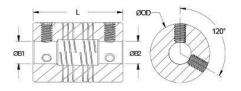




FSMR38-18-13-SS

Ruland FSMR38-18-13-SS, 18mm x 13mm Six Beam Coupling, Stainless Steel, Set Screw Style, 38.1mm OD, 57.2mm Length





Description

Ruland FSMR38-18-13-SS is a set screw style six beam coupling with 18mm x 13mm 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. FSMR38-18-13-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. FSMR38-18-13-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. FSMR38-18-13-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

mm mm mm nm Nm Nm Nm 8 Nm Deg/Nm	Small Bore (B2) B2 Max Shaft Penetration Bore Tolerance Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia	13 mm 27.3 mm +0.025 mm / -0.000 mm +0.000 mm / -0.013 mm Alloy Steel Black Oxide 4 ea 3° 0.76 mm 0.38 mm
mm mm nm Nm Nm Nm 8 Nm Deg/Nm	Bore Tolerance Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion	+0.025 mm / -0.000 mm +0.000 mm / -0.013 mm Alloy Steel Black Oxide 4 ea 3° 0.76 mm 0.38 mm
mm nm Nm Nm 8 Nm Deg/Nm	Recommended Shaft Tolerance Screw Material Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion	+0.000 mm / -0.013 mm Alloy Steel Black Oxide 4 ea 3° 0.76 mm 0.38 mm
nm Nm Nm 8 Nm Deg/Nm	Screw Material Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion	Alloy Steel Black Oxide 4 ea 3° 0.76 mm 0.38 mm
nm Nm Nm 8 Nm Deg/Nm	Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion	Black Oxide 4 ea 3° 0.76 mm 0.38 mm
Nm Nm 8 Nm Deg/Nm	Number of Screws Angular Misalignment Parallel Misalignment Axial Motion	4 ea 3° 0.76 mm 0.38 mm
Nm Nm 8 Nm Deg/Nm	Angular Misalignment Parallel Misalignment Axial Motion	3° 0.76 mm 0.38 mm
Nm 8 Nm Deg/Nm	Parallel Misalignment Axial Motion	0.76 mm 0.38 mm
8 Nm Deg/Nm	Axial Motion	0.38 mm
Deg/Nm		
	Momont of Inortia	0 0
0 RPM		83.407 x10 ⁻⁶ kg-m ²
• • • • • • • •	Full Bearing Support Required?	Yes
	Torque Wrench	TW:BT-4C-3/8-64
<u>ic Hex Keys</u>	Material Specification	Type 303 Austenitic, Non-Magnetic Bar
F to 350°F (-40°C to 176°C)	Finish Specification	Bright, No Plating
nd Manufacturing	Country of Origin	USA
1400	UPC	634529211342
3.60.8000	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.		
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> .		
F 1 3. 1 3. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	to 350°F (-40°C to 176°C) and Manufacturing 400 .60.8000 ue ratings are at maximum misa rmance ratings are for guidanc ue ratings for the couplings are r normal/typical conditions the as. In some cases, especially w rsized, slippage on the shaft is incal support for more assistance ARNING This product can expen n to the State of California to can be birth defects or other reproduce	To 350°F (-40°C to 176°C) Finish Specification ad Manufacturing Country of Origin 400 UPC 60.8000 UNSPC ue ratings are at maximum misalignment. rmance ratings are for guidance only. The user must determine sui ue ratings for the couplings are based on the physical limitations/fai r normal/typical conditions the hubs are capable of holding up to th us. In some cases, especially when the smallest standard bores are rsized, slippage on the shaft is possible below the rated torque of th ical support for more assistance. ARNING This product can expose you to chemicals including Ethyl n 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: 0.76 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.