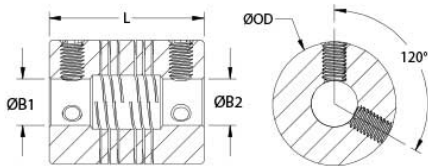




## PSMR22-7-6-A


Ruland PSMR22-7-6-A, 7mm x 6mm Four Beam Coupling, Aluminum, Set Screw Style, 22.2mm OD, 27.0mm Length



### Description

Ruland PSMR22-7-6-A is a set screw style four beam coupling with 7mm x 6mm bores, 22.2mm OD, and 27.0mm 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. PSMR22-7-6-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. PSMR22-7-6-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. PSMR22-7-6-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

### Product Specifications

<b>Bore (B1)</b>	7 mm	<b>Small Bore (B2)</b>	6 mm
<b>B1 Max Shaft Penetration</b>	12.7 mm	<b>B2 Max Shaft Penetration</b>	12.7 mm
<b>Outer Diameter (OD)</b>	22.2 mm	<b>Bore Tolerance</b>	+0.025 mm / -0.000 mm
<b>Length (L)</b>	27.0 mm	<b>Recommended Shaft Tolerance</b>	+0.000 mm / -0.013 mm
<b>Forged Set Screw</b>	M4	<b>Screw Material</b>	Alloy Steel
<b>Hex Wrench Size</b>	2.0 mm	<b>Screw Finish</b>	Black Oxide
<b>Seating Torque</b>	1.76 Nm	<b>Number of Screws</b>	4 ea
<b>Dynamic Torque Reversing</b>	0.45 Nm	<b>Angular Misalignment</b>	3.0°
<b>Dynamic Torque Non-Reversing</b>	0.91 Nm	<b>Parallel Misalignment</b>	0.20 mm
<b>Static Torque</b>	1.81 Nm	<b>Axial Motion</b>	0.13 mm
<b>Torsional Stiffness</b>	2.43 Deg/Nm	<b>Moment of Inertia</b>	1.639 x10 <sup>-6</sup> kg-m <sup>2</sup>
<b>Maximum Speed</b>	6,000 RPM	<b>Full Bearing Support Required?</b>	Yes
<b>Zero-Backlash?</b>	Yes	<b>Torque Wrench</b>	<a href="#">TW:BT-1R-1/4-15.6</a>
<b>Recommended Hex Key</b>	<a href="#">Metric Hex Keys</a>	<b>Material Specification</b>	7075-T651 Extruded and Drawn Aluminum Bar
<b>Temperature</b>	-40°F to 225°F (-40°C to 107°C)	<b>Finish Specification</b>	Bright, No Plating
<b>Manufacturer</b>	Ruland Manufacturing	<b>Country of Origin</b>	USA
<b>Weight (lbs)</b>	0.053100	<b>UPC</b>	634529033098
<b>Tariff Code</b>	8483.60.8000	<b>UNSPC</b>	31163003
<b>Note 1</b>	Torque ratings are at maximum misalignment.		
<b>Note 2</b>	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
<b>Note 3</b>	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.		
<b>Prop 65</b>	 <b>WARNING</b> 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .		

### Installation Instructions

1. Align the bores of the PSMR22-7-6-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*

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

2. Fully tighten the M4 screws on one hub to the recommended seating torque of 1.76 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 12.7 mm.
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