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Press release for torque limiter series SK5

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Torque limiter with press fit design series SK5

Taking up the challenge for greater technical demands in modern machine design and construction, R+W has developed the unique patented Model **SK5** Safety coupling.

Torque overload protection is often overlooked in machine design until something jams resulting in expensive damage and down time. The R+W Series **SK5** safety coupling was developed specifically for this purpose. It uses a patented ball detent system that is absolutely backlash free and will disengage within 1 to 3 milliseconds when an overload is detected.

This coupling also features a unique keyed tapered hub design allowing it to be quickly mounted and dismounted. When the two coupling halves are properly pretensioned this coupling is torsionally rigid with zero backlash. The stainless steel bellow compensates for axial, angular, and lateral misalignment simultaneously making this one of the most versatile couplings on the market.

Conventional hub designs incorporate a tightening screw requiring the assembler to access the coupling through a hole in a flange in order to assemble it to a shaft. Often in a break-down maintenance situation the tightening screw does not line up with the flange access hole making nearly impossible to disassemble the coupling from the drive shaft. The **BK5** is the perfect solution in this situation. The bellow also isolates the shaft bearings of the drive and driven elements from any side loading due to misalignment, thus extending their service life.

Four versions are available including a single position, multi-position, load holding, and full disconnect. These couplings are preset in the factory to a customer specified disengagement torque and can be adjusted in the field after installation.

The mass moment of inertia is also very low due to its low mass and low weight.

The **SK5** couplings are available for a torque range of 0.2 to 500 Nm (1.8 to 4,425 in. lbs.). Both shaft hubs are custom bored for shaft sizes of 4 to 60 mm (0.16 to 2.36 in.).

Contact R+W Antriebselemente GmbH at 0049/9372/98640 for more information or visit our website at www.rwcouplings.com