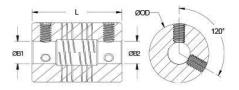




## FSMR32-14-8-SS

Ruland FSMR32-14-8-SS, 14mm x 8mm Six Beam Coupling, Stainless Steel, Set Screw Style, 31.8mm OD, 44.5mm Length





## Description

Ruland FSMR32-14-8-SS is a set screw style six beam coupling with 14mm x 8mm 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. FSMR32-14-8-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. FSMR32-14-8-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. FSMR32-14-8-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

## **Product Specifications**

1.4 mm 1.8 mm 4.5 mm 16 .0 mm .2 Nm .83 Nm .66 Nm	Small Bore (B2) B2 Max Shaft Penetration Bore Tolerance Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment	8 mm 21.4 mm +0.025 mm / -0.000 mm +0.000 mm / -0.013 mm Alloy Steel Black Oxide 4 ea 3°
1.8 mm 4.5 mm 16 .0 mm .2 Nm .83 Nm .66 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 4 ea
4.5 mm 16 .0 mm .2 Nm .83 Nm .66 Nm	Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment	+0.000 mm / -0.013 mm Alloy Steel Black Oxide 4 ea
16 .0 mm .2 Nm .83 Nm .66 Nm	Screw Material Screw Finish Number of Screws Angular Misalignment	Alloy Steel Black Oxide 4 ea
.0 mm .2 Nm .83 Nm .66 Nm	Screw Finish Number of Screws Angular Misalignment	Black Oxide 4 ea
.2 Nm .83 Nm .66 Nm	Number of Screws Angular Misalignment	4 ea
.83 Nm .66 Nm	Angular Misalignment	
.66 Nm		3°
1.32 Nm	Parallel Misalignment	0.38 mm
	Axial Motion	0.25 mm
.33 Deg/Nm	Moment of Inertia	32.426 x10 <sup>-6</sup> kg-m <sup>2</sup>
,000 RPM	Full Bearing Support Required?	Yes
es	Torque Wrench	<u>TW:BT-4C-3/8-64</u>
<u>letric 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
uland Manufacturing	Country of Origin	USA
.469600	UPC	634529046531
483.60.8000	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.		
nown to the State of California to ca	ause cancer, and Ethylene Thiourea	known to the State of California to
	25 20°F to 350°F (-40°C to 176°C) uland Manufacturing 469600 83.60.8000 rque ratings are at maximum misa erformance ratings are for guidance rque ratings for the couplings are nder normal/typical conditions the ams. In some cases, especially w dersized, slippage on the shaft is chnical support for more assistance WARNING This product can expre- own to the State of California to ca	Torque Wrench   Attric Hex Keys Material Specification   D°F to 350°F (-40°C to 176°C) Finish Specification   State of the coupling to 176°C UPC   Ba3.60.8000 UNSPC   orque ratings are for guidance only. The user must determine suitorque ratings for the couplings are based on the physical limitations/failed torque ratings for the couplings are based on the physical limitations/failed torque ratings. In some cases, especially when the smallest standard bores are dersized, slippage on the shaft is possible below the rated torque of the state torque of

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.