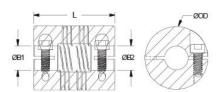




PCR10-2.5-2.5-A

Ruland PCR10-2.5-2.5-A, 5/32" x 5/32" Four Beam Coupling, Aluminum, Clamp Style, 0.625" OD, 0.800" Length





Description

Ruland PCR10-2.5-2.5-A is a clamp style four beam coupling with 0.1563" x 0.1563" bores, 0.625" OD, and 0.800" length. It is machined from a single piece of material and feature two sets of two spiral cuts. This gives it higher torque capacity, lower windup, and larger body sizes than single beam couplings. PCR10-2.5-2.5-A is zero-backlash and has a balanced design for reduced vibration at high speeds of up to 6,000 RPM. This four beam spiral coupling is zero-backlash and has a balanced design for reduced vibration at high speeds of up to 6,000 RPM. All hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. PCR10-2.5-2.5-A is made from 7075 aluminum for lightweight and low inertia. It is machined from bar stock that is sourced exclusively from North American mills and RoHS3 and REACH compliant. PCR10-2.5-2.5-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

B1 Max Shaft Penetration 0.377 in B2 Max Shaft Penetration 0.377 in Outer Diameter (OD) 0.625 in Bore Tolerance +0.001 in / -0.000 in Length (L) 0.800 in Recommended Shaft Tolerance +0.000 in / -0.0005 in Cap Screw M2 Screw Material Alloy Steel Hex Wrench Size 1.5 mm Screw Finish Black Oxide Seating Torque 0.6 Nm Number of Screws 2 ea Opynamic Torque Reversing 3 lb-in Angular Misalignment 3° Opynamic Torque Reversing 6 lb-in Parallel Misalignment 0.008 in Oxide Oxide Static Torque 12 lb-in Axial Motion 0.005 in Torsional Stiffness 0.540 Deg/lb-in Moment of Inertia 0.0011 lb-in² Maximum Speed 6.000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW-BT-1R-1/4-5.3 Recommended Hex Key Metric Hex Keys Material Specification 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.018300 UPC 634529032350 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application Note 3 Torque ratings are for guidance only. The user must determine suitability for a particular application Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance.	i roddot opoomodtiono			
Duter Diameter (OD) 0.625 in Bore Tolerance +0.001 in /-0.000 in /-0.0005 in Recommended Shaft Tolerance 40.000 in /-0.0005 in Recommended Shaft Tolerance 40.000 in /-0.0005 in /-0.0005 in Recommended Shaft Tolerance 40.000 in /-0.0005 in /-0.0005 in Recommended Shaft Tolerance 40.000 in /-0.0005 in Recommended Recommended Shaft Tolerance 40.000 in /-0.0005 in Recommended Misalignment 40.000 in /-0.0005 in Recommended Misalignment 50.000 in /-0.0005 in Recommended Misalignment 60.000	Bore (B1)	0.1563 in	Small Bore (B2)	0.1563 in
Length (L) 0.800 in Recommended Shaft Tolerance +0.0000 in / -0.0005 in Cap Screw M2 Screw Material Alloy Steel Hex Wrench Size 1.5 mm Screw Finish Black Oxide Seating Torque 0.6 Nm Number of Screws 2 ea Dynamic Torque Reversing 3 lb-in Angular Misalignment 3° Dynamic Torque Non-Reversing 6 lb-in Parallel Misalignment 0.008 in Static Torque 12 lb-in Axial Motion 0.005 in Torsional Stiffness 0.540 Deg/lb-in Moment of Inertia 0.0011 lb-in² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-5.3 Recommended Hex Key Metric Hex Keys Material Specification 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.018300 UPC 634529032350 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance. Prop 65 ■ WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	B1 Max Shaft Penetration	0.377 in	B2 Max Shaft Penetration	0.377 in
Cap Screw M2 Screw Material Alloy Steel Hex Wrench Size 1.5 mm Screw Finish Black Oxide Seating Torque 0.6 Nm Number of Screws 2 ea Dynamic Torque Reversing 3 lb-in Angular Misalignment 3° Dynamic Torque Reversing 6 lb-in Parallel Misalignment 0.008 in Static Torque Non-Reversing 6 lb-in Parallel Misalignment 0.005 in Torsional Stiffness 0.540 Deg/lb-in Moment of Inertia 0.0011 lb-in² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW.BT-1R-1/4-5.3 Recommended Hex Key Metric Hex Keys Material Specification 7075-1651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.018300 UNCC 634529032350 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance. Prop 65 □ WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Outer Diameter (OD)	0.625 in	Bore Tolerance	+0.001 in / -0.000 in
Hex Wrench Size 1.5 mm Screw Finish Black Oxide Seating Torque 0.6 Nm Number of Screws 2 ea Dynamic Torque Reversing 3 lb-in Angular Misalignment 3° Dynamic Torque Non-Reversing 6 lb-in Parallel Misalignment 0.008 in Static Torque 12 lb-in Axial Motion 0.005 in Torsional Stiffness 0.540 Deg/lb-in Moment of Inertia 0.0011 lb-in² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-5.3 Recommended Hex Key Matric Hex Keys Material Specification 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.018300 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application Note 3 Torque ratings for the couplings are based on the physical limitations/faillure point of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance. Prop 65 AWARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Length (L)	0.800 in	Recommended Shaft Tolerance	+0.0000 in / -0.0005 in
Seating Torque 0.6 Nm Number of Screws 2 ea Dynamic Torque Reversing 3 lb-in Angular Misalignment 3° Dynamic Torque Non-Reversing 6 lb-in Parallel Misalignment 0.008 in Static Torque 12 lb-in Axial Motion 0.005 in Torsional Stiffness 0.540 Deg/lb-in Moment of Inertia 0.0011 lb-in² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-5.3 Recommended Hex Key Metric Hex Keys Material Specification 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.018300 UPC 634529032350 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance. Prop 65	Cap Screw	M2	Screw Material	Alloy Steel
Dynamic Torque Reversing 3 lb-in Angular Misalignment 3° Dynamic Torque Non-Reversing 6 lb-in Parallel Misalignment 0.008 in 0.005 in 0.001 lb-in² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-5.3 Recommended Hex Key Metric Hex Keys Material Specification 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.018300 UPC 634529032350 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance.	Hex Wrench Size	1.5 mm	Screw Finish	Black Oxide
Dynamic Torque Non-Reversing 6 lb-in Parallel Misalignment 0.008 in Static Torque 12 lb-in Axial Motion 0.005 in Torsional Stiffness 0.540 Deg/lb-in Moment of Inertia 0.0011 lb-in² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:B-1R-1/4-5.3 Recommended Hex Key Metric Hex Keys Material Specification 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.018300 UPC 634529032350 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application Note 3 Torque ratings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Prop 65 AWARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Seating Torque	0.6 Nm	Number of Screws	2 ea
It lb-in Axial Motion 0.005 in Torsional Stiffness 0.540 Deg/lb-in Moment of Inertia 0.0011 lb-in² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-5.3 Recommended Hex Key Metric Hex Keys Material Specification 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.018300 UPC 634529032350 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application Vote 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance. Prop 65 AWARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Dynamic Torque Reversing	3 lb-in	Angular Misalignment	3°
Torsional Stiffness 0.540 Deg/lb-in Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-5.3 Recommended Hex Key Metric Hex Keys Material Specification 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Weight (lbs) 0.018300 UPC 634529032350 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance. Prop 65 MARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Dynamic Torque Non-Reversing	6 lb-in	Parallel Misalignment	0.008 in
Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-5.3 Recommended Hex Key Metric Hex Keys Temperature -40°F to 225°F (-40°C to 107°C) Aluminum Bar Finish Specification Bright, No Plating Weight (Ibs) USA Weight (Ibs) USA Weight (Ibs) USA Weight (Ibs) UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance. Prop 65 MARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Static Torque	12 lb-in	Axial Motion	0.005 in
Torque Wrench TW:BT-1R-1/4-5.3 Recommended Hex Key Metric Hex Keys Torque Wrench TW:BT-1R-1/4-5.3 Recommended Hex Key Metric Hex Keys Torque Wrench Toropa Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.018300 UPC 634529032350 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance. Prop 65 ■ WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Torsional Stiffness	0.540 Deg/lb-in	Moment of Inertia	0.0011 lb-in ²
Torque Wrench TW:BT-1R-1/4-5.3 Recommended Hex Key Material Specification Tor5-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.018300 UPC 634529032350 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance. Prop 65 WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Maximum Speed	6,000 RPM	Full Bearing Support Required?	Yes
Material Specification 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.018300 UPC 634529032350 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance. Prop 65 WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Zero-Backlash?	Yes	Balanced Design	Yes
Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.018300 UPC 634529032350 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance. Prop 65 WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Torque Wrench	TW:BT-1R-1/4-5.3	Recommended Hex Key	Metric Hex Keys
Country of Origin USA Weight (lbs) 0.018300 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application of the machined beams under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance. Prop 65 WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Material Specification		Temperature	-40°F to 225°F (-40°C to 107°C)
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UNSPC Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application. Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constechnical support for more assistance. Prop 65 ■ WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Country of Origin	USA	Weight (lbs)	0.018300
Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application. Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please constitutional support for more assistance. Prop 65 WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	UPC	634529032350	Tariff Code	8483.60.8000
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	Prop 65	California to cause cancer and birth defects or other reproductive harm. For more information go to		

Installation Instructions

1. Align the bores of the PCR10-2.5-2.5-A four beam coupling on the shafts that are to be joined and

- determine if the misalignment parameters are within the limits of the coupling. (*Angular Misialignment:* 3°, *Parallel Misalignment:* 0.008 in, *Axial Motion:* 0.005 in)
- 2. Fully tighten the M2 screw on one hub to the recommended seating torque of 0.6 Nm using a 1.5 mm hex torque wrench.
- 3. Before tightening the screws on the second hub, rotate the coupling by hand to allow it to reach its free length.
- 4. Tighten the screws on the second hub to the recommended seating torque. Make sure the coupling remains axially relaxed and the misalignment angle remains centered along the length of the coupling.
- 5. The shafts may extend into the relieved portion of the bore as long as it does not exceed the shaft penetration length of 0.377 in.