

Spidex elastic jaw couplings for high-temperature applications

Werdohl, Germany, September 2024. R+L Hydraulics GmbH presents the new Spidex couplings of the HighTemp and UltraTemp series, developed especially for high-temperature applications. These elastic jaw couplings are durable and resistant to wear and tear while boasting high temperature and hydrolysis resistance.

“Spidex elastic jaw couplings provide reliable performance, even under extreme conditions,” says Detlef Peick, Business Development Manager at R+L Hydraulics. “They are the result of many years of experience and continuous further development.” The exceptional temperature and hydrolysis resistance of the UltraTemp series allows for the application of these couplings at long-term operating temperatures of up to 180°C. “This is a unique feature within the industry,” says Peick. The three-part couplings are axially mountable, fail-safe and maintenance-free, making them an ideal choice for demanding environments in steel mills, lime kilns, drying plants or marine applications.

By using high-temperature resistant elastomeric inserts called spiders, Spidex couplings are particularly durable and resistant to frequent temperature variations. This reduces downtimes and leads to longer maintenance intervals, providing higher system availability and resulting in both economic and ecological benefits. “The enhanced temperature resistance of our elastomer spiders allows for the reliable use of Spidex couplings in processes involving thermal processing steps,” Peick explains. “The HighTemp and UltraTemp spiders’ resistance to wear and tear applications with frequent temperature changes contributes significantly to the durability and reliability of the system.”

Another benefit of Spidex couplings with UltraTemp spiders is their superior hydrolysis resistance. This means the couplings can be used in humid environments including sea water, making them suitable for marine applications as well as for environments with high humidity.

Depending on their size and the application, Spidex couplings are designed for use with up to 11,000 Nm nominal torque and a maximum torque of 22,000 Nm, which makes them ideal for difficult tasks. “This superior performance combined with excellent damping properties and the

ability to compensate for high radial misalignment sets new standards in the industry,” says Peick.

“R+L Hydraulics provides transparent and comprehensible specifications regarding the temperature range within which the HighTemp and UltraTemp series can be used,” Peick emphasizes. “Our clients can rely on our products to deliver the promised properties.”

R+L Hydraulics, headquartered in Germany, engineers and produces a wide range of couplings and hydraulic accessories. R+L Hydraulics is a subsidiary of the US-based coupling specialist Lovejoy LLC; both companies are owned by The Timken Company.

Picture:

Spidex elastic jaw coupling from R+L Hydraulics with white UltraTemp spider for high-temperature applications

About R+L Hydraulics:

R+L Hydraulics GmbH, headquartered in Werdohl, Germany, engineers and produces a wide range of Raja hydraulic accessories and Lovejoy couplings. In July 2016, the hydraulics and power transmission specialist joined the listed US-based Timken Company (NYSE: TKR; Timken.com). Timken develops, manufactures and sells roller bearings and many other products and brands for drive, linear and fluid technology. In 2023, The Timken Company achieved sales in the amount of \$4.8 billion and employs more than 19,000 people in 45 countries worldwide.

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