

New from Ruland!

Expanded range of bellows couplings

Marlborough, MA, September 2020. Ruland Manufacturing has expanded its line of bellows couplings to include an outer diameter of 2-1/4 inches (57 mm), allowing for larger bore sizes and increased torque and torsional stiffness capabilities. Designers prefer to specify bellows couplings in servo driven systems due to their high accuracy and repeatability. This size expansion now allows for bore sizes up to 1-1/4 inch or 32 mm in a clamp style design with or without keyways.

Ruland bellows couplings are an assembly of two hubs and a thin-walled metallic bellows. Hubs are manufactured from aluminum for light weight and low inertia. They are joined together by a thin walled stainless steel bellows, allowing the coupling to remain flexible under high torsional loads. Bellows couplings can accommodate all forms of misalignment and size for size have the greatest torque and torsional stiffness capability in Ruland's servo coupling product line.

The increased range gives bellows couplings consistent outer diameters and bore sizes with other Ruland servo couplings including disc, jaw, and oldham couplings. They are the most accurate of the Ruland manufactured servo couplings and are ideal for linear applications commonly found in printing, semiconductor, solar and robotics. They are zero-backlash and have no moving parts for a long maintenance-free life.

Ruland manufactures bellows couplings with a balanced design for reduced vibration at speeds up to 10,000 rpm. They are available in inch, metric, and inch to metric bore sizes, with or without keyways from 1/8 inch to 1-1/4 inch and from 3 mm to 32 mm. Non-standard designs such as special bore sizes, custom bore tolerances, and stainless steel hubs are available upon request.

Bellows couplings are part of Ruland's motion control coupling product line which also includes beam, controlflex, disc, oldham, slit and zero-backlash jaw couplings. They are carefully manufactured in Ruland's Marlborough, Massachusetts factory under strict controls using

proprietary processes. 3D CAD files, full product specifications and installation videos are available on www.ruland.com.

Summary:

- Expanded outer diameter allows for greater amounts of torque and torsional stiffness
- Bore sizes to 1-1/4 inch and 32 mm
- Zero-backlash with no moving parts for a long maintenance-free life
- Made from aluminum hubs and stainless steel bellows for reduced weight, increased strength and suitability for high rpm applications up to 10,000 rpm
- RoHS3 and REACH compliant
- Carefully made in Ruland's Marlborough, Massachusetts factory and available for immediate delivery

Product link:

<https://www.ruland.com/servo-couplings/bellows-couplings.html>

Picture:

Ruland now offers bellows couplings with bore sizes up to 1-1/4 inch or 32 mm



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.

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TPR International would be grateful for a copy of the publication with this article.