

**RULAND** 

Carefully Made Shaft Collars and Couplings

**RULAND.COM**

*Relax, you chose Ruland*



# PAIR with Ruland



## Performance

We design and manufacture our shaft collars and couplings to the highest standard, allowing for increased performance.



## Accuracy

From lead times to pricing, we keep our information in your system up to date, so you can easily quote your customers.



## Inventory

No need to wait. We keep a large inventory of products ready to ship in our Massachusetts factory.



## Reliability

Our average lead time is under 3 days and we ship over 70% of orders same day due to our direct control of manufacturing, long-term supplier relationships, and dedicated employees.



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# Shaft Collars



# Shaft Collars

- > Broadest standard in-stock offering
- > Superior fit, finish, and holding power
- > Tightly controlled face to bore perpendicularity

## COMMON APPLICATIONS

- > Load-bearing face
- > Mechanical stop
- > Component alignment

## INDUSTRIES

- > Packaging, Food Processing, Medical, Printing



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# Rigid Couplings



# Rigid Couplings

- > Precision honed bores on straight bore couplings
- > Nypatch® anti-vibration hardware
- > Two-piece styles have a balanced design

## COMMON APPLICATIONS

- > High torque and/or stiffness is required
- > Mixers
- > Low speed servo driven systems

## INDUSTRIES

- > Packaging, Food Processing, Printing

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# Beam Couplings



# Beam Couplings

- > Zero-backlash
- > Multiple beam design for increased torque and stiffness
- > Aluminum for lightweight and low inertia
- > Stainless steel for higher torque applications

## COMMON APPLICATIONS

- > Encoders and tachometers that use delicate components
- > Connecting a stepper motor to a lead screw

## INDUSTRIES

- > Robotics, Medical, Packaging

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# Bellows Couplings



# Bellows Couplings

- > Highest size-for-size torque and stiffness
- > Balanced design for speeds up to 10,000 RPM
- > Accommodates all forms of misalignment

## COMMON APPLICATIONS

- > Highly responsive systems where misalignment can be tightly controlled
- > Connecting a servo motor to a ball screw or gearbox

## INDUSTRIES

- > Robotics, Semiconductor, Factory Automation

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# Disc Couplings



# Disc Couplings

- > Single disc for compact installations
- > Double disc for increased misalignment
- > High torque and stiffness

## COMMON APPLICATIONS

- > High speed applications up to 10,000 RPM
- > Electrical isolation when used with an acetal center disc
- > Connecting a servo motor to a ball screw

## INDUSTRIES

- > Semiconductor, Precision Conveyors

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# Jaw Couplings



# Jaw Couplings

- > Highly customizable
- > Spiders allow to match performance to application needs
- > Greatest dampening capabilities

## COMMON APPLICATIONS

- > High shock loads due to rapid starts and stops
- > Coupling needs to be fail safe in the event of a failure
- > Connecting a servo motor to a ball or lead screw

## INDUSTRIES

- > Robotics, Medical, Automated Inspection

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# Oldham Couplings



# Oldham Couplings

- > High parallel misalignment capabilities
- > Aluminum hubs for lightweight and low inertia
- > Stainless steel hubs for increased corrosion resistance and temperature

## COMMON APPLICATIONS

- > Servo systems where misalignment cannot be tightly controlled
- > Coupling needs to act as a mechanical fuse
- > Connecting a stepper or servo motor to a ball screw or lead screw

## INDUSTRIES

- > Robotics, Medical, Automated Inspection

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# Controlflex Couplings



# Controlflex Couplings

- > Low bearing loads to help protect sensitive system components
- > Step bore range up to 4:1 big bore to small bore
- > Speeds up to 25,000 RPM

## COMMON APPLICATIONS

- > Designed as an encoder coupling
- > Low bearing loads in encoders and tachometers
- > Coupling is needed to fit in a compact space

## INDUSTRIES

- > Encoders, Packaging, Robotics

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# Slit Couplings



# Slit Couplings

- > Bore sizes start at 1.5mm
- > Speeds up to 70,000 RPM
- > High stiffness in a compact design

## COMMON APPLICATIONS

- > In place of a stainless steel beam coupling where low inertia is desired
- > Responsive systems where misalignment cannot be tightly controlled
- > Connecting a servo motor to a ball or lead screw

## INDUSTRIES

- > Medical, Robotics, Semiconductor