## MDCS41-13-11-A

Ruland MDCS41-13-11-A, 13mm x 11mm Single Disc Coupling, Aluminum, Clamp Style, 41.3mm OD, 39.7mm Length

OD

## Description

-LH

Ruland MDCS41-13-11-A is a clamp single disc coupling with 13mm x 11mm 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. MDCS41-13-11-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 MDCS41-13-11-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. MDCS41-13-11-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product	<b>Specifications</b>

Full Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-41.0Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum Ba Disc Springs: Type 302 Stainle SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8625 TII, Class 2 and ASTM B580 Type Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.268700UPC634529151617Tariff 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 applicationNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In soc	r roudet opcomeations					
Outer Diameter (OD)   41.3 mm   Bore Tolerance   +0.03 mm / -0.00 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 Material   Alloy Steel   Hex Wrench Size   3.0 mm     Screw Material   Oynamic 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   2.833 x 10 <sup>5</sup> kg-m <sup>2</sup> Maximum Speed   10.000 RPM     Full Bearing Support Required?   Yes   Torque Wrench   TW:BT-1R-1/4-41.0     Recommended Hex Key   Metric Hex Keys   Material Specification   Hubs: 2024-T351 Aluminum Ba Disc Springs: Type 302 Stainle     Temperature   -40°F to 200°F (-40°C to 93°C)   Finish Specification   Sulfuric Anodized MIL-A-8625 ' II, Class 2 and ASTM B580 Type 302 Stainle     Manufacturer	Bore (B1)	13 mm	Small Bore (B2)	11 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 20.3 Nm   Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg   Moment of Inertia 2.833 x 10 <sup>5</sup> kg-m² Maximum Speed 10,000 RPM   Full Bearing Support Required? Yes Torque Wrench TW_BT-1R-1/4-41.0   Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Ba   Prescommended Hex Key Metric Hex Keys Material Specification Still Circles 2 and ASTM B580 Type Black Anodize   Manufacturer Ruland Manufacturing Country of Origin USA   Weight (Ibs) 0.268700 UNSPC 31163008   Note 1 Stainless steel hubs are available	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 2.833 x 10 <sup>5</sup> kg-m² Maximum Speed 10.000 RPM   Full Bearing Support Require? Yes Zero-Backlash? Yes   Balanced Design Yes Torque Wrench TW:BT-4R-1/4-41.0   Recommended Hex Key Matric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Bac Disc Springs: Type 302 Stainle Steel   Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Hubs: 2024-T351 Aluminum Bac Disc Springs: Type 302 Stainle Steel   Weight (lbs) 0.268700 UPC 634529151617 II, Class 2 and ASTM B580 Type Black Anodize   Weight (lbs) 0.268700 UPC 63	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 2.833 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-1R-1/4-41.0   Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-1351 Aluminum Bac Disc Springs: Type 302 Stainle Steel   Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8625 II, Class 2 and ASTM B580 Type Black Anodize   Manufacturer Ruland Manufacturing Country of Origin USA   Weight (lbs) 0.268700 UPC 634529151617   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   2.833 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-1R-1/4-41.0     Recommended Hex Key   Metric Hex Keys   Material Specification   Hubs: 2024-T351 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 TI, Class 2 and ASTM B580 Type Black Anodize     Manufacturer   Ruland Manufacturing   Country of Origin   USA     Weight (Ibs)   0.268700   UPC   634529151617     Tariff Code   8483.60.8000   UNSPC   31163008     Note 1   Stainless steel hubs are avai	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   Static Torque   20.3 Nm     Axial Motion   0.25 mm   Torsional Stiffness   70.6 Nm/Deg     Moment of Inertia   2.833 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-1R-1/4-41.0     Recommended Hex Key   Metric Hex Keys   Material Specification   Hubs: 2024-T351 Aluminum Be Disc Springs: Type 302 Staine Steel     Temperature   -40°F to 200°F (-40°C to 93°C)   Finish Specification   Sulfuric Anodized MIL-A-8625 II, Class 2 and ASTM B580 Type Black Anodize     Manufacturer   Ruland Manufacturing   Country of Origin   USA     Weight (lbs)   0.268700   UPC   634529151617     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 m	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 2.83 x 10° kg-m² Maximum Speed 10,000 RPM   Full Bearing Support Required? Yes Zero-Backlash? Yes   Balanced Design Yes Torque Wrench TW:BT-TR-1/4-41.0   Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Be Disc Springs: Type 302 Stainle Steel   Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8625 II, Class 2 and ASTM B580 Typ Black Anodize   Manufacturer Ruland Manufacturing Country of Origin USA   Weight (lbs) 0.268700 UPC 634529151617   Tariff Code 8483.60.8000 UNSPC 31163008   Note 1 Stainless steel hubs are available upon request. Note 2 Torque 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 sc cases, especially when the smallest	Screw Finish	Black Oxide	Seating Torque	4.6 Nm		
Parallel Misalignment0.00 mmStatic Torque20.3 NmAxial Motion0.25 mmTorsional Stiffness70.6 Nm/DegMoment of Inertia2.833 x 10 <sup>5</sup> 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 Ba Disc Springs: Type 302 Stainle 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 (Ibs)0.268700UPC634529151617Tariff 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 applicationNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In sc cases, especially when the smallest standard bores are used or where shafts are undersized, slippage cases, especially when the smallest standard bores are used or where shafts are undersized, slippage cases, especially when the smallest standard bores are used or where shafts are undersized, slippage cases, especially when the smallest standard bores are used or where shafts are undersized, slippage cases, especially when the smallest standard bores are used or where shafts are undersized, slippage cases, especially when the smallest standard bores are used o	Number of Screws	2 ea	Dynamic Torque Reversing	5.08 Nm		
Axial Motion0.25 mmTorsional Stiffness70.6 Nm/DegMoment of Inertia2.833 x 10 <sup>5</sup> 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 Ba Disc Springs: Type 302 Stainle 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 (Ibs)0.268700UPC634529151617Tariff 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 applicationNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. Ur normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In sc cases, especially when the smallest standard bores are used or where shafts are undersized, slippage cases, especially when the smallest standard bores are used or where shafts are undersized, slippage cases, especially when the smallest standard bores are used or where shafts are undersized, slippage cases, especially when the smallest standard bores are used or where shafts are undersized, slippage cases, especially when the smallest standard bores are used or where shafts are undersized, slippage cases, especially when the smallest standard	Angular Misalignment	1.0°	Dynamic Torque Non-Reversing	10.15 Nm		
Moment of Inertia 2.833 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-1R-1/4-41.0   Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 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 T II, Class 2 and ASTM B580 Type Black Anodize   Manufacturer Ruland Manufacturing Country of Origin USA   Weight (lbs) 0.268700 UPC 634529151617   Tariff Code 8483.60.8000 UNSPC 31163008   Note 1 Stainless steel hubs are available upon request. Note 2   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 sc 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 sc 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 sc cases, especially when the smallest standard	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 Ba Disc Springs: Type 302 Stainle 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)0.268700UPC634529151617Tariff 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 applicationNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. Un normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In sc cases, especially when the smallest standard bores are used or where shafts are undersized, slippage o 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		Torsional Stiffness	70.6 Nm/Deg		
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Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum Ba Disc Springs: Type 302 Stainle 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)0.268700UPC634529151617Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 2Torque ratings are at maximum misalignment.Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. Ur normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In so cases, especially when the smallest standard bores are used or where shafts are undersized, slippage of 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	Full Bearing Support Required?	Yes	Zero-Backlash?	Yes		
Disc Springs: Type 302 Stainle 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)0.268700UPC634529151617Tariff 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 applicationNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. Un normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In sc 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	Balanced Design	Yes	Torque Wrench	<u>TW:BT-1R-1/4-41.0</u>		
II, Class 2 and ASTM B580 Type Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.268700UPC634529151617Tariff 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 applicationNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. Un normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In so cases, especially when the smallest standard bores are used or where shafts are undersized, slippage of 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	Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless Steel		
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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 MDCS41-13-11-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.