




powerful connections

Substructure, DC Cabling for Photovoltaics

A large-scale photograph of a solar farm at sunset. The solar panels are arranged in neat rows, reflecting the warm orange and yellow light of the setting sun. In the background, a tall, lattice-structured power line tower stands against a sky filled with soft, wispy clouds. The overall scene conveys a sense of clean, sustainable energy.

Welcome to the world
of clever solutions

Jurchen Technology

Jurchen Technology specializes in the development and production of high-quality components for photovoltaic systems. We are the only provider on the market to offer a dual and innovative component solution for photovoltaic plants. This means that we manufacture both the substructure and the appropriate high-quality DC cabling for photovoltaic systems from the rooftop to the power park.

In its production of all components Jurchen Technology attaches special importance to the quality of the materials and workmanship and the long-lasting reliability of the products. The company's own development center guarantees thought-out and safe technical innovations and performs the preliminary work for the comprehensive range of products. This allows us to implement an extremely wide range of customer requirements, individually and optimally.

The Jurchen Technology Expert Team supports customer projects from the planning and construction to system approval and operation. Engineers and technicians with many years of experience in the field of solar energy work out the structural engineering planning and cost-efficient cabling solutions. Jurchen Technology delivers the systems components directly to the building site and provides support for the construction work and system approval if required. Even afterwards, the personal contact from Jurchen Technology is always available for his customers.

The clever double solution for photovoltaic systems: Jurchen Technology is the only manufacturer on the market to offer the substructure and DC cabling from one source. This internationally active company offers its customers a transfer of know-how from the start of the project to the acceptance of construction work.



Values & Visions

We aim to fulfill the expectations of our customers so that they are completely satisfied. It therefore goes without saying that we always keep the know-how of our employees in the field of solar technology at state-of-the-art level and cultivate intensive contact with our customers. We meet the customers' desire for a photovoltaic system that functions stably over the long term with sophisticated products subjected to a continual improvement process.

Jurchen Technology stands for open and honest communication with the customer. We only promise things of which we are entirely certain. The successful use of our product solutions in the field of substructure and DC cabling for many years in a large number of customer projects is the standard by which we measure our daily performance.

„Keep it simple“ is the guiding principle in the development of our products. This saves on costs during manufacturing and ensures the customer swift and simple use on the construction site.

The quality and reliability of all of our products are the result of intensively lived team culture: Open, honest cooperation characterises the working atmosphere at Jurchen Technology throughout and between all departments, sites and company hierarchies. There is always room for new ideas – every employee is important. This results in a working culture that makes us capable of top performance.

For us, the principle „whoever is right is right“ applies, regardless of whether the person is a trainee or an engineer.

Michael Jurchen, Managing Director



Substructure Power Plants

Jurchen Technology will provide you with a suitable frame system for your photovoltaic power plant, appropriate for the type of terrain. Regardless of whether it be the revolutionary PEG E-W system, single-support Uni-Base, the double-support Twin-Base or a completely adapted system – Jurchen Technology has a product for every application.

The company's own Engineering Department carries out the structural engineering calculation based upon the general conditions such as the wind and snow load and the results of our drive pipe sampling. The customer can thus be certain that the chosen substructure will withstand the on-site strains and stresses.

For the substructure, Jurchen Technology supplies suitable module clamps for all common modules. Whether you are planning to use thin-layer or crystalline modules, you will increase the effectiveness of the planned system by using the Jurchen Technology DC cabling systems. If required, we can optimise the circuit plan for you.

Jurchen Technology will provide you with a suitable frame system for your photovoltaic power plant, appropriate for the type of terrain. We will offer the right DC cabling, adapted to the relevant conditions.



DC Cabling

The cables are the „life veins“ of the photovoltaic system. They have to defy the wind and weather for many years and reliably safeguard the electricity yields. Jurchen Technology offers particularly long-lasting and efficient components for the cabling of photovoltaic systems which are optimally adapted to the substructure solutions. The innovative Jurchen Technology cable systems have been in use reliably for years in an extremely wide range of customer systems – up to now with a performance of more than 2 GWp.

Every single photovoltaic system is an entirely individual power plant. Jurchen Technology therefore already supports partners and customers in the planning and project development phases and conceives cost and output-optimized connection solutions. You too can be benefitting from Jurchen Technology's many years of technical expertise even as early as in the preliminary planning stage: Various cable configurations are available on the company's homepage. It is thus very simple to produce a desired cable configuration on your PC and send it to the Jurchen Technology expert team for an individual quotation.

The highly reliable Jurchen DC cabling systems are marketed under the product brand **Sykonec®**. This comprises splicing cables for the efficient wiring of thin-layer systems, string fuses and string diodes.

Our newly developed T-distributor for the wiring of crystalline modules offers you a high saving potential: up to 50% shorter installation time, up to 60% less string lines and up to 75% less consumption at plug connections.

Of course, all Jurchen Technology cable solutions meet the highest requirements for quality and safety and are TÜV-tested in accordance with the official testing standards for sub-generator connection systems.

Jurchen cable connections make sure that photovoltaic systems are at their best: Savings due to the T-distributors:

- up to 50% shorter installation time
- up to 60% less string lines
- up to 75% less consumption at T-plug connections
- up to 15 Euro higher feed-in yield in 20 years per plug connection saved



Production

The production at Jurchen Technology is characterized by a great depth of production, which is spread over several sites. Apart from a few standard parts, all components are produced in one of the Jurchen Technology factories. Here, the qualified employees have modern machinery at their disposal.

Our production departments comprise aluminum processing, steel finishing, cable manufacture, roll transformer technology and the production of tools and molds.

At Jurchen Technology, process safety throughout production is the basis for reliable quality. All products and processes are subject to a constant quality monitoring process.

Particularly for the quality control of the DC cabling systems, the company possesses all the relevant measurement equipment from the microsection laboratory to the high-voltage test cell.

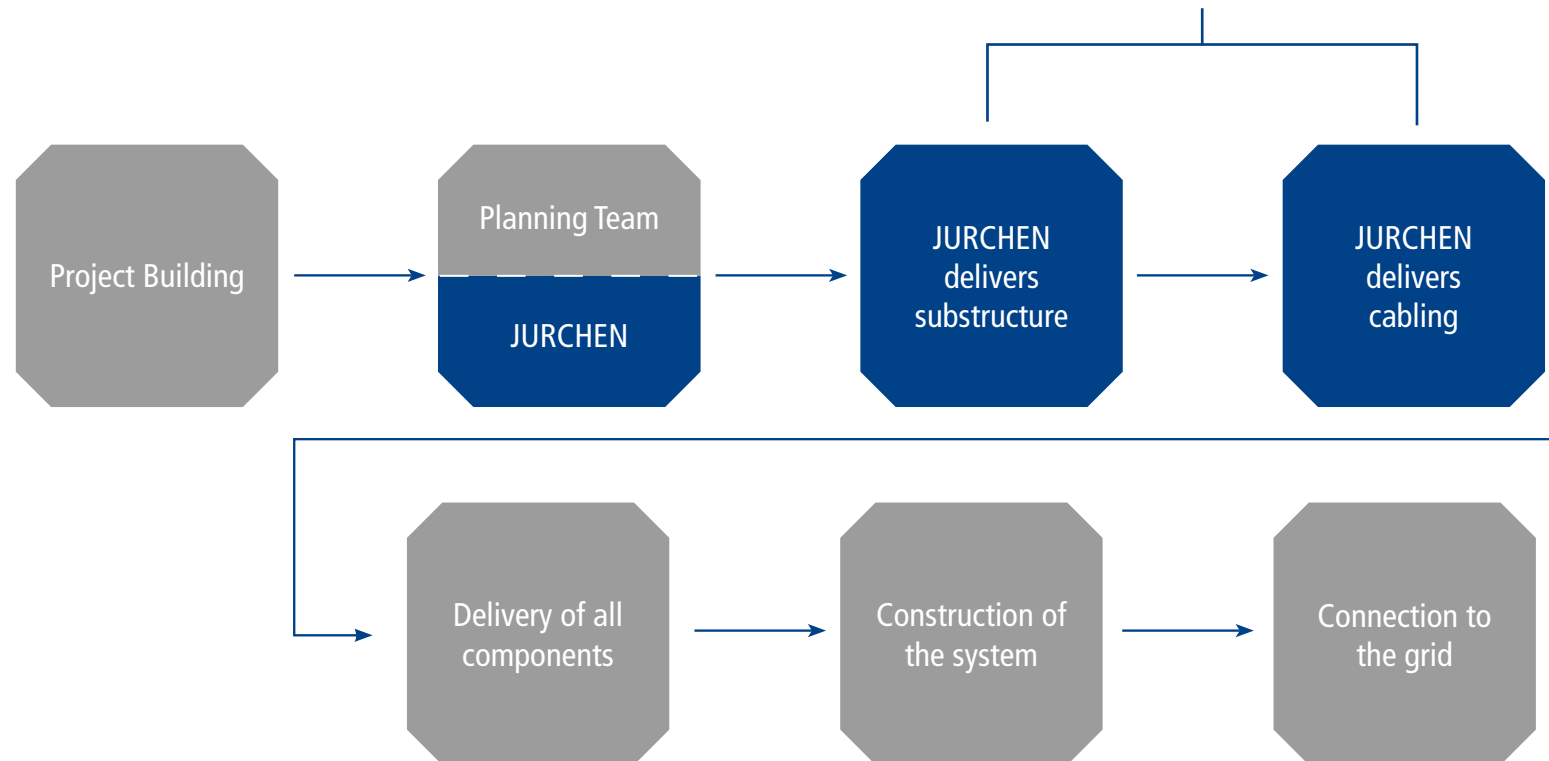
In the company's own development center, engineers and technicians are constantly working on the further development of the Jurchen Technology product portfolio and on the implementation of the latest technical innovations.

The production of Jurchen Technology is characterized by a great depth of production. Our production departments comprise aluminum processing, steel finishing, cable manufacture, roll transformer technology and the production of tools and molds. All products and processes are subject to a constant quality monitoring process.

Jurchen Project Expertise

With its problem-solving expertise and innovative technology, the Jurchen team brings photovoltaics up to speed – from the project planning to connection to the grid and beyond.

The Clever Double Solution



Jurchen Technology is an expert partner for solar energy: With substructures and DC cabling, Jurchen Technology ensures the successful construction and operation of customer projects – around the world.

Jurchen Technology „lives“ cooperation with partners and customers: In this way, in close team work, project ideas become lasting success stories – and we will happily make this happen for you too!

Of course, we cannot show you all of the firms who have already worked together with us at this point. But this little summary should indicate to you that you will be in the best of company as our customer.

Jurchen Technology

Together we will develop clever solutions
for your business success

If you would like to find out more,
please contact us.

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