

KTR will present the recently developed GEAREX[®] gear coupling on the occasion of the Hannover Fair 2009 for the first time 16 April 2009

On the occasion of the Hannover Fair 2009 KTR, who have already invented the BoWex[®] curved-tooth gear coupling[®], will introduce GEAREX[®], a gear coupling which is fully made from steel, for the first time. Similar to the BoWex[®] curved toothing the spline of the GEAREX[®] has a crowned shape. It distinguishes from BoWex[®] in a way that the sleeve of GEAREX[®] consists of high-quality steel, whereas the BoWex[®] sleeve is made from a reinforced polyamide material.

Subject to its crowned shape of teeth the GEAREX[®] allows to compensate for displacements in an optimum way. Due to its double-cardanic design it is able to accept high radial displacements. It goes without saying that the spline of the sleeve furthermore accepts high axial misalignments. In addition, the separable sleeve ensures an easy axial assembly.

The crowned shape of the GEAREX[®] teeth ensures a long service life of the coupling. The radiuses on the spline of the hubs reduce the edge pressure at the sleeve and along with the permanent lubrication result in a long and reliable service life even with rugged conditions.

GEAREX[®] and the BoWex[®] curved-tooth gear coupling[®] are torsionally rigid shaft connections transmitting the torque via positive locking. With 12 sizes GEAREX[®] covers a torque range from 930 Nm to 135 000 Nm allowing for a very high power density with compact dimensions. As a result it is a logical continuation of the designing principle of the BoWex[®] curved-tooth gear coupling[®] for the range of higher power.



GEAREX[®] is mainly used on more sophisticated drives of general engineering and heavy machinery engineering.

Looking at the design GEAREX[®] follows the flange dimensions according to the AGMA standard resulting in a wide-spread use of the coupling. Of course, GEAREX[®] is tested and certified in accordance with ATEX 95. Apart from the standard lines GEAREX[®] is available in special designs with brake disk, intermediate pipe or shaft, for horizontal or vertical assembly, etc. As you know, customised requests do not mean big problems for the KTR engineers.

The standard programme is available from stock with immediate effect.

Attached please find some further technical details about the GEAREX[®] gear coupling.

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