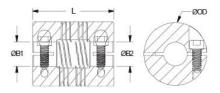




PCMR32-10-7-SS

Ruland PCMR32-10-7-SS, 10mm x 7mm Four Beam Coupling, Stainless Steel, Clamp Style, 31.8mm OD, 38.1mm Length





Description

Ruland PCMR32-10-7-SS is a clamp style four beam coupling with 10mm x 7mm bores, 31.8mm 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. PCMR32-10-7-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. PCMR32-10-7-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. PCMR32-10-7-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)			
	10 mm	Small Bore (B2)	7 mm
31 Max Shaft Penetration	17.6 mm	B2 Max Shaft Penetration	17.6 mm
Outer Diameter (OD)	31.8 mm	Bore Tolerance	+0.025 mm / -0.000 mm
ength (L)	38.1 mm	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm
Cap Screw	M4	Screw Material	Alloy Steel
lex Wrench Size	3.0 mm	Screw Finish	Black Oxide
Seating Torque	4.6 Nm	Number of Screws	2 ea
Oynamic Torque Reversing	2.29 Nm	Angular Misalignment	3°
Oynamic Torque Non-Reversing	4.58 Nm	Parallel Misalignment	0.38 mm
Static Torque	9.15 Nm	Axial Motion	0.25 mm
orsional Stiffness	0.39 Deg/Nm	Moment of Inertia	26.977 x10 ⁻⁶ kg-m ²
laximum Speed	6,000 RPM	Full Bearing Support Required?	Yes
ero-Backlash?	Yes	Balanced Design	Yes
orque Wrench	<u>TW:BT-1R-1/4-41.0</u>	Recommended Hex Key	Metric Hex Keys
laterial Specification	Type 303 Austenitic, Non-Magnetic Bar	Temperature	-40°F to 350°F (-40°C to 176°C)
inish Specification	Bright, No Plating	Manufacturer	Ruland Manufacturing
Country of Origin	USA	Weight (Ibs)	0.386100
JPC	634529049334	Tariff Code	8483.60.8000
JNSPC	31163003		
lote 1	Torque ratings are at maximum misalignment.		
lote 2	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
lote 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 consu		
	undersized, slippage on the shaft is technical support for more assistant		he machined beams. Please consu
Prop 65	AWARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (metallic), known to the State of California to cause cancer		

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

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.