MDCS51-24-22-A

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Ruland MDCS51-24-22-A, 24mm x 22mm Single Disc Coupling, Aluminum, Clamp Style, 50.8mm OD, 46.1mm Length

Description

Ruland MDCS51-24-22-A is a clamp single disc coupling with 24mm x 22mm bores, 50.8mm OD, and 46.1mm 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. MDCS51-24-22-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 MDCS51-24-22-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. MDCS51-24-22-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product	Specifications
David (D4)	

Disc Springs: Type 302 Stainlet SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8625 II, Class 2 and ASTM B580 Type Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.414000UPC634529152980Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 2Torque ratings are at maximum misalignment.Note 3Note 3Performance ratings are for guidance only. The user must determine suitability for a particular application normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In so	Product Specifications					
Outer Diameter (OD) 50.8 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 46.1 mm Hub Width (LH) 20.55 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M5 Screw Material Alloy Steel Hex Wrench Size 4.0 mm Screw Material Alloy Steel Hex Wrench Size 4.0 mm Screw Material Iloy Steel Hex Wrench Size 4.0 mm Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 9.80 Nm Parallel Misalignment 0.00 mm Static Torque 39.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.245 x 10 ⁵ kg-m ² Maximum Speed 10.000 RPM Full Bearing Support Required? Yes Torque Wrench TW:B1-4C-3/8-86 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Ba Disc Springs: Type 302 Stainles Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Spe	Bore (B1)	24 mm	Small Bore (B2)	22 mm		
Length (L) 46.1 mm Hub Width (LH) 20.55 mm Recommended Shaft Tolerance +0.000 mm /-0.013 mm Forged Clamp Screw M5 Screw Material Alloy Steel Hex Wrench Size 4.0 mm Screw Finish Black Oxide Seating Torque 9.5 Nm Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 19.80 Nm Parallel Misalignment 0.00 mm Static Torque 39.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.245 x 10 ⁵ kg-m² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW-BT-4C-3/8-86 Recommended Hex Key Metric Hex Keys Material Specification Sulfuric Anodized MIL-A-8625 Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8625 Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.414000 UPC <td< td=""><td>B1 Max Shaft Penetration</td><td>22.2 mm</td><td>B2 Max Shaft Penetration</td><td>22.2 mm</td></td<>	B1 Max Shaft Penetration	22.2 mm	B2 Max Shaft Penetration	22.2 mm		
Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M5 Screw Material Alloy Steel Hex Wrench Size 4.0 mm Screw Finish Black Oxide Seating Torque 9.5 Nm Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 19.80 Nm Parallel Misalignment 0.00 mm Static Torque 39.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.245 x 10°5 kg-m² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Material Specification Hubs: 2024-1351 Aluminum Ba Disc Springs: Type 302 Stainle: Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8625 TIL, Class 2 and ASTM B580 Type Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.414000 UPC 634529152980 Note 1 Stainless steel	Outer Diameter (OD)	50.8 mm	Bore Tolerance	+0.03 mm / -0.00 mm		
Screw Material Alloy Steel Hex Wrench Size 4.0 mm Screw Finish Black Oxide Seating Torque 9.5 Nm Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 19.80 Nm Parallel Misalignment 0.00 mm Static Torque 39.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.245 x 10 ⁻⁵ kg-m ² Maxium Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW/BT-4C-3/8-86 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Ba Disc Springs: Type 302 Stainles Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Suffuric Anodized MIL-A-6625 II, Class 2 and ASTM B580 Typ Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.414000 UPC 634529152980 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 3 Note 2 Torque ratings are at maximum misalignment.	Length (L)	46.1 mm	Hub Width (LH)	20.55 mm		
Screw Finish Black Oxide Seating Torque 9.5 Nm Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 19.80 Nm Parallel Misalignment 0.00 mm Stati Torque 39.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.245 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-4C-3/8-86 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Ba Disc Springs: Type 302 Stainles Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8625 TI, Class 2 and ASTM B580 Type Black Anodize Maunfacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.414000 UPC 634529152980 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are avail	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M5		
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, 24mm x 22mm Single Disc Coupling, Alu 46.1mm Length







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 MDCS51-24-22-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:* 0.32 mm)
- 2. Fully tighten the M5 screw on the first hub to the recommended seating torque of 9.5 Nm using a 4.0 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 22.2 mm.