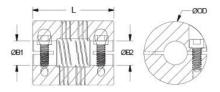




PCMR19-6-5-SS

Ruland PCMR19-6-5-SS, 6mm x 5mm Four Beam Coupling, Stainless Steel, Clamp Style, 19.1mm OD, 22.9mm Length





Description

Ruland PCMR19-6-5-SS is a clamp style four beam coupling with 6mm x 5mm bores, 19.1mm OD, and 22.9mm 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. PCMR19-6-5-SS 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. PCMR19-6-5-SS is made from 303 stainless steel for increased torque capacity. It is machined from bar stock that is sourced exclusively from North American mills and RoHS3 and REACH compliant. PCMR19-6-5-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

/Nm PM R-1/4-10.7 3 Austenitic, Non-Magnetic o Plating	Small Bore (B2) B2 Max Shaft Penetration Bore Tolerance Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Balanced Design Recommended Hex Key Temperature	5 mm 10.7 mm +0.025 mm / -0.000 mm +0.000 mm / -0.013 mm Alloy Steel Black Oxide 2 ea 3° 0.20 mm 0.13 mm 2.048 x10 ⁻⁶ kg-m ² Yes Yes Metric Hex Keys -40°F to 350°F (-40°C to 176°C)
/Nm PM <u>R-1/4-10.7</u> 3 Austenitic, Non-Magnetic	Bore Tolerance Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Balanced Design Recommended Hex Key	+0.025 mm / -0.000 mm +0.000 mm / -0.013 mm Alloy Steel Black Oxide 2 ea 3° 0.20 mm 0.13 mm 2.048 x10 ⁻⁶ kg-m ² Yes Yes Metric Hex Keys
/Nm PM <u>R-1/4-10.7</u> 3 Austenitic, Non-Magnetic	Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Balanced Design Recommended Hex Key	+0.000 mm / -0.013 mm Alloy Steel Black Oxide 2 ea 3° 0.20 mm 0.13 mm 2.048 x10 ⁻⁶ kg-m ² Yes Yes Metric Hex Keys
/Nm PM <u>R-1/4-10.7</u> 3 Austenitic, Non-Magnetic	Screw Material Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Balanced Design Recommended Hex Key	Alloy Steel Black Oxide 2 ea 3° 0.20 mm 0.13 mm 2.048 x10 ⁻⁶ kg-m ² Yes Yes Metric Hex Keys
/Nm PM <u>R-1/4-10.7</u> 3 Austenitic, Non-Magnetic	Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Balanced Design Recommended Hex Key	Black Oxide 2 ea 3° 0.20 mm 0.13 mm 2.048 x10 ⁻⁶ kg-m ² Yes Yes <u>Metric Hex Keys</u>
/Nm PM <u>R-1/4-10.7</u> 3 Austenitic, Non-Magnetic	Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Balanced Design Recommended Hex Key	2 ea 3° 0.20 mm 0.13 mm 2.048 x10 ⁻⁶ kg-m ² Yes Yes <u>Metric Hex Keys</u>
/Nm PM <u>R-1/4-10.7</u> 3 Austenitic, Non-Magnetic	Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Balanced Design Recommended Hex Key	3° 0.20 mm 0.13 mm 2.048 x10 ⁻⁶ kg-m ² Yes Yes <u>Metric Hex Keys</u>
/Nm PM <u>R-1/4-10.7</u> 3 Austenitic, Non-Magnetic	Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Balanced Design Recommended Hex Key	0.20 mm 0.13 mm 2.048 x10 ⁻⁶ kg-m ² Yes Yes <u>Metric Hex Keys</u>
/Nm PM <u>R-1/4-10.7</u> 3 Austenitic, Non-Magnetic	Axial Motion Moment of Inertia Full Bearing Support Required? Balanced Design Recommended Hex Key	0.13 mm 2.048 x10 ⁻⁶ kg-m ² Yes Yes <u>Metric Hex Keys</u>
/Nm PM <u>R-1/4-10.7</u> 3 Austenitic, Non-Magnetic	Moment of Inertia Full Bearing Support Required? Balanced Design Recommended Hex Key	2.048 x10 ⁻⁶ kg-m ² Yes Yes <u>Metric Hex Keys</u>
PM <u>R-1/4-10.7</u> 3 Austenitic, Non-Magnetic	Full Bearing Support Required? Balanced Design Recommended Hex Key	Yes Yes <u>Metric Hex Keys</u>
R-1/4-10.7 3 Austenitic, Non-Magnetic	Balanced Design Recommended Hex Key	Yes <u>Metric Hex Keys</u>
3 Austenitic, Non-Magnetic	Recommended Hex Key	Metric Hex Keys
3 Austenitic, Non-Magnetic		
	Temperature	-40°F to 350°F (-40°C to 176°C)
o Plating		
	Manufacturer	Ruland Manufacturing
	Weight (Ibs)	0.079100
48818	Tariff Code	8483.60.8000
3		
atings are at maximum mis	alignment.	
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 consult		
technical support for more assistance. WARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (metallic)		
	tings are at maximum mis nce ratings are for guidance tings for the couplings are rmal/typical conditions the n some cases, especially we ed, slippage on the shaft is support for more assistance IING This product can exp	tings are at maximum misalignment. Ince ratings are for guidance only. The user must determine su tings for the couplings are based on the physical limitations/fa rmal/typical conditions the hubs are capable of holding up to the some cases, especially when the smallest standard bores are ed, slippage on the shaft is possible below the rated torque of t support for more assistance.

determine if the misalignment parameters are within the limits of the coupling. (Angular

Misialignment: 3°, Parallel Misalignment: 0.20 mm, Axial Motion: 0.13 mm)

- 2. Fully tighten the M2.5 screw on one hub to the recommended seating torque of 1.21 Nm using a 2.0 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 10.7 mm.