

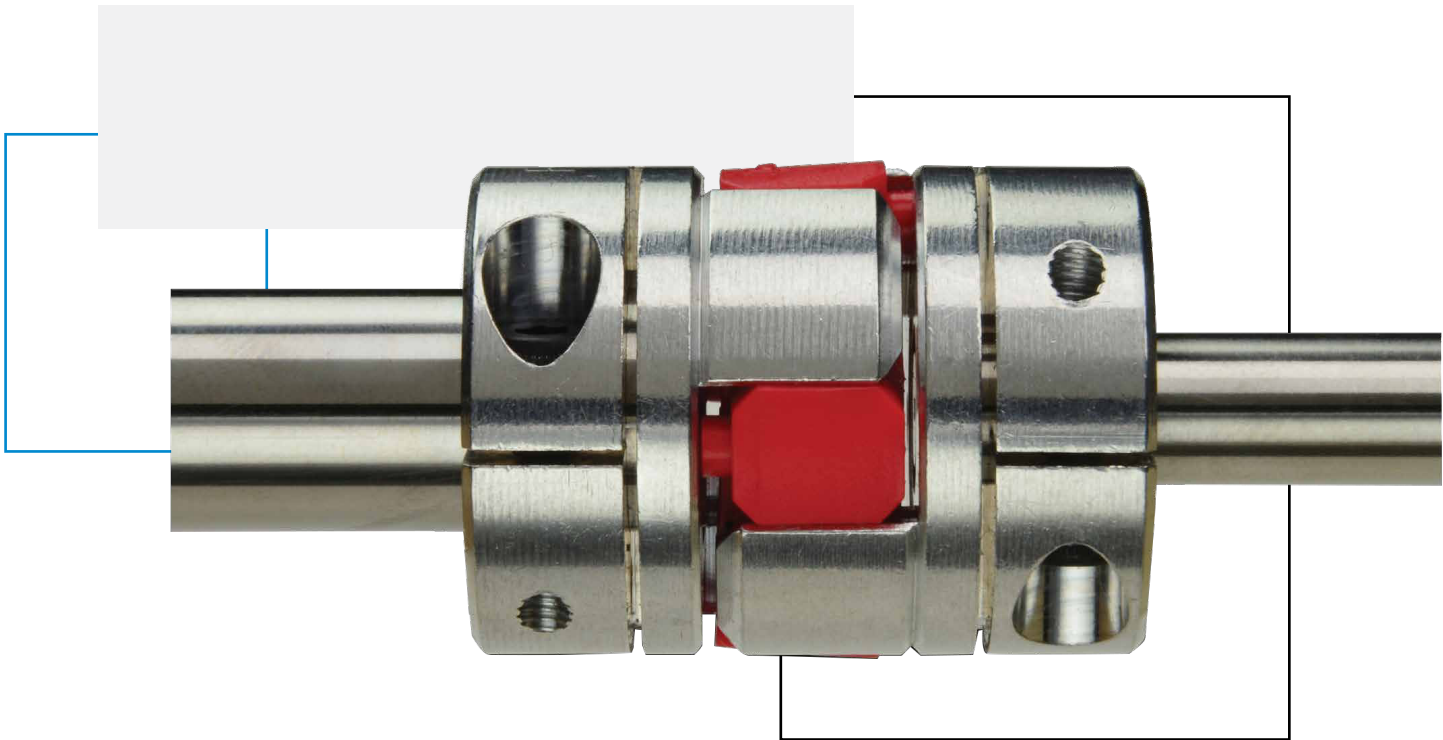


+ Ruland zero-backlash jaw couplings are commonly used in medical, semiconductor, test and measurement, and robotics, due to their ability to dampen impulse loads in start-stop applications

– Solutions from Ruland: Jaw couplings for start-stop applications

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Ruland zero-backlash jaw couplings are a three-piece assembly designed to accommodate high acceleration and deceleration curves that result in peak torque. Jaw couplings are ideal for systems that experience hard starts, hard stops, or reversals, including in medical, semiconductor, test and measurement, and robotics applications.



+ Ruland curved jaw coupling on shaft

Ruland's balanced jaw coupling design consists of two hubs and an elastomeric insert known as "the spider." The hubs are machined through a proprietary process that creates a curved jaw profile, enabling a press fit with the spider for zero-backlash operation. Start and stop applications in servo motor drive systems will often experience high peak torque loads caused by inertia, friction, and high acceleration/ deceleration rates. The spider dampens these impulse loads to minimize shock to the motor and other sensitive components. Spiders are available in three durometers – 85 Shore A for greatest dampening, 92 Shore A for a balance of dampening, torque and torsional stiffness, and 98 Shore A for a small amount of dampening and the highest torsional torque and stiffness.

Jaw couplings offer a high level of customizability by allowing users to combine clamp and set screw hubs with various bore options, including inch, metric, keyed, and keyless bores, with sizes from 1/8 inch to 1-1/4 inch and 3 mm to 32 mm. They are considered failsafe as the interlocking hubs provide direct power transmission for controlled shutdown if the spider fails. Replacing the spider restores the original performance characteristics of the coupling,

significantly reducing maintenance costs when compared to coupling styles that require complete replacement.

All Ruland jaw couplings are RoHS3 and REACH compliant. Fully custom jaw coupling designs are available for users seeking special materials, sizes, or specifications. Jaw couplings are part of Ruland's complete zero-backlash coupling line, including rigid, bellows, disc, beam, oldham, controlflex, and slit couplings. Full product information, 3-D CAD files, and additional technical specifications are available at ruland.com.

About Ruland

Ruland Manufacturing Co., Inc. is a privately owned family company founded in 1937. Ruland has carefully and responsibly manufactured high performing shaft collars, rigid couplings, and motion control couplings for the past 40 years. Ruland's product line was recently expanded to include a variety of machine components from select manufacturers that align with Ruland's performance and quality standards.

More information can be found at www.ruland.com.

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Drivetrain
A maximum of performance and transparency



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Steel Industry
Inauguration of the World's First Plant to Produce Fossil-Free Hydrogen for Heating Steel Before Rolling



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Heavy Lifting
Sarens consolidates its position as the leading player in heavy lifting thanks to its expansion into the Italian market

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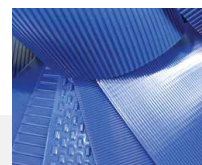
Industry 4.0
Digital manufacturing:
Schaeffler invests in AI-based software development

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Gear & Gearboxes
Flender delivers masterpieces of German engineering, Habeck says

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Jaw couplings for start-stop applications

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Drives & Motors
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Drives & Motors
Bison®
Introduces All New Gen 2
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