Couplings put to the test

On time for bauma in Munich, April 23 – 29, 2007, CENTA Antriebe Kirschey GmbH presents an essentially improved type in the CENTAMAX-series. The new “High Thermal Capacity” design features a 100% increase of the allowable power loss, an achievement owing to intensive tests performed at the test bench, owned and developed by CENTA.

Innovative CENTA couplings and drives are always based on the latest technology. The company has been offering a wide range of flexible couplings and shafts for almost four decades, which propelled the company into a leadership position in various industries, including marine engineering and power generation.

Before leaving the Haan production site, the couplings are subjected to a series of quality assurance tests.

With ten test benches for different tasks and various torques up to 750 kNm CENTA is completely self-sufficient and in the position to measure all demanded characteristic values of the couplings in its own test field. Moreover, endurance tests for the determination of life span and fatigue strength as well as special tests for new designs as the CENTAMAX-HTC can be performed at the company’s own test facility.

Their latest achievement is the increase of the allowable power loss by 100%. CENTA now possesses a self-developed ultramodern dynamic test bench enabling such measurements. The rotation of the couplings is superimposed by torsional vibrations on this test bench. Speed, preload, amplitude and frequency of oscillations can be adjusted and measured. The energy loss is calculated by the hysteresis loop and the frequency. The temperature is measured inside the coupling at „the hotspot“ and in further places by telemetry transfer.

This method corresponds to the requirements of the classification societies and it provides reliable, exact results. In addition, the influence of different ventilation methods can be examined.

Systematic improvement, FMA analyses and trials resulted in the outstanding improvement of power loss in CENTAMAX couplings, without exposing the rubber element to increased tension or local stress peaks by large vent holes or similar effects.
The international CENTA group is represented around the globe with 10 subsidiaries and 27 agencies, and continues to grow. The company has consciously maintained a strong commitment to its German location. All constructional parts are manufactured at the Haan production site which was recently expanded and now covers a total of 10,000 square metres. Further information available at: CENTA Antriebe Kirschey GmbH, Bergische Straße 7, 42781 Haan. Phone: +49-2129-9120, Fax: +49-2129-2790, or visit our website at www.centa.info

Any further information? Current images or graphics?

Simply contact:
ARIADNE MedienAgentur, Kiefernweg 13, 76149 Karlsruhe/Germany
Phone +49-721-9703023 • Fax: +49-721-788370 • E-Mail: Info@Ariadne.de