MDCS57-24-19-A

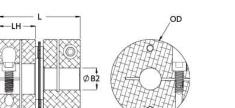
Ruland MDCS57-24-19-A, 24mm x 19mm Single Disc Coupling, Aluminum, Clamp Style, 57.2mm OD, 58.8mm Length

Description

Ruland MDCS57-24-19-A is a clamp single disc coupling with 24mm x 19mm bores, 57.2mm OD, and 58.8mm 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. MDCS57-24-19-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 MDCS57-24-19-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. MDCS57-24-19-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

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Full Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-140Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminu Disc Springs: Type 302 St. SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8 II, Class 2 and ASTM B580 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.712300UPC634529154137Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Torque ratings are for guidance only. The user must determine suitability for a particular applitNote 3Performance ratings are for guidance only. The user must determine suitability for a particular applitNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. cases, especially when the smallest standard bores are used or where shafts are undersized, slippe shaft is possible below the rated torque of the disc springs. cases, especially when the smallest standard bores are used or where shafts are undersized, slippe shaft is possible below the rated torque of the disc springs. Keyways are available to provide additic torque capacity in the shaft/hub connection when required. Please consult technical support for more	r rouder opcomeations							
Outer Diameter (OD) 57.2 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 58.8 mm Hub Width (LH) 26.67 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M6 Screw Kinish Black Oxide Seating Torque 16 Nm Number of Screws 2 ea Dynamic Torque Reversing 12.73 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 25.45 Nm Parallel Misalignment 0.00 mm Static Torque 50.9 Nm Axial Motion 0.38 mm Torsional Stiffness 113.0 Nm/Deg Moment of Inertia 1.503 x 10 ⁻⁴ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Torque Wrench TWBT-4C-3/8-140 Recommended Hex Key Metric Hex Keys Material Specification Nuls 2024-T351 Aluminu Disc Springs: Type 302 Stisteel Stiel Stiel Stiel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8 Maufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.712300 <td< th=""><th>Bore (B1)</th><th>24 mm</th><th>Small Bore (B2)</th><th>19 mm</th></td<>	Bore (B1)	24 mm	Small Bore (B2)	19 mm				
Length (L) 58.8 mm Hub Width (LH) 26.67 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M6 Screw Material Alloy Steel Hex Wrench Size 5.0 mm Screw Finish Black Oxide Seating Torque 16 Nm Number of Screws 2 ea Dynamic Torque Reversing 12.73 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 25.45 Nm Parallel Misalignment 0.00 mm Static Torque 05.9 Nm Axial Motion 0.38 mm Torsional Stiffness 113.0 Nm/Deg Moment of Inertia 1.503 x 10 ⁻⁴ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-4C-3/8-140 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-7351 Aluminu Disc Springs: Type 302 St Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Suffures Material Specification USA Weight (Ibs) 0.712300 UPC 634529154137 Tariff Code 4843.60.000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 2 Torque ratings are at maximum misalignment. Note 3 Performance ratings are for guidance only. The user must determine suitability for a particular applii Note 4 Torque ratings are for guidance only. The user must determine suitability for a particular applii Note 4 Torque ratings are to for digance only. The user must determine suitability for a particular applii Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. Cases, especially when the smallest standard bores are usealable top provide addiptication for more available bores are used or where shafts are undersized, slippy shaft is possible below the rated torque of the disc springs. Cases, especially when the smallest standard bores are usealable to provide addiptic torque capacity in the shaft/hub connection when required. Please consult technical support for more	B1 Max Shaft Penetration	27.6 mm	B2 Max Shaft Penetration	27.6 mm				
Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M6 Screw Material Alloy Steel Hex Wrench Size 5.0 mm Screw Finish Black Oxide Seating Torque 16 Nm Number of Screws 2 ea Dynamic Torque Reversing 12.73 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 25.45 Nm Parallel Misalignment 0.00 mm Static Torque 50.9 Nm Axial Motion 0.38 mm Torsional Stiffness 113.0 Nm/Deg Moment of Inertia 1.503 x 10r ⁴ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Require? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW/BT-4C-3/8-140 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminu Disc Springs: Type 302 Sts Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8 II, Class 2 and ASTM B580 Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.712300 UPC 634529154137 Tarr	Outer Diameter (OD)	57.2 mm	Bore Tolerance	+0.03 mm / -0.00 mm				
Screw Material Alloy Steel Hex Wrench Size 5.0 mm Screw Finish Black Oxide Seating Torque 16 Nm Number of Screws 2 ea Dynamic Torque Reversing 12.73 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 25.45 Nm Parallel Misalignment 0.00 mm Static Torque 50.9 Nm Axial Motion 0.38 mm Torsional Stiffness 113.0 Nm/Deg Moment of Inertia 1.503 x 10 ⁻⁴ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW/BT-4C-3/8-140 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminu Disc Springs: Type 302 St: Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification II, Class 2 and ASTIM B58/Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.712300 UPC 634529154137 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon	Length (L)	58.8 mm	Hub Width (LH)	26.67 mm				
Screw Finish Black Oxide Seating Torque 16 Nm Number of Screws 2 ea Dynamic Torque Reversing 12.73 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 25.45 Nm Parallel Misalignment 0.00 mm Static Torque 50.9 Nm Axial Motion 0.38 mm Torsional Stiffness 113.0 Nm/Deg Moment of Inertia 1.503 x 10 ⁻⁴ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-4C-3/8-140 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-1351 Aluminu Disc Springs: Type 302 St. Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8 II, Class 2 and ASTIN B58/ Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.712300 UPC 634529154137 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 3 Note 2 Torque ratings	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M6				
Number of Screws2 eaDynamic Torque Reversing12.73 NmAngular Misalignment1.0°Dynamic Torque Non-Reversing25.45 NmParallel Misalignment0.00 mmStatic Torque50.9 NmAxial Motion0.38 mmTorsional Stiffness113.0 Nm/DegMoment of Inertia1.503 x 10 ⁻⁴ kg-m ² Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-140Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminu Disc Springs: Type 302 St: SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8 II, Class 2 and ASTM B580 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.712300UPC634529154137Tariff 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 appliNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. cases, especially when the smallest standard bores are used or where shafts are undersized, slipg- shaft is possible below the rated torque of the disc springs. cases, especially when the smallest standard bores are used or where shafts are undersized, slipg- shaft is possible below the rated torque of the disc springs. torque capacity in the shaft/bub connection when re	Screw Material	Alloy Steel	Hex Wrench Size	5.0 mm				
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Weight (lbs)0.712300UPC634529154137Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular applieNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. cases, especially when the smallest standard bores are used or where shafts are undersized, slippa shaft is possible below the rated torque of the disc springs. Keyways are available to provide additic torque capacity in the shaft/hub connection when required. Please consult technical support for more	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				
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assistance.	d torque of the disc springs. In some shafts are undersized, slippage on the e available to provide additional							









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 MDCS57-24-19-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:* 0.38 mm)
- 2. Fully tighten the M6 screw on the first hub to the recommended seating torque of 16 Nm using a 5.0 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 27.6 mm.