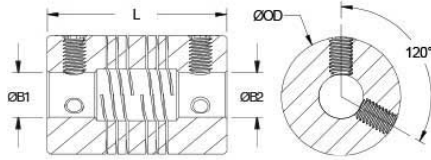




FSMR32-8-8-SS


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



Description

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

Product Specifications

Bore (B1)	8 mm	Small Bore (B2)	8 mm
B1 Max Shaft Penetration	21.4 mm	B2 Max Shaft Penetration	21.4 mm
Outer Diameter (OD)	31.8 mm	Bore Tolerance	+0.025 mm / -0.000 mm
Length (L)	44.5 mm	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm
Forged Set Screw	M6	Screw Material	Alloy Steel
Hex Wrench Size	3.0 mm	Screw Finish	Black Oxide
Seating Torque	7.2 Nm	Number of Screws	4 ea
Dynamic Torque Reversing	4.02 Nm	Angular Misalignment	3.0°
Dynamic Torque Non-Reversing	8.04 Nm	Parallel Misalignment	0.38 mm
Static Torque	16.08 Nm	Axial Motion	0.25 mm
Torsional Stiffness	0.15 Deg/Nm	Moment of Inertia	32.426 x10 ⁻⁶ kg-m ²
Maximum Speed	6,000 RPM	Full Bearing Support Required?	Yes
Zero-Backlash?	Yes	Torque Wrench	TW:BT-4C-3/8-64
Recommended Hex Key	Metric Hex Keys	Material Specification	Type 303 Austenitic, Non-Magnetic Bar
Temperature	-40°F to 350°F (-40°C to 176°C)	Finish Specification	Bright, No Plating
Manufacturer	Ruland Manufacturing	Country of Origin	USA
Weight (lbs)	0.522600	UPC	634529046623
Tariff Code	8483.60.8000	UNSPC	31163003
Note 1	Torque ratings are at maximum misalignment.		
Note 2	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
Note 3	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.		
Prop 65	 WARNING 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 www.P65Warnings.ca.gov .		

Installation Instructions

1. Align the bores of the FSMR32-8-8-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*

Misalignment: 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.
 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 21.4 mm.
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