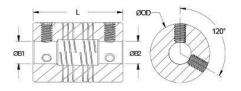




FSMR38-19-17-SS

Ruland FSMR38-19-17-SS, 19mm x 17mm Six Beam Coupling, Stainless Steel, Set Screw Style, 38.1mm OD, 57.2mm Length





Description

Ruland FSMR38-19-17-SS is a set screw style six beam coupling with 19mm x 17mm 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. FSMR38-19-17-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. FSMR38-19-17-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. FSMR38-19-17-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Im I Keys 50°F (-40°C to 176°C)	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 Full Bearing Support Required? Torque Wrench Material Specification	Bar Bright, No Plating
Im I <u>Keys</u> 50°F (-40°C to 176°C)	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° 0.76 mm 0.38 mm 83.407 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar Bright, No Plating
Im I Keys 50°F (-40°C to 176°C)	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 Finish Specification	+0.000 mm / -0.013 mm Alloy Steel Black Oxide 4 ea 3° 0.76 mm 0.38 mm 83.407 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar Bright, No Plating
Im I <u>Keys</u> 50°F (-40°C to 176°C)	Screw Material Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification Finish Specification	Alloy Steel Black Oxide 4 ea 3° 0.76 mm 0.38 mm 83.407 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar Bright, No Plating
Im 1 <u>Keys</u> 50°F (-40°C to 176°C)	Screw Finish Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification Finish Specification	Black Oxide 4 ea 3° 0.76 mm 0.38 mm 83.407 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar Bright, No Plating
Im 1 <u>Keys</u> 50°F (-40°C to 176°C)	Number of Screws Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification Finish Specification	4 ea 3° 0.76 mm 0.38 mm 83.407 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar Bright, No Plating
Im I <u>Keys</u> 50°F (-40°C to 176°C)	Angular Misalignment Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification Finish Specification	3° 0.76 mm 0.38 mm 83.407 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar Bright, No Plating
Im I <u>Keys</u> 50°F (-40°C to 176°C)	Parallel Misalignment Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification Finish Specification	0.76 mm 0.38 mm 83.407 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar Bright, No Plating
Im I <u>Keys</u> 50°F (-40°C to 176°C)	Axial Motion Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification Finish Specification	0.38 mm 83.407 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar Bright, No Plating
Im I <u>Keys</u> 50°F (-40°C to 176°C)	Moment of Inertia Full Bearing Support Required? Torque Wrench Material Specification Finish Specification	83.407 x10 ⁻⁶ kg-m ² Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar Bright, No Plating
1 <u>Keys</u> 50°F (-40°C to 176°C)	Full Bearing Support Required? Torque Wrench Material Specification Finish Specification	Yes <u>TW:BT-4C-3/8-64</u> Type 303 Austenitic, Non-Magnetic Bar Bright, No Plating
Keys 50°F (-40°C to 176°C)	Torque Wrench Material Specification Finish Specification	TW:BT-4C-3/8-64 Type 303 Austenitic, Non-Magnetic Bar Bright, No Plating
Keys 50°F (-40°C to 176°C)	Material Specification Finish Specification	Type 303 Austenitic, Non-Magnetic Bar Bright, No Plating
50°F (-40°C to 176°C)	Finish Specification	Bar Bright, No Plating
· /	-	
nufacturing	Country of Ostalia	
	Country of Origin	USA
	UPC	634529211397
000	UNSPC	31163003
ngs are at maximum misa	alignment.	
ce ratings are for guidance	e only. The user must determine su	itability 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.		
A 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 <u>www.P65Warnings.ca.gov</u> .		
	ngs are at maximum misi ce ratings are for guidance ngs for the couplings are nal/typical conditions the some cases, especially w , slippage on the shaft is upport for more assistance NG This product can exp ne State of California to c defects or other reprodu	ngs are at maximum misalignment. ce ratings are for guidance only. The user must determine sungs for the couplings are based on the physical limitations/fa nal/typical conditions the hubs are capable of holding up to the some cases, especially when the smallest standard bores are slippage on the shaft is possible below the rated torque of the upport for more assistance. NG This product can expose you to chemicals including Ethypene State of California to cause cancer, and Ethylene Thioure

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.