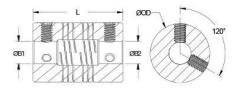




FSMR25-10-10-SS

Ruland FSMR25-10-10-SS, 10mm x 10mm Six Beam Coupling, Stainless Steel, Set Screw Style, 25.4mm OD, 38.1mm Length





Description

Ruland FSMR25-10-10-SS is a set screw style six beam coupling with 10mm x 10mm bores, 25.4mm OD, and 38.1mm 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. FSMR25-10-10-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. FSMR25-10-10-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. FSMR25-10-10-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore Tolerar	Arrow18.3 mmInce+0.025 mm / -0.000 mmded Shaft Tolerance+0.000 mm / -0.013 mmrialAlloy SteelshBlack OxideScrews4 easalignment3°alignment0.38 mm
Bore Tolerar Recommend Screw Mater Screw Finish Number of S Angular Misa Parallel Misa	ince+0.025 mm / -0.000 mmded Shaft Tolerance+0.000 mm / -0.013 mmrialAlloy SteelinBlack OxideScrews4 easalignment3°alignment0.38 mm
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Angular Misa Parallel Misa	salignment 3° alignment 0.38 mm
Parallel Misa	alignment 0.38 mm
Axial Motion	0.25 mm
	U.23 IIIII
Moment of Ir	Inertia 11.293 x10 ⁻⁶ kg-m ²
Full Bearing	g Support Required? Yes
Torque Wrer	nch <u>TW:BT-1R-1/4-35.0</u>
Material Spe	ecification Type 303 Austenitic, Non-Magneti Bar
°C to 176°C) Finish Speci	ification Bright, No Plating
ng Country of C	Origin USA
UPC	634529046098
UNSPC	31163003
at maximum misalignment.	
s are for guidance only. The us	ser must determine suitability for a particular application.
al conditions the hubs are capa ses, especially when the small	e physical limitations/failure point of the machined beams. bable of holding up to the rated torque of the machined llest standard bores are used or where shafts are bow the rated torque of the machined beams. Please consul
of California to cause cancer, a	nemicals including Ethylene Thiourea and Nickel (metallic), and Ethylene Thiourea known to the State of California to for more information go to <u>www.P65Warnings.ca.gov</u> .
e r F C	on the shaft is possible belo more assistance. product can expose you to ch of California to cause cancer,

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 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 18.3 mm.