

Beam Couplings for Encoder Feedback Systems



P- and MW-Series beam couplings offer backlashfree operation with low bearing loads.

Ruland beam couplings are machined from a single piece of aluminum or stainless steel and feature multiple spiral cuts. This beam pattern provides higher torque capabilities and greatly reduces wind-up when compared to commodity style single beam couplings. The two sets of beams allow the coupling to accommodate all types of misalignment: angular, parallel, axial motion, and complex. Ruland is also the only manufacturer to offer balanced beam couplings as a standard.

Ruland four beam couplings come in two styles, P-Series and MW-Series, for choices in size and performance. Both series are manufactured in aluminum for added flexibility and low inertia or stainless steel for higher torque and increased corrosion resistance. Bore sizes are available in inch, metric, and inch to metric combinations ranging from 3/32" to 1/2" and 3mm to 12mm.

Beam couplings are part of Ruland's complete line of shaft collars, rigid couplings with precision honed bores, and zero-backlash couplings including: beam, bellows, disc, jaw, and oldham. All products are carefully manufactured in our Marlborough, Massachusetts USA facility under strict controls using proprietary processes. 3-D CAD files, full product specifications, and additional technical information, are all available at the new and improved ruland.com. Ruland manufactures beam couplings designed specifically for encoder feedback systems. These couplings offer high misalignment capabilities with low bearing loads and are torsionally stiffer than single beam couplings allowing for greater accuracy and repeatability.



Four beam couplings are available in bore sizes ranging from 3/32" to 1/2" and 3mm to 12mm.

Why Ruland Encoder Couplings?

- · Balanced for high speed and reduced vibration
- · Zero backlash for accuracy of motion
- Accommodate all types of misalignment
- · Special designs & materials available on request
- All products are RoHS and REACH compliant
- Carefully made in our Marlborough, MA USA factory with large stocks for immediate delivery

www.ruland.com



Shaft Collar

Superior fit, finish, and holding power Precise face/bore perpendicularity for proper alignment Steel, aluminum, plastic, 303 & 316 stainless steel



Quick Clamping Shaft Collar

Designed for quick set up and easy repositioning Innovative clamp design requires no tools Light weight anodized aluminum

Rigid Coupling

Nypatch® anti-vibration hardware Precision honed bores for proper fit and alignment 1 and 2 piece styles with or without keyway

Bellows Coupling

Zero-backlash, aluminum hubs for low inertia Stainless steel bellows for high torsional stiffness Balanced design for speeds up to 10,000 RPM



Beam Coupling

Zero-backlash, suitable for all types of misalignment Multiple beams for improved torsional rigidity and torque Available in aluminum and stainless steel

Oldham Coupling

Zero-backlash, low bearing loads, low inertia Good overall performance, electrically isolating High parallel misalignment capability

Jaw Coupling

Zero-backlash, dampens impulse loads Elastomer element in choice of 3 durometers Easily combine inch to metric and keyed to keyless



Zero-backlash, high torsional stiffness Single disc style for compact installations Double disc style for high misalignment







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