

worldwind

TECHNOLOGY

www.windpower-international.com

Tomorrow's world

The future of low-carbon power

Cable Clamps for any requirement



Suitable for any environment.

For more than 35 years, id-Technik has been making its Cable Clamps, which are available for every type of power cable in any kind of power range. The German company is respected internationally and exports its items to more than 100 countries around the world.

id-Technik Cable Clamps are sought after because of their quality and reliability. The items can function in conditions as diverse as tropical climates, high altitudes, under the water or in environments that are radioactive. The clamps have been installed by numerous businesses working in a range of industries, including chemical, transport, oil and gas. The items are also used by cable manufacturers, as well as those working in the areas of fitting and installation. The company has a proven track record in wind energy. Because id-Technik Clamps are so durable and can withstand extreme conditions, it makes them ideal for use on wind turbines, which are often left exposed to the elements.

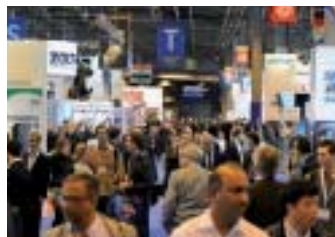
Another new innovation from id-Technik is its Elastic Inlay; this fixes the cables and absorbs the forces caused by cable weight in vertical sections at any height, such as in turbine generators, masts and shafts.

Due to their design, they guarantee secure attachment with little torque on the Cable Clamps and as a result less pressure is placed on the cable, which would otherwise become constricted or damaged. The material EPDM

used for making the Elastic Inlay has well-known durable characteristics and long-life qualities. It is also possible to fix cables with small outer diameters to enlarge the clamping range. id-Technik is always closely following the development of cables and continuously looking for ways to achieve excellence.

Further information
id-Technik GmbH
www.id-technik.com

Composite knowledge and networking



JEC organises many events.

JEC is the largest organisation in the composites industry, with a network that consists of 250,000 professionals. The firm's principle objective is to promote composite materials internationally, which it achieves through providing many networking opportunities as well as a range of publications; these include strategic studies, technical books, its magazine and regular e-newsletters.

The company's website is also a vast resource of news and specialist information with forums available for discussions. In addition, the firm organises events and conferences, such as JEC Asia, JEC Americas, and JEC Europe in Paris, which is five times larger than any other composites exhibition.

The company also arranges the annual JEC Innovation Awards programme, which is growing year on year. It is the firm's policy to reinvest all income into developing new products and services for its customers and the composite industry. It supports the development of composite materials by fostering

knowledge transfer between suppliers and users. For the wind energy industry, JEC has many tools available to boost business, including:

- a dedicated website section, which provides visitors with the latest news and events in the sector
- a free magazine published eight times a year
- the JEC Weekly e-letter, for staying up-to-date on market trends and innovations
- the business meetings programme, with highly effective means of industry networking.

Further information
JEC Group
www.jeccomposites.com

Couplings and brake systems

With the steel lamina coupling RADEX-N, KTR has introduced a coupling system to the market that is able to cope with the demands of a wind power station for more than 20 years.

During this period of time, the performance range of the plants, and consequently the couplings, has increased from 40kW to more than 6MW.

RADEX-N couplings are specially designed for a rated torque of up to 150,000Nm, and to compensate for radial and axial misalignment. The coupling spacer is made from glass fibre, which ensures a safe electric insulation between generator and gearbox. An integrated overload system also protects the drivetrain reliably against torque peaks. As well as the RADEX-N coupling series, KTR offers the required brakes for wind power facilities. These are used in three different kinds of applications in wind farms: the rotor brake, the azimuth brake (KTR-STOP YAW) and the rotor lock. The rotor brake is able to stop the rotor of the wind turbine when required. The brake system can be installed either



KTR manufactures crucial components for wind turbines.

directly on the rotor hub or on the shaft between generator and gearbox. The azimuth brake ensures the pod of the wind turbine is kept in the required direction after it has been readjusted for the wind direction. The azimuth system differs from the operating brake as it is permanently active. The brake callipers typically have clamping forces of 50t.

The rotor lock systems are essentially heavy pins with a diameter of up to 240mm, producing a positive-locking connection between the rotor hub and the frame. KTR is able to supply both the coupling and the brake system within the megawatt power range.

Further information
KTR Kupplungstechnik
www.ktr.com

Direct vessel to rail operations



Fully-equipped for the big tasks.

Located on the western Gulf of Mexico, Port Corpus Christi is the fifth largest US port in total tonnage. With a straight, 45ft channel, the Port provides quick access not only to the Gulf of Mexico but also to the entire US inland waterway system. The Port delivers outstanding access to