## MDCS51-15-14-A

Ruland MDCS51-15-14-A, 15mm x 14mm Single Disc Coupling, Aluminum, Clamp Style, 50.8mm OD, 46.1mm Length

15 mm

Description

Bore (B1)

Ruland MDCS51-15-14-A is a clamp single disc coupling with 15mm x 14mm 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. MDCS51-15-14-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 MDCS51-15-14-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. MDCS51-15-14-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Small Bore (B2)

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Product	Specific	cations

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 Inertia7.498 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 SpecificationSulfuric Anodized MIL-A-8625 TypeIn any Cover F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8625 TypeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.474100UPC634529085455Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are af maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular application.					
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   7.498 x 10 <sup>-5</sup> kg-m <sup>2</sup> 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 (lbs)   0.474100	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   9.90 Nm     Axial Motion   0.32 mm   Torsional Stiffness   98.0 Nm/Deg     Moment of Inertia   7.498 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   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   Suffwire Anodize     Manufacturer   Ruland Manufacturing   Country of Origin   USA     Weight (lbs)   0.474100   UPC   634529085455     Tariff Code   843.60.8000   UNSPC   31163008     Note 1   Stainless are of maximum misalignment.	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 Roversing 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 7.498 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 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) 0.474100 UPC 634529085455   Tariff Code 8483.60.8000 UNSPC 31163008   Note 1 Stainless steel hubs are available upon request. Torque ratings are at maximum misalignment.   Note 2 Torque ratings are at maxim	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/Deg       Axial Motion     0.32 mm     Torsional Stiffness     98.0 Nm/Deg       Moment of Inertia     7.498 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     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 (lbs)     0.474100     UPC     634529085455       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 mmStati Corque39.6 NmAxial Motion0.32 mmTorsional Stiffness98.0 Nm/DegAmoment of Inertia7.498 x 10 <sup>-5</sup> 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 SpecificationSulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.474100UPC634529085455Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Stainless steel hubs 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 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 shafts are undersized, slippage on the shaft is possible below the rated torque of the disc springs. In some cases, especially when the smallest	Screw Material	Alloy Steel	Hex Wrench Size	4.0 mm	
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   7.498 x 10 <sup>5</sup> kg-m <sup>2</sup> 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 (Ibs)   0.474100   UPC   634529085455     Tariff Code   8483.60.8000   UNSPC   31163008     Note 1   Stainless steel hubs are available upon request.   Note 3   Performance ratings are for guidance only. The user must determine suitability for a particular application.     Note 4   Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In some cases, especi	Screw Finish	Black Oxide	Seating Torque	9.5 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   7.498 x 10 <sup>5</sup> kg-m <sup>2</sup> 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     Maunfacturer   Ruland Manufacturing   Country of Origin   USA     Weight (lbs)   0.474100   UPC   634529085455     Tariff Code   8483.60.8000   UNSPC   31163008     Note 1   Stainless steel hubs are available upon request.   Note 2     Note 2   Torque ratings are for guidance only. The user must determine suitability for a particular application.     Note 4   Torque ratings or the couplings are based on the physical limitations/failure point of the disc springs. In some cases, especially when the smallest standard bores are usalable torprovide additional torque capacity in the shaft/thub c	Number of Screws	2 ea	Dynamic Torque Reversing	9.90 Nm	
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Moment of Inertia   7.498 x 10 <sup>-5</sup> kg-m <sup>2</sup> 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 (Ibs)   0.474100   UPC   634529085455     Tariff Code   8483.60.8000   UNSPC   31163008     Note 1   Stainless steel hubs are available upon request.   Note 3   Performance ratings are for guidance only. The user must determine suitability for a particular application.     Note 4   Torque 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. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more	Parallel Misalignment	0.00 mm	Static Torque	39.6 Nm	
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ØB2



14 mm





**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 MDCS51-15-14-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:* 0.32 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.