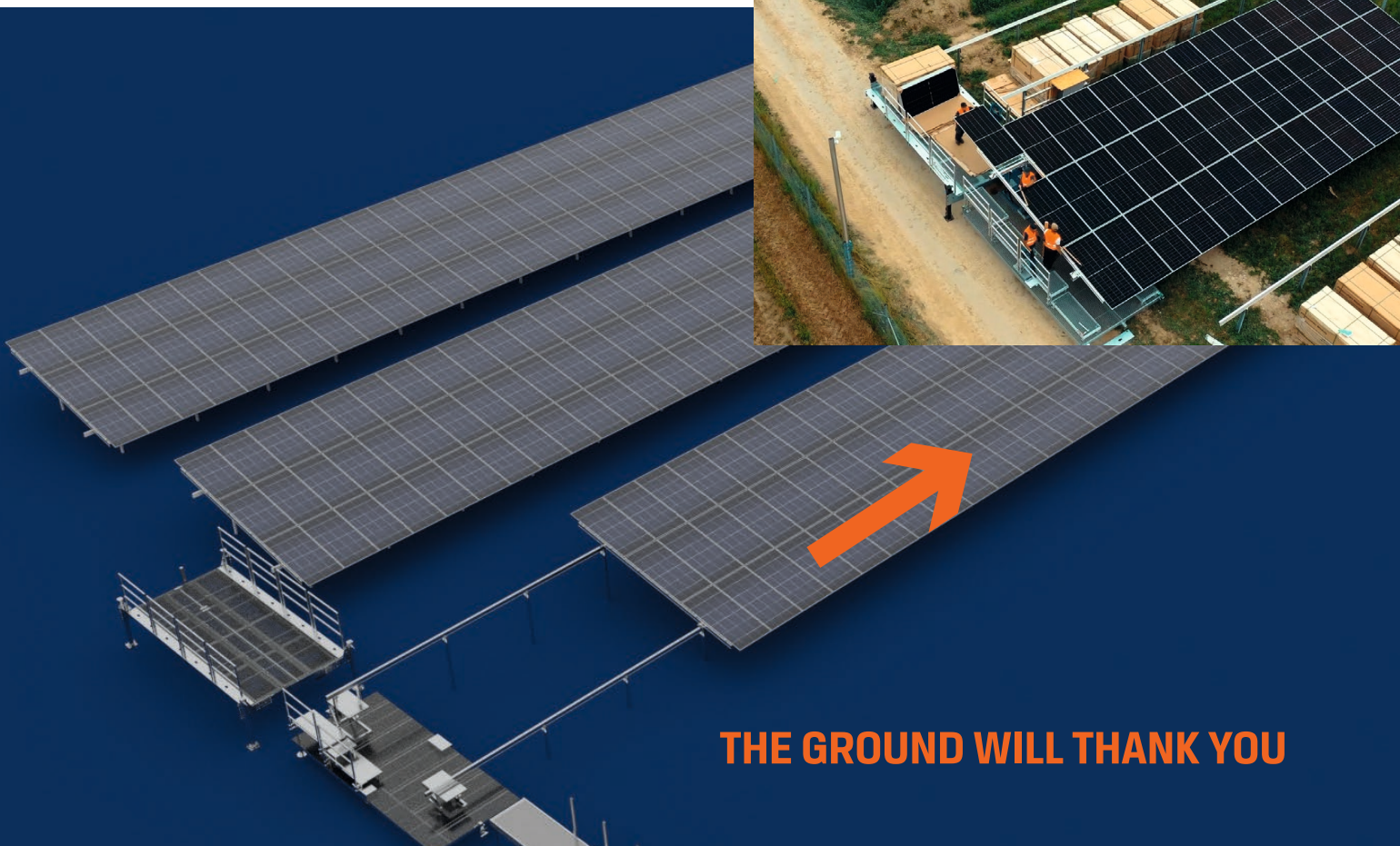
No unnecessary compaction, fewer tracks, less earthmoving.

3. Efficient execution:

Shorter distances, clearer logistics – faster to the result.

Highlights

- **Soil protection concept:** the ground remains intact – maximum soil conservation
- Ideal for **sensitive sites** (e.g. landfills, peatland, slopes)
- **Area efficiency** possible through narrower row spacing
- **Less logistics** and therefore lower CO₂ emissions
- **Plannable installation times** through clear process logic
- **Weather-independent installation**



THE GROUND WILL THANK YOU

1. LANDFILL SITES

Landfill sites can also be used economically with solar parks.

Some problematic issues here are the shallow depth of the cover layer, as well as the sensitive membrane which must not be damaged under any circumstances. With GMS® SCALE, MKG GÖBEL provides the ideal mounting system for such cases, having already constructed a large number of installations on landfill sites.



- Embedding depth of 40 – 80 cm, depending on the landfill site requirements and the depth of the restoration layer
- Slope-parallel installation possible, even on sites with varying slope angles
- Side tilting of up to 15° (slope-parallel or south-orientated)
- Above-ground cable routing possible
- The ASSEMBLY 2.0 process preserves the turf
- Erosion protection: erosion-resistant foundations, even water distribution
- Optionally, the system can be designed with split posts to retroactively compensate for ground settlements

2. PEATLANDS

In some cases, solar parks can be constructed in areas such as peatlands or wet meadows where special construction methods are required due to the ground conditions.

Here, too, GMS® SCALE offers a wide range of benefits:

- In cases where the peat layer provides no hold, it can be pierced through, with the foundation being laid in the firm underlying ground
- Design with split posts possible for huge pile-driving depths
- Posts with special coating as corrosion protection
- The ASSEMBLY 2.0 process preserves the turf
- Erosion protection: erosion-resistant foundations, even water distribution



3. SLOPE INSTALLATIONS

Thanks to their intense exposure to direct sunlight, slopes provide good conditions for photovoltaic systems, although sloped sites do present particular challenges.

Trust the experience and know-how of MKG GÖBEL:



- Soil investigation reports and 3D modelling, even for difficult terrain
- Planning: We design your system for maximum use of sunlight
- The flexibility of GMS® SCALE means that it can adapt to your terrain
- Mounting with specialist machines, e.g. slope pile driving
- ASSEMBLY 2.0 possible on slopes
- Worldwide project experience



4. AGRI PV

Combined usage: With raised PV modules, the land underneath can also be used, e.g. for agricultural purposes (crop production, farming). In addition, the system can be used in flood zones.

- Complies with DIN SPEC 91434 and 91492
- ASSEMBLY 2.0
- Standard height of lower edge: 2.20 m
- Height differences can be compensated by using the balancing rocker and split posts



MKG GÖBEL THE PERFECT PARTNER FOR THE EPC – WITH OUR OWN SUBSTRUCTURE

Feel free to contact us.

+ 49 (0) 79 41-6 49 20-0
info@mkg-goebel.de
www.mkg-goebel.de

