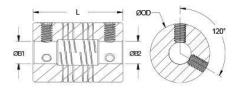




FSMR32-14-13-SS

Ruland FSMR32-14-13-SS, 14mm x 13mm Six Beam Coupling, Stainless Steel, Set Screw Style, 31.8mm OD, 44.5mm Length





Description

Ruland FSMR32-14-13-SS is a set screw style six beam coupling with 14mm x 13mm 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. FSMR32-14-13-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. FSMR32-14-13-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. FSMR32-14-13-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

31.8 mm 44.5 mm M6	Small Bore (B2)B2 Max Shaft PenetrationBore ToleranceRecommended Shaft Tolerance	13 mm 21.4 mm +0.025 mm / -0.000 mm +0.000 mm / -0.013 mm
31.8 mm 44.5 mm M6	Bore Tolerance Recommended Shaft Tolerance	+0.025 mm / -0.000 mm
44.5 mm M6	Recommended Shaft Tolerance	
M6		+0.000 mm / -0.013 mm
	Screw Material	Alloy Steel
3.0 mm	Screw Finish	Black Oxide
7.2 Nm	Number of Screws	4 ea
2.83 Nm	Angular Misalignment	3°
5.66 Nm	Parallel Misalignment	0.38 mm
11.32 Nm	Axial Motion	0.25 mm
0.33 Deg/Nm	Moment of Inertia	32.426 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
0.453500	UPC	634529211144
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.		
WARNING This product can experimental known to the State of California to ca	ose you to chemicals including Ethyl ause cancer, and Ethylene Thiourea	known to the State of California to
	2.83 Nm 5.66 Nm 11.32 Nm 0.33 Deg/Nm 6,000 RPM Yes Metric Hex Keys -40°F to 350°F (-40°C to 176°C) Ruland Manufacturing 0.453500 8483.60.8000 Torque ratings are at maximum mis Performance ratings are for guidance Torque ratings for the couplings are Under normal/typical conditions the beams. In some cases, especially w undersized, slippage on the shaft is technical support for more assistance WARNING This product can exp known to the State of California to c	2.83 NmAngular Misalignment5.66 NmParallel Misalignment11.32 NmAxial Motion0.33 Deg/NmMoment of Inertia6,000 RPMFull Bearing Support Required?YesTorque WrenchMetric Hex KeysMaterial Specification-40°F to 350°F (-40°C to 176°C)Finish SpecificationRuland ManufacturingCountry of Origin0.453500UPC8483.60.8000UNSPCTorque ratings are at maximum misalignment.Performance ratings are for guidance only. The user must determine suiTorque ratings for the couplings are based on the physical limitations/faiUnder normal/typical conditions the hubs are capable of holding up to thbeams. In some cases, especially when the smallest standard bores areundersized, slippage on the shaft is possible below the rated torque of th

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.