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About Advanced Solar

Headquartered in North Macedonia, Advanced Solar is a specialized company that develops, manufactures, and delivers highly engineered solutions for photovoltaic systems.

Backed by a modern in-house production line and a team of experienced engineers, we design and manufacture:

- Structures and components for solar power plants
 Structures and solutions for agrivoltaic systems
 C, U, and Z-type profiles made from Magnelis® coated steel
 Mounting systems and fencing poles for photovoltaic facilities
 Lighting poles and monitoring system supports
 We exclusively use certified materials of European origin, such as Magnelis®, ensuring superior corrosion resistance, high precision, and long-lasting durability across all our products.

With a fully controlled process of production, storage, and logistics, Advanced Solar provides complete solutions for the solar industry — from the initial concept to final on-site delivery.



Single Pile Structure SA12L & SA12P

SA12L: Designed for photovoltaic panels installed in a landscape orientation, this structure combines steel and aluminum for superior strength and durability. It increases energy output, enhances cooling efficiency, and reduces the risk of micro-cracks under extreme weather conditions.

SA12P: A cost-effective solution optimized for portrait-oriented panels, featuring a structure made of high-quality steel and aluminum. Ideal for mild climates and stable terrain, it ensures secure and economical installation.

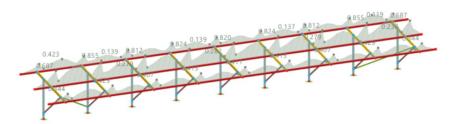












Double Pile Structure SA24L & SA24P



Best Price

This type of structure offers a highly reliable solution at a competitive price, combining durability, ease of installation.

Static Stability

The structure's design provides stability, reducing panel vibrations and cracks.

Mounting

Its design allows for easy and fast mounting, which significantly reduces installation time and labor costs — ultimately lowering the total price of the entire structure.

SA24L: Structure for landscape bifacial panels that allows maximum light exposure, better cooling, and higher energy production. The panels are secured with aluminum brackets and stainless-steel screws on five horizontal profiles for increased stability. Ideal for large plants with high yield and long lifespan.

SA24P: Cost-effective construction for standard panels, tailored for moderate conditions. It offers a good investment-to-energy performance ratio, with quick and easy installation that reduces costs.



Light Poles for PV Plants

Single arm

Single-arm light poles: Often used for long surfaces where a double-arm pole is not required. Our 6-meter lighting poles provide optimal illumination and fully meet all basic requirements.

Double arm

Double-arm light poles: Often used at corners, our model with an adjustable angle offers flexibility with two angle options between the arms: 45 and 90 degrees, customized according to the client's requirements.

| - 1 | | | |
|-----|-----------------------|------------------|------------------|
| | | Single-arm | Double-arm |
| | Total Length | 6 meters | 6 meters |
| | Angle | 100 degrees | 45 or 90 degrees |
| | Components | 3 parts + anchor | 3 parts + anchor |
| | Materials | S235/S355J2 | S235/S355J2 |
| | Surface protection | HDG, ECG, ESP | HDG, ECG, ESP |





Adjustable anchor designed for easy installation in concrete foundations, providing stability and precise alignment of lighting poles.



The top of the lighting pole features an arm that passes through the tube, laser-cut to allow smooth cable passage. A cover is mounted at the very top, secured with two screws, preventing the entry of dirt and rain, ensuring durability and protection.



The opening for the electrical components is precisely laser-cut, ensuring accurate dimensions. The cover is also laser-cut for a precise fit and is secured with two Allen screws, providing enhanced safety and protection.



The preassembled anchors serve as a sturdy support for the lighting pole, designed and welded for embedding in concrete foundations. They feature a threaded rod that allows easy and adjustable installation of the pole, ensuring precise leveling.



Fence poles for Photovoltaic Plants

Our portfolio also includes the production of durable fence posts, with or without holes for barbed wire installation, using high-quality hot-rolled steel tubes.



Services



Advanced Solar offers an all-in-one solution for solar structures – from design and manufacturing to delivery and installation.



Our design and development team works directly with you to create solutions tailored to your specific requirements.



We use top-quality materials such as EU-certified alloy steels with Magnelis, or HDG surface protection for long-lasting durability and performance.



Our team is an expert in ground-mounted solar power plants, offering efficient and reliable solutions. With years of experience, we cover everything – from site assessment to design and installation. We use high-quality materials and advanced technology for long-term optimal performance.



Our team specializes in fast and efficient installation of rooftop solar plants. We use modern technology and high-quality materials for reliable, long-lasting solutions that transform your roof into a stable source of energy.

Aluminum profiles

The Advanced Solar portfolio also includes specially designed aluminum alloy profiles for the installation of photovoltaic panels.



Enhanced statics

Additional research and development have led us to improve and enhance load durability.



Simplified installation

Based on the guidelines from our field teams, we have been able to create solutions that assist in daily operations and accelerate the construction process of the power plants.



Competitive price

Our innovative solutions have led to a higher quality and more competitive European product.



Profiles for PV plants on ground



Middle clamps



Profiles for PV plants on roofs



End clamps

Your Ideas, Our Expertise

At Advanced Solar, we don't just deliver components — we deliver fully integrated solutions, precisely engineered to meet your specific requirements.

Our experienced engineering team transforms your ideas, technical drawings, and concepts into functional, high-performance products for the solar energy sector, fencing systems, and street lighting infrastructure.



OEM and Custom Design to Your Specifications

We adapt our production process to your exact needs — whether it's a one-off prototype or a full-scale production run. Working directly from your drawings and specifications, we provide complete flexibility in material selection, dimensions, and finishing options.



Engineering Support and Technical Consulting

Our team of engineers, technicians, and manufacturing specialists offers comprehensive support at every stage of the project:

- Technical drawing review and optimization
- Test production and quality assurance
- Packaging, logistics, and final delivery
- Every project is executed with precision, care, and professionalism



Flexible Manufacturing and Rapid Prototyping

Equipped with a modern machine park — including CNC laser, CNC milling, CNC lathe, automated profile line (C, U, Z), CNC bending presses, and specialized engineering software — we offer fast prototyping, product testing, and scalable manufacturing with short lead times.

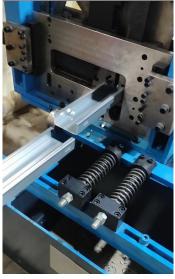


Long-Lasting Durability You Can Rely On

We work exclusively with proven materials such as Magnelis®, aluminum, and stainless steel, ensuring excellent corrosion resistance and exceptional longevity — even in the harshest environments

Production - R&D

Advanced Solar operates a fully automated production facility in Skopje, Macedonia, specializing in the fabrication of C/U/Z steel profiles for photovoltaic mounting systems.









Our engineering division utilizes a modern machinery park for R&D, prototyping, and custom product development. We continuously integrate advanced manufacturing techniques and Al-driven process optimization to improve precision, product quality, and lead times across all production stages.

Clients and collaborators















Certificates

認證證書 ◆ CEPTUФUKAT ◆ CERTIFICADO ◆ CERTIFICAT

ZERTIFIKAT + CERTIFICATE +

CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

Registration number 1017 - CPR - 18.161.272

Kind of product: Steel construction parts, components, kits and structures

Scope of FPC: Manufacture of steel construction parts, components, kits and structures execution class to EXC 2 according to EN 1090-2

3a, 3b according to EN 1090-1+A1, table A1

Društvo za proizvodstvo, trgovija i uslugi ADVANCED-SOLAR DOOEL uvoz-izvoz Skopje Darvinova br. 21b, MK-1000 Dračevo, Kisela Voda Company Registration No.: 7483740

Društvo za proizvodstvo, trgovija i uslug uvoz-izvoz Skopje Boris Trajkovski 200K, MK-1000 Skopje dstvo, trgovija i uslugi ADVANCED-SOLAR DOOEL

EN 1090-1:2009+A1:2011

the factory production control is in compliance with relevant requirements.



DER KONFORMITÄT DER WERKSEIGENEN PRODUKTIONSKONTROLLE Im Einklang mit der Verordnung Nr. 305/2011 des Europäischen Parlaments und des Rates (EU) vom 9. März 2011, durch welche die harmonisierten Bedingungen für die Einführung von Bauprodukten auf dem Markt festgelegt werden und durch welche die Richtine des Rates 881/08/EWG aufgehoben wird wird dieses Zerffisks für die Rodende Beuordukt erfelt:

Bauteile, Elemente, Systeme und Konstruktionen aus Stah

ZERTIFIKAT

Herstellung von Bauteilen, Elementen, Systemen und Konstruktioner aus Stahl, Ausführungsklasse bis EXC 2 gemäß EN 1090-2 3a, 3b gemäß EN 1090-1+A1, Tabelle A1

認證證書 ◆ CEPTUФИKAT ◆ CERTIFICADO ◆ CERTIFICAT

ZERTIFIKAT + CERTIFICATE +

Društvo za proizvodstvo, trgovija i uslugi ADVANCED-SOLAR DOOEL uvoz-izvoz Ske

Društvo za proizvodstvo, trgovija i uslugi ADVANCED-SOLAR DOOEL uvoz-izvoz Skopje
Boris Trajkovski 200K, MK-1000 Skopje

Durch dieses Zertfikat wird nachgewiesen, dass alle Vorschriften über die Bewertung und Überprüfung der Leistungsbeständigkeit, welche im Anhang ZA der Norm

der Leistungsbeständigkeit, werbe im Anhang ZA der Norm

EN 1099-1:2009-4-1:2011
beschrieben sind, im Rahmen des Systems 2+ angewendet wurden, und dass
die werkseiligene Produktionskontrolle sämtlichen einschlägtigen Anforderungen
entspricht.

(leranden ?

TÜY SÜD Czech s.r.o. + Novodvorská 994 + 142 21 Prague 4 + Czech Republic + certification coditivasud com

(III)



Certificate



ISO 9001:2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, ass certification decision according to ISO/IEC 17021-1:2015, that the organization

Drustvo za proizvodstvo, trgovija i uslugi ADVANCED-SOLAR DOOEL uvoz-izvoz Skopje Str. Darvinova 21b, Dračevo Kisela Voda 1000 Skopje Republic of North Macedonia



Production of metal products and elements for various purposes; Assembly of equipment and installations of solar panels and

Playedv, 2025-06-30

Memografic

Certification Body at TÜV NORD FERT FAIR





TUVNORD

Certificate



ISO 14001:2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, ass certification decision according to ISO/IEC 17021-1:2015, that the organization

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operates a management system in accordance with the requirements of ISO 14001:2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Production of metal products and elements for various purposes; Assembly of equipment and installations of solar panels and





Shaping the Future of Solar with Cutting-Edge Engineering!

Contact



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