

Backlash-Free Couplings for High-Tech Applications



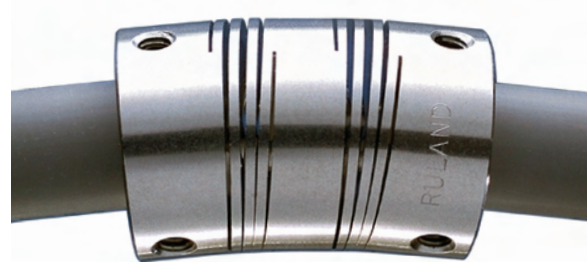
Oldham couplings are available in inch and metric bore sizes from 1/8" to 1-1/8" (3mm to 30mm)

Oldham couplings are comprised of two aluminum hubs with drive tenons that mate with a floating center member. This design results in a highly customizable shaft coupling which can easily combine inch to metric, different bore dimensions, and keyed shafts. Oldham couplings are especially useful in applications where parallel misalignment is present. However, they are used in many non-misalignment applications as well due to their light bearing loads, low inertia, electrical isolation, and cost effectiveness.

Commonly used in encoder applications, the beam coupling has multiple spiral cuts machined into a single piece of aluminum. This design offers low inertia and accommodation of angular and parallel misalignment as well as axial motion. The cut pattern ensures backlash-free operation and allows for a small amount of shock absorption. Stainless steel versions are also available for applications requiring higher torque transmission capabilities and corrosion resistance.

All Ruland products are RoHS and REACH compliant and are manufactured in Marlborough, Massachusetts. Special designs, cut patterns for specific applications, keyways, and combination inch to metric bores are also available.

For high technology applications such as test and measurement, inspection, liquid handling, semi-conductor, solar panel production equipment, print and packaging automation as well as medical devices, Ruland manufactures a variety of components including oldham couplings and beam couplings.



Beam couplings are available in inch and metric bore sizes from 3/32" to 3/4" (2mm to 19mm)

Why Ruland Couplings?

- Select materials, proprietary processes, and extra manufacturing steps to ensure superior performance
- Six types of zero-backlash motion control couplings for a variety of application needs
- Carefully made in our Marlborough, MA factory with large stocks for immediate delivery
- Special designs available

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



Disc Coupling

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

