MDCS51-24-15-A

ØB2

Ruland MDCS51-24-15-A, 24mm x 15mm Single Disc Coupling, Aluminum, Clamp Style, 50.8mm OD, 46.1mm Length

OD

Description

Ruland MDCS51-24-15-A is a clamp single disc coupling with 24mm x 15mm 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. MDCS51-24-15-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 MDCS51-24-15-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. MDCS51-24-15-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications	Product	Spe	ecific	atio	ns
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Outer Diameter (OD)50.8 mmBore Tolerance+0.03 mm / -0.00 mmLength (L)46.1 mmHub Width (LH)20.55 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmForged Clamp ScrewM5Screw MaterialAlloy SteelHex Wrench Size4.0 mmScrew FinishBlack OxideSeating Torque9.5 NmNumber of Screws2 eaDynamic Torque Reversing9.90 NmAngular Misalignment1.0°Dynamic Torque Non-Reversing19.80 NmParallel Misalignment0.00 mmStatic Torque39.6 NmAxial Motion0.32 mmTorsional Stiffness98.0 Nm/DegMoment of Inertia7.342 x 10 ⁻⁵ kg-m ² Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTU/sET-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 Type BManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.435600UNSPC3163008Note 1Stainless steel hubs are available upon request.Ni163008Note 2Torque ratings are at maximum misalignment.Sulface.	r rouder opcomoations					
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 Black Oxide Seating Torque Reversing 9.90 Nm Angular Misalignment 1.0° Dynamic Torque Reversing 9.90 Nm Angular Misalignment 0.00 mm Static Torque 39.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.342 x 10 ⁵ kg-m² Maximum Speed 10,000 RPM Full Bearing Support Require? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW/BT-4C-3/8-86 Recommended Hex Key Matrial Elex 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 Black Anodize Manufacturer Rul	Bore (B1)	24 mm	· · · ·	15 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 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 7.342 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 Suffuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize Manufacturier Ruland Manufacturing Country of Origin USA <th>B1 Max Shaft Penetration</th> <td>22.2 mm</td> <td>B2 Max Shaft Penetration</td> <td>22.2 mm</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 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 7.342 x 10° 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 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 Suffwire Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.435600 UNSC 31163008 Note 1 Stainless steel hubs are availab	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 7.342 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 Type II, Class 2 and ASTM B580 Type B Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.435600 UPC 634529152935 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 <th>Length (L)</th> <td>46.1 mm</td> <td>Hub Width (LH)</td> <td>20.55 mm</td>	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 Static Torque 39.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.342 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 Type Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.435600 UPC 634529152935 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. <th>Recommended Shaft Tolerance</th> <td>+0.000 mm / -0.013 mm</td> <td>Forged Clamp Screw</td> <td>M5</td>	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M5		
Number of Screws2 eaDynamic Torque Reversing9.90 NmAngular Misalignment1.0°Dynamic Torque Non-Reversing19.80 NmParallel Misalignment0.00 mmStatic Torque39.6 NmAxial Motion0.32 mmTorsional Stiffness98.0 Nm/DegAmoment of Inertia7.342 x 10 ⁻⁵ kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysMaterial Specification bearing Support Required?Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish Specification bearing Support RequiredSulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.435600UPC634529152935Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 3Note 3Performance ratings are for guidance only. The user must determine suitability for a particular application. Note 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. 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 disc springs. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft i	Screw Material	Alloy Steel	Hex Wrench Size	4.0 mm		
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Parallel Misalignment0.00 mmStatic Torque39.6 NmAxial Motion0.32 mmTorsional Stiffness98.0 Nm/DegMoment of Inertia7.342 x 10 ⁵ kg-m ² Maximum Speed10,000 RPMFull 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 Type II, Class 2 and ASTM B580 Type B Black AnodizeMaunfacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.435600UPC634529152935Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 2Torque ratings are at maximum misalignment.Note 4Note 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In some cases, especially when the smallest standard bores are used or where 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	Number of Screws	2 ea	Dynamic Torque Reversing	9.90 Nm		
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II, Class 2 and ASTM B580 Type B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.435600UPC634529152935Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.IIII Corputer ratings are at maximum misalignment.Note 2Torque ratings are at maximum misalignment.IIII Corputer ratings are for guidance only. The user must determine suitability for a particular application.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular application.Note 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. 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 disc springs. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more	Recommended Hex Key	Metric Hex Keys	Material Specification	Disc Springs: Type 302 Stainless		
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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 MDCS51-24-15-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.