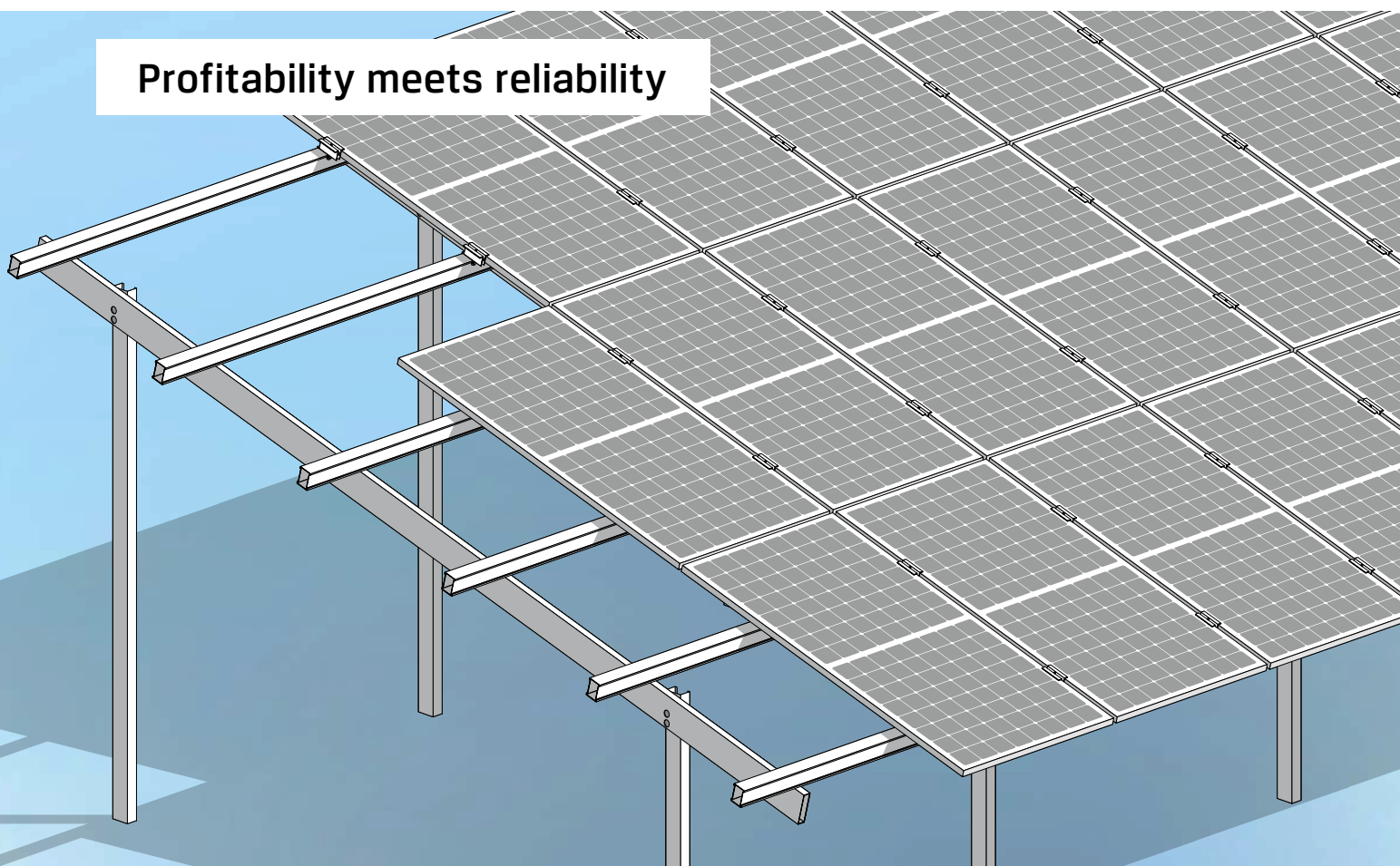


GMS[®] CORE



Profitability meets reliability



- / Maximum profitability
- / Maximum quality
- / Flexible application
- / Highest module loads

GMS[®] CORE

At MKG GÖBEL, quality, efficiency, reliability and flexibility are our DNA.

These values provide the backbone for the creation of our mounting systems, which are constantly opening up new areas. Our experience from numerous projects also lies at the heart of the GMS[®] CORE mounting system: an efficient design, robust and load-bearing, yet also extremely economically viable. GMS[®] CORE is the ultimate mounting system for projects with high load requirements, as well as those with high cost pressure.

GMS[®] CORE stands out for its strength and cost-effectiveness.

Vertical and horizontal beams on two rows of posts – this is all that's needed for a stable and efficient mounting system. GMS[®] CORE posts are made of heavy-duty steel profiles. The combination of torsionally rigid main and longitudinal beams with prefabricated holes is optimised for vertical module alignment (3V or 2V) and can be flexibly adapted to the ground conditions on site. The newly developed clamps provide optimum support and ensure a smooth installation process.

2

THE BENEFITS AT A GLANCE

/ Stable, optimised design

Sturdy design thanks to closed, torsionally rigid profiles, optimised for 2 or 3 vertical rows of modules.

/ Flexibility

Quick and easy adaptation to the ground profile directly on site: Our flexible balancing rocker allows the system to be tilted up to 15° to the side. Posts and clamps can be positioned as desired.

/ Suitable for all solar modules

GMS[®] CORE is compatible with all common solar modules.

/ Rapid and secure installation

The module clamps are delivered pre-assembled. Their anti-rotation, height-adjustable design ensures smooth installation; screw connection is from below.

/ Short shipping routes

Fast and climate-friendly delivery thanks to production in Europe.

/ Efficient care of greenery

The system avoids the need for obstructive bracing underneath, this ensures a maximum accessibility for greenery.

/ Outstanding material quality

Only materials of the highest grades are used: Posts are batch galvanised, main and long beams are made from steel with a zinc-magnesium coating, and mounting elements are made from stainless steel.

/ Secure structural engineering

Maximum structural safety thanks to project-specific static calculation according to the respective norms.

/ Long lifetime

Very high durability and long-term corrosion protection. Steel profiles made from high-strength grades.

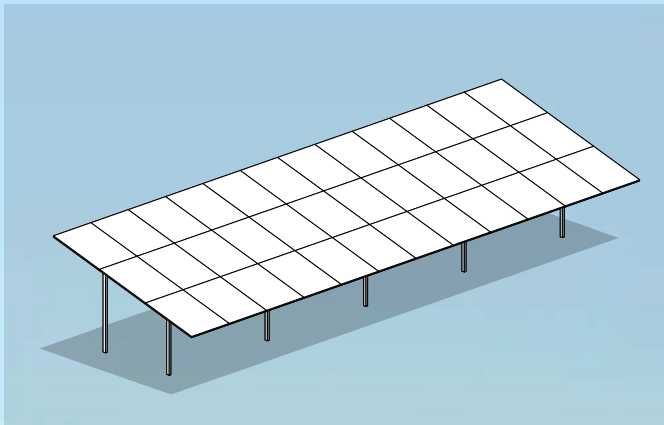
/ Standardised components

A small number of standardised components bring together simplicity and flexibility – allowing individual configurations to be implemented.

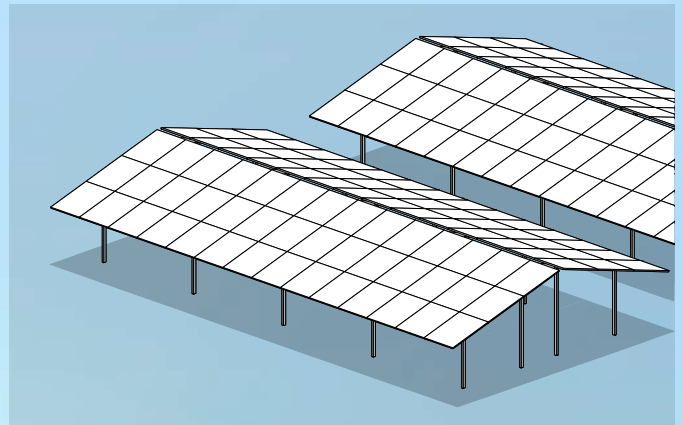
/ Open cable installation

Open, coordinated cable routing on the mounting system provides for maximum protection against heat build-up and water accumulation.

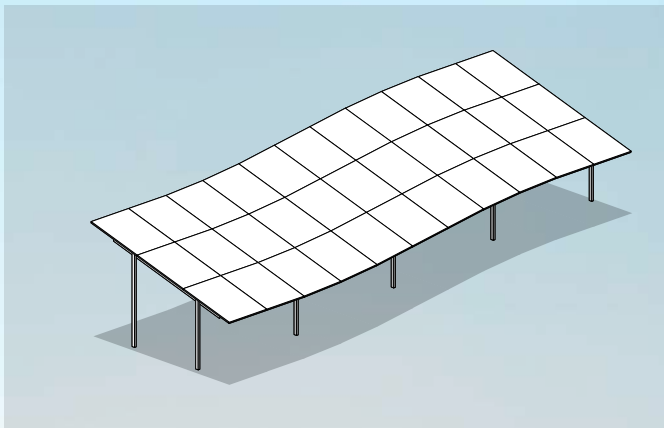
APPLICATIONS



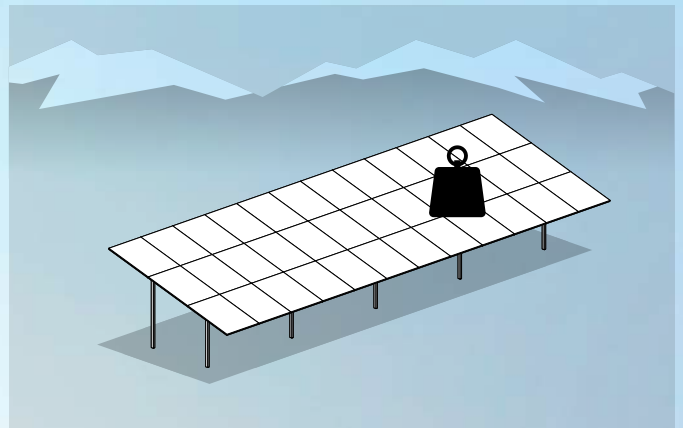
South-oriented systems, 2-4 vertical rows of modules



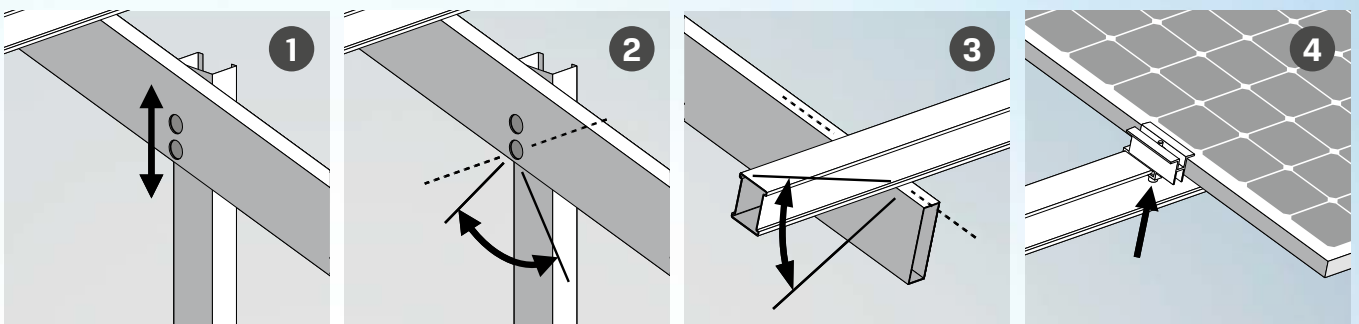
East-west systems vertical



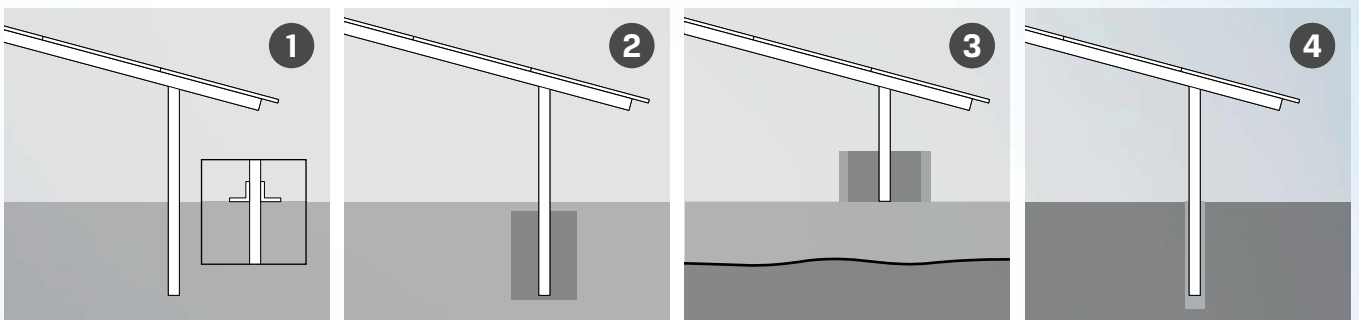
Adaptation to the ground profile



Perfect for heavy loads, e.g. caused by snow



① Height adjustment; ② Stepless inclination; ③ East-west rocker; ④ Module fastening from below

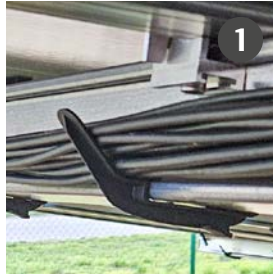


Suitable for every ground type thanks to various foundation options:

- ① Rammed post foundation (also with load distribution plates),
- ② concrete incast foundation,
- ③ ballast foundation (e.g. for limited anchoring depth),
- ④ drill-holes (in rocky ground)

ACCESSORIES

- ① Cable holder for cable routing along long and main beams
- ② Cable routing between east-west rows
- ③ Bridging strap for potential equalisation between the tables
- ④ Earthing plate (optional)
- ⑤ End caps for long beams
- ⑥ Bracket for string inverter or string combiner boxes (SCB)
- ⑦ Bite-protection cage made from double bar mesh
- ⑧ Mowing protection



TECHNICAL DATA

Foundations

- Rammed posts
- Concrete incast foundation
- Ballast foundation
- Drill-holes (for rocky grounds)
- Load distribution plates

Design

Modular system with only 3 main components

Materials

- Posts: Hot-dip galvanised steel (galvanised individually – EN ISO 1461, alternatively zinc magnesium ZM620)
- Main and long beams: Steel S550; surface ZM430
- Mounting elements: Stainless steel or hot-dip galvanised steel ZnNi

Structural analysis

Project-specific in accordance with Eurocode DIN EN 1991, DIN EN 1993, DIN EN 1999, wind tunnel test, CC2, load return period 50 years

Module installation

Vertically 2–4 modules on top of each other

Module tilt angle

Flexible tilt angle
Standard: 10° to 20° (other angles upon request)

Adaptation to site

North/south slope: up to ± 35° (other angles upon request)
East/west slope: up to ± 15° (using balancing rocker)

Subject to technical modifications

MKG GÖBEL

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Certified in accordance
with DIN EN ISO 9001:2015



Workplace-protection certified
ISO 45001:2018 and SCC



S ICHERHEITS
C ERTIFIKAT
C ONTRAKTOREN