

P R E S S R E L E A S E

Product innovation: Energy-efficient cooling system for wind power plants

KTR is developing cooling systems controlling the cooling of wind power plants in an energy-efficient way. This allows operators of wind power plants to save a big share of the drive energy required for cooling. The new cooling systems will be introduced for the first time on the occasion of WindEnergy which will take place in Hamburg from 23rd to 26th September 2014; hall B6, booth 373.

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The new high-performance cooling system MMC eco will be introduced for the first time on the occasion of WindEnergy which will take place in Hamburg from 23rd to 26th September 2014; hall B6, booth 373.

Heart of the new series MMC eco is the continuously variable speed control which consists of a sensor, control unit and fan and which organizes the cooling power meeting the demand. The sensor identifies the temperature of the medium giving a signal to the control unit. Based on the information provided it controls the variable speed fans which finally generate only as much cooling air as required. Apart from saving a considerable amount of energy the new cooling system improves the efficiency factor significantly while reducing the operating costs.

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PRESSEMITTEILUNG

Another benefit of variable speed control is the positive development of noise. The manufacturers of wind power stations invest enormous development capacities in main rotors operating as quietly as possible with the result of auxiliary power packs becoming more and more noisy. The controlled adaptation to load allows to improve the new systems considerably with regard to low noise. In spite of its high power the cooling system remains extremely compact and can be mounted in the narrow space of the machine nacelle without problems.

Protection down to each lamina

When used in offshore plants the new cooling system is coated with a KTR paint (cathodic dip-paint) to protect it from the salty and aggressive air. It ensures highest resistance to corrosion. The motors of the fan drives are coated with a special paint suitable for offshore applications, too.

Cooling technology at the highest level

Being the development partner for customized applications and systems, KTR provides an optimum solution with regard to performance, reliability, energy efficiency and acoustics with the new cooling system MMC eco.

Systems for wind power industry

KTR has already been operating in the wind power industry for more than 25 years. The company's founder, Franz Tacke, was one of the pioneers of wind energy utilization in Germany. Meanwhile the family-owned company having its headquarters in Rheine has become the global market leader in the business of power transmission in wind power stations. Mechanical couplings and integrated torque limiters, hydraulic and electromechanical brake systems, hydraulic components and high-performance coolers are tailor-made systems waiting for their application in wind energy industry. For that purpose KTR provides manifold solutions following the motto: compact, light-weight, powerful.

Rheine, August 2014

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