MDCS57-22-22-A

ØB2

Ruland MDCS57-22-22-A, 22mm x 22mm Single Disc Coupling, Aluminum, Clamp Style, 57.2mm OD, 58.8mm Length

OD

Description

Ruland MDCS57-22-22-A is a clamp single disc coupling with 22mm x 22mm 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. MDCS57-22-22-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 MDCS57-22-22-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. MDCS57-22-22-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 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 1.502 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 Matric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Ba Disc Springs: Type 302 Stainles 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 (lbs) 0.713200 UPC 634529154076 <t< th=""><th>r roudet opcomoations</th><th></th><th></th><th></th></t<>	r roudet opcomoations					
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 Alloy Steel Hex Wrench Size 5.0 mm Screw Material 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 1.502 x 10 ⁻⁴ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Torque Wrench TW-BT-4C-3/8-140 Recommended Hex Key Matrici Hex Keys Material Specification Hubs: 2024-T351 Aluminum Ba Disc Springs: Type 302 Stainles: Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8625 TI, Class 2 and ASTM E580 Typ. Black Anod	Bore (B1)	22 mm	Small Bore (B2)	22 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 1.502 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 Matric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Ba Bilack Anodize Material Specification Stifturic Anodized MIL-A-8625 TIL (Case 2 and ASTM B580 Typ Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.713200 UPC	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 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 1.502 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 Matric Hax Keys Material Specification Hubs: 2024-1351 Aluminum Ba Disc Springs: Type 302 Stainles 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 (Ibs) 0.713200 UPC 634529154076 Tariff Code <td>Outer Diameter (OD)</td> <td>57.2 mm</td> <td>Bore Tolerance</td> <td>+0.03 mm / -0.00 mm</td>	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 1.502 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 Ba Disc Springs: Type 302 Stainles 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 (Ibs) 0.713200 UPC 634529154076 Tariff Code 8483.60.8000 UNSPC 31163008 Note 2 <	Length (L)	58.8 mm	Hub Width (LH)	26.7 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 1.502 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 Ba Disc Springs: Type 302 Stainles 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) 0.713200 UPC 634529154076 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are av	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 MDCS57-22-22-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.