

TRIC Mounting Systems

Fast, clever, versatile



TRIC



From the first passive-house office building in Europe to energy self-sufficient production, we have shown for more than 40 years how innovative energy concepts can be successfully implemented for ecological building management.

Power. Heat. Future

As first hour solar pioneers we have collaborated successfully with the sun since 1979. We are a one-stop systems supplier and offer solar power, solar heat, mounting systems and sustainable energy technology solutions with a constantly expanding international distribution network.

Own design and production

Designing solar mounting system requires the highest engineering and quality standards. They must ensure firm and durable attachment of solar modules or collectors even under the most adverse conditions.

We have designed and produced high performance mounting systems with optimally meshed and fine tuned components for more than 40 years. Our versatile systems suit any application.

Economical and safe

Coherent designs and smart detail solutions simplify and speed up installation. Safety is key.

Progressing together

We supply mounting systems for private users, public facilities, commercial enterprises and investors. We deliver installations of outstanding quality at the best value-for-money ratio, aiming to contribute substantially to the energy transition.

WAGNER SOLAR GMBH

1979	Wagner & Co Solartechnik GmbH established
2014	Wagner Solar GmbH
150	employees
Partner	for solar power, solar heat, mounting systems and energy technology
Sales	through a network of professional installers



Germany's best solar technology 2021



Entrepreneur of the year 2011



Outstanding responsibility

TRIC F duo for conventional flat roofs

Aerodynamically optimized flat-roof racking system with reduced additional roof load. Compact design, no fastening to the roof construction required.



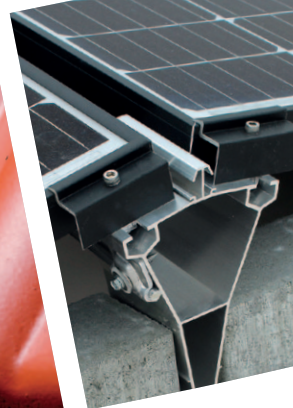
Greenfield mounting systems TRIC flex one/four

Universal mounting system for ground mount installation. Highly flexible, low system costs, fast installation.



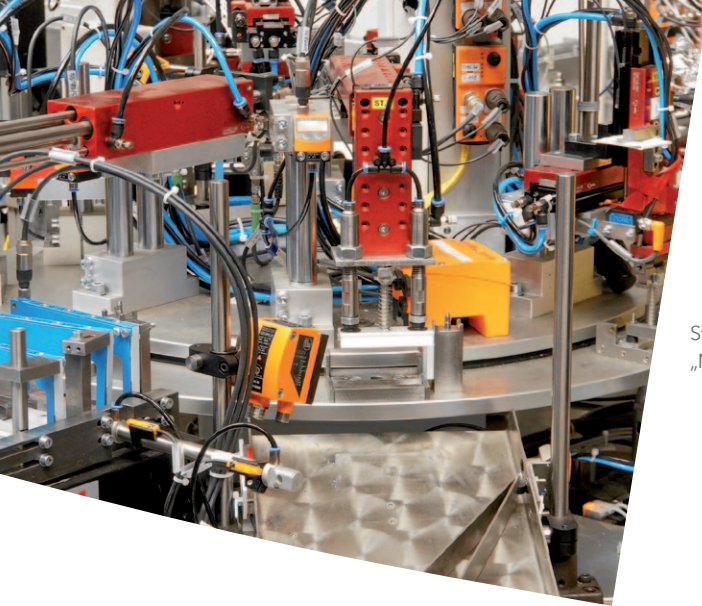
TRIC F - Innovation on highest level

Free standing set-up of solar panels or solar collectors on almost any type of even or sloping surfaces. Structurally optimized and easy to handle because collapsible.



TRIC A - universally applicable

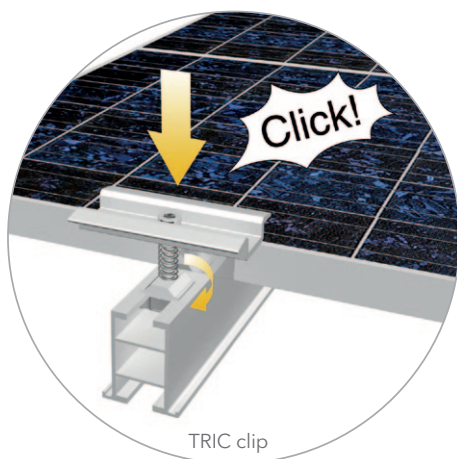
The roof racking system offers varied solutions for all applications. Pre-assembled components and a sophisticated system concept assure rational and safe installations.



State-of-the-art manufacturing
„Made-in-Germany“

Module Clamps TRIC clip / TRIC eco

For solar modules



Simple, fast and safe

The innovative TRIC clip module clamp and the cost-effective TRIC eco variant are the optimal solution for efficient and time-saving module installation. The module clamps are suitable for all common module types and meet the highest demands on design, quality and efficiency.

Save time and money

The module clamps can be easily placed in the mounting rail without any tools. A flick of the wrist, a tactile clicking signal, and TRIC clip/TRIC eco safely finds itself in the right position, while it can still be moved if required.

Patented design

The ingenious construction is manufactured in Germany. The patented TRIC clip has received general approval from the German Institute for Building Technology (DIBt), (approval number: Z-14.4-729).



Video TRIC clip

For TRIC on-roof and free-standing mounting systems

TRIC clip for all HDC/LDC/SDC/
MLC/HL racking rails.
TRIC eco in combination with
TRIC eco racking rails





On-Roof Mounting System TRIC A

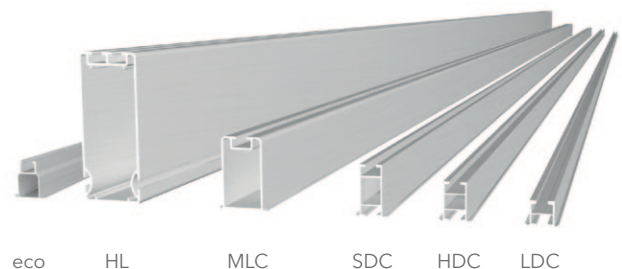
For solar modules

Install anywhere

A system for placing solar modules on nearly all roofs. High quality materials, smart detail solutions and system coherence assure fast, rational and safe installation.

Smart components

High-quality HDC or eco aluminum racking rails allow for free rail length of up to 1,85 m between roof brackets. Ready made rail connectors with gap keepers enable problem-free installation in any situation. We supply roof anchors and brackets for all common roofing materials and tiles.



Ready to install

All system components are pre-assembled and delivered with fastening materials. They can be customized and tailored for specific installations. Components for potential equalization complete the system.



Install from above

Adjustable roof brackets for all common roofing and tile types ease installation. Rails are affixed from above.



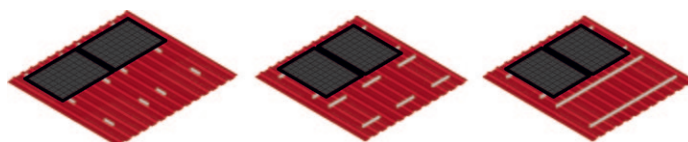
Video TRIC A



TR Fix with short mounting rails

Roof Bracket System TR fix

For solar modules



Rapid mounting on shed roofs

Depending on project requirements, it is possible to either work with long, continuous rails or with short rail segments. In combination with the patented TRIC clip module clamp, mounting with TR fix becomes child's play.

Two safe fastening variants

Depending on the trapezoidal sheets' properties and the structural conditions, sheet metal screws or rivets are recommended. They establish a secure connection to the roof structure.

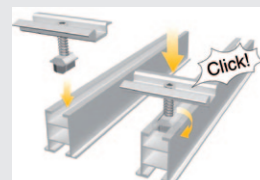
Economic system pricing

For each application case the most economic solution is chosen. Low material costs and short installation cycles combine into highly attractive systems pricing.



Simple and safe installation

The patented TRIC clip module clamp also ensures fast and safe mounting of the modules in the TR fix system.





Flat Roof Mounting System TRIC F

For solar modules

Innovation on highest level

The TRIC F system impresses with high quality materials, smart detail solutions and a coherent overall concept. During the development of the TRIC F mounting system, particular emphasis was placed on versatile mounting options. Be it a flat roof, a pitched one or complex demands - such as slanted positioning on pitched roofs - none is a problem.

Less is more

Consistently fine tuning and matching the individual components allowed the creation of a structurally optimized lightweight system with outstandingly low material requirement.

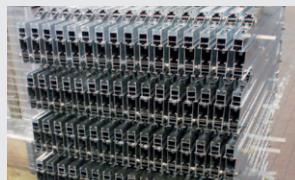
Flexible installation angle

With the systems TRIC F 15, 30 and 45 angles from 15° to 60° can be set steplessly. The modules are mounted horizontally. The system is also ideally suited for green roofs. The TRIC F Q system allows stepless inclination angles of 18° - 43° for vertical module mounting.



Folded

The racking triangles are delivered folded up. That saves space and costs, easing transportation. At the installation site they are simply unfolded.



Video TRIC F



Flat Roof Mounting System TRIC F duo

For solar modules

Low system costs

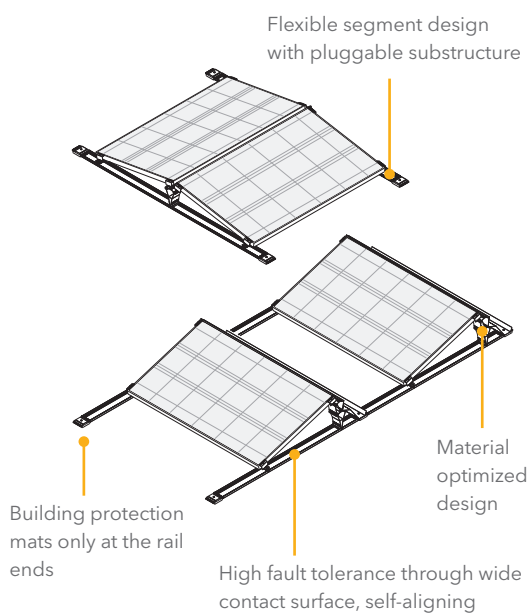
A highly flexible and compact mounting system for all conventional flat roofs. The sophisticated system convinces with low material use and easy assembly. The material-optimized, intelligent design cuts costs in three ways: the use of materials, during transport and during installation.

Easy and fast installation

Short rail lengths facilitate handling. The flexible, pluggable and segmental design is self-aligning, adapts to all substrates and surfaces and also forgives uneven roofing. Only one system for southern (10°/18°) and east-western (10°) mounting.

Lightweight design

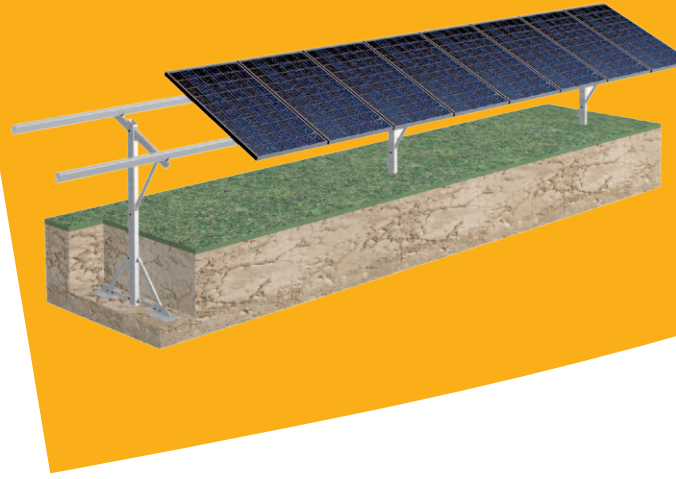
Thanks to the low ballast the additional roof load is reduced (from 5 kg/module). Building protection mats are only required to cover the rail ends.



Penetration-free installation

The system is outstandingly suitable for flat roofs with little load reserve or when no roof penetration is feasible or desired.





Greenfield Mounting System TRIC flex one

For solar modules

Ground mount installation gets as easy as it can be

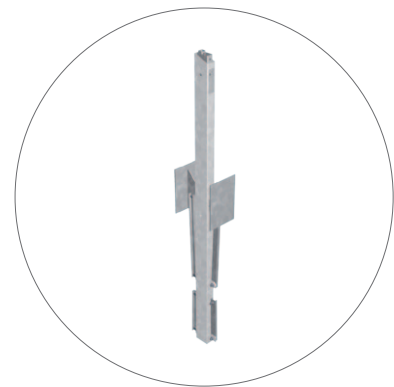
TRIC flex one is the ideal mounting system for smaller ground-mounted systems. The folded post elements supplied are already pre-assembled and merely have to be unfolded and assembled on site. A ground survey is no longer required.

No additional foundation

No additional foundations are required for installation and no ramming is required. The post elements are simply placed in an excavated pit and aligned. The pit is then filled and compacted in layers.

Modular extension, low system price

The system size can be flexibly scaled by modular extension. The overall system price is very attractive, as complex planning and extensive construction work are no longer necessary.



Variable pitch

The TRIC flex one pitch is adjustable in increments of 5° from 15° to 40°.





Greenfield Mounting System TRIC flex four

For solar modules

System costs down, revenues up

The high-quality outdoor system made of seawater-resistant aluminum and stainless steel reduces your system costs for material, transport and installation times.

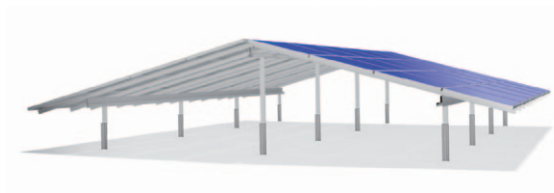
Flexible adjustment - short installation time

Whether as South or East-West variant: with its module angle between 0 and 35° and terrain slopes up to 20° TRIC flex four is the perfect system even for difficult terrains.

In comparison to common systems, TRIC flex four allows you to save up to 50% installation time, saving considerable labor costs - in part due to our patented module fastener TRIC clip.

Low transportation costs

In particular for international projects, transportation costs are a decisive factor. Transporting the material and weight optimized aluminum system is roughly 30% cheaper than a comparable steel system.

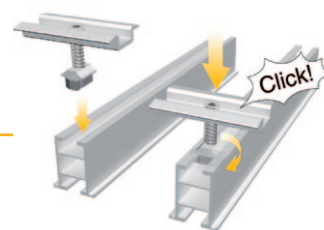


4 modules horizontally one above the other, 12 module side by side per table

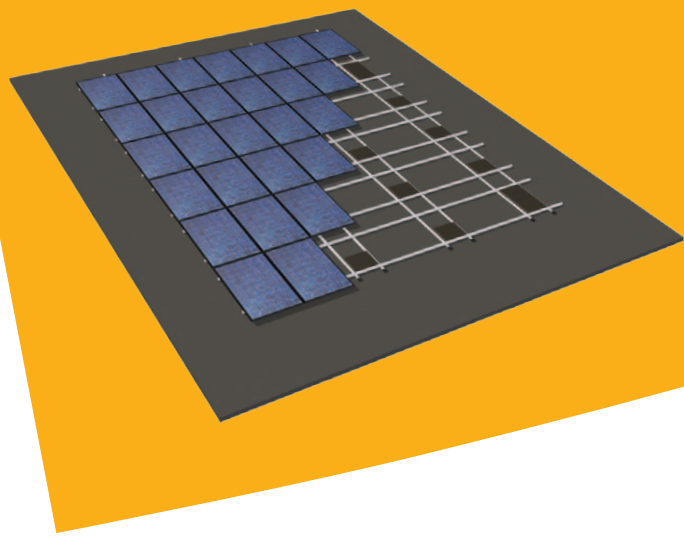
Mounting angle adjustable from 0 bis 35°

Terrain sloping up to 20° in all directions possible

Grounding options: sigma profile, drill foundations, steel roots, concrete foundations



TRIC clip module fastener



Ballasted Pitched Roof Mounting System TRIC B

For solar modules

For foil and trapezoidal roofs

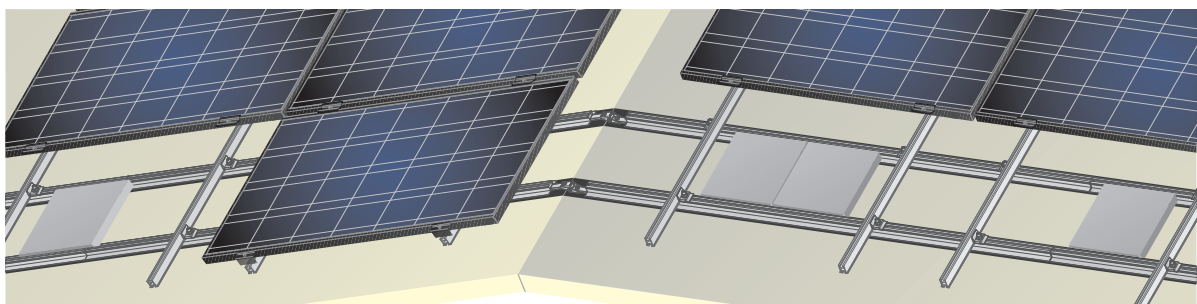
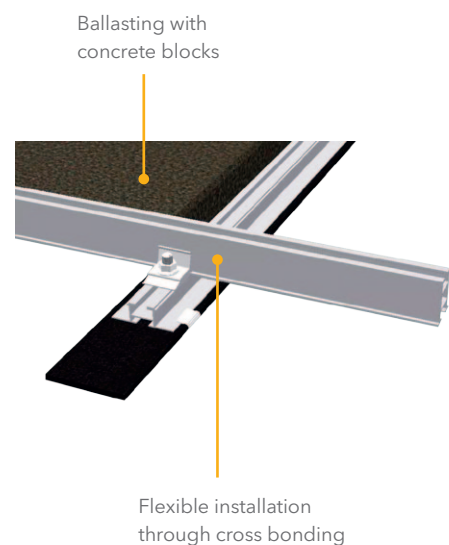
TRIC B was specially developed for pitched roof mounting on foil or trapezoidal roofs. The system is suitable for roof pitches of 5° - 15°.

Mounting in south- or east-west orientation

The installation is very simple by means of ballasting with concrete blocks. A wind load assessment optimizes and reduces the load.

Optionally horizontal and vertical format

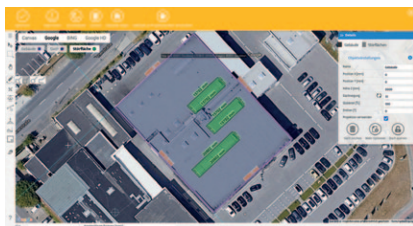
By using a cross bonding of TR Fix and HDC rails, the system can be used for both horizontal and vertical module installation. Patented TRIC clip module clamps simplify and accelerate installation.



Thanks to the innovative ridge coupling, the TRIC B east-west system does not require roof penetrations



PV Design Software SUNOptimo



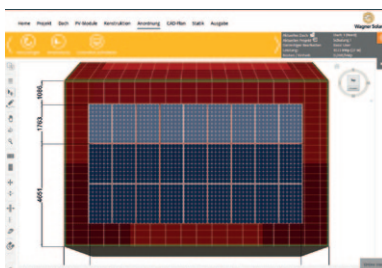
The design tool SUNOptimo allows you to implement your solar power projects quickly and easily: from initial design over yield prognosis and cost benefit calculation all the way too the ordering in our onlineshop.

Ease of use

The desktop is self explanatory, guiding you step by step through the planning and design process. Software or update installation are not required.

Roof designer

In each project, any number of roof surfaces can be individually designed and planned with mounting systems. Draw roof surfaces easily with the Map Drawer function based on of Google Maps/Bing Maps. Structural details and the required ballasting can be displayed graphically and textually representable.



Yield prognosis

Simulation provides you with a plant-specific yield forecast, also including storage systems, special load load profiles or consumers.

Project management

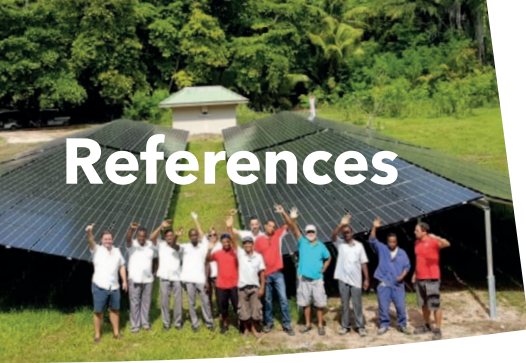
All designs can be saved in projects, documented and output in a selectable scope. Roof views as top view or 3D view are possible.



ERP

During project processing you can always see your current purchase prices. You can transfer parts lists to our online shop and place the order there.

References



Free standing mounting system TRIC F

Solar power system (89,7 kWp) on a kindergarden in Oslo, Norway



Greenfield mounting system TRIC flex four

Solar power plant (57.6 kWp) on a farm in Estonia



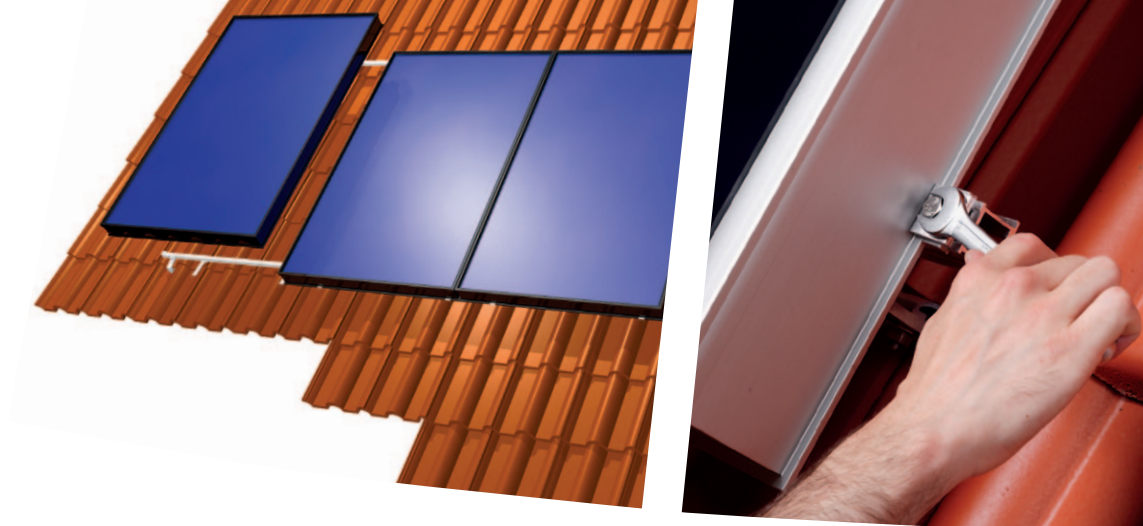
On-roof mounting system TRIC A

Solar power system (4.8 kWp) on a residential building in Marburg, Germany



Flat roof mounting system TRIC F Duo

Solar power system (1.3 MWp) on an industrial roof in Rohrbach, Austria



On-Roof Mounting System EURO TRIC A

For solar collectors

The right hold on all roof types

EURO TRIC A is the perfect mounting system for on-roof mounting of solar collectors. A broad range of roof brackets enables attachment of collectors to almost any roof type. Installations on roofings with plain tile, corrugated iron and troughed sheeting are possible without any problems.

Simple TOP installation

All fastening elements for the collector installation are easily accessible from above. This simply brilliant TOP fitting concept saves you precious time.

Pre-assembled and safe

Pre-assembled components ensure simple, fast and safe installation. The roof brackets come fitted with the clamps for the collector rail and collectors.

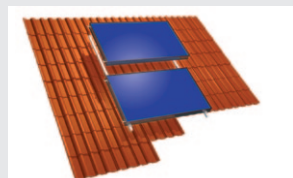
If required, we also carry out a project-related structural configuration.



Video EURO TRIC A

Variable collector array

The solar collectors can be mounted either in portrait format next to each other or in landscape format on top of each other.





Free-Standing-Mounting System EURO TRIC F

For solar collectors

Free-standing for all

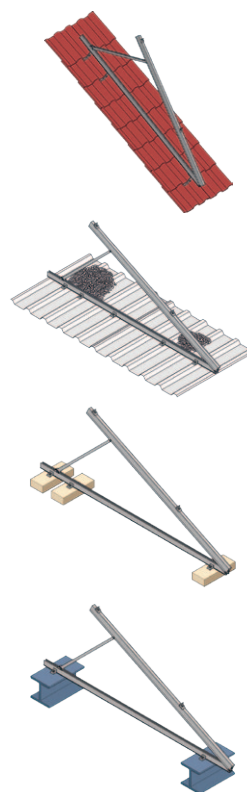
With EURO TRIC F the solar collectors can be mounted on all common flat or sloping roof types. Whether steel beam constructions, metal roofing, roofs with tiles or fixing to concrete blocks, a safe and time-saving installation is always possible.

Preassembled mounting triangles

The mounting triangles consist of highly stressable aluminum profiles and are completely preassembled. They are delivered folded down, saving space and costs and facilitating transportation. On location they are simply opened up to the desired angle of inclination and bolted.

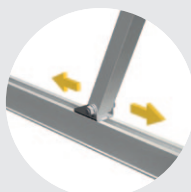
Less is more

Consistently fine tuning and matching the individual components allowed the creation of a structurally optimized lightweight system with outstandingly low material requirement.



Steplessly adjustable angle of inclination

The EURO TRIC F system allows free-standing installation in vertical and horizontal format. In the 35° - 50° range, the angle can be set quickly and steplessly.



Video EURO TRIC F

Certified quality

Certified components

Safety is our top priority. We pay attention to the best possible material quality and careful processing. All components are structurally optimized and TÜV certified. In addition, they are subjected to extensive material and safety tests before they receive our market approval.

Ten years warranty

We are convinced of the quality of our products, therefore we give a warranty of 10 years on the function and durability of the TRIC mounting system components.

We support you

We offer you the best system solutions for your project and support you in planning and structural design.



Wagner Solar has a constantly expanding international distribution network.

