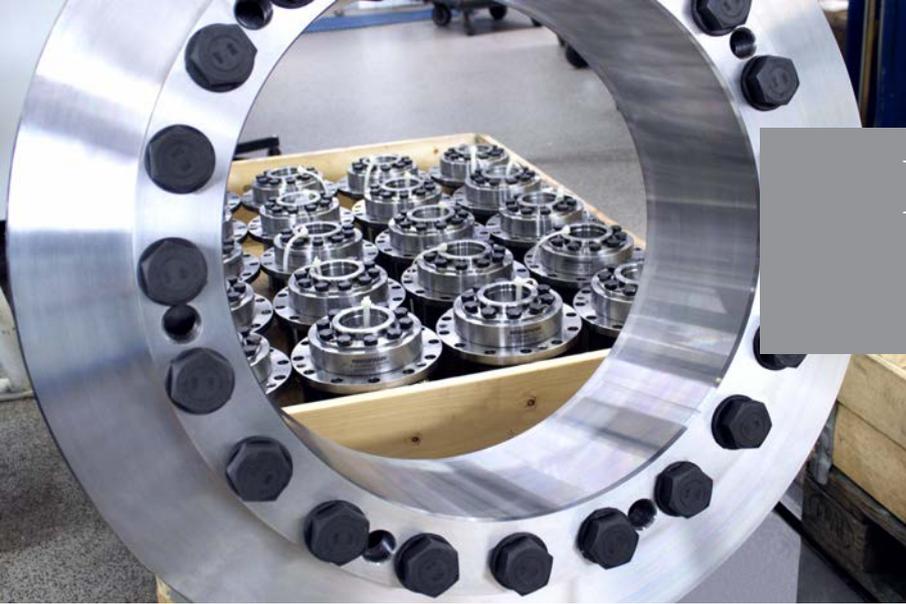


New shrink discs for large hollow shafts

RINGSPANN extends its range of frictional shaft-hub-connections



With a new 2016/2017 product catalogue, manufacturer RINGSPANN is giving both design engineers and purchasers access to its extended total selection of shaft-hub-connections. The highlights of the extensive programme include new shrink discs for the external clamping of hollow shafts with large diameters of up to 620 mm, as well as delicate cone clamping elements for the internal clamping of shafts with very small diameters.

So that a motor shaft or a drive shaft can pass on its rotational force without any loss, it needs a secure and firm connection to the hub or shaft of the moved machine element. For this purpose, manufacturer RINGSPANN produces a large range of frictional shaft-hub-connections which, depending on execution and version, transfer torques and axial forces as well as lateral forces and bending moments. The newly presented 2016/2017 product catalogue now provides a complete overview of the current and extended portfolio of two and three-part shrink discs, cone clamping elements as well as star discs, special torque motor clamping systems and star spring washers for ball bearing compensation. On over 80 pages, all shaft-hub-connections are practically and very clearly described with colour images, technical drawings, data tables and short texts. In the catalogue, RINGSPANN also presents its innovative online calculation tool, which enables design engineers, product developers and purchasers to perform an individual and highly precise dimensioning of the optimal shaft-hub-connection.



The new 2016/17 product catalogue provides a complete overview of the current and extended RINGSPANN range of two and three-part shrink discs and cone clamping elements as well as star discs, torque motor clamping systems and star spring washers. (Image: RINGSPANN)

Infobox

Friction-locking instead of form fit

Shrink discs for external clamping and cone clamping elements for internal clamping consist of conical surfaces pulled onto one another with clamping screws. The radial forces thereby produced ensure a secure friction-locking between the machine parts involved in the transmission of torques or forces. Unlike traditional form-fit shaft-hub-connections with a feather key, the shrink discs and cone clamping elements by RINGSPANN can transfer much higher torques. Meaning the shafts can be dimensioned to be smaller and shorter, which helps with the realisation of compact and lighter drive units. Shrink discs and cone clamping elements are therefore growing in importance as frictional shaft-hub-connections.

Entering new dimensions

On the foundation of its close cooperation with drive technology research association "Forschungsvereinigung Antriebstechnik e.V. (FVA)" and strengthened by the successful integration of the South African Manufacturer Transmission Components Ltd. into the RINGSPANN group (2015), the company has considerably enhanced its market position as an international provider of shaft-hub-connections. This is also shown by the recent extensions to the product range. The outstanding new products include above all new shrink discs for the external clamping of hollow shafts with particularly large diameters, such as those increasingly required in wind power technology and the mining industry, in mining-related hois-

