

SUPPORT STRUCTURES FOR PHOTOVOLTAIC PANELS



Budmat.
PV Systems





ABOUT US

30 years of experience in steel processing, knowledge and professionalism of Budmat experts are our patent for creating innovative solutions. We design and supply solutions for the construction industry in the field of roofing and facades, as well as finishing and construction profiles made of steel. Dozens of legally protected solutions are the result of the work and experience of a team of experts. Budmat PV systems are distinguished primarily by the highest product quality, comprehensive offer and commitment to make the world a better place by enabling access to clean, renewable energy.

We specialize in the production of steel support systems for photovoltaic farms, home solar systems (roofing and above ground), carports, as well as cold formed structures and other steel structures.

We approach each investment individually, with due attention and care for every detail.

As Budmat PV Systems, we specialize in the production and sale of products such as: structures for photovoltaic farms, cold formed structures such as roof purlins, structural liner trays etc., steel structures, design services and materials processing services.

We provide comprehensive cooperation at every stage of the implementation:

- Calculations and planning
- Selection of the right products
- Deliveries on schedule
- Technical assistance with installation
- Support during use

Our solutions are used by the largest energy producers and suppliers in Poland and Europe who choose Budmat products for their investments.

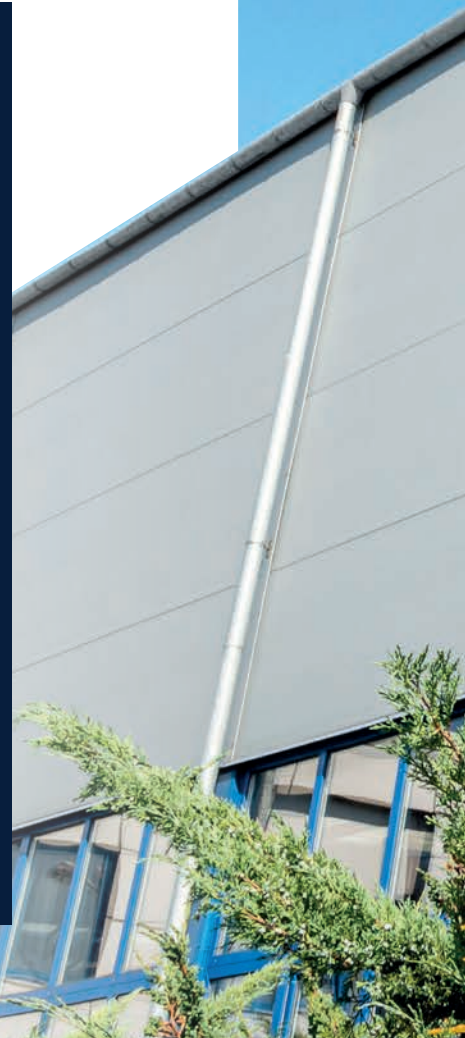
We are a member of the Polish Photovoltaic Association.

Products dedicated to photovoltaic farms are made of high quality steel in ZM310 and ZM430 Magnelis® coating.

Manufacturing capabilities:

50 000 tons
of ready-made profiles
per year.

By the end of 2021, our monthly production of ready-made profiles doubled, which gives us the opportunity to execute the largest photovoltaic investments.



Professional and comprehensive customer support in the execution of investments.



Design

Our specialists will prepare for you an individual installation design according to your needs. They will perform the necessary calculations, take into account all details and advise you to give you the certainty of a well-executed investment.



Production

We produce support structures for photovoltaic systems in our own machine park from the best steel from ArcelorMittal steel works in Magnelis® metal coating, which protects against corrosion in extremely harsh environments. Upon request, we supply products provided with a "green steel certificate", i.e. produced with reduced CO² emissions.



Delivery

Together with each investor, we develop a delivery schedule, and finished products are delivered always on time and straight to the construction site!

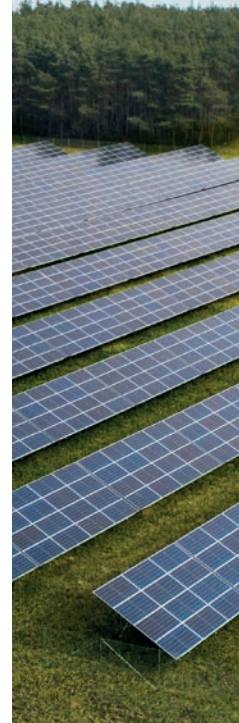


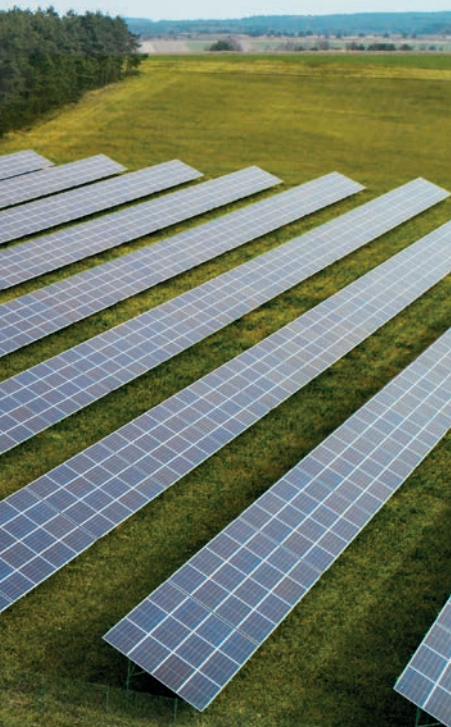
Support

We provide technical assistance in the installation of the structure and support during its period of use.

SUPPORT STRUCTURES FOR PHOTOVOLTAIC MODULES

- Top quality
- Environmental care
- Cost optimization
- Investment security





The execution of investments with Budmat PV systems means only benefits:

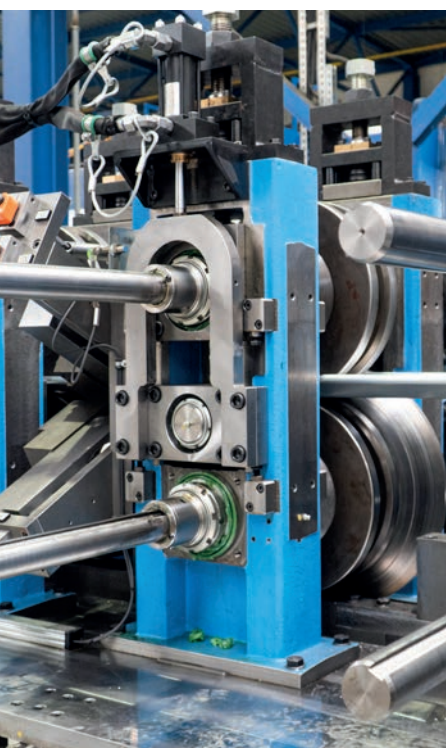
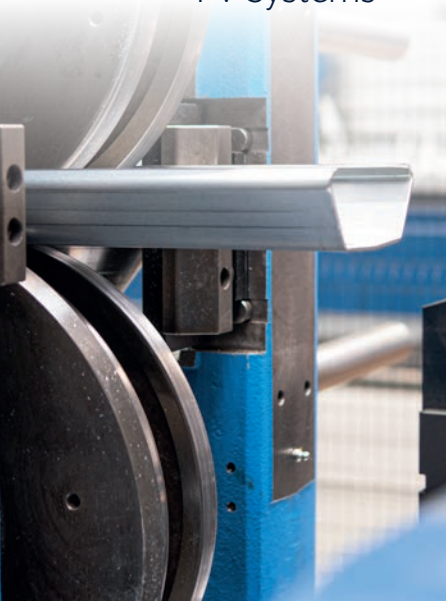
- Easy and quick installation – proven and precisely manufactured solutions
- Cost optimization – production for individual orders according to the needs of the investment
- Wide application – the variety of construction models gives the opportunity to carry out investments in any terrain
- High quality and safety – best steel from ArcelorMittal in Magnelis® coating guarantees long-term use
- Individual approach – every investment is most important to us. Our own machine park and an experienced team of specialists will provide you with the certainty of a personalized offer adjusted to your expectations and needs
- Environmental protection – the highest quality Magnelis®-coated steel is 100% recyclable and can also be reprocessed multiple times



A wide range of steel structures:

- Driven into the ground
- Fixed to concrete ballast blocks
- Tilt angle range : 15°, 20°, 25°, 30°, 35°
- Configurations of the number of vertical and horizontal panels on one table: 4x3, 4x4, 4x5, 4x6, 4x7, 4x8, 4x9
- Single-support and two-support structures
- Individual projects up to non-standard module sizes





RANGE OF SERVICES

Bending of steel profiles:

- 4 mm thick and up to 13 m long using 300 ton press brakes and a bending line length of 6,500 mm each.
- 6 mm thick on an HD hydraulic press with a pressure of 350 tons and a bending line length of 6,100 mm.

Laser cutting of sheets up to 25 mm thick and maximum dimensions 3000x1500 mm. Workpieces: structural steel up to 25 mm (oxygen), stainless steel up to 20 mm (nitrogen) and aluminium: up to 12 mm (nitrogen).

Laser cutting of pipes and profiles up to 8 mm thick and surrounding wheel diameter 15-250 mm. Possibility of processing tubes and profiles, as well as flat bars – shape cutting of edges, burning holes.

Perforation and roller profiling of cold-formed profiles of "C", "Z", "S" type of elements up to a thickness of 3 mm and a length of up to 15 m.

Perforating and punching /detailing of materials in the structural steel circle from 0.6 to 4 mm and stainless steel from 0.6 to 3 mm.

ENVIRONMENTALLY- FRIENDLY TECHNOLOGIES

Sustainability is not a fad, but a necessity and a duty. As a socially responsible company, Budmat has for many years been taking steps to minimise the environmental impact by investing in modern technologies and processes of rational waste management. Budmat photovoltaic module support systems offer a wide range of innovative components for the production of clean energy without generating CO².

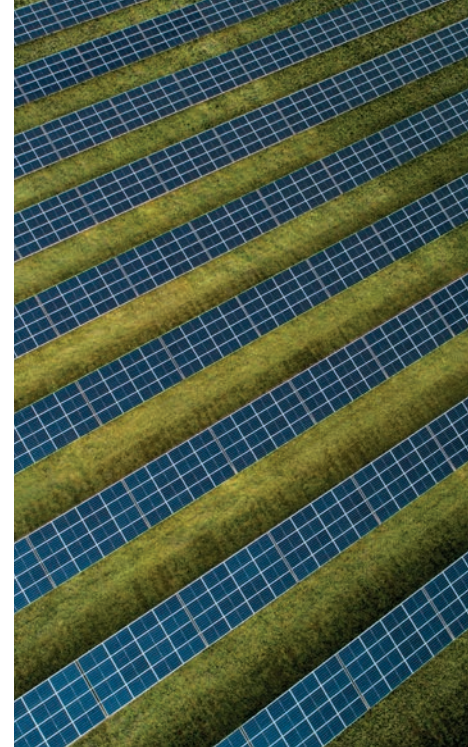
For the sake of the environment and for future generations, we develop and invest in modern technologies, eco-friendly products and innovative solutions. Our commitment to clean energy production from renewable sources is our direction for improving the quality of life in a clean, friendly environment, minimizing the impact on the environment.

Using many years of experience, knowledge and the latest technologies, our experts have designed support structures for the construction of photovoltaic farms that meet the highest quality standards. Budmat's offer meets the highest quality standards and is addressed to both individual and institutional investors.

Good energy comes with Budmat PV Systems products.



ISO 9001, ISO 14001 Quality
and Environment Management



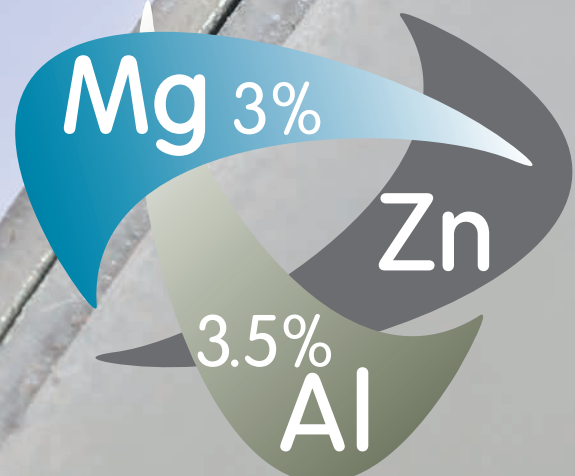
DURABLE COATING FOR SOLAR STRUCTURES

Our structures for photovoltaic farms are manufactured from the best steel with metallic Magnelis® coating – the very best in terms of anti-corrosion protection.

Basic advantages:

- Corrosion resistance: three times higher than that of zinc-coated steel*
- Self-healing properties ensuring effective edge protection
- Cost-effectiveness in comparison to batch-galvanised steel

* Data based on exposure test results



BUDMAT PV SYSTEM IN NUMBERS

We are a company with extensive experience,
well-established market position
and ever-growing trust of millions of
customers worldwide.



30 years on the market



**50000
tonnes of
ready-made
profiles per
year**



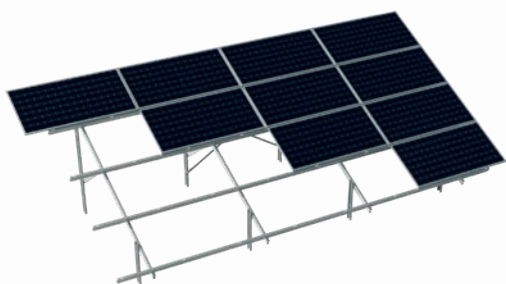
**6000 football
fields**

The profiles produced so far could
be used to build a farm the size of
6,000 football fields.



SUPPORT STRUCTURES FOR PHOTOVOLTAIC FARMS

SOLAR FARMS



FWD1 bifacial

Structure: Two-support, driven into the ground

Module quantity configurations: 3x3, 3x4, 3x5, 4x3, 4x4, 4x5

Tilt angle: 20° – 30°

Module size: any

Module type: bifacial

Orientation: horizontal

Number of modules: 20, 24 pcs

Structure: S320GD steel + ZM 310/430/620 MAGNELIS

Wind zone: by GPS location

Snow zone: by GPS location

SOLAR FARMS



FWD1

Structure: Two-support, driven into the ground

Module quantity configurations: 4x3, 4x4, 4x5, 4x6, 4x7,
4x8, 4x9

Tilt angle: 15° – 35°

Module size: any

Module type: monofacial

Orientation: horizontal

Number of modules: 12 – 36 pcs

Structure: S320GD steel + ZM 310/430/620 MAGNELIS

Wind zone: by GPS location

Snow zone: by GPS location

FWD2 bifacial



Structure: Two-support, driven into the ground

Module quantity configurations: 2x4, 2x5, 2x7, 2x8, 2x9, 2x10

Tilt angle: 20° – 30°

Module size: any

Module type: bifacial

Orientation: vertical

Number of modules: 8 – 20 pcs

Structure: S320GD steel + ZM 310/430/620 MAGNELIS

Wind zone: by GPS location

Snow zone: by GPS location

FWD2



Structure: Two-support, driven into the ground

Module quantity configurations: 2x4, 2x3, 2x4, 2x5, 2x6, 2x7, 2x8, 2x9, 2x10, 2x11, 2x12, 2x13, 2x14

Tilt angle: 15° – 35°

Module size: any

Module type: monofacial

Orientation: vertical

Number of modules: 8 – 28 pcs

Structure: S320GD steel + ZM 310/430/620 MAGNELIS

Wind zone: by GPS location

Snow zone: by GPS location

FWD2.3



Layout: Vertical

Structure: Two-support, driven into the ground

Module quantity configurations: 3x5, 3x6, 3x7, 3x8, 3x9, 3x10, 3x11, 3x12

Tilt angle: 15° – 35°

Module size: any

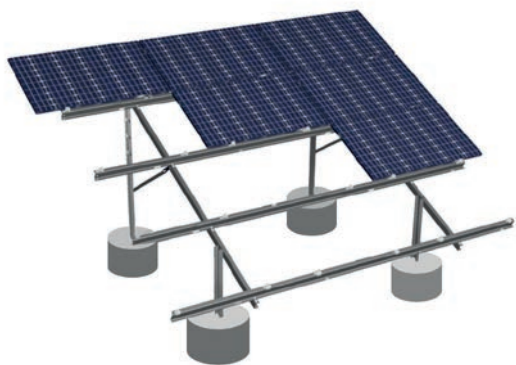
Module type: monofacial

Number of modules: 15 – 36 pcs

Structure: S320GD steel + ZM 310/430/620 MAGNELIS

Wind zone: by GPS location

Snow zone: by GPS location



FBD1

Construction: Two-support fixed to concrete ballast blocks
Module quantity configurations: 4x3, 4x4, 4x5, 4x6, 4x7, 4x8, 4x9
Tilt angle: 15° – 35°
Module size: any
Module type: monofacial
Orientation: horizontal
Number of modules: 12 – 36 pcs
Structure: S320GD steel + ZM 310/430/620 MAGNELIS
Wind zone: by GPS location
Snow zone: by GPS location



FBD2

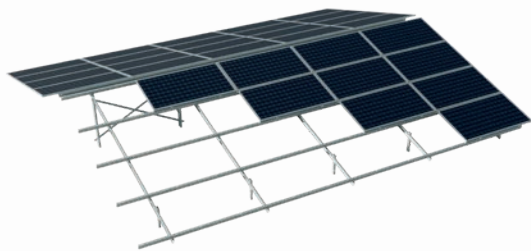
Construction: Two-support fixed to concrete ballast blocks
Module quantity configurations: 2x4, 2x3, 2x4, 2x5, 2x6, 2x7, 2x8, 2x9, 2x10, 2x11, 2x12
Tilt angle: 15° – 35°
Module size: any
Module type: monofacial
Orientation: vertical
Number of modules: 8 – 28 pcs
Structure: S320GD steel + ZM 310/430/620 MAGNELIS
Wind zone: by GPS location
Snow zone: by GPS location



FWWZ2

Structure: Three-supported/ four-supported, driven into the ground
Module quantity configurations: 2x2x5 - 2x2x10
Tilt angle: 10 – 25°
Module size: any
Module type: monofacial / bifacial
Orientation: vertical
Number of modules: 20-40 pcs
Structure: S320GD steel + ZM 310/430/620 MAGNELIS
Wind zone: by GPS location
Snow zone: by GPS location

FWWZ1



Structure: Three-supported/ four-supported, driven into the ground

Module quantity configurations: 2x4x3 - 2x4x5

Tilt angle: 10 – 25°

Module size: any

Module type: monofacial / bifacial

Orientation: vertical

Number of modules: 24-40 pcs

Structure: S320GD steel + ZM 310/430/620 MAGNELIS

Wind zone: by GPS location

Snow zone: by GPS location

FWWZ2.3



Structure: Three-supported/ four-supported, driven into the ground

Module quantity configurations: 2x3x5 - 2x3x9

Tilt angle: 10 – 25°

Module size: any

Module type: monofacial

Orientation: vertical

Number of modules: 30-54 pcs

Structure: S320GD steel + ZM 310/430/620 MAGNELIS

Wind zone: by GPS location

Snow zone: by GPS location



SUPPORT STRUCTURES FOR HOME PHOTOVOLTAIC SYSTEMS

HOME SOLAR SYSTEMS



FWD1 HDM

Layout: Horizontal

Structure: Two-support, driven into the ground

Module size: 2008-2205 x 996-1054 x 35

Module type: monofacial

Layout of modules: 3x3, 3x4, 3x5, 4x3, 4x4, 4x5

Tilt angle: 25°

Location: Up to 300 AMSL

Wind zone: 1

Snow zone: 1,2,3

HOME SOLAR SYSTEMS



FWD2 HDM

Layout: Vertical

Structure: Two-support, driven into the ground

Module size: 2008-2205 x 996-1054 x 35

Module type: monofacial

Layout of modules: 2x4, 2x5, 2x6, 2x7

Tilt angle: 25°

Location: Up to 300 AMSL

Wind zone: 1

Snow zone: 1,2,3

FWD1 HMM



Layout: Horizontal

Structure: Two-support, driven into the ground

Module size: 1640-1776 x 990-1054 x 35

Module type: monofacial

Layout of modules: 3x3, 3x4, 3x5, 4x3, 4x4, 4x5

Tilt angle: 30°

Location: Up to 300 AMSL

Wind zone: 1

Snow zone: 1,2,3

FWD2 HMM



Layout: Vertical

Structure: Two-support, driven into the ground

Module size: 1640-1776 x 990-1054 x 35

Module type: monofacial

Layout of modules: 2x4, 2x5, 2x6, 2x7

Tilt angle: 30°

Location: Up to 300 AMSL

Wind zone: 1

Snow zone: 1,2,3

FWD2 HBM Bifacial



Layout: Vertical

Structure: Two-support, driven into the ground

Module size: 1720-2390 x 1095-1140 x 30/35/40

Module type: bifacial

Layout of modules: 2x4, 2x6

Tilt angle: 25°

Location: Up to 300 AMSL

Wind zone: 1

Snow zone: 1,2,3



FWD2 HBM

Layout: Vertical

Structure: Two-support, driven into the ground

Module size: 1720-2300 x 1095-1140 x 30/35/40

Module type: monofacial

Layout of modules: 2x4, 2x5, 2x6, 2x7

Tilt angle: 25°

Location: Up to 300 AMSL

Wind zone: 1

Snow zone: 1,2,3

Trapezoidal steel bridge

Height (mm): 100

Dimensions (mm): 250, 340, 420

Orientation: Vertical

Module size: any

Material: S320GD steel + ZM310 Magnelis



Roof profile

Installation method: Perpendicular to the long side of the module

Dimensions (mm): 2250, 5435

Orientation: any

Module size: any

Material: S320GD steel + ZM310 Magnelis






Carports

The market-unique support structure for Carport PV modules is designed to make it as user-friendly as possible.

Entering and leaving even small plots, driveways and parking lots, or unpacking the car after shopping or taking the kids out of the car will not be problematic any longer. The spacing between the pillars makes opening the doors or the trunk lid comfortable and unobstructed, without the risk of damaging them. Aesthetic appearance, a variety of functionalities and positive impact on the environment only confirm that Budmat Carport PV System is unique.



   +48 501 197 163
+48 514 196 233

bokpv@budmat.com
systempv@budmat.com
farmypv@budmat.com

systempv.budmat.com