



**SpanSet**

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Engineering  
Lifting equipment  
Technical services

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**Wind energy**

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Lifting equipment  
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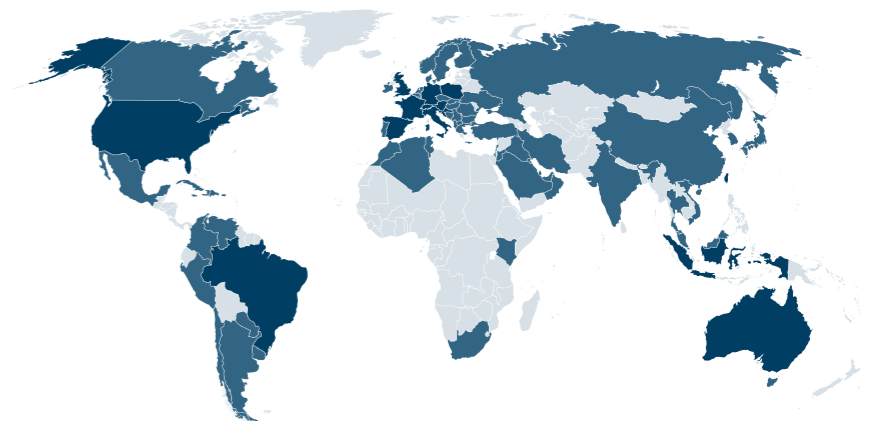
## Wind energy

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### Let us be your partner

The SpanSet group is the world specialist in lifting and securing loads. With its own branches in all of the major developed countries and a global network of dealerships, SpanSet knows the rules and is able to guarantee the whole spectrum of services on site.

From wires to lifting slings, from ratchets to lashing straps, even from steel to load suspension equipment. We manufacture it all and, as such, we can provide you with custom-made designs and special solutions to the serious challenges which are part and parcel of the transportation and assembly of wind turbines.



# Wind energy

Tried-and-tested standard and custom-designed lifting solutions



70 ton Rotor lifting equipment



200 ton Lifting beam



200 ton Lifting beam



Fall protection systems



VarioBeam with automated hooks



Lifting beam



Reinforced lifting straps



Edge protection for blades



TAP | Tower attachment point



Round slings and lifting straps

# Wind energy

Tried-and-tested standard and custom-designed lifting solutions



## No room for experiments

We can provide you with the right quality of equipment for each and every one of your applications. Whether you require something strong and sturdy, something extremely compact or simply our standard solutions for one-way transport, we can supply you with every single variant. The SpanSet Group is always ready for any field of application and, no less importantly, our insurance cover is valid worldwide.

## Quicker assembly, even under difficult conditions

Time is money, and the assembly of wind turbines has a significant impact on costs. Lifting problems are often misdiagnosed and intelligent solutions are often overlooked, meaning that valuable opportunities are missed. We know our stuff; our SpanSet lifting specialists have already developed a large number of smart, time-saving solutions for some well-known manufacturers of wind turbines.

We are particularly proud of the following examples:

Lifting-beam assemblies with adjustable suspension equipment for nacelles and gearboxes, even when loaded (can also be angled when loaded).

### Variobeam

The modular beams for assembling individual rotor blades in the ground position

### Automated hooks, electrical or mechanical

With cable-release or remote-control functions

TAP the specially designed attachment point for segments of the turbine tower. Maximum weight of 100 tonnes, can be adjusted between the diameters 2.5 and 4.2 metres

Rotor lifting equipment, pivotable, with adjustable suspension equipment, even when loaded (can also be angled when loaded)



TAP



Automated hooks



Rotor lifting equipment

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## Preventing damage during transportation

Inappropriate lifting and unsuitable storage methods can often lead to costly damage which is ultimately avoidable. During the journey from place of manufacture to place of assembly, heavy segments of turbine tower, large nacelles and extremely long rotor blades are moved back and forth and transported across long distances. In doing so, they are not simply transported along well-built streets; shipping and transportation to often difficult-to-access building sites must also be taken into account.

Custom-made attachment points lend themselves with equal success to lifting operations and the corresponding load control tasks, making the probability of mistakes extremely low. As the specialist for load securing, SpanSet ensures that its lashing systems have been perfectly designed so that they are able to secure loads even under the most challenging of conditions (offshore, on uneven surfaces). Heavy or bulky building components can be stored permanently using our secutex impact-protection system, allowing users to avoid inventing and coordinating their own storage solutions for our frames.

## Fall protection systems and recovery from heights

Fall protection starts with having both feet firmly on the ground, that is to say, with selecting the right equipment for you. And this needs to be carefully designed. Our comprehensive range of Height Safety products and our valuable knowledge on your very own fields of application are here to support you in this.

Working at a height always involves a certain degree of risk. That's why our "Gotcha" recovery system, for example, is ready for the most critical of situations, i.e. to rescue someone following a fall from height. Of course, our fall protection products are always in line with all currently applicable norms, provisions and guidelines.



Fall protection systems

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## Comprehensive documentation for use at your assembly sites

When working on assembly sites, companies often need to have comprehensive instructions on the lifting solutions in use; local health and safety inspectors frequently take compliance with country-specific provisions extremely seriously indeed. For this reason, the law of many countries prescribes that any load suspension equipment in use should be subject to a load test, while a user guide must also be provided in the language of that country. We understand the rules – the SpanSet group operates throughout the world and we have our own branches in every major country. And we can be on hand to help right away: our respective representatives can provide on-site guidance and support.

## Avoiding expensive downtime on the building site

Using our high-speed service, available via email, we can supply you with replacement documentation in no time at all – no inspector will be able to interrupt your operations due to a lack of documents. Replacements can be produced and provided at once: we use state-of-the-art CNC-controlled processing machines to produce 3D diagrams. Stolen or damaged attachment equipment can be replaced immediately by our local SpanSet branches.

## Safety, tried and tested

In accordance with EN 13155, simple designs often leave a lot to be desired. Additional challenges such as wind or working offshore (this is, in part, also true for loading and unloading before and after shipment) mean that load suspension equipment must be of considerably stronger structure, for which a load test is absolutely essential.



## 600-ton test for lifting devices

Our primary testing facility for load suspension equipment with a maximum capacity of 600 tonnes, the first of its kind, allows us to carry out the mandatory tests on the load-bearing capability of our equipment quickly and without significant outlay.

We use well-known companies such as Lloyds Register, Germanische Lloyd, Dekra and TÜV to test our equipment, ensuring that our products are of the highest quality again and again.



# Wind energy

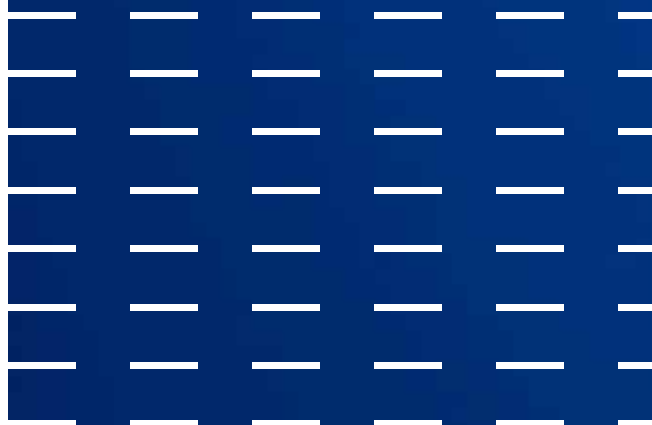
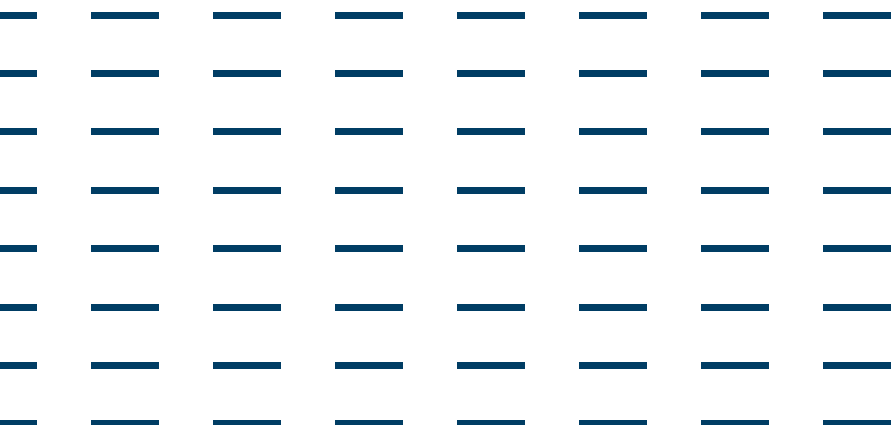
600 ton-test for lifting devices





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