MDCS41-14-13-A

ØB2

Ruland MDCS41-14-13-A, 14mm x 13mm Single Disc Coupling, Aluminum, Clamp Style, 41.3mm OD, 39.7mm Length

OD

Description

Ruland MDCS41-14-13-A is a clamp single disc coupling with 14mm x 13mm bores, 41.3mm OD, and 39.7mm 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. MDCS41-14-13-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 MDCS41-14-13-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. MDCS41-14-13-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product	Specifications

Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M4 Screw Material Alloy Steel Hex Wrench Size 3.0 mm Screw Finish Black Oxide Seating Torque 4.6 Nm Number of Screws 2 ea Dynamic Torque Reversing 5.08 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 10.15 Nm Parallel Misalignment 0.00 mm Static Torque 20.3 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.822 x 10 ⁵ kg-m ² Maximus Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-41.0 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 Weight (lbs) 0.262600 UPC 634529151631 Stainless steel NUS are available upon request. Note 1 Stainless steel hubs are av	r roudet opcomeations					
Outer Diameter (OD) 41.3 mm Bore Tolerance +0.03 mm /-0.00 mm Length (L) 39.7 mm Hub Witcht (LH) 18.05 mm Recommended Shaft Tolerance +0.000 mm /-0.013 mm Forged Clamp Screw M4 Screw Material Alloy Steel Hex Wrench Size 3.0 mm Screw Material Black Oxide Seating Torque Reversing 5.08 Nm Number of Screws 2 ea Dynamic Torque Reversing 5.08 Nm Angular Misalignment 1.0° Dynamic Torque Reversing 10.15 Nm Parallel Misalignment 0.00 mm Static Torque 20.3 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.822 x 10 ⁵ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Require? Yes Torque Wrench TW/ET-1R-1/4-41.0 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	Bore (B1)	14 mm	Small Bore (B2)	13 mm		
Length (L) 39.7 mm Hub Width (LH) 18.05 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M4 Screw Material Alloy Steel Hex Wrench Size 3.0 mm Screw Finish Black Oxide Seating Torque 4.6 Nm Number of Screws 2 ea Dynamic Torque Reversing 5.08 Nm Angular Misalignment 1.0° Dynamic Torque Reversing 10.15 Nm Parallel Misalignment 0.00 mm Static Torque Reversing 10.15 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.822 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-1R-1/4-41.0 Recommended Hex Key Metric Hex Keys Material Specification Suffuric Anodized MIL-A-8625 Type II. Class 2 and ASTM B580 Type B Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.262600 UPC 634529151631 Tariff Code 8483.60.8000 UNSPC	B1 Max Shaft Penetration	19.2 mm	B2 Max Shaft Penetration	19.2 mm		
Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M4 Screw Material Alloy Steel Hex Wrench Size 3.0 mm Screw Finish Black Oxide Seating Torque 4.6 Nm Number of Screws 2 ea Dynamic Torque Reversing 5.08 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 10.15 Nm Parallel Misalignment 0.00 mm Static Torque 20.3 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.822 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-1R-1/4-41.0 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 Suffwria Andize Maufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.262600 UPC 634529151631 Tariff Code 8483.60.8000 <th>Outer Diameter (OD)</th> <td>41.3 mm</td> <td>Bore Tolerance</td> <td>+0.03 mm / -0.00 mm</td>	Outer Diameter (OD)	41.3 mm	Bore Tolerance	+0.03 mm / -0.00 mm		
Screw Material Alloy Steel Hex Wrench Size 3.0 mm Screw Finish Black Oxide Seating Torque 4.6 Nm Number of Screws 2 ea Dynamic Torque Reversing 5.08 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 10.15 Nm Parallel Misalignment 0.00 mm Static Torque 20.3 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.822 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-1R-1/4-41.0 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 Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.262600 UPC 634529151631 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1	Length (L)	39.7 mm	Hub Width (LH)	18.05 mm		
Screw Finish Black Oxide Seating Torque 4.6 Nm Number of Screws 2 ea Dynamic Torque Reversing 5.08 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 10.15 Nm Parallel Misalignment 0.00 mm Static Torque 20.3 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.822 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-1R-1/4-41.0 Recommended Hex Key Metric Hax 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 Black Anodized MIL-A-8625 Type Black Anodize Maufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.262600 UPC 634529151631 Tariff Code 8483.60.3000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request.	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M4		
Number of Screws 2 ea Dynamic Torque Reversing 5.08 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 10.15 Nm Parallel Misalignment 0.00 mm Stati Corque 20.3 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.822 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-1R-1/4-41.0 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) 0.262600 UPC 634529151631 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 3 Note 2 Torque ratings are a	Screw Material	Alloy Steel	Hex Wrench Size	3.0 mm		
Angular Misalignment 1.0° Dynamic Torque Non-Reversing 10.15 Nm Parallel Misalignment 0.00 mm Static Torque 20.3 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.822 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-1R-1/4-41.0 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 Type II, Class 2 and ASTM B580 Type B Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.262600 UPC 634529151631 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 3 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 o	Screw Finish	Black Oxide	Seating Torque	4.6 Nm		
Parallel Misalignment 0.00 mm Static Torque 20.3 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.822 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-1R-1/4-41.0 Recommended Hex Key Metric Hax 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) 0.262600 UPC 634529151631 Tariff Code 8433.60.8000 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. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In some cases, espe	Number of Screws	2 ea	Dynamic Torque Reversing	5.08 Nm		
Axial Motion0.25 mmTorsional Stiffness70.6 Nm/DegMoment of Inertia2.822 x 10 ⁵ kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-41.0Recommended 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 AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.262600UPC634529151631Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 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	Angular Misalignment	1.0°	Dynamic Torque Non-Reversing	10.15 Nm		
Moment of Inertia 2.822 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-1R-1/4-41.0 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) 0.262600 UPC 634529151631 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 1 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	20.3 Nm		
Full Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-41.0Recommended 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 AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.262600UPC634529151631Tariff 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.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	Axial Motion	0.25 mm	Torsional Stiffness	70.6 Nm/Deg		
Balanced DesignYesTorque WrenchTW:BT-1R-1/4-41.0Recommended 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 AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.262600UPC634529151631Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 2Torque 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 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	Moment of Inertia	2.822 x 10 ⁻⁵ kg-m ²	Maximum Speed	10,000 RPM		
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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 (lbs)0.262600UPC634529151631Tariff 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.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. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more	Balanced Design	Yes	Torque Wrench	<u>TW:BT-1R-1/4-41.0</u>		
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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 MDCS41-14-13-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:* 0.25 mm)
- 2. Fully tighten the M4 screw on the first hub to the recommended seating torque of 4.6 Nm using a 3.0 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 19.2 mm.