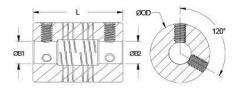




FSMR38-11-10-SS

Ruland FSMR38-11-10-SS, 11mm x 10mm Six Beam Coupling, Stainless Steel, Set Screw Style, 38.1mm OD, 57.2mm Length





Description

Ruland FSMR38-11-10-SS is a set screw style six beam coupling with 11mm x 10mm bores, 38.1mm OD, and 57.2mm 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. FSMR38-11-10-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. FSMR38-11-10-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. FSMR38-11-10-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

7.2 Nm 5.38 Nm	Small Bore (B2) B2 Max Shaft Penetration Bore Tolerance Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws	10 mm 27.3 mm +0.025 mm / -0.000 mm +0.000 mm / -0.013 mm Alloy Steel Black Oxide
38.1 mm 57.2 mm M6 3.0 mm 7.2 Nm 5.38 Nm	Bore Tolerance Recommended Shaft Tolerance Screw Material Screw Finish	+0.025 mm / -0.000 mm +0.000 mm / -0.013 mm Alloy Steel Black Oxide
57.2 mm M6 3.0 mm 7.2 Nm 5.38 Nm	Recommended Shaft Tolerance Screw Material Screw Finish	+0.000 mm / -0.013 mm Alloy Steel Black Oxide
M6 3.0 mm 7.2 Nm 5.38 Nm	Screw Material Screw Finish	Alloy Steel Black Oxide
3.0 mm 7.2 Nm 5.38 Nm	Screw Finish	Black Oxide
7.2 Nm 5.38 Nm		
5.38 Nm	Number of Screws	4
		4 ea
	Angular Misalignment	3°
10.76 Nm	Parallel Misalignment	0.76 mm
21.52 Nm	Axial Motion	0.38 mm
0.19 Deg/Nm	Moment of Inertia	83.407 x10 ⁻⁶ kg-m ²
6,000 RPM	Full Bearing Support Required?	Yes
Yes	Torque Wrench	TW:BT-4C-3/8-64
Metric Hex Keys	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
0.915600	UPC	634529046661
8483.60.8000	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
6 Y V R R 0 8 T V 0 S 1 T U 0 S 1 T V V	,000 RPM Yes <u>Metric Hex Keys</u> 40°F to 350°F (-40°C to 176°C) Ruland Manufacturing .915600 483.60.8000 Yerformance ratings are at maximum miss Performance ratings are for guidance Torque ratings for the couplings are Juder 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 car	Full Bearing Support Required?YesTorque WrenchMetric Hex KeysMaterial Specification40°F to 350°F (-40°C to 176°C)Finish SpecificationAuland ManufacturingCountry of Origin.915600UPC483.60.8000UNSPCForque ratings are at maximum misalignment.Performance ratings are for guidance only. The user must determine suiForque ratings for the couplings are based on the physical limitations/failInder normal/typical conditions the hubs are capable of holding up to theearns. 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: 0.76 mm, Axial Motion: 0.38 mm)

- 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 27.3 mm.