MDCS57-24-20-A

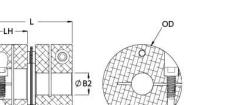
Ruland MDCS57-24-20-A, 24mm x 20mm Single Disc Coupling, Aluminum, Clamp Style, 57.2mm OD, 58.8mm Length

Description

Ruland MDCS57-24-20-A is a clamp single disc coupling with 24mm x 20mm 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. MDCS57-24-20-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 MDCS57-24-20-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. MDCS57-24-20-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

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Recommended Shaft Tolerance+0.000 mm / -0.013 mmForged Clamp ScrewM6Screw MaterialAlloy SteelHex Wrench Size5.0 mmScrew FinishBlack OxideSeating Torque16 NmNumber 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 Inertia1.501 x 10 ⁻⁴ kg-m ² Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchHubs: 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 E Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.707600UPC634529154144	r roddet opeeniedtions									
Outer Diameter (OD) 57.2 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 58.8 mm Hub Width (LH) 26.7 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 Material 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 1.501 x 10 ⁻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 Aluminum Bar, Disc Springs: Type 302 Stainless Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodize MIL-A-8625 Typ III, Class 2 and ASTM B580 Type E Black Anodize<	Bore (B1)	24 mm	Small Bore (B2)	20 mm						
Length (L) 58.8 mm Hub Width (LH) 26.7 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 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 1.501 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:8T-4C-3/8-140 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 E Black Anodize Manufacturier Ruland Manufacturing Country of Origin USA	B1 Max Shaft Penetration	27.6 mm	B2 Max Shaft Penetration	27.6 mm						
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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 1.501 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 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 Typ II, Class 2 and ASTIM B580 Type E Black Anodize Maufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.707600 UPC 634529154144 Tariff Code 8433.60.8000 UNSPC 31163008 Note 1 Stainless steel hu	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M6						
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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 MDCS57-24-20-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.