



Mounting systems for open area FMS / HTS

Solar Leading Technologies



Arausol Innovative Solar Systems

- Arausol is specialized in development, production and assembly of PV Systems.
- Our core competences are big projects domestic and abroad, mainly in ground mounted systems.
- Our array of products also encloses roof top solutions as well as tracking and carport systems



Scope of Performance

- Consulting
- Projecting
- Constructing
- Fabrication
- Assembly
- Start-Up Procedure
- EPC
- O & M



Ground Mounted



Tracker

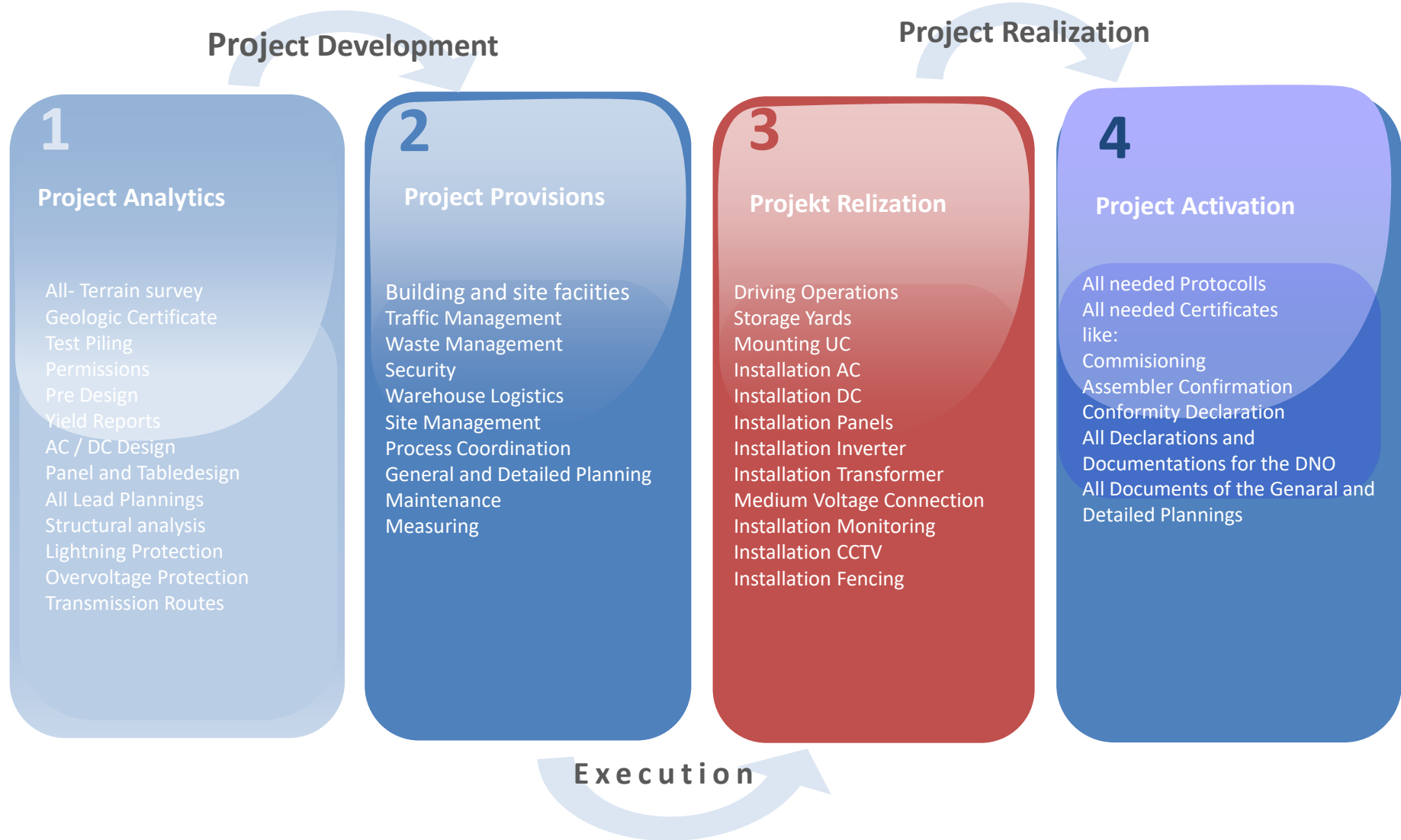


Rooftop



Carportanlagen

Project Development



Mounting System FMS

Advantages

- Extremely short mounting time thanks to modules which are predominantly prefabricated and preassembled in the factory
- Very robust and extremely stable design
- Mounting of the complete frame support with just one screw
- Very quick and easy installation thanks to a modular insertion system
- Only one central support, thus ensuring easy access for site maintenance
- Made-to-measure ground-mounted system registered with the German Patent Office
- Individual static load calculation for every project
- Long service life thanks to the use of durable materials
- Precisely coordinated system components with short delivery times
- Optimum site logistics with just-in-time delivery



Mounting System FMS

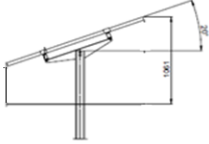
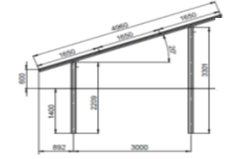
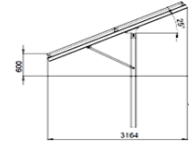
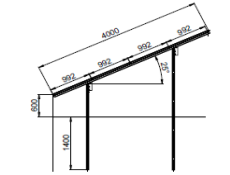
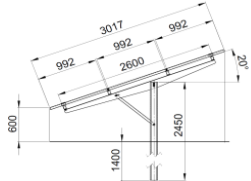
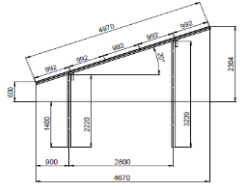
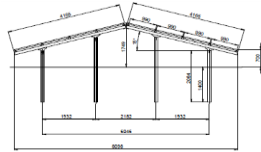
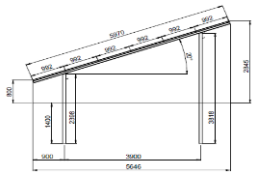
Modular construction systems

According to the designs and local circumstances, Arausol outdoor ground-mounted systems can be delivered in different alternatives. Optimum safety is top priority. Individual panel designs and setups can be implemented seamlessly on the basis of our standard systems. Standard Delivery for Single static based on the local wind and snow loads.

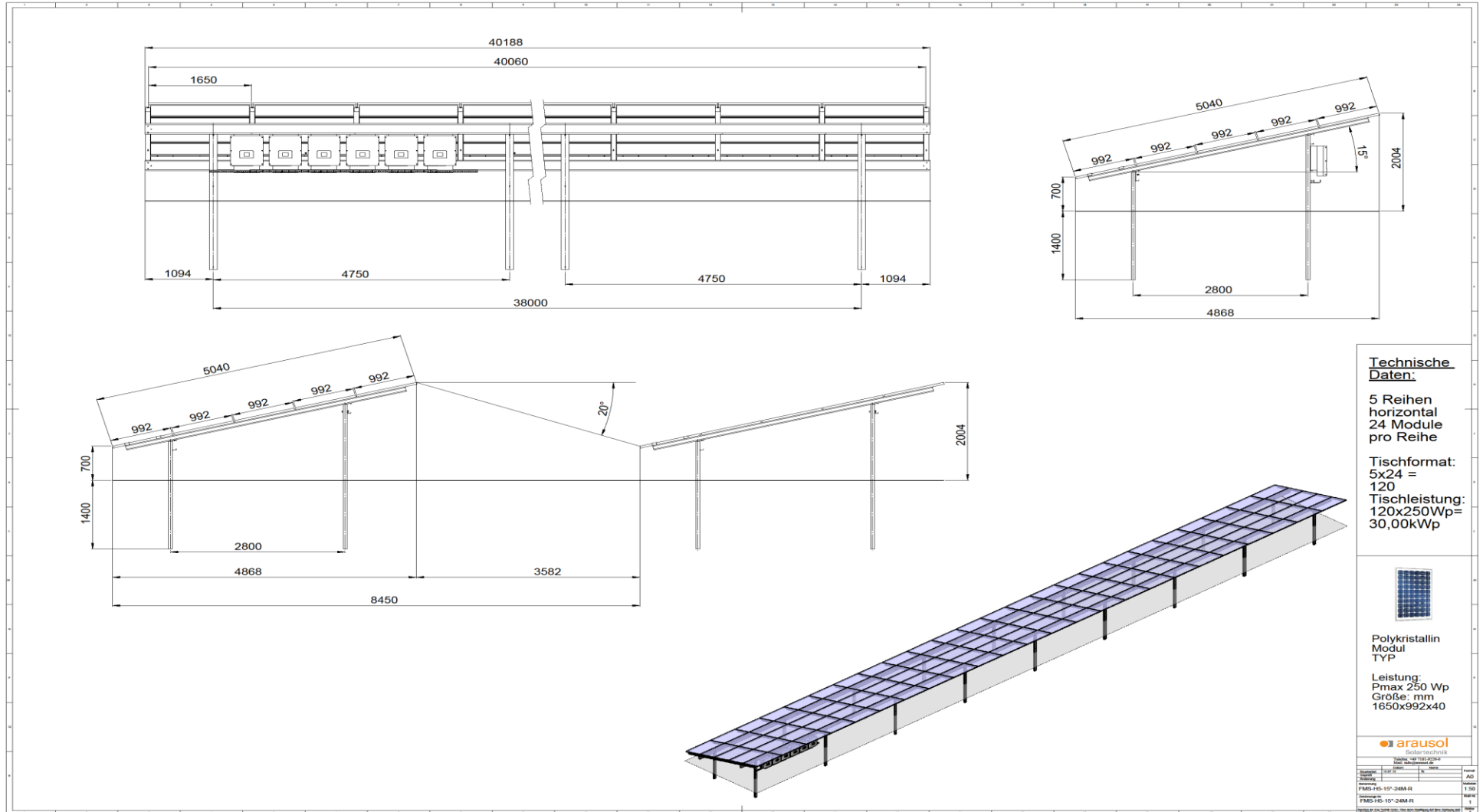
Delivery / Service

- Overall planning of the PV plant
- Test ramming and geological survey
- Site-specific individual structural analysis
- Delivery of the assembly system
- Ramming works
- UK frame system mounting and Module assembly
- DC and AC wiring
- Delivery and assembly of the fence

Mounting System FMS

Type	Module orientation	Drawing	Type	Module Orientation	Drwaing
FMS-V1	1 Module vertical		FMS-H3	3 Modules horizontal 2-Pile-System	
FMS-V2	2 Modules vertical		FMS-H4	4 Modules horizontal 2-Pile-System	
FMS-H3	3 Modules horizontal		FMS-H5	5 Modules horizontal 2-Pile-System	
FMS-H4-OW	4 Modules horizontal East-West declination 2-Pile-System		FMS-H6	6 Modules horizontal 2-Pile-System	

Detail Description



Technische Daten:

5 Reihen horizontal
24 Module pro Reihe

Tischformat:
5x24 =
120
Tischleistung:
120x250Wp=
30,00kWp



Polykristallin
Modul
TYP

Leistung:
P_{max} 250 Wp
Größe: mm
1650x992x40



Bestell-Nr.	Modul	Größe	Leistung	Material
FMS-HS-15°-24MM-R	15°	24MM-R	1.50	1
FMS-HS-15°-24MM-R	15°	24MM-R	1.50	1

Mounting System FMS



Table Design FMS-V2



Table Design FMS-H3



Table Design FMS-H4



Table Design FMS-H6

Mounting System FMS



FMS- H6

Mounting System FMS



FMS- H4

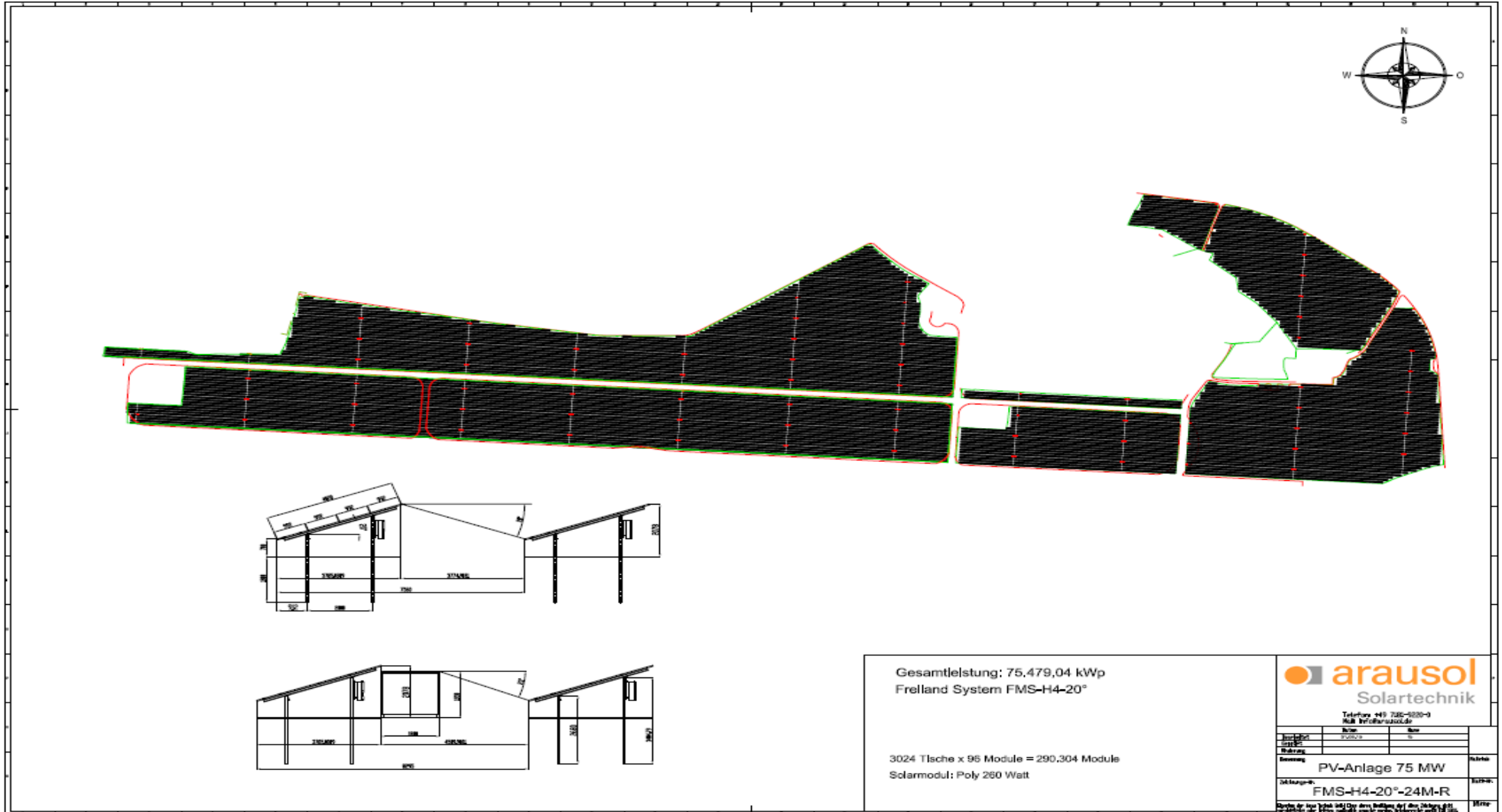


FMS- H5

Reference: Vandel 75 MWp / Mounting System



Reference: Vandel 75 MWp / Mounting System



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Reference: Birkenhain 3,6 MW / Mounting System



Reference: Nakskov 4,2 MWp / Mounting System



Reference: UK Scunthorpe 40 MWp / Mounting System



Ground Mounted Systems



Ground Mounted Systems



Ground Mounted Systems



Horizontal Trackingsystem HTS-H3



Horizontal Trackingsystem HTS-H3

HTS Tracking System advantages

- Highly robust design with proven site-specific static
- Stable one-driven-pile-construction for ramming or concreting
- Large-dimensioned, maintenance-free and for a long service life designed swivel bearing systems
- Bearing adjustment in X-, Y- and Z-direction and also in horizontal rotation and vertical rotation tilting axes adjustable bearing mounting for quick and easy compensate for uneven floors
- Very simple and extremely fast on-site installation
- Exact astronomical control, completely designed with proven Siemens components
- Automatic protection via tilt sensors, limit switches, wind sensors and proportional storm position
- Long rows of tables and large blocks with a very robust and proven drive system
- Optimum profitability due to above-average earning and low system and assembly costs
- Delivery with fully programmed control incl. backtracking
- All materials and coatings are designed for long life
- Short delivery times and reliable just- in -time delivery
- Highly robust design with proven site-specific static

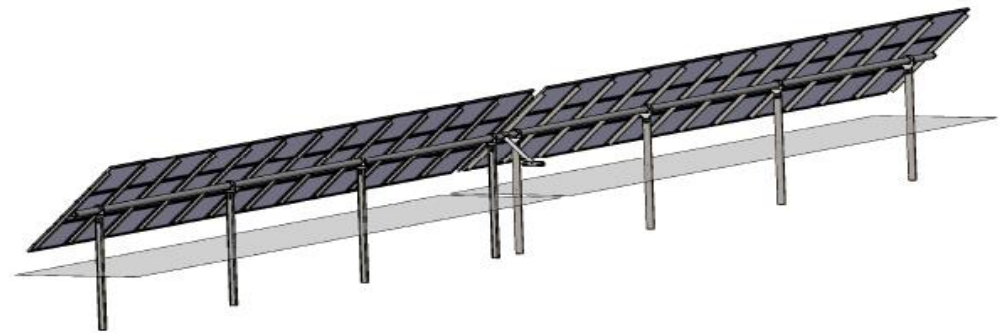
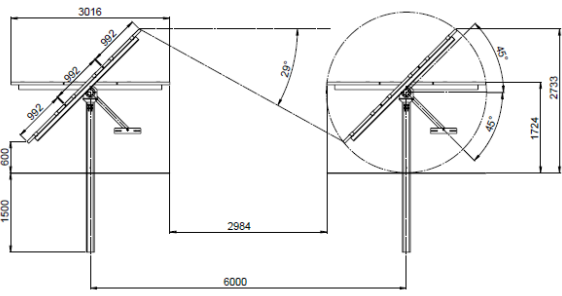
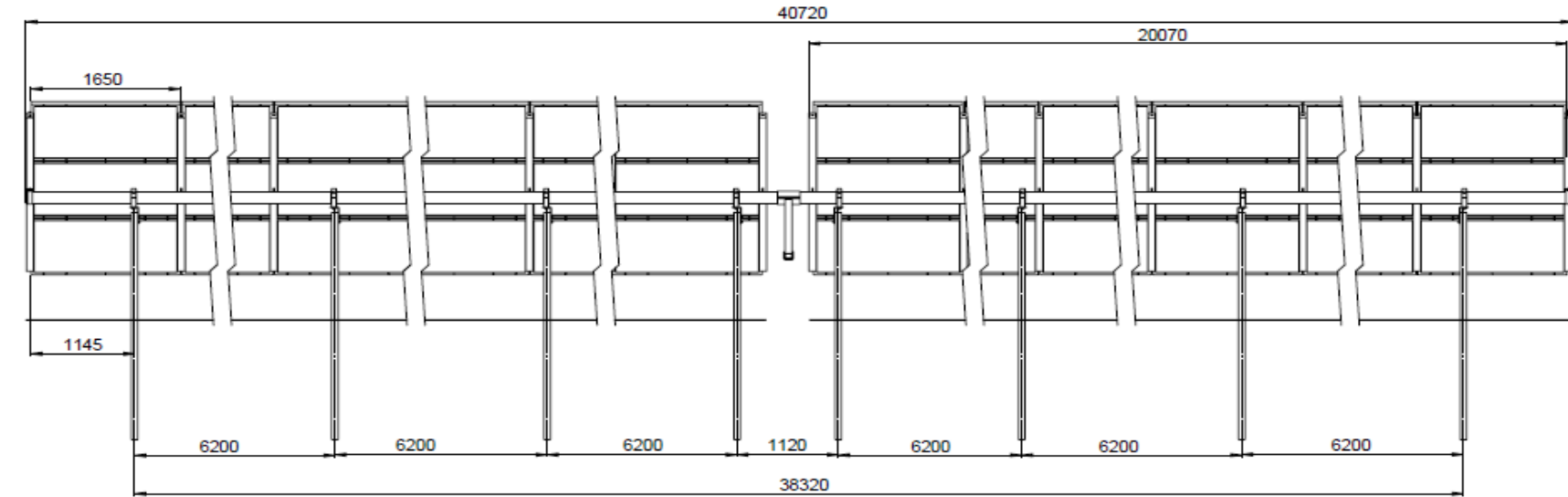


Tracker Positions



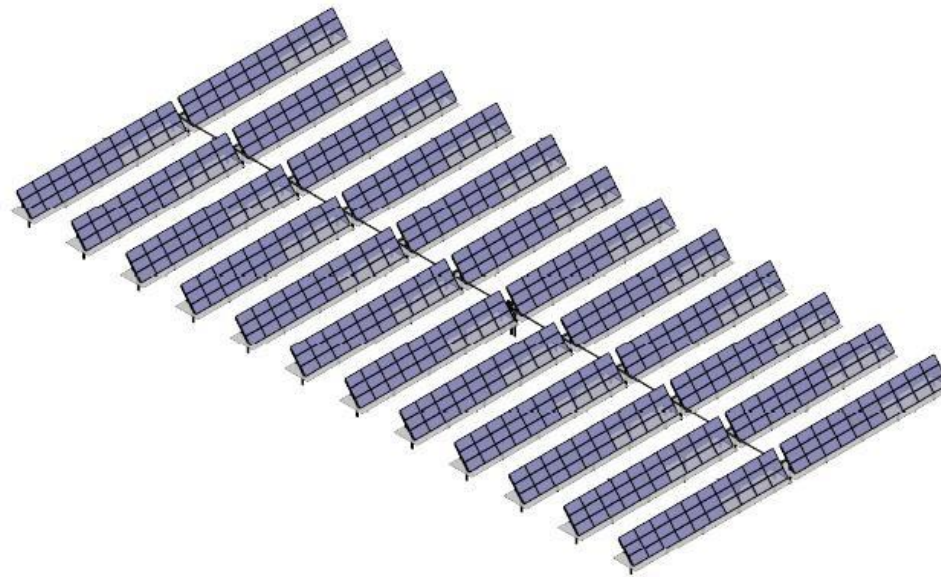
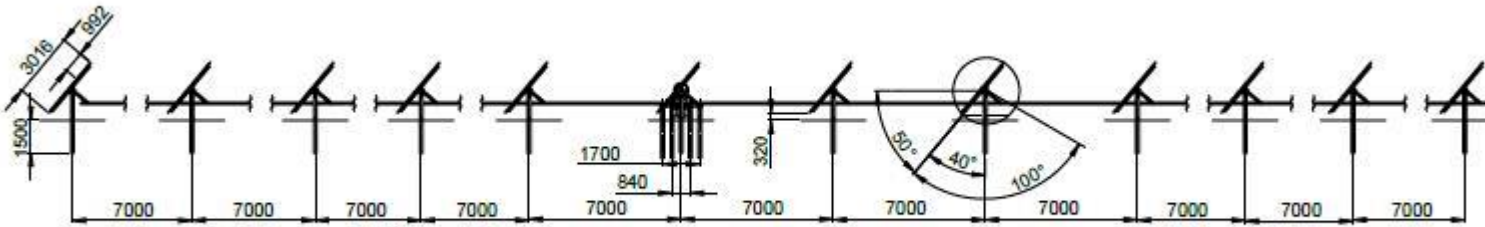
Example Table

3 modules horizontally and 24 modules in row = 72 modules
 Table power = 72 x 260 Wp = 18,72 kWp



Example Bloc

1 2 tables à 60 modules = 720 modules Bloc power = 720 x 320 Wp = 230,40 kWp



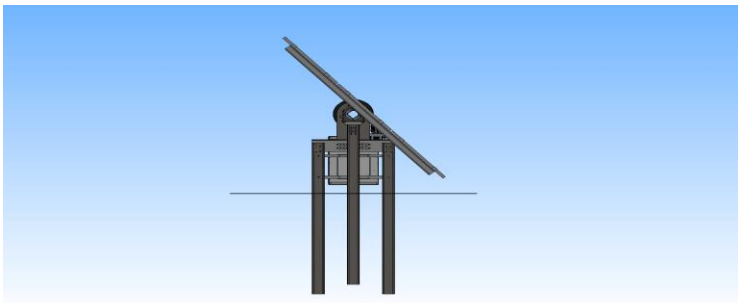
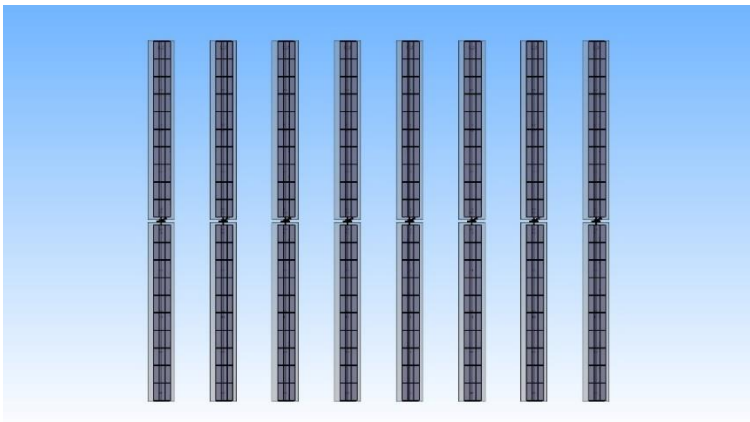
Example arrangement

PV-Block with single row drive

Tablepower 11,00 kWp

Table drive for a table row with

2 x 22 = 44 moduls per table row (72,6m²)

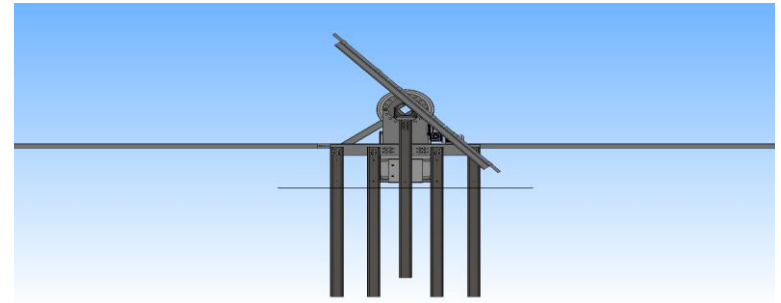
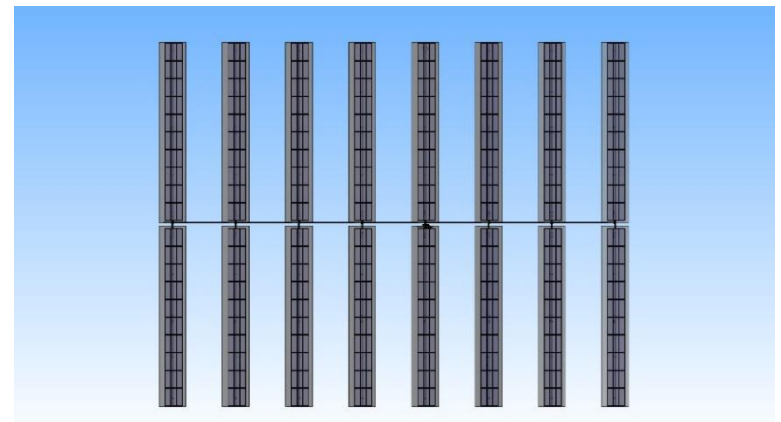


PV-Block with blockdrive

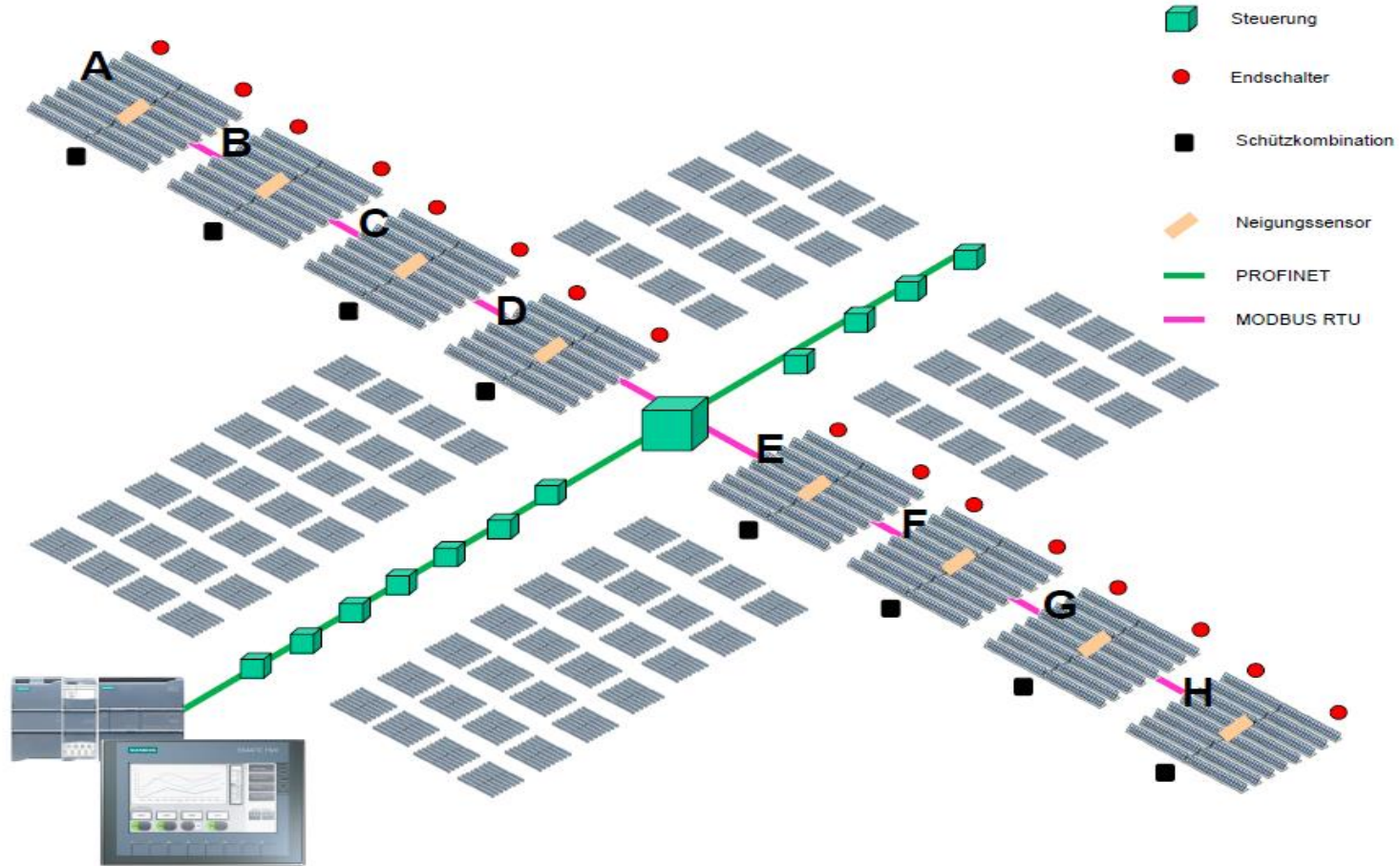
Blockpower 132 kWp

Block drive for 12 table rows à

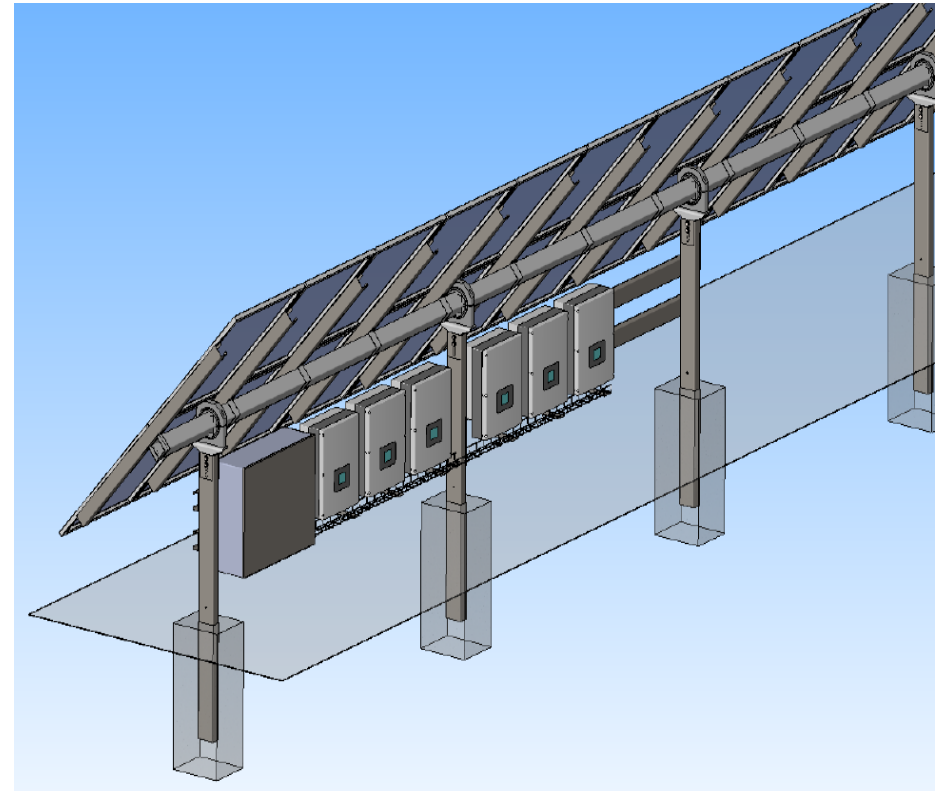
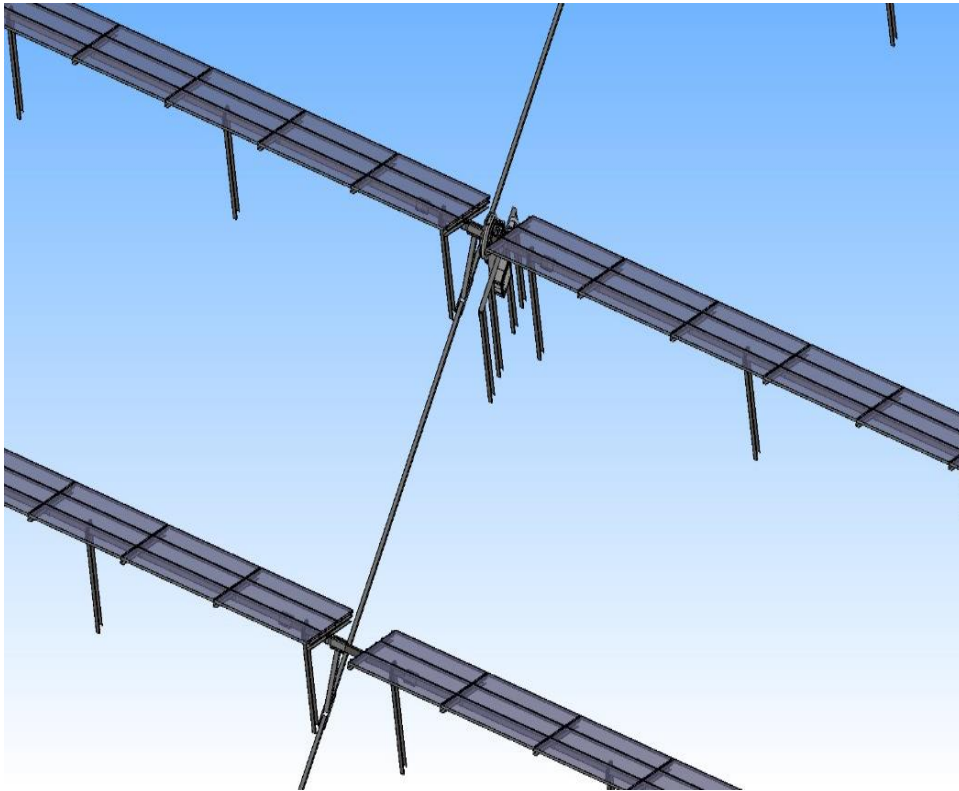
44 modules per row = 528 modules (871,2 m²)



Control Tracking System HTS



Example arrangement



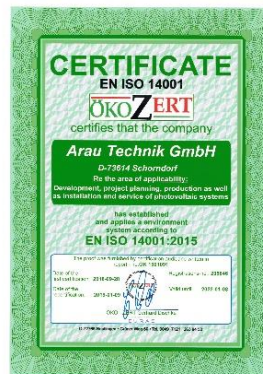
Construction



Construction







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