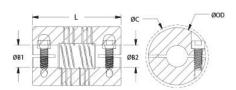




FCMR16-6-6-A

Ruland FCMR16-6-6-A, 6mm x 6mm Six Beam Coupling, Aluminum, Clamp Style, 15.9mm OD, 25.4mm Length





Description

Ruland FCMR16-6-6-A is a clamp style six beam coupling with 6mm x 6mm bores, 15.9mm OD, and 25.4mm 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. FCMR16-6-6-A is zero-backlash and has a balanced design for reduced vibration at high speeds of up to 6,000 RPM. Ruland supplies this spiral coupling with Nypatch® anti-vibration hardware that allows for even seating of the screw, repeated screw installations, prevents galling, and maintains high holding power. All hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. FCMR16-6-6-A is made from 7075 aluminum for lightweight and low inertia. It is machined from bar stock that is sourced exclusively from North American mills and RoHS3 and REACH compliant. FCMR16-6-6-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Temperature -40°F to 225°F (-40°C to 107°C) Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.023100 UPC 634529007372 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine 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 of technical support for more assistance.				
Outer Diameter (OD) 15.9 mm Bore Tolerance +0.025 mm / -0.000 mm Length (L) 25.4 mm Clearance Diameter (C) MAX 20.22 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Cap Screw M2.5 Screw Material Alloy Steel Hex Wrench Size 2.0 mm Screw Finish Black Oxide Seating Torque 1.21 Nm Number of Screws 2 ea Dynamic Torque Reversing 0.37 Nm Angular Misalignment 3° Dynamic Torque Non-Reversing 0.74 Nm Anial Motion 0.13 mm Torsional Stiffness 3.21 Deg/Nm Moment of Inertia 0.380 x10° kg-m² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys Material Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.023100 UPC 634529007372 Tariff Code <th>Bore (B1)</th> <th>6 mm</th> <th>Small Bore (B2)</th> <th>6 mm</th>	Bore (B1)	6 mm	Small Bore (B2)	6 mm
Length (L) 25.4 mm Clearance Diameter (C) MAX 20.22 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Cap Screw M2.5 Screw Material Alloy Steel Hex Wrench Size 2.0 mm Screw Finish Black Oxide Seating Torque 1.21 Nm Number of Screws 2 ea Dynamic Torque Reversing 0.37 Nm Angular Misalignment 3° Dynamic Torque Non-Reversing 0.74 Nm Axial Motion 0.13 mm Torsional Stiffness 3.21 Deg/Nm Moment of Inertia 0.380 x10° kg-m² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW.BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys Material Specification Bright, No Plating Manufacturer -40°F to 225°F (-40°C to 107°C) Finish Specification Bright, No Plating Meight (lbs) 0.023100 UPC 634529007372 Tariff Code 8483.60.8000 UNSPC 31163003 Note 2 <th>B1 Max Shaft Penetration</th> <th>12.3 mm</th> <th>B2 Max Shaft Penetration</th> <th>12.3 mm</th>	B1 Max Shaft Penetration	12.3 mm	B2 Max Shaft Penetration	12.3 mm
Recommended Shaft Tolerance +0.000 mm / -0.013 mm Cap Screw M2.5 Screw Material Alloy Steel Hex Wrench Size 2.0 mm Screw Finish Black Oxide Seating Torque 1.21 Nm Number of Screws 2 ea Dynamic Torque Reversing 0.37 Nm Angular Misalignment 3° Dynamic Torque Non-Reversing 0.74 Nm Parallel Misalignment 0.20 mm Static Torque 1.47 Nm Axial Motion 0.13 mm Torsional Stiffness 3.21 Deg/Nm Moment of Inertia 0.380 x10 ⁻⁶ kg-m ² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys Material Specification 7075-T651 Extruded and Dra Aluminum Bar Temperature -40°F to 225°F (-40°C to 107°C) Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.023100 UPC 634529007372 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine be under sized, slippage on the shaft is possible below the rated torque of the machine 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. 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. 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. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rate	Outer Diameter (OD)	15.9 mm	Bore Tolerance	+0.025 mm / -0.000 mm
Screw Material Alloy Steel Hex Wrench Size 2.0 mm Screw Finish Black Oxide Seating Torque 1.21 Nm Number of Screws 2 ea Dynamic Torque Reversing 0.37 Nm Angular Misalignment 3° Dynamic Torque Non-Reversing 0.74 Nm Parallel Misalignment 0.20 mm Static Torque 1.47 Nm Axial Motion 0.13 mm Torsional Stiffness 3.21 Deg/Nm Moment of Inertia 0.380 x10 6 kg-m² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys Material Specification 7075-T661 Extruded and Dr. Aluminum Bar Temperature -40°F to 225°F (-40°C to 107°C) Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.023100 UPC 634529007372 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined be under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined be under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined be under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined be under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined be 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 of the chinical support for more assistance. Prop 65	Length (L)	25.4 mm	Clearance Diameter (C) MAX	20.22 mm
Screw Finish Black Oxide Seating Torque 1.21 Nm	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Cap Screw	M2.5
Number of Screws 2 ea Dynamic Torque Reversing 0.37 Nm Angular Misalignment 3° Dynamic Torque Non-Reversing 0.74 Nm Parallel Misalignment 0.20 mm Static Torque 1.47 Nm Axial Motion 0.13 mm Torsional Stiffness 3.21 Deg/Nm Moment of Inertia 0.380 x10⁻⁶ kg-m² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys Material Specification 7075-T651 Extruded and Dr. Aluminum Bar Temperature -40˚೯ to 225˚೯ (-40˚ℂ to 107˚ℂ) Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.023100 UPC 634529007372 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machine 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 machine 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 machine beams. Please of technical support for more assistance. Prop 65	Screw Material	Alloy Steel	Hex Wrench Size	2.0 mm
Angular Misalignment 3° Dynamic Torque Non-Reversing 0.74 Nm Parallel Misalignment 0.20 mm Static Torque 1.47 Nm Axial Motion 0.13 mm Torsional Stiffness 3.21 Deg/Nm Moment of Inertia 0.380 x10 ⁻⁶ kg-m ² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys Material Specification 7075-T651 Extruded and Dra Aluminum Bar Temperature -40°F to 225°F (-40°C to 107°C) Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.023100 UPC 634529007372 Tariff Code 848.3.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machine 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 machine 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 machine 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 machine beams. Please of technical support for more assistance. Prop 65	Screw Finish	Black Oxide	Seating Torque	1.21 Nm
Parallel Misalignment 0.20 mm Static Torque 1.47 Nm Axial Motion 0.13 mm Torsional Stiffness 3.21 Deg/Nm Moment of Inertia 0.380 x10-6 kg-m² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench Metric Hex Keys Material Specification To75-T651 Extruded and Dradluminum Bar Temperature -40°F to 225°F (-40°C to 107°C) Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.023100 UPC 634529007372 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine 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 of technical support for more assistance. Prop 65 MARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Number of Screws	2 ea	Dynamic Torque Reversing	0.37 Nm
Axial Motion O.13 mm Torsional Stiffness 3.21 Deg/Nm Moment of Inertia O.380 x10 ⁻⁶ kg-m ² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys Material Specification Tor5-T651 Extruded and Dradluminum Bar Temperature -40°F to 225°F (-40°C to 107°C) Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) O.023100 UPC 634529007372 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be 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 of technical support for more assistance. Prop 65 MARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Angular Misalignment	3°	Dynamic Torque Non-Reversing	0.74 Nm
Moment of Inertia 0.380 x10 ⁻⁶ kg-m ² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys Material Specification 7075-T651 Extruded and Dradluminum Bar Temperature -40°F to 225°F (-40°C to 107°C) Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.023100 UPC 634529007372 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine 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 of technical support for more assistance. Prop 65 MARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Parallel Misalignment	0.20 mm	Static Torque	1.47 Nm
Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Material Specification 7075-T651 Extruded and Dradluminum Bar Temperature -40°F to 225°F (-40°C to 107°C) Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.023100 UPC 634529007372 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be 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 of technical support for more assistance. Prop 65 AWARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Axial Motion	0.13 mm	Torsional Stiffness	3.21 Deg/Nm
Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys Material Specification Tor5-T651 Extruded and Dra Aluminum Bar Temperature -40°F to 225°F (-40°C to 107°C) Finish Specification Bright, No Plating Weight (lbs) D.023100 UPC G34529007372 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine 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 of technical support for more assistance. Prop 65 AWARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Moment of Inertia	0.380 x10 ⁻⁶ kg-m ²	Maximum Speed	6,000 RPM
Recommended Hex Key Metric Hex Keys Material Specification 7075-T651 Extruded and Dra Aluminum Bar Temperature -40°F to 225°F (-40°C to 107°C) Finish Specification Bright, No Plating Weight (lbs) 0.023100 UPC 634529007372 Tariff Code 8483.60.8000 UNSPC 31163003 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applical on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined be undersized, slippage on the shaft is possible below the rated torque of the machined be technical support for more assistance. Prop 65 MARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Full Bearing Support Required?	Yes	Zero-Backlash?	Yes
Temperature -40°F to 225°F (-40°C to 107°C) Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.023100 UPC 634529007372 Tariff Code 8483.60.8000 UNSPC 31163003 Torque ratings are at maximum misalignment. Note 1 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be 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 of technical support for more assistance. Prop 65 WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Balanced Design	Yes	Torque Wrench	TW:BT-1R-1/4-10.7
ManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.023100UPC634529007372Tariff Code8483.60.8000UNSPC31163003Note 1Torque ratings are at maximum misalignment.Note 2Performance ratings are for guidance only. The user must determine suitability for a particular applicaNote 3Torque ratings for the couplings are based on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine 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 of technical support for more assistance.Prop 65▲WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Recommended Hex Key	Metric Hex Keys	Material Specification	7075-T651 Extruded and Drawn Aluminum Bar
Weight (lbs) 0.023100 UPC 634529007372 Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine 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 of technical support for more assistance. Prop 65 ⚠WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Temperature	-40°F to 225°F (-40°C to 107°C)	Finish Specification	Bright, No Plating
Tariff Code 8483.60.8000 UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine 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 of technical support for more assistance. Prop 65 WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Manufacturer	Ruland Manufacturing	Country of Origin	USA
Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular applica Torque ratings for the couplings are based on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine 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 of technical support for more assistance. Prop 65 MARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Weight (lbs)	0.023100	UPC	634529007372
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	Prop 65	· · · · · · · · · · · · · · · · · · ·		

Installation Instructions

- Align the bores of the FCMR16-6-6-A six beam coupling on the shafts that are to be joined and determine if the misalignment parameters are within the limits of the coupling. (*Angular Misialignment*: 3°, *Parallel Misalignment*: 0.20 mm, *Axial Motion*: 0.13 mm)
- 2. Fully tighten the M2.5 screw on one hub to the recommended seating torque of 1.21 Nm using a 2.0 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.
- 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 12.3 mm.