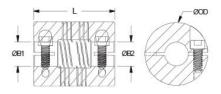




## PCMR29-11-11-SS

Ruland PCMR29-11-11-SS, 11mm x 11mm Four Beam Coupling, Stainless Steel, Clamp Style, 28.6mm OD, 38.1mm Length





## Description

Ruland PCMR29-11-11-SS is a clamp style four beam coupling with 11mm x 11mm bores, 28.6mm OD, and 38.1mm 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. PCMR29-11-11-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. PCMR29-11-11-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. PCMR29-11-11-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

## **Product Specifications**

7.6 mm 3.6 mm 3.1 mm 4 0 mm 6 Nm 30 Nm 60 Nm 20 Nm	Small Bore (B2) B2 Max Shaft Penetration Bore Tolerance Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment Parallel Misalignment	11 mm 17.6 mm +0.025 mm / -0.000 mm +0.000 mm / -0.013 mm Alloy Steel Black Oxide 2 ea 3° 0.38 mm
3.6 mm 3.1 mm 4 0 mm 6 Nm 30 Nm 60 Nm 20 Nm	Bore Tolerance Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment	+0.025 mm / -0.000 mm +0.000 mm / -0.013 mm Alloy Steel Black Oxide 2 ea 3°
3.1 mm 4 0 mm 6 Nm 30 Nm 60 Nm 20 Nm	Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment	+0.000 mm / -0.013 mm Alloy Steel Black Oxide 2 ea 3°
4 0 mm 6 Nm 30 Nm 60 Nm 20 Nm	Screw Material Screw Finish Number of Screws Angular Misalignment	Alloy Steel Black Oxide 2 ea 3°
0 mm 6 Nm 30 Nm 60 Nm 20 Nm	Screw Finish Number of Screws Angular Misalignment	Black Oxide 2 ea 3°
6 Nm 30 Nm 60 Nm 20 Nm	Number of Screws Angular Misalignment	2 ea 3°
30 Nm 60 Nm 20 Nm	Angular Misalignment	3°
60 Nm 20 Nm		
20 Nm	Parallel Misalignment	0.38 mm
		0.00 mm
	Axial Motion	0.25 mm
98 Deg/Nm	Moment of Inertia	17.643 x10 <sup>-6</sup> kg-m <sup>2</sup>
000 RPM	Full Bearing Support Required?	Yes
es	Balanced Design	Yes
<u> W:BT-1R-1/4-41.0</u>	Recommended Hex Key	Metric Hex Keys
/pe 303 Austenitic, Non-Magnetic ar	Temperature	-40°F to 350°F (-40°C to 176°C)
right, No Plating	Manufacturer	Ruland Manufacturing
SA	Weight (Ibs)	0.287300
34529049099	Tariff Code	8483.60.8000
163003		
orque ratings are at maximum misa	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.		
		ene Thiourea and Nickel (metallic),
	s <u>/:BT-1R-1/4-41.0</u> be 303 Austenitic, Non-Magnetic r ght, No Plating A 4529049099 163003 rque ratings are at maximum misa rformance ratings are for guidanc rque ratings for the couplings are der normal/typical conditions the ams. In some cases, especially w dersized, slippage on the shaft is thnical support for more assistanc <b>WARNING</b> This product can exper- bown to the State of California to ca	s Balanced Design   /:BT-1R-1/4-41.0 Recommended Hex Key   be 303 Austenitic, Non-Magnetic Temperature   r ght, No Plating Manufacturer   ght, No Plating Manufacturer   GA Weight (lbs)   4529049099 Tariff Code   163003 rque ratings are at maximum misalignment.   rformance ratings are for guidance only. The user must determine sui   rque ratings for the couplings are based on the physical limitations/fail   der normal/typical conditions the hubs are capable of holding up to the   ams. In some cases, especially when the smallest standard bores are   dersized, slippage on the shaft is possible below the rated torque of the

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

Ruland Manufacturing Co., Inc. 6 Hayes Memorial Drive • Marlborough, MA 01752 • Main 508-485-1000 • Email sales@ruland.com • www.ruland.com Misialignment: 3°, Parallel Misalignment: 0.38 mm, Axial Motion: 0.25 mm)

- 2. Fully tighten the M4 screw on one hub to the recommended seating torque of 4.6 Nm using a 3.0 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 17.6 mm.