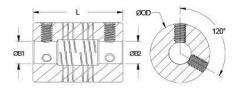




FSMR32-13-10-SS

Ruland FSMR32-13-10-SS, 13mm x 10mm Six Beam Coupling, Stainless Steel, Set Screw Style, 31.8mm OD, 44.5mm Length





Description

Ruland FSMR32-13-10-SS is a set screw style six beam coupling with 13mm x 10mm 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. FSMR32-13-10-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. FSMR32-13-10-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. FSMR32-13-10-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

n n n n lm eg/Nm PM lex Keys	Small Bore (B2) B2 Max Shaft Penetration Bore Tolerance Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification	Bar
n n n Im Im Im PM Hex Keys	Bore Tolerance Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification	+0.025 mm / -0.000 mm +0.000 mm / -0.013 mm Alloy Steel Black Oxide 4 ea 3° 0.38 mm 0.25 mm 32.426 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar
n n Im eg/Nm IPM	Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification	+0.000 mm / -0.013 mm Alloy Steel Black Oxide 4 ea 3° 0.38 mm 0.25 mm 32.426 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar
n n Im eg/Nm :PM Iex Keys	Screw Material Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification	Alloy Steel Black Oxide 4 ea 3° 0.38 mm 0.25 mm 32.426 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar
n n Im Im Ig/Nm IPM H <u>ex Keys</u>	Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification	Black Oxide 4 ea 3° 0.38 mm 0.25 mm 32.426 x10 ⁻⁶ kg-m ² Yes TW:BT-4C-3/8-64 Type 303 Austenitic, Non-Magnetic Bar
n n Im Im Ig/Nm IPM H <u>ex Keys</u>	Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification	4 ea 3° 0.38 mm 0.25 mm 32.426 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar
n n Im Im Ig/Nm IPM H <u>ex Keys</u>	Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification	3° 0.38 mm 0.25 mm 32.426 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar
n Im eg/Nm :PM <mark>dex Keys</mark>	Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification	0.38 mm 0.25 mm 32.426 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar
lm gg/Nm PM <u>Hex Keys</u>	Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification	0.25 mm 32.426 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar
eg/Nm IPM <u>Hex Keys</u>	Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification	32.426 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar
PM <u>Hex Keys</u>	Full Bearing Support Required? Torque Wrench Material Specification	Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar
<u>lex Keys</u>	Torque Wrench Material Specification	TW:BT-4C-3/8-64 Type 303 Austenitic, Non-Magnetic Bar
	Material Specification	Type 303 Austenitic, Non-Magnetic Bar
	-	Bar
350°F (-40°C to 176°C)		
	Finish Specification	Bright, No Plating
Manufacturing	Country of Origin	USA
00	UPC	634529211090
0.8000	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.		
MARNING 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> .		
	00 0.8000 ratings are at maximum mis- nance ratings are for guidand ratings for the couplings are normal/typical conditions the In some cases, especially v zed, slippage on the shaft is al support for more assistand RNING This product can exp to the State of California to control the state of the stat	UPC UNSPC ratings are at maximum misalignment. hance ratings are for guidance only. The user must determine suit ratings for the couplings are based on the physical limitations/fait hormal/typical conditions the hubs are capable of holding up to the In some cases, especially when the smallest standard bores are zed, slippage on the shaft is possible below the rated torque of the al support for more assistance. RNING This product can expose you to chemicals including Ethy to the State of California to cause cancer, and Ethylene Thiourea

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.