

## Product innovation by KTR: Backlash-free shaft coupling with integrated clamping system

Rheine, 10.09.2015 – In cooperation with the Swedish company ETP, KTR developed a backlash-free servo coupling with an integrated clamping system. The highlight is that the coupling can be mounted with one screw only which is completed within a few seconds. KTR will introduce the product innovation on the occasion of the Motek in Stuttgart (hall 8, booth 8204) and the Emo (9, B16) in Milan for the first time.

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*ROTEX® GS with integrated ETP clamping system*

In case of ROTEX® GS with an integrated ETP clamping system a common development project among KTR and the Swedish company ETP Transmission AB being a specialist for shaft-hub-connections is concerned.

The backlash-free and highly accurate ROTEX® GS P is fully made of steel and specifically suitable for the application in high-speed drives. The clamping system of this new coupling type consists of a double-walled, hardened steel sleeve filled with a pressurizing medium. The flange comprises a screw and a piston with a gasket for pressure generation.



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The screw is tightened radially, while no axial space for assembly tools is required. On this occasion the sleeve expands generating a uniform surface pressure against shaft and hub. This principle of a single screw only allows for an assembly within a few seconds ensuring the continuously variable positioning of the coupling. The uniform stress distribution in the basic body of the hub results in an accurate concentricity of the ETP system while realizing a very smooth running.

Currently KTR and ETP are working on a two-part type which is to allow for the use of other coupling types and materials.

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