

PV Supporting structures for large scale PV projects





Since
1991

100%

Polish private capital

1700

employees

250 000 m²

industrial buildings and areas



Functional areas:

- Roof & Claddings
- Drywall Profiles systems
- Construction profiles
- **PV Systems**
- Fences
- PVC Production Center
- Steel Service Center



Roof & Claddings for
North American market



Closed cold-formed steel construction tubes
Hot-rolled sheets



Logistics company with a fleet
of over 300 trucks



Building materials
wholesaler group



High-tech roll forming machine factory
for metal processing in Finland



Multi-brand
car dealers

Worldwide Scale

Own companies and distribution centres in Germany,
Romania, Finland, Lithuania and USA

over 30 countries

Focus on Europe and North America



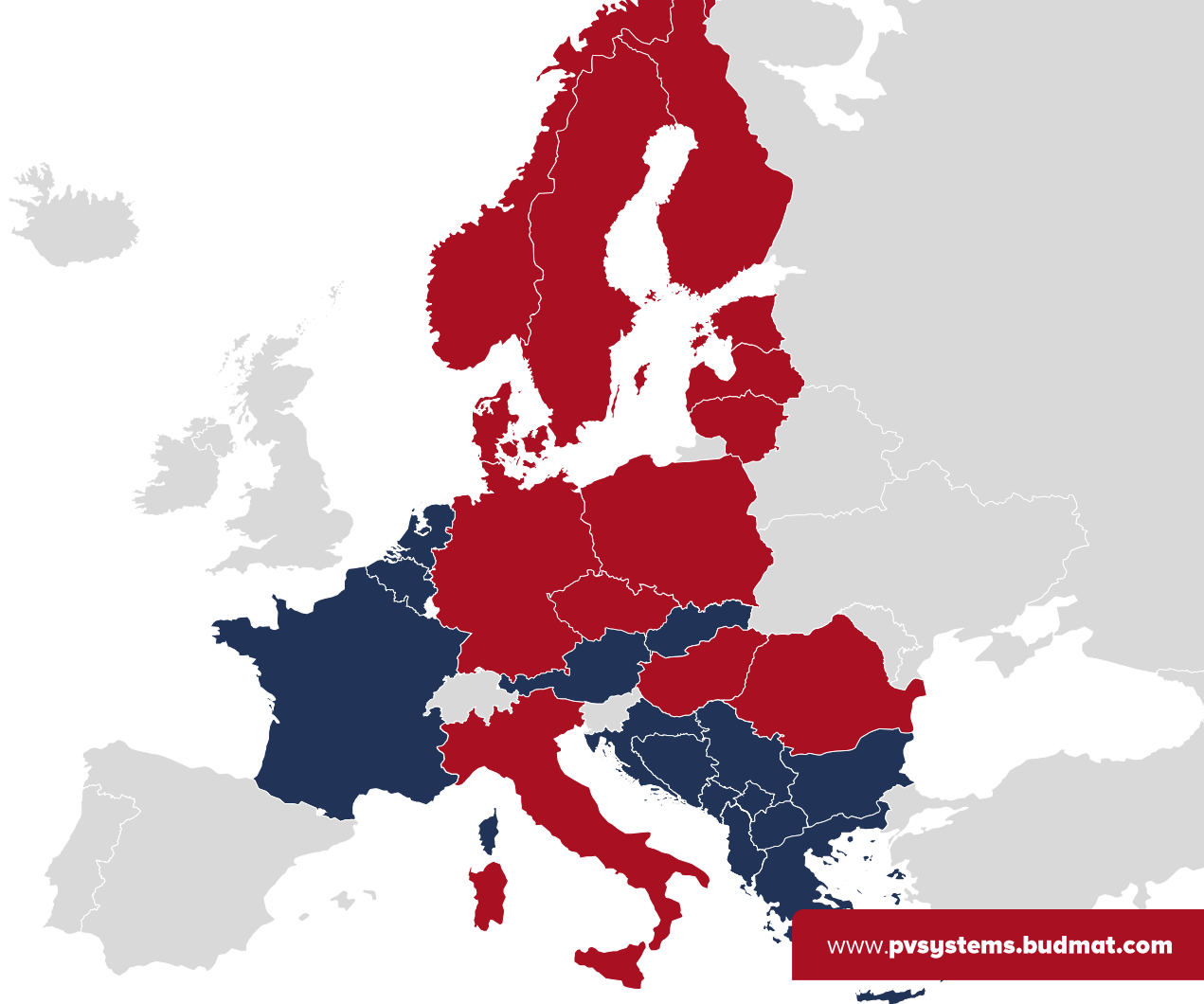
Budmat PV Systems
focused on
design & manufacturing
high-quality, versatile
support structures
for large-scale solar parks

4+ GWp

**Realized projects
In 13 countries
Europeanwide**

3+ GWp

**On-going projects
In pipeline
2025 / 2026**



Innovation & Scale



3+ GW

annual production capacity in 2024

6 GW

production capacity from 2026

40 000 m²

dedicated plant for PV structures production

www.pvsystems.budmat.com

Turnkey Solution



G (1:5)



Design:

Tailored projects with precise calculations and expert advice.



Production:

We use **Magnelis®-coated steel**, ensuring corrosion resistance in harsh environments, and offer **green steel** for lower CO₂ emissions.



Delivery:

On-time delivery directly to the site by our logistic company.



Support:

Technical assistance, installation training and project commissioning support.

PROJEKT PROJECT



Design

Customized Solutions for Every Project

The design team

Selects the most suitable support structures according to the given conditions and prepares documentation. They are also capable of adapting the project to even the most complex and demanding terrain.

The construction team

Develops the design and creates production and execution guidelines in line with the desired specifications, ensuring that our products are manufactured to perfection.




Design

On-site tests

- Compression
- Bending
- Pull out
- Soil aggressiveness
- Plot 3D surface scanning

RESEARCH ASSUMPTIONS

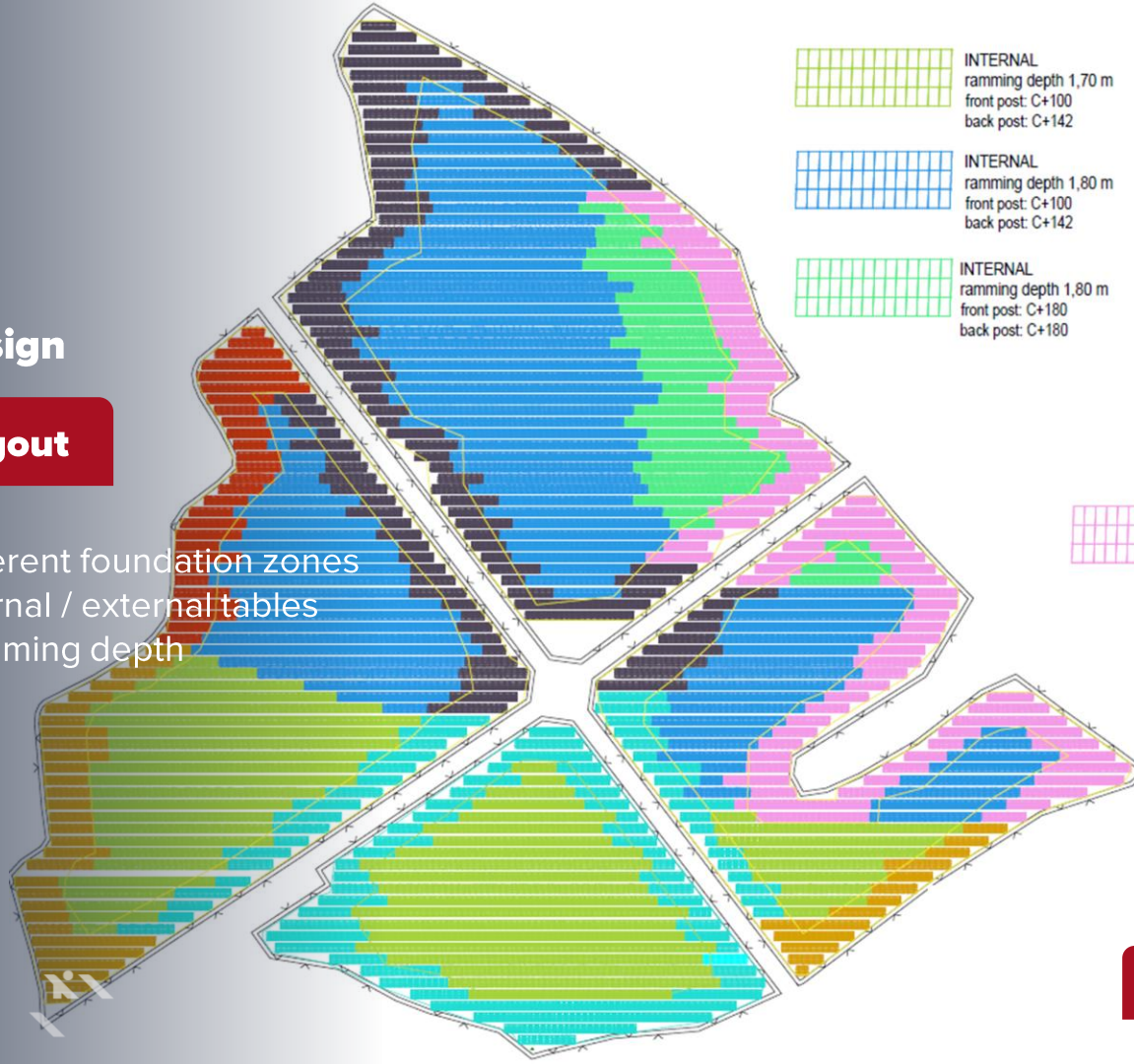
INFORMATION CARD				
Project Name				
Location of the area				
Investor				
Contact to the Investor	tel.:	e-mail:		
Project Unit		BUDMAT BOGDAN WIĘCEK ul. Otołińska 25, 09-407 PŁOCK, Polska		
Contact the Designer	tel.:	e-mail:		
Layout				
Geotechnical opinion				
Farm Power [MW]				
Investment area [ha]				
Assumed research procedure	<input type="checkbox"/> PROCEDURE ONE <input type="checkbox"/> PROCEDURE TWO			
Limiting the number of profiles for the test procedure	<input type="checkbox"/> TESTING WITH ONE TYPE OF PILE PROFILE ACC. TO CALC. <input type="checkbox"/> TESTING MULTIPLE TYPES OF PILE PROFILES			
Assumed number of POT test points per 1MW	<input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10			
Limit values of pile displacement in the ground	Pressing	Bending	Pulling Out	
	25,00 mm	25.00 mm including permissible plastic soil deformation of 10.00 mm	25,00 mm	
Required forces when selected test based on Procedure One.	External Tables (EXT)		Internal Tables (INT)	
	Pressing:	0,00 kN	Pressing:	0,00 kN
	Bending:	0,00 kN	Bending:	0,00 kN
	Pulling Out:	0,00 kN	Pulling Out:	0,00 kN
Base pile driving depth	<input type="checkbox"/> 1000 mm <input type="checkbox"/> 1500 mm <input type="checkbox"/> 2000 mm <input type="checkbox"/> 2500 mm			
Release date	02.09.2024r.			



Design

Plant layout

- Different foundation zones
- Internal / external tables
- Ramming depth



INTERNAL
ramming depth 1,70 m
front post: C+100
back post: C+142

INTERNAL
ramming depth 1,80 m
front post: C+100
back post: C+142

INTERNAL
ramming depth 1,80 m
front post: C+180
back post: C+180

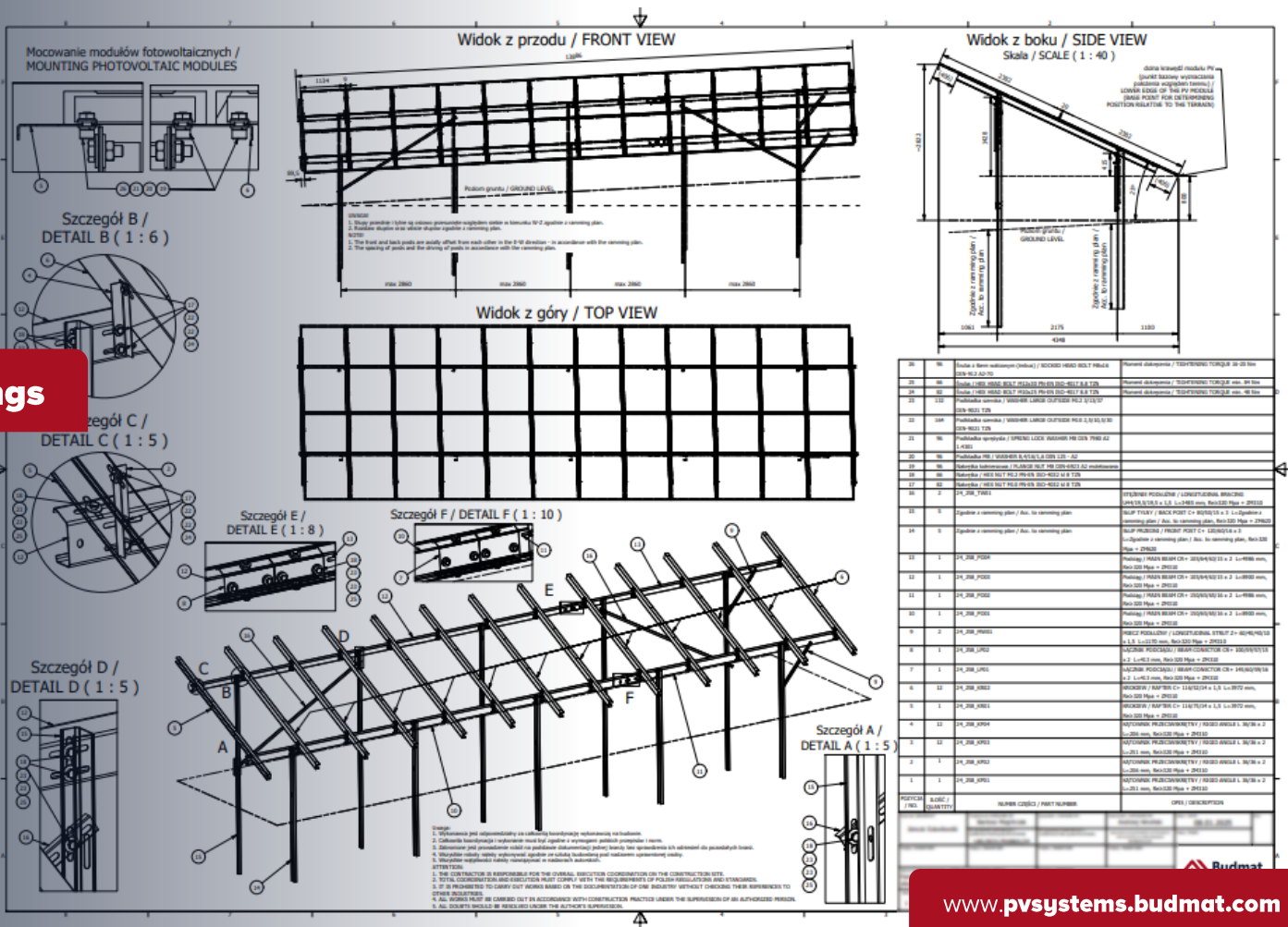
EXTERNAL
ramming depth 1,70 m
front post: C+100
back post: C+142

EXTERNAL
ramming depth 1,70 m
front post: C+120
back post: C+142

EXTERNAL
ramming depth 1,80 m
front post: C+100
back post: C+142

EXTERNAL
ramming depth 1,80 m
front post: C+120
back post: C+142

EXTERNAL
front post: C+180; ramming depth 1,80 m
back post: C+228; ramming depth 1,90 m





In-house

In-house every step of the process
from designing to manufacturing and
delivery:

- Deliveries direct from European steel mills
- Own warehouse for steel coils
- Fully automated production lines
- Finished product warehouse
- Own fleet of trucks



Production

Efficiency Through Innovation and Automation

The **fully automated production** lines and advanced technologies enable fast turnaround times to produce support structures on an unprecedented scale.



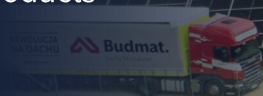
Delivery



Efficiency you can trust

We understand that **on time delivery** is crucial for project success. Budmat PV Systems ensures on-time delivery of all products directly to your site with our **300+ trucks fleet**.

Flexibility is key: we adapt to the changing needs of our clients, guaranteeing that your project stays on track and meets its deadlines.

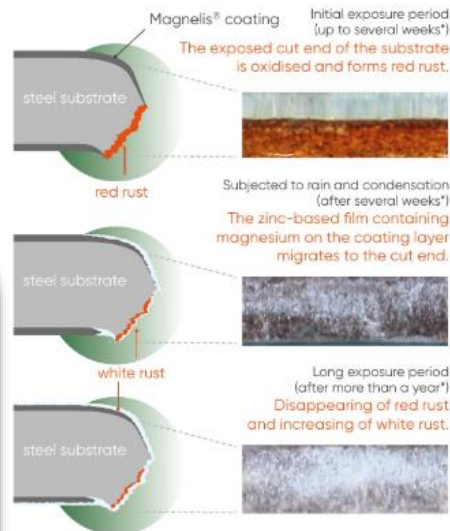




Durability

Our solutions are **guaranteed for up to 25 years**, making them a reliable choice and us a reliable supplier with experience in advanced design and implementations.

Self-healing cut edge protection certified by DIBT



* The speed of the self-healing depends on the environment and coating thickness.

Guaranteed up to 30 years with an expected lifetime of 50 years and more.

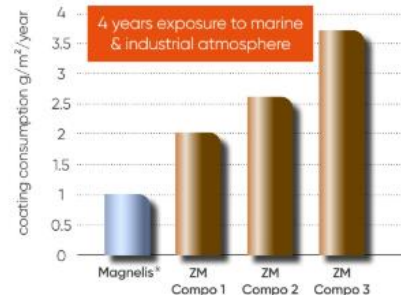
Atmospheric classification for upper structures according to EN ISO 9223:2021

Corrosion category ISO 9223	Magnelis® ZM310 Expected lifetime	Magnelis® ZM430 Expected lifetime	Magnelis® ZM620 Expected lifetime
C2	> 50 years	> 50 years	> 50 years
C3	> 50 years	40 to > 50 years	> 50 years
C4	15 to 30 years	20 to 40 years	30 to > 50 years
C5	8 to 15 years	10 to 20 years	15 to 30 years

Based on extensive field exposure tests in 20 sites around the world. Indicative and non-binding durations.

Better than other Zinc-Magnesium coatings

Compared to other ZM Coatings, Magnelis® offers the lowest corrosion rates.





Support & training

We have provided supporting structures for some of the largest photovoltaic parks in Europe, collaborating with major companies that have highest quality demands.



Examples of our realized projects

- Poland: **250 MWp**
- Lithuania: **218 MWp**
- Poland: **158 MWp**
- Poland: **100 MWp**
- Poland: **93 MWp**
- Poland: **80 MWp** portfolio
- Poland: **76 MWp** portfolio
- Denmark: **65 MWp**
- Germany: **60 MWp**
- Germany: **45 MWp**
- Estonia: **45 MWp**

check out our
virtual tour
of our projects



PV BUDTRACK

Dynamic and adaptive support structure for photovoltaic power plants.

Budmat's Tracker PV is a free-standing dynamic tracking system support structure. It is a single-axis system dedicated to vertically mounted PV modules.

More effective energy production

+20-35%

Testbeds in Finland and Poland

BUDTRACK STORM



High reliability

- Reinforced Tube design 120 mm
- Bi-Damper system
- Maintenance-free spherical Bearing
- Quick installation of the T-shaft clamp
- $\frac{3}{4}$ module support



Hight energy yield

- Budtrack Smart - AI controller
- Advanced backtracking
- Switchover point to safety position
- wind thresholds
- O&M Service

ISO **9001:2015**
ISO **14001:2015**
PN EN **1090**
TÜV Rheinland
XCarb

Research & Development
Upcoming future. Ambitious plans

Energy storage
PV vertical system
Hydrogen energy



Thank you
for your attention

