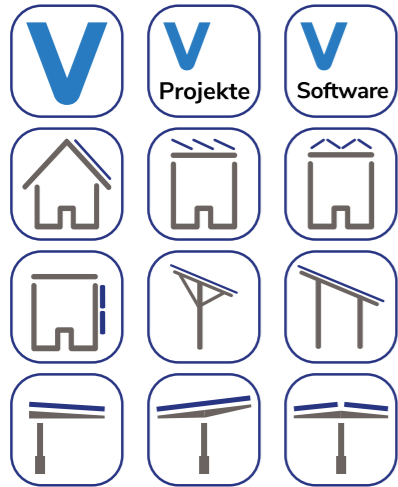


varista[®]



MOUNTING SYSTEMS
PRODUCT CATALOGUE

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We grant you

on our innovative products a
product guarantee of 12 years

varista®

The Company



Foreword

Future with solar power

Experience meets innovation

With many years of experience and extensive knowledge in the field of solar energy, we offer our customers high-quality, future-orientated products.

Standard solutions and ideas

varista® supplies customised mounting systems with high flexibility, easy handling and outstanding structural quality. The varista® mounting system always stands for absolute safety.

Pulser

With numerous innovations from our development department, we are constantly providing new impetus and have been further developing solar technology for more than 20 years. The varista® mounting system, for example, has been honoured with the Bavarian Innovation Voucher.

Continuous progress

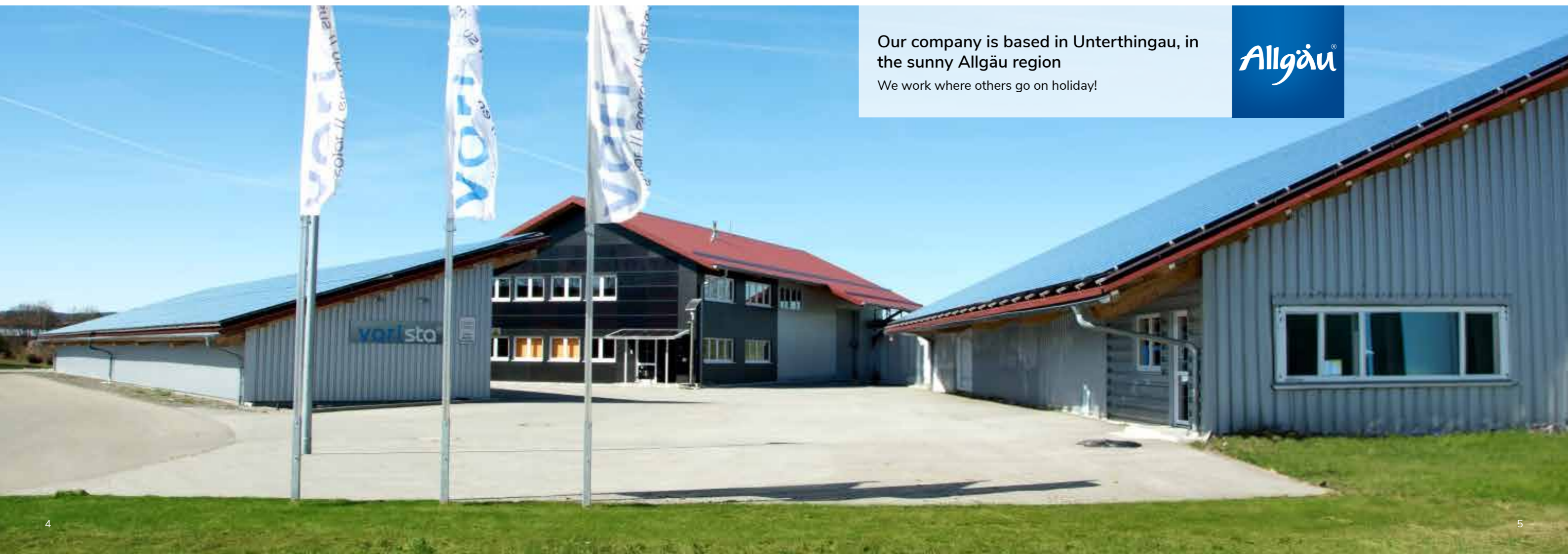
We continue to develop the varista® mounting system to this day. We now also offer new components for energy management. All in line with our vision of environmentally friendly and resource-saving energy generation.

My promise to you

We will supply you with excellent and innovative products for a green future.



Walter Fleschutz
CEO varista® GmbH



Our company is based in Unterthingau, in the sunny Allgäu region

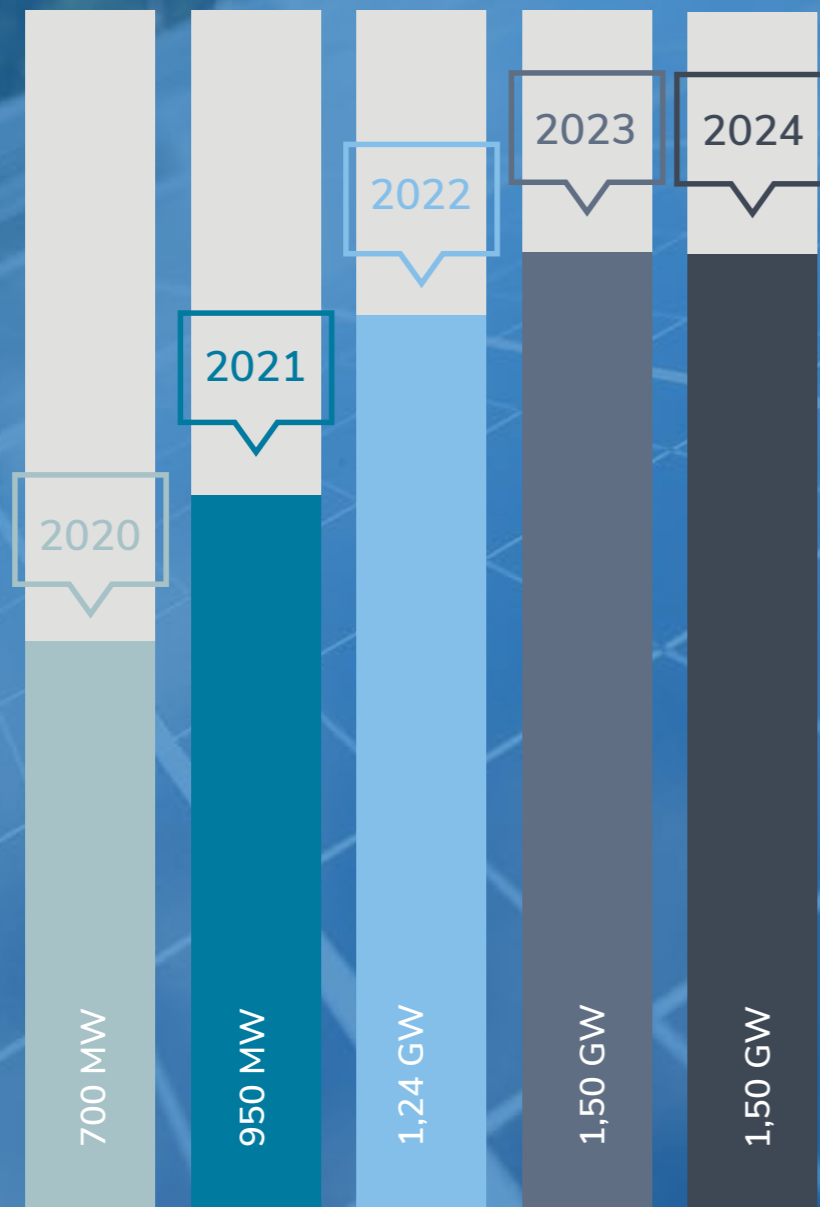
We work where others go on holiday!





The company in numbers

Growth in delivered quantities in recent years



Owner-managed company



Company foundation
2007



Employees
45



Supplied countries worldwide
10



Own vehicle fleet enables flexible and fast delivery



Large warehouse with storage spaces
2000



Configurator

Secure & fast project planning in the digital workflow

The varista® configurator provides the user with a tool that guides you through all the necessary planning steps. The varista® pro.tool enables a rule-controlled configuration of the roof with the substructure. The automatic module and inverter design saves time and allows you to minimise the planning effort.

Thanks to the 2D and 3D colour views, all relevant system views can be made available to the customer. varista® pro.tool is simple and efficient in planning.

varista® pro.tool simple and efficient in planning.



1. varista® Planning sheet

Fill in all relevant data digitally and directly at the customer's premises.

The following information for your planning:

- Location
- Construction form and house type
- Roof cover
- Roof dimensions and pitch
- Rafter or purlin roof?
- Sketches, shading, chimneys ect



Fast project planning directly on site

2. varista® pro.tool

- Roof planning, the roof layout is created in the digital workflow using the planning sheet
- Wind and snow loads are automatically stored in the location profile
- Standardised design of the varista® mounting system
- Module allocation, common modules can be selected using a database
- System visualisation in 3D
- Project planning report for each completed project, including structural analysis report

3. Create a connection

Thanks to the digital connection to ERP systems, the project bill of materials can be sent easily and digitally.

This saves time and costs with every order

System overview

varista® Mounting systems



Roof connections	tiled roof	Plain Tile	Trapezoidal sheet	Sandwich-trapezoidal sheet	Corrugated sheet
Roof Hook					
VSM	●	-	-	-	-
VS-PLUS	●	-	-	-	-
VS	●	-	-	-	-
VS Alu	●	-	-	-	-
Plain Tile	-	●	-	-	-
Hanger bolts					
Hanger bolts	-	-	●	-	●
Standing seam clamps					
VA-clamps	-	-	-	-	-
E-clamps	-	-	-	-	-
Z-clamps	-	-	-	-	-
B-clamps	-	-	-	-	-
Trapezoidal sheet rails					
ULF 3.0	-	-	●	●	-
Ultralight	-	-	●	●	-
Roof connection foil roofs					
Foil roof	-	-	-	-	-
Bitumen roof	-	-	-	-	-
Flat roof systems					
Aero Twice Rail	-	-	-	-	-
Aero Twice Rail light	-	-	-	-	-
Aero Just 2.1	-	-	-	-	-
Aero Twice 2.1	-	-	-	-	-

Standing seam roof	Bitumen	Foil roof	Flat roof south	Flat roof East-West	Page
-	-	-	-	-	16
-	-	-	-	-	18
-	-	-	-	-	19
-	-	-	-	-	19
-	-	-	-	-	20
-	●	-	-	-	21
●	-	-	-	-	22
●	-	-	-	-	22
●	-	-	-	-	22
●	-	-	-	-	22
-	-	-	-	-	23
-	-	-	-	-	23
-	-	●	-	-	20
-	●	-	-	-	20
-	-	-	-	●	37
-	-	-	-	●	37
-	-	-	●	-	38/39
-	-	-	-	●	38/39



Effective utilisation of
roof surfaces



The varista® mounting systems are used in the field of photovoltaics and solar thermal energy. The highest quality and efficient installation are our top priorities during development.

Our customers include project planners, wholesalers and specialised tradesmen throughout Europe. Characterised by our company location, we specialise in extreme weather conditions.

Our products fulfil all requirements up to snow load zone IV and high wind loads. Our customers are provided with all important data and information during the planning process.

Our planning software guarantees the fast and needs-based realisation of all your projects.

The advantages of the varista® mounting system at a glance

The varista® mounting systems are solutions with maximum safety and functionality and are ideal for all areas.

WE ARE **VARIABLE**
& **STABLE**

System advantages:

The special feature of the varista® mounting system is the standardised channel system with which all varista® profile rails are equipped. This means that all components are compatible with each other.

- Thanks to our blue mounting clip, the centre, end clamps and roof hook are mounted with a single click.
- The blue mounting clip can be moved again and again after pre-assembly. This guarantees simple installation without the hassle of hooking and clamping (aluminium on aluminium / steel). The system is only finally fixed in place when the system screw is tightened.

*We are glad to support and accompany your project from planning to commissioning.
- Talk to us, we will be happy to advise you -*



varista® solutions for safe roof surfaces

The most important components in the mounting system.

The varista® roof connections are equipped for all eventualities. There's no such thing as impossible.

Do you have a project? We have the right mounting solution.

varista® roof connections
- Variable and stable in all positions



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VSM-Roof Hook

VSM

The VSM roof hook was specially designed for combination with metal replacement tiles and offers the perfect connection of a photovoltaic system on a pitched roof with tile covering without tile preparation (flexing). This is an immense time saver and, above all, there are no problems with tile breakage and warranties.

During installation, a tile is removed from the roof and replaced with a metal replacement tile. The VSM roof hook is then attached to the rafters. The EPDM tape already glued to the underside of the VSM roof hook also provides excellent protection for the metal replacement tile underneath.

VSM-FVZ vertical 6 x 35		Art. No 11925
Neck height:	38 mm - 50 mm, preset to 38 mm	
Material hook:	Steel S460 hot-dip galvanised	
Material Base plate:	Steel S460 hot-dip galvanised	
Connecting elements:	Bolt M10 x 25 and stainless steel nut M10 A2	
Other:	EPDM tape glued to the underside of the hook neck	

VSM-ES vertical 6 x 35		Art. No 12434
Neck height:	38 mm - 50 mm, preset to 38 mm	
Material hook:	Stainless steel 1.4016	
Material Base plate:	Stainless steel 1.4016	
Connecting elements:	Bolt M10 x 25 and stainless steel nut M10 A2	
Other:	EPDM tape glued to the underside of the hook neck	

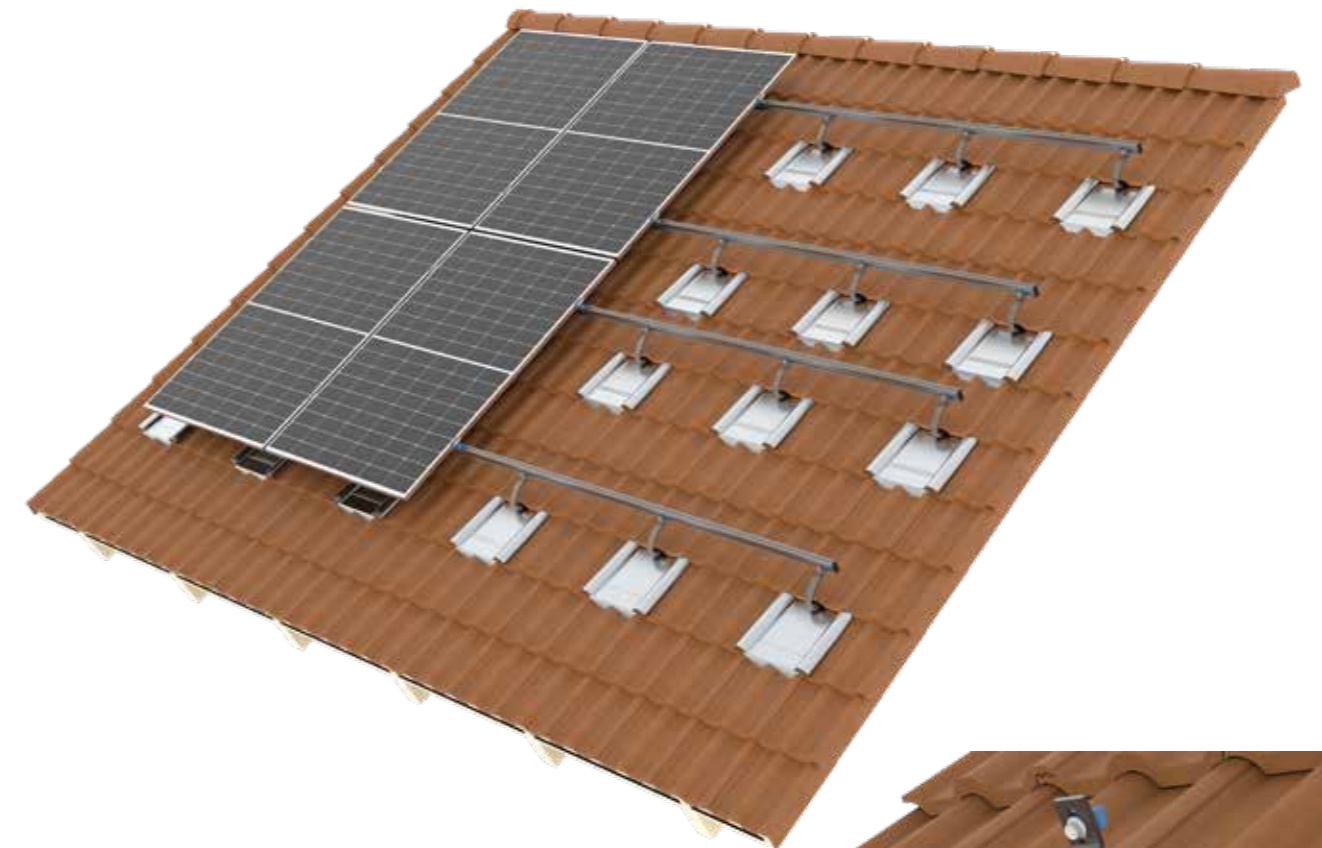
Advantages at a glance: VSM roof hooks

- Specially developed for on-roof tile installations with metal replacement tiles
- Variable neck height of 38-50 mm for even more flexibility on the roof
- No flexing, hammering or machining of the roof tiles
- No damage to the roof tiles
- Up to a third faster installation time
- No sanding dust from flexing on the construction site
- Adapters for mounting rails from other manufacturers available

Successful without flexing, thanks to the combination of VSM roof hooks and metal replacement tiles

The technically correct combination

With VSM roof hooks & metal replacement tile for installation without flexing



Thanks to the varista® VSM roof hook in conjunction with the metal replacement tile, there is no need for flexing, so rain penetration resistance is guaranteed.

You can find more information on the metal replacement tile in our separate catalogue.

VS-PLUS

The varista® VS-PLUS roof hook is the further development of the varista® VS series and is suitable for tile roof installations with large-format roof tiles. Thanks to its extra-long hook neck, a photovoltaic system can also be installed on roof-top systems with large-format roof tiles without the use of metal roof tiles.



VS-Plus
in steel and stainless steel

VS-Plus-ES vertical 8 x 35		Art. No 11752
Neck height:	38 mm - 50 mm, preset to 45 mm	
Material hook:	Stainless steel 1.4301	
Material Base plate:	Stainless steel 1.4016	
Connecting elements:	M10 x 25 bolt and M10 A2 stainless steel nut	

VS-Plus-FVZ vertical 8 x 35		Art. No 11923
Neck height:	38 mm - 50 mm, preset to 45 mm	
Material hook:	Steel S460 hot-dip galvanised	
Material Base plate:	Steel S460 hot-dip galvanised	
Connecting elements:	M10 x 25 bolt and M10 A2 stainless steel nut	

VS-Plus-ES vertical 6 x 35		Art. No 11753
Neck height:	38 mm - 50 mm, preset to 45 mm	
Material hook:	Stainless steel 1.4016	
Material Base plate:	Stainless steel 1.4016	
Connecting elements:	M10 x 25 bolt and M10 A2 stainless steel nut	

VS-Plus-ES-FVZ vertical 6 x 35		Art. No 11934
Neck height:	38 mm - 50 mm, preset to 45 mm	
Material hook:	Steel S460 hot-dip galvanised	
Material Base plate:	Steel S460 hot-dip galvanised	
Connecting elements:	M10 x 25 bolt and M10 A2 stainless steel nut	

VS

The varista® VS roof hook is characterised by its high load-bearing capacity. The adjustment options of the varista® VS series offer perfect adaptation to tiled roofs.



VS-vertical
in steel and stainless steel

VS-ES vertical 8 x 35		Art. No 10048
Neck height:	42 mm - 55 mm, preset to 45 mm	
Material hook:	Stainless steel 1.4301	
Material Base plate:	Stainless steel 1.4016	
Connecting elements:	M10 x 25 bolt and M10 A2 stainless steel nut	

VS-FVZ vertical 8 x 35		Art. No 11924
Neck height:	42 mm - 45 mm, preset to 45 mm	
Material hook:	Steel S460 hot-dip galvanised	
Material Base plate:	Steel S460 hot-dip galvanised	
Connecting elements:	M10 x 25 bolt and M10 A2 stainless steel nut	

VS-ALU

The varista VS aluminium roof hook has been developed in the usual high quality and low weight.



VS-ALU

VS-Alu vertical 9 x 35		Art. No 11973
Neck height:	39, 45 and 53 mm	
Material hook:	Aluminium ENAW 6063 T6	
Material Base plate:	Aluminium ENAW 6063 T6	
Connecting elements:	M8 x 25 A2 stainless steel bolt	

Advantages at a glance: VS & VS-PLUS & VS-Alu

- Specially developed for on-roof tile mounting
- Variable neck height of 38-50 mm for even more flexibility on the roof
- Elimination of tile breakage thanks to sophisticated geometry and high-quality material
- The VS-Plus has the advantage of being able to be installed with large-format roof tiles.
- The additional bend of the VS-Plus reduces the distance between the photovoltaic system and the building
- The VS-Alu has a low dead weight and is the cost-effective alternative for low snow and wind load zones.

VS, VS-Plus and VS-Alu - set high standards in stability and safety for roofs with high roof loads

Plain tile

The ingenious hook without weld seam is available in two different lengths for a wide variety of plain tile coverings.



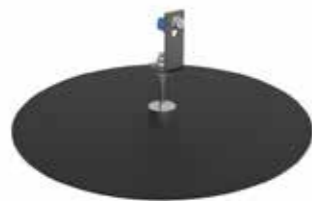
Plain tile long

Plain tile		Art. No 10001
Material:	Stainless steel 1.4016	
Dimensions:	5,0 x 30,0 x 280 mm	

Plain tile long		Art. No 11603
Material:	Stainless steel 1.4016	
Dimensions:	5,0 x 30,0 x 320 mm	

Foil welding disc

The foil welding disc is used to attach solar modules to foil roofs.



Folien-/Bitumenschweißsteller

Foil sealing disc		Art. No 11940
Roof connection system for foil roofs		
Material:	Stainless steel 1.4016	
Base disc:	Made of powder-coated steel	

Bitumen welding disc

The bitumen welding disc is used to attach solar modules to bitumen roofs.

Bitumen welding disc		Art. No 12007
Roof connection system for bitumen roofs		
Material:	Stainless steel 1.4016	
Base disc:	Made of powder-coated steel	

Hanger bolts vertical

The varista® hanger bolt is used for quick and easy installation on bitumen or corrugated fibre roofs. The integrated EPDM rubber seal ensures a tight connection. The mounting rails can be connected directly using the steel bracket.



Hanger bolts vertical

M10 x 200 vertical	Art. No 10065
incl. steel bracket A2 for hanger bolt M10, LL für M10	
M12 x 250 vertical	Art. No 10070
incl. steel bracket A2 for hanger bolt M12 mit LL M10	
M12 x 300 vertical	Art. No 10074
incl. steel bracket A2 for hanger bolt M12 und LL M10	

Hanger bolts horizontal



Hanger bolts horizontal

M10 x 200 horizontal	Art. No 10067
incl. adapter plate A2 for hanger bolt M10, LL für M10	
M12 x 250 horizontal	Art. No 10072
incl. adapter plate A2 for hanger bolt M12 mit LL M10	
M12 x 300 horizontal	Art. No 10076
incl. adapter plate A2 for hanger bolt M12 und LL M10	

Seam clamps

The varista® standing seam clamps are an assembly connection for standing seam roofs. Whether standing, round or copper seam, with varista® you always have the right solution.

Standing seam clamp stainless steel



Standing seam clamp
Stainless Steel

Stainless steel standing seam clamp		Art. No 10144
Clamp for roofs with standing seam		
Dimensions:	100 x 40 x 40 mm	
Material:	Stainless steel 1.4016	
Oblong hole:	21,5 x 11 mm	

E-clamp double fold



E-clamp

E-Mini-FL (S-5!®)		Art. No 11496
Clamp for roofs with double standing seam		
Material:	Aluminium 6061 T6	

Z-clamp round rebate



Z-clamp

Z-Mini-FL (S-5!®)		Art. No 11499
Clamp for roofs with round seam		
Material:	Aluminium 6061 T6	

B-clamp brass



B-Klemme

B-clamp-M10 (S-5!®)		Art. No 11502
Clamp for copper roofs		
Material:	Brass	



Ultralight
120 mm

Ultralight

With the varista® Ultralight, mounting parallel to the high bead is possible.

Ultralight Short rail set 120 mm	Art. No 10694
Profile rail for vertical mounting on a high bead, cut to 120 mm	
- with 2 self-tapping screws 5.5 x 25 / E16	
- EPDM sealing tape	

Ultralight short rail set 120 mm (without screw)	Art. No 11936
Profile rail for vertical installation on a high bead, cut to 120 mm	
- EPDM sealing tape	



ULF 3.0
415 mm

ULF 3.0

The varista® ULF 3.0 can be installed on all standard trapezoidal sheet metal and sandwich panel roofs.

ULF 3.0 415 mm	Art. No 12357
incl. 16 drill holes on bonded EPDM sealing tape	
Mounting for 7° elevation	



Trapezoidal support
front 7°

Trapezoidal front support 7°	Art. No 11904
Suitable for ULF 3.0 - for mounting modules on trapezoidal sheet metal roofs	



Trapezoidal support
rear 7°

Trapezoidal rear support 7°	Art. No 11905
Suitable for ULF 3.0 - for mounting modules on trapezoidal sheet metal roofs	



varista® Mounting rails

The connecting element with system

Success is no coincidence.

Mounting rails from varista offer the best balance between strength and weight.

Do not make any compromises during installation

*varista® mounting rails
- variable and stable in all positions*



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Mounting rails for all areas

Profile rails from varista, systematically designed. Thanks to the innovative channel geometry, the profile rails can be installed intuitively. Variability and stability in perfection.

Ultralight 4030



Ultralight 4030 blank
length 4.350 mm

Ultralight 40 x 30, length 4,35 m, Aluminium blank		Art. No 11871
Tolerance saw dimension +- 5 mm		
Material:	EN AW 6063 T66 according to DIN ISO 755-9	

Mounting rail 3936



3936 blank
length 4.350 mm

Mounting rail 3936, length 4,35 m, Aluminium blank		Art. No 11868
Tolerance saw dimension +- 5 mm		
Material:	EN AW 6063 T66 according to DIN ISO 755-9	

Mounting rail 4627

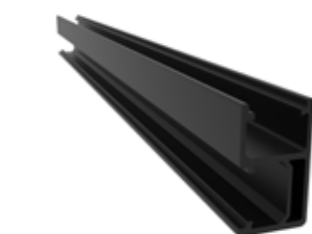


4627 blank
length 4.350 mm

Mounting rail 4627, length 4,35 m, Aluminium blank		Art. No 11866
Tolerance saw dimension +- 5 mm		
Material:	EN AW 6063 T66 according to DIN ISO 755-9	

Mounting rail 4627, length 2,4 m, Aluminium blank		Art. No 12020
Toleranz Sägemeß +- 5 mm		
Material:	EN AW 6063 T66 according to DIN ISO 755-9	

Mounting rail 4627, length 4,35 m, Black anodised aluminium		Art. No 11867
Tolerance saw dimension +- 5 mm		
Material:	EN AW 6063 T66 according to DIN ISO 755-9	



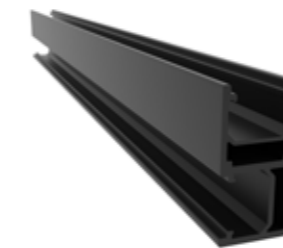
4627 black
length 4.350 mm



5527 blank
length 4.350 mm

Mounting rail 5527

Mounting rail 5527, length 4,35 m, Aluminium		Art. No 11829
Tolerance saw dimension +- 5 mm		
Material:	EN AW 6063 T66 according to DIN ISO 755-9	



5527 black
length 4.350 mm

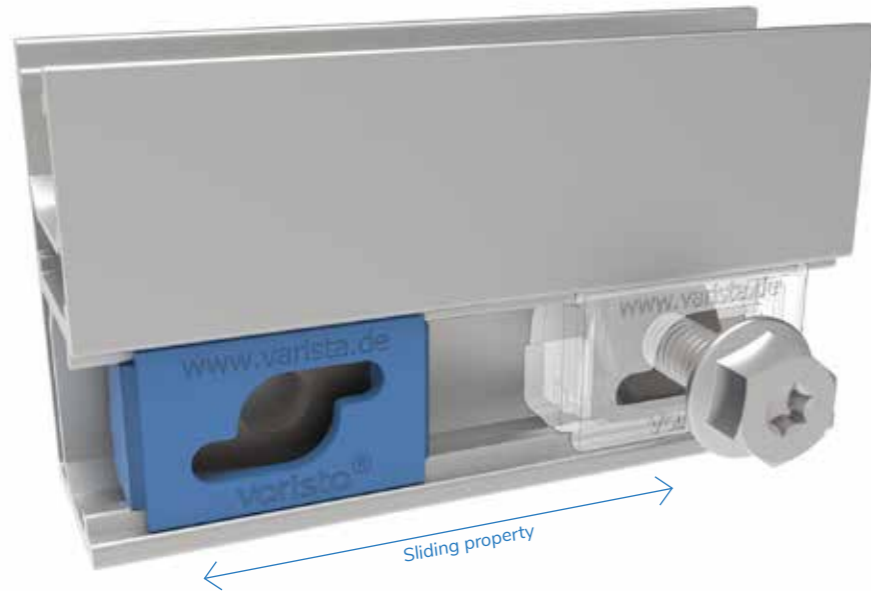
Mounting rail 5527, length 4,35 m, Black anodised aluminium		Art. No 11843
Tolerance saw dimension +- 5 mm		
Material:	EN AW 6063 T66 according to DIN ISO 755-9	



7045 blank
length 4.350 mm

Mounting rail 7045

Mounting rail 7045, length 4,35 m, Aluminium blank		Art. No 11870
Tolerance saw dimension +- 5 mm		
Material:	EN AW 6063 T66 according to DIN ISO 755-9	



Small component Big effect

Thanks to the sliding properties of the varista® mounting clip, you maintain variability in the system. It is possible to subsequently move the rail on the hook until the nut is fixed.

Monting clip M8 - M10

The freely positionable varista® mounting clip enables universal connection to our mounting system. Thanks to the unique combination of materials, this mounting clip is compatible with all our products and suitable for all varista® profile series.



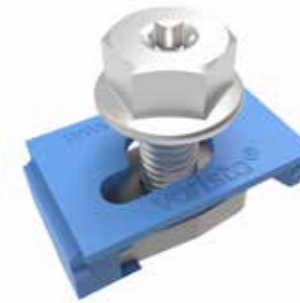
Mounting clip M8/M10

Mounting clip M8 blue	Art. No 10145
with rhombus nut, for M8 bolts	
Material:	EN AW 6063 T66 according to DIN ISO 755-9

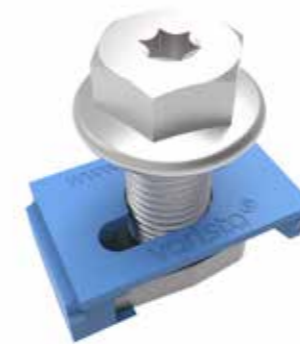
Mounting clip M10 blue	Art. No 10148
with rhombus nut, for M10 bolts	
Material:	EN AW 6063 T66 according to DIN ISO 755-9

Roof fastening set

The varista® roof fastening set for connecting our mounting rails to the selected roof fastening. By using A2 grade stainless steel screws, we guarantee high strength and a long service life.



Roof fastening set M8



Roof fastening set M10

Roof fastening set M8 x 20	Art. Nr 10151
Mounting clip, rhombus nut and bolt	
Material:	EN AW 6063 T66 according to DIN ISO 755-9

Roof fastening set M8 x 25	Art. Nr 10153
Mounting clip, rhombus nut and bolt	
Material:	EN AW 6063 T66 according to DIN ISO 755-9

Roof fastening set M10 x 20	Art. Nr 10155
Mounting clip, rhombus nut and bolt	
Material:	EN AW 6063 T66 according to DIN ISO 755-9

Roof fastening set M10 x 25	Art. Nr 10157
Mounting clip, rhombus nut and bolt	
Material:	EN AW 6063 T66 according to DIN ISO 755-9

Advantages at a glance:

- 12-year product guarantee
- Easy and time-saving assembly and installation
- Rails are easy to adjust during assembly and are quickly fixed in place
- Cost-optimised assembly technology
- Low material usage
- Module suitability for many systems

Contact us, we will be glad to advise you individually for your project



**varista® Module clamps
the variable safety
connecting elements**



Safety on all roof surfaces

Secure module fastening even on 45° - 60° roofs
- thanks to improved and variable clamping performance.

Make no compromises during installation.

varista® module clamps - variable and stable in all positions

Securely fasten modules with varista® clamps

The main function of the module clamps is to clamp the solar modules, but the optical values should not be neglected. Like all other products, varista® module clamps are extruded from high-quality aluminium. Durability is guaranteed by the use of EN AW 6063 T66 aluminium. Thanks to the variety, all module frame heights can be covered. We also supply our centre and end clamps as individual items. These can also be used universally with other systems.

End clamps



End clamps

End clamp sets	Frame height mm	Art. No.
End clamp set 30 silver	30	11901
End clamp set 30 black	30	11852
End clamp set 33 silver	33	10093
End clamp set 33 black	33	10094
End clamp set 35 silver	35	10099
End clamp set 35 black	35	10100
End clamp set 38 silver	38	10105
End clamp set 38 black	38	10106
End clamp set 40 silver	40	10108
End clamp set 40 black	40	10109
End clamp set 45 silver	45	10117
End clamp set 50 silver	50	10123
End clamp set 50 black	50	10124



Middle clamps

Middle clamps

Middle clamp sets	Frame height mm	Art. No.
Middle clamp sets 30 - 35 silver	30 - 35	11736
Middle clamp sets 30 - 35 black	30 - 35	11737
Middle clamp sets 35 - 40 silver	35 - 40	11718
Middle clamp sets 35 - 40 black	35 - 40	11719



Middle clamps with earthing pin

Middle clamps with earthing pin

Middle clamps with earthing pin	Frame height mm	Art. No.
Middle clamp sets 30 - 35 black	30 - 35	12330
Middle clamp sets 35 - 40 black	35 - 40	12355



varista® System accessories
Compatibility for the entire mounting system

We have the right accessories for every application!

Talk to us, our sales team will be glad to advise you.

varista® system accessories - variable and stable in all positions



Rail connector
length 250 mm

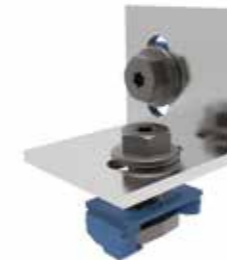
Rail connector

Internal rail connector	Art. No 10078
universally applicable, embossed, length: 250 mm	
Material:	EN AW 6063 T66 according to DIN ISO 755-9



Rail connector
4627 / 5527

Internal rail connector 4627 / 5527	Art. No 11830
embossed, length: 250 mm	
Material:	EN AW 6063 T66 according to DIN ISO 755-9



Universal cross connector

Cross connector

Cross connector set M10 x 20	Art. No 10081
universally applicable, angle 50 x 50 x 4 with 2 x LL Ø11 mm	
Material:	EN AW 6063 T66 according to DIN ISO 755-9



Cross connector 4627 and 5527

Cross connector set Profil 4627 und 5527	Art. No 11632
with M8 x 20 A2 bolt and rhombus nut, for easier installation without mounting clip	
Material:	EN AW 6063 T66 according to DIN ISO 755-9

Cover caps



Cover caps
for 5527 Mounting rail

Cover cap set for varista® mounting rail 4627	Art. No 11838
Set consisting of 2 pieces (1 piece left and 1 piece right)	
Material:	Plastic

Cover cap set for varista® mounting rail 5527	Art. No 11839
Set consisting of 2 pieces (1 piece left and 1 piece right)	
Material:	Plastic



Disc head screw
8 x 100 mm

Disc head screw

Disc head screw 8 x 100	Art. No 10295
Mounting screw for roof connection	
Material:	Stainless Steel A2

Disc head screw 8 x 120	Art. No 10296
Mounting screw for roof connection	
Material:	Stainless Steel A2

Drill screw

Ejot-Super-Saphir 5,5 x 25	Art. No 10308
For mounting short rail on trapezoidal sheet metal	
Material:	A2 stainless steel with hardened drill point

Ejot-EJOFAST 5,5 x 25	Art. No 11628
For mounting short rail on trapezoidal sheet metal	
Material:	A2 stainless steel with hardened steel tip

Bi-Metal thin sheet screws 6,0 x 25 DS 16 mm	Art. No 11666
For installation of metal replacement tiles	
Material:	Bi-Metal A2

EPDM Band

EPDM 10.000 x 30 x 2 mm	Art. Nr 10243
komplette Rolle für Abdichtung von Kurzschiene	

EPDM 125 x 30 x 2 mm	Art. Nr 10245
zur Abdichtung von Kurzschiene KS45	



EPDM
Länge 10 m



Quick earthing connector
with varista®-Clamps

Quick earthing connector

Quick earthing connector-Set	Art. No 10445
suitable for varista® mounting system, incl. clip and screw for round wire Ø 8 mm	
Material:	Aluminium

Erdungsschnellverbinder-Set	Art. No 12025
passend für varista® Montagesystem, inkl. Clip und Schraube für Runddraht Ø 4-6 mm	
Material:	Aluminium



Earthing wire

Earthing wire

Earthing wire Aluminium 8 mm	Art. No 10444
Material property: soft for earthing systems in accordance with DIN EN 50164-2 (VDE 0185 Part 202)	
Material:	AlMgSi

A stable & safe flat roof system

The varista® Aero Twice Rail is the new development for a stable and safe flat roof system. The materials used consist of zinc-magnesium alloys.

Due to the high dead weight of the system, less ballasting is required. Thanks to the wind tunnel-tested system, you have full stability in any position.

Product specification	Execution
Material:	Zinc-magnesium
Modules:	for module widths up to 1,145 mm
Roof pitch:	up to 4°
Wind load zone:	up to IV
Snow load:	Standard up to 2.4 KN / m ² , light up to 0.7 KN / m ²



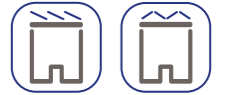
AERO Twice Rail light

Advantages at a glance:

- Delivery incl. balling
- Lightning current carrying capacity
Test no.: 2464_FRM (DEHN Test Centre)
- No roof penetration
- Also suitable for zones at the edge of the roof
- Substructure can be erected without modules
- Less ballasting due to the dead weight
- Optimum module ventilation
- Roof design with varista® planning software

Aero Twice Rail a system for eternity

**a wind tunnel tested
zinc-magnesium system
for more safety**



Special roofs require special systems

The varista® flat roof systems impress with their practical handling. Using the varista® planning software, the output of your photovoltaic system can be ideally adapted to your roof surfaces.

The flat roof systems are quick and intuitive to install. Thanks to the wind tunnel-tested system, you have full stability in any position.

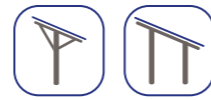
Product specification	Execution
Surface load:	JUST: approx. 10 kg/m ² covered roof area TWICE: approx. 15 kg/m ² covered roof area
Modules:	framed 950 - 1050 mm x 1630 - 1982 mm
Roof pitch:	up to 4°
Wind load zone:	up to IV
Snow load:	Standard up to 2.4 kN / m ² , Alpine up to 5.4 kN / m ²

a wind tunnel-tested aluminium system

Advantages at a glance:

- Statically optimised system
- Low transport costs 40 kWp / Euro pallet
Incl. building protection mat
- Also suitable for zones at the edge of the roof
- No roof penetration
- Optimum module ventilation
- Roof design with varista® planning software
Read in roof dimensions via Google Maps, ballasting plan is immediately created immediately. Completed system statics already in the quotation phase.

We would be glad to create for your property a system design with ballasting plan for your property.



Free-field mounting system require specialists

with varista® you have the professional

Contribute to the expansion of renewable energy supply.

The free-field mounting systems from varista® combine variability, material efficiency and ease of installation.

Put your megawatt project in the hands of the professionals.

*varista® free-field mounting systems
- Variable and stable in all positions*



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The FA UNO for free-field photovoltaic areas

With the varista® FA UNO, large areas can be covered quickly and variably. Customised to your individual requirements, project-specific planning is carried out. The single-pile system allows easy access under and

between the modules, which minimises the effort and costs involved in maintaining the area. The varista® team will be happy to advise you on your project.



FA UNO South-facing

Features of the FA UNO:

- Thanks to the single-row design, the system is optimised for a minimum number of ramming piles
- Standardised components and screw sets are used for maximum ease of installation
- The mounting system can be designed as a south or east-west variant
- The FA UNO is suitable for almost all module widths thanks to the variable clamping system
- The FA UNO mounting system does not cause any ground sealing
- The structural safety of the system is ensured by static calculations taking into account the applicable national standards and our own wind tunnel tests
- The individual structural analysis, which is created for each individual project depending on the ground conditions, wind and snow load, takes into account the relevant standards, in particular the Eurocode series of standards in the currently valid version
- The exclusive use of steels with zinc or ZM coating, stainless steel and aluminium guarantees optimum corrosion protection over the entire service life of the system

Advantages at a glance:



FA UNO

- 12-year product guarantee
- Installation on slopes possible
- Quick assembly and commissioning
- Cost-optimised assembly technology
- Universal system for all standard module dimensions
- Suitable for all common foundation methods
- Simple site maintenance

Contact us, we will be glad to advise you individually for your project



varista® FA DUO

As firm as a rock

The FA DUO for free-field photovoltaic areas

With the varista® FA DUO, large areas can be covered quickly and variably. Customised to your individual requirements, project-specific planning is carried out. The two-piles system enables use in areas with high snow and wind loads.

Due to the vertical installation of up to 3 rows of modules, the ratio between installed power and steel usage is optimised. The varista® team will be happy to advise you on your project.



FA DUO 3V South-facing

Features of the FA DUO:

- As a result of the two-pile design, the system is suitable for high snow and wind load areas
- Standardised components and screw sets are used to make installation as easy as possible
- The mounting system can be designed as a south or east-west variant
- Because of the variable clamping system, the FA DUO is suitable for almost all module widths
- The FA DUO mounting system does not cause any ground sealing
- The structural safety of the system is ensured by static calculations taking into account the applicable national standards and our own wind tunnel tests
- The individual structural analysis, which is prepared for each individual project depending on the ground conditions, wind and snow load, takes into account the relevant standards, in particular the Eurocode series of standards in the currently valid version
- The exclusive use of steels with zinc or ZM coating, stainless steel and aluminium guarantees optimum corrosion protection over the entire service life of the system

Advantages at a glance:



FA DUO Free-field mounting system 5MW

- 12-year product guarantee
- Installation on slopes possible
- Up to 3 rows of modules, mounted vertically
- Cost-optimised assembly technology
- High snow and wind load capacity
- Variable pile-driving depths
- For all standard module dimensions

Contact us, we will be glad to advise you individually for your project



varista® FA DUO Bifacial

for maximum efficiency

The FA DUO Bifacial for free-field photovoltaic areas

With the varista® FA DUO bifacial, large areas can be covered quickly and variably. Project-specific planning is specially tailored to your individual requirements. The system designed for bifacial modules minimises

shading on the back of the module and thus enables maximum module efficiency. The varista® team will be happy to advise you on your project.



FA DUO Bifacial

Features of the FA DUO:

- The newly developed FA DUO bifacial maximises the efficiency of the bifacial modules
- 20° inclination with double-row module layout
- 15° inclination with three-row module layout
- Standardised components and screw sets are used to make installation as easy as possible
- The FA DUO bifacial mounting system causes no soil sealing
- The structural safety of the system is ensured by static calculations taking into account the applicable national standards and our own wind tunnel tests
- The individual structural analysis, which is prepared for each individual project depending on the ground conditions, wind and snow load, takes into account the relevant standards, in particular the Eurocode series of standards in the currently valid version
- The exclusive use of steels with zinc or ZM coating, stainless steel and aluminium guarantees optimum corrosion protection over the entire service life of the system

Advantages at a glance:



FA DUO Bifacial

- Sophisticated design minimises shading on the back of the module
- Lightning current carrying capacity
Test no.: 2547_FRM (DEHN Test Centre)
- Developed for short installation times
- Designed for project sizes in the MW range
- Development and production in Germany
- Variable pile driving depths
- Installation on slopes possible
- 12-year product guarantee

Contact us, we will be happy to advise you individually for your project



Free-field mounting system AERO Ground

Aero Just G and Aero Twice G is the aerodynamic mounting system for attaching framed modules to open spaces. This system offers the best price-performance ratio and has excellent mounting properties.

The systems are currently the free-field mounting systems with the quickest installation time on the market. They have been tested in a wind tunnel and are TÜV certified.

Features of the AERO Ground:

- The Aero Ground System is a free-standing system that does not require pile driving or the use of the use of large machines
- Standardised components and screw sets are used to make installation as easy as possible
- The Aero Ground System is attached using ballast stones or ground screws
- The minimum number of components enables a very fast assembly time and reduces transport costs to a minimum
- The cost-optimised free-field mounding system is ideal for small systems or temporary project installations due to its features
- The Aero Ground system is compatible with almost all module widths thanks to the variable installation options for the mounting legs
- Thanks to the special spring effect of the mounting legs, the substructure adapts itself perfectly to the surface structure.

AgriPV UNO

With varista® solutions for agricultural photovoltaic systems, you always have a double utilisation effect. You produce food or animal feed and the sun also works for you.

The solutions from varista® are always project-specific and customised. Enjoy the support for your agricultural work - the sun helps.



AgriPV UNO
Module front edge up to 2.10 metres

Your benefits

Construction:

- Customised project solution for your agricultural and fruit-growing areas
- Large spans possible
- Clearance heights for your agricultural machinery

We are glad to support and accompany your project. Further information is available on request.

AgriPV Vertikal

The vertical version can be used both as a boundary-free-field mounting system.

free-field mounting system.



AgriPV Vertical

Your benefits

Construction:

- Space-saving solution
- Variable module sizes

We are glad to support and accompany your project. Further information is available on request.



The FA UNO / DUO ST for free-field solar thermal energy

In addition to photovoltaic technology, solar thermal technology is also full of potential. Entire heating networks can be operated with large-scale solar thermal systems. The experts at varista® are the perfect partner

for such projects when it comes to the right installation design. Several large projects have already been realised with varista® systems, including one of Austria's largest open-air thermal plant in Friesach.



Solar thermal system Friesach

Features of the FA UNO / DUO ST:

- The customised mounting devices make the FA UNO/DUO ST compatible with a wide variety of collector types (flat-plate and tube collectors).
 - The system is suitable for all common foundation methods
 - The FA UNO/DUO ST combines maximum stability with minimum material usage
 - Terrain maintenance with the FA UNO ST is simple thanks to the one-pile system
 - The FA DUO ST enables use at project locations with high snow and wind loads as well as a two-row collector configuration
 - The individual structural analysis, which is prepared for each individual project depending on the ground conditions, wind and snow load,
- takes into account the relevant standards, in particular the Eurocode series of standards in the currently valid version
- The exclusive use of steels with zinc or ZM coating, stainless steel and aluminium guarantees optimum corrosion protection over the entire service life of the system

We are glad to support and accompany your project from planning to commissioning.

Advantages at a glance:



FA UNO ST

- 12-year product guarantee
- Installation on slopes possible
- Quick assembly and commissioning
- Cost-optimised installation technology
- Suitable for all common collectors and foundation methods

Contact us, we will be glad to advise you individually for your project.



varista® Carport Systems

for energy-efficient dual utilisation

Features of the GREENPORT carport system:

- **Greenport Design**
Solar carport for the highest demands on design and technology
- **Greenport Easy Glas-Glas**
Simple and inexpensive solar carport solution with two roof variants
- **Greenport Wing**
Module support for existing carport substructures
- **Greenport Home**
Crane-free solar carport construction system for detached houses



We are glad to support and accompany your project. For more information, ask for our carport brochure.

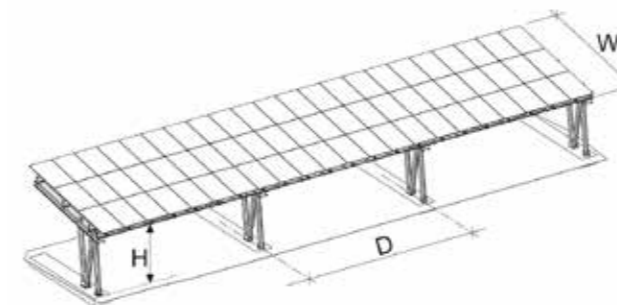
The smart solution for sustainable energy

Utilise the benefits of the sun and protect your vehicle at the same time with our innovative solar carport systems. These modern carports not only offer a safe place for your car, but also transform the roof surface into a powerful source of energy. An intelligent solution that combines functionality and sustainability.



V-Park carport systems

With the V-Park carport system, you get a standardised carport system for small and medium-sized facilities, enabling you to use your space in an energy-efficient way.



V-Park (South System)

Features

- Width of the car park from 2.4 to 2.8 m
- Frame spacing D: every 3 (or 2) parking spaces
- Height distance H : 2.8m
- Roof width W :5.0m + optional overhang ≤ 0.6m
- Available as south, north, duopitch and double south version available
- for all module types (vertical and vertical)

Discover our product range now and find the ideal solution for your needs!



We are there for you

We support you in the realisation and planning of your projects and give our best every day.

Phone: +49 8377 / 929 40 90 30
Fax.: +49 8377 / 929 40 90 93

This is the best way to reach us:

info@varista.de
www.varista.de

Mo. - Thu.: 07:30 - 17:00 Uhr
Fr.: 07:30 - 12:30 Uhr

with joy at work every day

Sales

Our competent sales team will support you with any questions you may have about our products.

vertrieb@varista.de

Purchase

The employees from the purchasing department are available for our suppliers.

einkauf@varista.de

Accounting

If you have any questions about invoices, our accounting team will be glad to assist you.

buchhaltung@varista.de

Marketing

Become part of our campaigns and send us your images of our installed products.

marketing@varista.de



Product training & education

There is also a major shortage of skilled labour in the rapidly growing renewable energy market.

varista GmbH has not only focussed on innovative products for quick and easy installation, we also work

intensively on training and further education.

We are proud to be able to support you with our certified specialised training company.

From beginner to professional



The trained specialists of the Solareins Academy will train and educate you individually on all varista GmbH products.

This is the only way we can master the energy transition together.



Homepage
Solareins Akademie



Mounting systems
Variable and stable in all situations



varista®

varista GmbH
An der Aitranger Straße 3
D-87647 Unterthingau

Phone: +49 (0) 8377 / 929 40 90 30
Fax: +49 (0) 8377 / 929 40 90 93

info@varista.de
www.varista.de



Visit us

