

New from Ruland:
Bellows and disc couplings with higher torque capacity

Marlborough, MA, April 2024. Ruland Manufacturing now offers bellows and double disc couplings with bore sizes up to 1-3/4 in or 45 mm for use in systems with torque up to 1,4000 in-lbs (158 Nm). High torque applications commonly found in precision semiconductor, solar, conveyor, and factory automation applications often use these shaft sizes. Ruland disc and bellows couplings accommodate all forms of misalignment, are zero-backlash, and have a balanced design for reduced vibration at speeds up to 10,000 rpm.

Ruland bellows couplings have the highest size-for-size torque and torsional stiffness capacity of Ruland flexible couplings. They are comprised of two anodized aluminum hubs mated to a stainless steel bellows. The thin walls of the bellows allow it to remain flexible under misalignment conditions while maintaining rigidity under torsional loads.

Double disc couplings offer more misalignment than bellows couplings at the expense of torque and stiffness. They are made from two anodized aluminum hubs, two sets of disc springs, and an anodized aluminum center spacer. The double disc design allows the sets of disc springs to operate independently of each other for full misalignment capabilities.

"The expansion of our bellows and disc coupling product lines to incorporate couplings with higher torque capacity, allows designers to use a Ruland coupling with larger shafting," says Bill Hewitson, President of Ruland Manufacturing. "Through our design process and rigorous physical product testing, we are bringing to market couplings that exceed what is currently available. I look forward to partnering with our many OEM and distribution customers on these new products."

Ruland manufactures disc and bellows couplings from meticulously selected North American bar stock in 2024 aluminum for lightweight and low inertia. They are offered with clamp style hubs with or without keyways in bore sizes ranging from 1/8 in (3 mm) to 1-3/4 in (45 mm). Bellows and disc couplings are carefully made in Ruland's ISO 9001:2015 certified advanced

manufacturing facility in Marlborough, Massachusetts, under strict quality controls using proprietary processes. They are RoHS3, REACH, and Conflict Minerals compliant.

Summary:

- Best balance of torque, torsional stiffness, and misalignment in the industry
- Speeds up to 10,000 rpm due to a balanced design
- Bellows and disc couplings with bores up to 1-3/4 in or 45 mm
- Ratings validated through thorough physical testing
- Carefully manufactured in Ruland's advanced manufacturing facility in Marlborough, Massachusetts

Pictures:

Ruland bellows couplings and disc couplings now have bores up to 1-3/4 in (45 mm) and torque up to 14,000 in-lbs (158 Nm)

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.

Contact:

Ruland Manufacturing Co., Inc.
6 Hayes Memorial Drive
Marlborough, MA 01752, USA
Phone +1 508 485 1000
Fax +1 508 485 9000
E-mail marketing@ruland.com
Internet www.ruland.com

PR contact:

TPR International
Christiane Tupac-Yupanqui
PO Box 11 40
82133 Olching, Germany
Phone +49 8142 44 82 301

E-mail c.tupac@tradepressrelations.com

Internet www.tradepressrelations.com

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