MDCS51-24-17-A

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Ruland MDCS51-24-17-A, 24mm x 17mm Single Disc Coupling, Aluminum, Clamp Style, 50.8mm OD, 46.1mm Length

Description

Ruland MDCS51-24-17-A is a clamp single disc coupling with 24mm x 17mm 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. MDCS51-24-17-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 MDCS51-24-17-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. MDCS51-24-17-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product	Specifications

Disc Springs: Type 302 Stainless SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8625 Ty II, Class 2 and ASTM B580 Type Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.429700UPC634529152959Tariff 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 som	r roudet opcomeations					
Outer Diameter (OD) 50.8 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 46.1 mm Hub Width (LH) 20.6 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 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 7.325 x 10 ⁵ kg-m ² Maximum Speed 10.000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Bar Disc Springs: Type 302 Stailes: Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8625 T: II, Class 2 and ASTM B580 Type Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Meitig Libs) 0.4297	Bore (B1)	24 mm	Small Bore (B2)	17 mm		
Length (L) 46.1 mm Hub Width (LH) 20.6 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 Reversing 9.80 Nm Parallel Misalignment 0.00 mm Static Torque 38.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.325 x 10 ⁻⁵ 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 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 Tr II, Class 2 and ASTM B580 Type Black Anodize Manufacturier Ruland Manufacturing Country of Origin USA	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 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 7.325 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 Bultric Acodized MIL-A-8625 Tr II, Class 2 and ASTM B580 Type Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.429700 UPC 634529152959 Tariff Code 8483.60.8000 UNSPC 31163008 <td>Outer Diameter (OD)</td> <td>50.8 mm</td> <td>Bore Tolerance</td> <td>+0.03 mm / -0.00 mm</td>	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 7.325 x 10 ⁻⁵ 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: 2024-1351 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 Tr II, Class 2 and ASTM B580 Type Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.429700 UPC 634529152959 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1	Length (L)	46.1 mm	Hub Width (LH)	20.6 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 7.325 x 10 ⁵ 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 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 T II, Class 2 and ASTM B580 Type Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.429700 UPC 634529152959 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are a	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M5		
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 7.325 x 10 ⁻⁵ 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 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 Tr II, Class 2 and ASTM B580 Type Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.429700 UPC 634529152959 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 3 Note 2 Torque ratings are at max	Screw Material	Alloy Steel	Hex Wrench Size	4.0 mm		
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Full Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum Bar Disc Springs: Type 302 Stainless SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8625 T II, Class 2 and ASTM B580 Type Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.429700UPC634529152959Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 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 som cases, especially when the smallest standard bores are used or where shafts are undersized, slippage or shaft is possible below the rated torque of the disc springs. In som cases, especially when the smallest standard bores are used or where shafts are undersized, slippage or shaft is possible below the rated torque of the disc springs. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more	Axial Motion	0.32 mm	Torsional Stiffness	98.0 Nm/Deg		
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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 MDCS51-24-17-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.