FLENDER

Press

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Three new N-Eupex couplings and optimized flexible elements

- **Expansion of the N-Eupex modular system by the coupling variants N-Eupex ERN with slipping unit and N-Eupex B with clamping element**
- **Introduction of the short version DKS represents the shortest double-cardanic solution on the market**
- **New TPU-based elastomers for increased torque capacity**

Flender is expanding the portfolio of its flexible coupling series N-Eupex by introducing three new types. The new products allow users additional flexibility in their systems without losing the compact design and high load capacity of a pin coupling.

N-Eupex ERN

The new N-Eupex ERN is equipped with a torque limiter, which provides even more security in the drivetrain in many applications. The coupling variant allows users to specify a maximum torque so that critical torques for the motor and output machine are not transmitted. Machines and systems are protected from overload and damage, thus significantly increasing system availability.

N-Eupex B with clamping element

With the N-Eupex B plus clamping element, Flender introduces a second new coupling that ensures frictionally engaged clamping connections. In this case, the plain, cylindrical machine shaft end is connected to the coupling hub via a clamping connection without a feather key and service ability is increased. For example, assembly or replacement of worn elastomers can be carried out much more easily.

No connecting machine components must be moved, the time required is halved and so is the downtime of the machine.

N-Eupex DKS

With the N-Eupex DKS, a new double-cardanic coupling is introduced as a "short version" into Flender's modular system. While the DK type, which was launched in 2020, addresses the pump market with standard expansion pieces for normed shaft distances, the DKS is the shortest possible double-cardanic solution for the market. The shortened overall length enables cost-optimized use with a small shaft distance dimension without losing the advantages of a double-cardanic coupling connection.

Extension of elastomers

New elastomers for the pin couplings round off the modular extensions. In addition to the previously used rubber elements made of NBR, Flender now also offers elastomers made of thermoplastic polyurethane (TPU). Following the torque increase for all N-Eupex couplings with NBR packings in 2020, the use of TPU packings allows the power density to be increased by another 20 percent on average. For sizes 300 and above, the familiar NBR elastomer is combined with fabric inserts and the torque capacity is again raised.

"With a view to the long tradition of cam couplings, our development engineers are systematically working on increasing the variety of combinations even further. The 2022 enhancements give our users a wide range of sustainable options for optimizing their machines and systems even more and reducing maintenance," explains André Artmann, Head of Coupling Sales.

The three new couplings N-Eupex ERN with torque limiter (right), N-Eupex B with clamping element (left) and N-Eupex DKS with shortest double-cardanic design (center).

This press release and a press picture are available at www.flender.com/company/press.

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Flender headquartered in Bocholt, Germany, is a leading global supplier for mechanical and electrical drive systems and has the reputation for highest performance, innovation, quality, and reliability of drive components for more than 120 years. Flender offers a broad variety of gear units, couplings and generators and associated services, with a focus on key industries such as wind power, cement, mining, oil & gas, power generation, water and wastewater, marine, conveyor and crane technology. Flender products and services combine the latest technology with extremely high quality and have been reliably providing the optimal transmission of power for decades. Flender has around 8,700 employees globally. Further information is available on the Internet at www.flender.com.