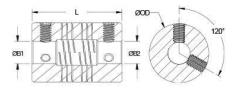




## FSMR32-15-9-SS

Ruland FSMR32-15-9-SS, 15mm x 9mm Six Beam Coupling, Stainless Steel, Set Screw Style, 31.8mm OD, 44.5mm Length





## Description

Ruland FSMR32-15-9-SS is a set screw style six beam coupling with 15mm x 9mm bores, 31.8mm OD, and 44.5mm length. It is machined from a single piece of material and features two sets of three spiral cuts. This gives it higher torque capacity, lower windup, and larger body sizes than single or four beam couplings and allows for use in light duty power transmission applications such as coupling a servo motor to a lead screw. FSMR32-15-9-SS 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. FSMR32-15-9-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. FSMR32-15-9-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

## **Product Specifications**

21.4 mm 31.8 mm 44.5 mm 46 3.0 mm 7.2 Nm 2.83 Nm	Small Bore (B2) B2 Max Shaft Penetration Bore Tolerance Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment	9 mm 21.4 mm +0.025 mm / -0.000 mm +0.000 mm / -0.013 mm Alloy Steel Black Oxide 4 ea
31.8 mm 44.5 mm M6 3.0 mm 7.2 Nm 2.83 Nm	Bore Tolerance Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws	+0.025 mm / -0.000 mm +0.000 mm / -0.013 mm Alloy Steel Black Oxide
14.5 mm M6 3.0 mm 7.2 Nm 2.83 Nm	Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws	+0.000 mm / -0.013 mm Alloy Steel Black Oxide
M6 3.0 mm 7.2 Nm 2.83 Nm	Screw Material Screw Finish Number of Screws	Alloy Steel Black Oxide
3.0 mm 7.2 Nm 2.83 Nm	Screw Finish Number of Screws	Black Oxide
7.2 Nm 2.83 Nm	Number of Screws	
2.83 Nm		4 ea
	Annular Micelianment	
5.66 Nm	Angular Misalignment	3°
	Parallel Misalignment	0.38 mm
11.32 Nm	Axial Motion	0.25 mm
).33 Deg/Nm	Moment of Inertia	32.426 x10 <sup>-6</sup> kg-m <sup>2</sup>
6,000 RPM	Full Bearing Support Required?	Yes
Yes	Torque Wrench	<u>TW:BT-4C-3/8-64</u>
<u>Metric Hex Keys</u>	Material Specification	Type 303 Austenitic, Non-Magnetic Bar
40°F to 350°F (-40°C to 176°C)	Finish Specification	Bright, No Plating
Ruland Manufacturing	Country of Origin	USA
0.450600	UPC	634529046616
3483.60.8000	UNSPC	31163003
Torque ratings are at maximum misalignment.		
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.		
known to the State of California to ca	ause cancer, and Ethylene Thiourea	known to the State of California to
5, 70 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	000 RPM es letric Hex Keys 10°F to 350°F (-40°C to 176°C) uland Manufacturing .450600 483.60.8000 orque ratings are at maximum misa erformance ratings are for guidance orque ratings for the couplings are nder normal/typical conditions the eams. In some cases, especially we ndersized, slippage on the shaft is echnical support for more assistance WARNING This product can expen- nown to the State of California to ca	GOOD RPMFull Bearing Support Required?esTorque Wrenchletric Hex KeysMaterial Specification40°F to 350°F (-40°C to 176°C)Finish Specificationuland ManufacturingCountry of Origin.450600UPC483.60.8000UNSPCorque ratings are at maximum misalignment.erformance ratings are for guidance only. The user must determine suiorque ratings for the couplings are based on the physical limitations/failnder normal/typical conditions the hubs are capable of holding up to theeams. In some cases, especially when the smallest standard bores arendersized, 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

Misialignment: 3°, Parallel Misalignment: 0.38 mm, Axial Motion: 0.25 mm)

- 2. Fully tighten the M6 screws on one hub to the recommended seating torque of 7.2 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.
- 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 21.4 mm.