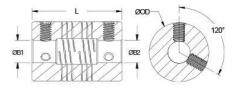




## FSR16-6-6-SS

Ruland FSR16-6-6-SS, 3/8" x 3/8" Six Beam Coupling, Stainless Steel, Set Screw Style, 1.000" OD, 1.500" Length





## Description

Ruland FSR16-6-6-SS is a set screw style six beam coupling with 0.3750" x 0.3750" bores, 1.000" OD, and 1.500" 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. FSR16-6-6-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. FSR16-6-6-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. FSR16-6-6-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

## **Product Specifications**

duct specifications			
e (B1) 0.37	3750 in	Small Bore (B2)	0.3750 in
Max Shaft Penetration 0.72	720 in	B2 Max Shaft Penetration	0.720 in
er Diameter (OD) 1.00	000 in	Bore Tolerance	+0.001 in / -0.000 in
gth (L) 1.50	500 in	Recommended Shaft Tolerance	+0.0000 in / -0.0005 in
ged Set Screw M5	5	Screw Material	Alloy Steel
Wrench Size 2.5	5 mm	Screw Finish	Black Oxide
ting Torque 4 N	Nm	Number of Screws	4 ea
amic Torque Reversing 12.5	2.5 lb-in	Angular Misalignment	3°
amic Torque Non-Reversing 25	5 lb-in	Parallel Misalignment	0.015 in
ic Torque 50 II	) lb-in	Axial Motion	0.010 in
sional Stiffness 0.04	046 Deg/lb-in	Moment of Inertia	0.0381 lb-in <sup>2</sup>
imum Speed 6,00	000 RPM	Full Bearing Support Required?	Yes
-Backlash? Yes	es	Torque Wrench	TW:BT-1R-1/4-35.0
ommended Hex Key Met	<u>etric Hex Keys</u>	Material Specification	Type 303 Austenitic, Non-Magnetic Bar
perature -40°	0°F to 350°F (-40°C to 176°C)	Finish Specification	Bright, No Plating
ufacturer Rula	uland Manufacturing	Country of Origin	USA
ght (lbs) 0.25	258800	UPC	634529047057
ff Code 848	183.60.8000	UNSPC	31163003
e1 Toro	Torque ratings are at maximum misalignment.		
e 2 Per	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
Und bea und	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.		
kno	<b>WARNING</b> This product can expose you to chemicals including Ethylene Thiourea and Nickel (metallic), known to the State of California to cause cancer, and Ethylene Thiourea known to the State of California to cause birth defects or other reproductive harm. For more information go to <u>www.P65Warnings.ca.gov</u> .		
	ause birth defects or other reproduc		to <u>www.P65</u>

1. Align the bores of the FSR16-6-6-SS six beam coupling on the shafts that are to be joined and determine if the misalignment parameters are within the limits of the coupling. (*Angular* 

Misialignment: 3°, Parallel Misalignment: 0.015 in, Axial Motion: 0.010 in)

- 2. Fully tighten the M5 screws on one hub to the recommended seating torque of 4 Nm using a 2.5 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 0.720 in.