MDCS57-28-18-A

Ruland MDCS57-28-18-A, 28mm x 18mm Single Disc Coupling, Aluminum, Clamp Style, 57.2mm OD, 58.8mm Length

OD

Description

Ruland MDCS57-28-18-A is a clamp single disc coupling with 28mm x 18mm 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. MDCS57-28-18-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 MDCS57-28-18-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. MDCS57-28-18-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product	Specifications
Bore (B1)	

Disc Springs: Type 302 S SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-fil, Class 2 and ASTM B56 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.695900UPC634529154267Tariff 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 applNote 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, slipp shaft is possible below the rated torque of the disc springs. Keyways are available to provide additi torque capacity in the shaft/hub connection when required. Please consult technical support for more	r rouder 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 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 10.000 RPM Axial Motion 0.38 mm Torsional Stiffness 113.0 Nm/Deg Moment of Inertia 1.485 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 Metric Hex Keys Material Specification Us fulruic Anodized MIL-A-4 It, Class 2 and ASTM B55 13.0 Nm/Deg Stele Stele Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-4 It, Class 2 and ASTM B55 Black Anodize Black Ano	Bore (B1)	28 mm	Small Bore (B2)	18 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 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 1.485 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 Sulfuric Anodized MIL-A-4 II, Class 2 and ASTM B56 Black Anodize Black Anodize Black Anodize Weight (Ibs) 0.695900 UPC 634529154267 Stainless steel hubs are available upon request. Note 2 Torque ratings are for gui	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 1.485 x 10 ⁻⁴ kg-m ² Maximus 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 Aluminu Disc Springs: Type 302 S Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodize MIL-A-4 II, Class 2 and ASTM B56 Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.695900 UPC 634529154267 Tariff C	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 1.485 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 Disc Springs: Type 302 S Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-4 II, Class 2 and ASTM B56 Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.695900 UPC 634529154267 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon	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 1.485 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 Siteel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-4 II, Class 2 and ASTM B56 Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.695900 UPC 634529154267 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are avaialable upon request.	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M6		
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 1.485 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 S Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-4 II, Class 2 and ASTM B56 Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.695900 UPC 634529154267 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 3 Note 2 Torque ratings are for guidance only. The user m	Screw Material	Alloy Steel	Hex Wrench Size	5.0 mm		
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Axial Motion0.38 mmTorsional Stiffness113.0 Nm/DegMoment of Inertia1.485 x 10 ⁴ kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-140Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminn Disc Springs: Type 302 S SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-4 II, Class 2 and ASTM B56 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.695900UPC634529154267Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 3Performance ratings are at maximum misalignment.Note 3Note 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs normal/typical conditions the hubs are used or where shafts are undersized, slipp shaft is possible below the rated torque of the disc springs normal/typical conditions the hubs are used or where shafts are undersized, slipp shaft is possible below the rated torque of the disc springs normal/typical conditions the hubs are used or where shafts are undersized, slipp shaft is possible below the rated torque of the disc springs normal/typical conditions the hubs are used or where shafts are undersized, slipp	Angular Misalignment	1.0°	Dynamic Torque Non-Reversing	25.45 Nm		
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assistance.	Note 4	Torque 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 assistance.				







ØB2



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 MDCS57-28-18-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.