MDCS33-16-14-A

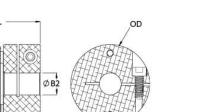
Ruland MDCS33-16-14-A, 16mm x 14mm Single Disc Coupling, Aluminum, Clamp Style, 33.3mm OD, 33.3mm Length

Description

Ruland MDCS33-16-14-A is a clamp single disc coupling with 16mm x 14mm bores, 33.3mm OD, and 33.3mm length. It is zero-backlash and has a balanced design for reduced vibration at high speeds. The single disc design is comprised of two anodized aluminum hubs and two sets of thin stainless steel disc springs which can accommodate angular misalignment and axial motion, however does not allow for any parallel misalignment. MDCS33-16-14-A is lightweight and has low inertia making it well suited for applications with speeds up to 10,000 RPM. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. Ruland manufactures MDCS33-16-14-A to be torisionally rigid and an excellent fit for precise positioning stepper servo applications commonly found in semiconductor, solar, printing, machine tool, and test and measurement systems. It is machined from solid bar stock that is sourced exclusively from North American mills and RoHS3 and REACH compliant. MDCS33-16-14-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product	Specifications
Dama (D4)	

B1 Max Shaft Penetration 15.0 mm B2 Max Shaft Penetration 16.1 mm Outer Diameter (OD) 33.3 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 33.3 mm Hub Width (LH) 15.00 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M3 Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 2.83 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 5.65 Nm Parallel Misalignment 0.00 mm Static Torque 11.3 Nm Axial Motion 0.20 mm Torsional Stiffness 35.4 Nm/Deg Moment of Inertia 9.406 x 10° kg-m² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless Steel Manufacturer Ruland Manufacturing </th <th>Product Specifications</th> <th></th> <th></th> <th></th>	Product Specifications					
Outer Diameter (OD) 33.3 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 33.3 mm Hub Width (LH) 15.00 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M3 Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Marerial Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 2.83 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 5.65 Nm Parallel Misalignment 0.00 mm Static Torque 11.3 Nm Axial Motion 0.20 mm Torsional Stiffness 35.4 Nm/Deg Moment of Inertia 9.406 x 10 ⁻⁶ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Require? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW/BT-tR-t/4-18.3 Recommended Hex Key Material Specification Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Statinless Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8625 Typ II, Class 2 and ASTM B580 Type E Black Anodize	Bore (B1)	16 mm	Small Bore (B2)	14 mm		
Length (L) 33.3 mm Hub Width (LH) 15.00 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M3 Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 2.63 Nm Angular Misalignment 1.0° Dynamic Torque Reversing 5.65 Nm Parallel Misalignment 0.00 mm Static Torque 11.3 Nm Axial Motion 0.20 mm Torsional Stiffness 35.4 Nm/Deg Moment of Inertia 9.406 x 10 ⁶ kg-m ² Maximum Speed 10.000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Matric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8625 Typ II, Class 2 and ASTM B580 Type E Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA <td>B1 Max Shaft Penetration</td> <td>15.0 mm</td> <td>B2 Max Shaft Penetration</td> <td>16.1 mm</td>	B1 Max Shaft Penetration	15.0 mm	B2 Max Shaft Penetration	16.1 mm		
Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M3 Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 2.83 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 5.65 Nm Parallel Misalignment 0.00 mm Static Torque 11.3 Nm Axial Motion 0.20 mm Torsional Stiffness 35.4 Nm/Deg Moment of Inertia 9.406 x 10.6 kg-m² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW-BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Material Specification Ubics: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8625 Typ II, Class 2 and ASTM B580 Type E Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.124900 UPC 634529085158	Outer Diameter (OD)	33.3 mm	Bore Tolerance	+0.03 mm / -0.00 mm		
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Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 2.83 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 5.65 Nm Parallel Misalignment 0.00 mm Static Torque 11.3 Nm Axial Motion 0.20 mm Torsional Stiffness 35.4 Nm/Deg Moment of Inertia 9.406 x 10 ⁻⁶ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-tR-t1/4-18.3 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize Maufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.124900 UPC 634529085158 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stailess steel hub	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M3		
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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>.

Installation Instructions

- Align the bores of the MDCS33-16-14-A single disc coupling on the shafts that are to be joined and determine if the misalignment parameters are within the limits of the coupling. (*Angular Misialignment:* 1.0°, *Parallel Misalignment:* 0.00 mm, *Axial Motion:* 0.20 mm)
- 2. Fully tighten the M3 screw on the first hub to the recommended seating torque of 2.1 Nm using a 2.5 mm hex torque wrench.
- 3. Before tightening the screw on the second hub, rotate the coupling by hand to allow it to reach its free length.
- Tighten the screw 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 15.0 mm for bore 1 and 16.1 mm for bore 2.