## MDCS57-30-30-A

Ruland MDCS57-30-30-A, 30mm x 30mm Single Disc Coupling, Aluminum, Clamp Style, 57.2mm OD, 58.8mm Length

**Description** Ruland MDCS57-30-30-A is a clamp single disc coupling with 30mm x 30mm 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. MDCS57-30-30-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 MDCS57-30-30-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. MDCS57-30-30-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product	Specifications

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 Disc Springs: Type 302 Stai Steel   Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-86 II, Class 2 and ASTM B580 Black Anodize   Manufacturer Ruland Manufacturing Country of Origin USA   Weight (lbs) 0.611500 UPC 634529115558   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 applica Note 4   Note 4 Torque 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. Inormal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. Inormal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. Inormal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. Keyways are available to provide addition torque capacity in the shaft/hub connection when required. Please consult technical support for mo	r roudet 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 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 Non-Reversing   13.0 Nm/Deg     Moment of Inertia   1.423 x 10 <sup>-4</sup> kg-m <sup>2</sup> 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   Hubs: 2024-7351 Aluminum Disc Springs: Type 302 Stai Steel     Temperature   -40°F to 200°F (-40°C to 93°C)   Finish Specification   Sulfuric Anodized MIL-A86 II, Class 2 and ASTM ES80     Material Specification   UPC   634529115558   Stariless 36.8000   UNSPC	Bore (B1)	30 mm	Small Bore (B2)	30 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 50.9 Nm   Axial Motion 0.38 mm Torsional Stiffness 113.0 Nm/Deg   Moment of Inertia 1.423 x 10 <sup>-4</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-4C-3/8-140   Recommended Hex Key Metric Hex Keys Material Specification Sulfuric Anodized MIL-A-86   II, Class 2 and ASTM B5800 UPC 634529115558 Stailess 2 and ASTM B580   Maufacturer Ruland Manufacturing Country of Origin USA   Weight (Ibs) 0.611500 UPC 634529115558	B1 Max Shaft Penetration	26.7 mm	B2 Max Shaft Penetration	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 1.423 x 10 <sup>-4</sup> kg-m <sup>2</sup> Maximum Speed 10.000 RPM   Full Bearing Support Require? Yes Zero-Backlash? Yes   Balanced Design Yes Torque Wrench TV/BT-4C-3/8-140   Recommended Hex Key Metric:Hex Keys Material Specification Hubs: 2024-T351 Aluminum Disc Springs: Type 302 Stat Steel   Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-86 II, Class 2 and ASTM B580 Black Anodize   Meight (lbs) 0.611500 UPC 634529115558 Stateles   Tariff Code 8483.60.8000 UNSPC 31163008 Note 1	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 1.423 x 10 <sup>-4</sup> kg-m <sup>2</sup> 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 Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Disc Springs: Type 302 Statis Steel   Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification IUstric Anodized MIL-A-66 II, Class 2 and ASTM B580 Black Anodize   Manufacturer Ruland Manufacturing Country of Origin USA   Weight (Ibs) 0.611500 UPC 634529115558   Tariff Code 8483.60.8000 UNSPC 31163008   Note 1 Stainless	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   1.423 x 10 <sup>4</sup> kg-m²   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 Disc Springs: Type 302 Statis Steel     Temperature   -40°F to 200°F (-40°C to 93°C)   Finish Specification   Sulfuric Anodized MIL-A-86 II, Class 2 and ASTM B580 Black Anodize     Manufacturer   Ruland Manufacturing   Country of Origin   USA     Weight (lbs)   0.611500   UPC   634529115558     Tariff Code   8483.60.8000   UNSPC   31163008     Note 1   Stainless steel hubs are available upon re	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 Inertia1.423 x 10 <sup>-4</sup> kg-m <sup>2</sup> Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-140Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum Disc Springs: Type 302 Stai SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-86 II, Class 2 and ASTM B580 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.611500UPC634529115558Tariff 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 applictNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. r cases, especially when the smallest standard bores are usailable to provide additior torque capacity in the shaft/hub connection when required. Please consult technical support for more shaft is possible below the rated torque of the disc springs.	Screw Material	Alloy Steel	Hex Wrench Size	5.0 mm		
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 1.423 x 10 <sup>-4</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-4C-3/8-140   Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Disc Springs: Type 302 States   Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-86 II, Class 2 and ASTM B580 Black Anodize   Manufacturer Ruland Manufacturing Country of Origin USA   Weight (lbs) 0.611500 UPC 634529115558   Tariff Code 8483.60.8000 UNSPC 31163008   Note 1 Stainless steel hubs are available upon request. Note 2   Note 2 Torque ratings are for guidance only. The user must determine suitability for a particular applict.   Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. reases, especi	Screw Finish	Black Oxide	Seating Torque	16 Nm		
Parallel Misalignment0.00 mmStatic Torque50.9 NmAxial Motion0.38 mmTorsional Stiffness113.0 Nm/DegMoment of Inertia1.423 x 10 <sup>4</sup> 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 Aluminum Disc Springs: Type 302 Stai SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-86 II, Class 2 and ASTM B580 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.611500UPC634529115558Tariff 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 applicaNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In crases, especially when the smallest standard bores are used or where shafts are undersized, slippag shaft is possible below the rated torque of the disc springs. Keyways are available to provide addition torque capacity in the shaft/hub connection when required. Please consult technical support for more	Number of Screws	2 ea	Dynamic Torque Reversing	12.73 Nm		
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Moment of Inertia 1.423 x 10 <sup>-4</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-4C-3/8-140   Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Disc Springs: Type 302 Stai Steel   Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-86 II, Class 2 and ASTM B580 Black Anodize   Manufacturer Ruland Manufacturing Country of Origin USA   Weight (lbs) 0.611500 UPC 634529115558   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 applica Note 4   Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. Ir cases, especially when the smallest standard bores are used or where shafts are undersized, slippag shaft is possible below the rated torque of the disc springs. Keyways are available to provide additior torque capacity in the shaft/hub connection when required. Please consult technical support for more	Parallel Misalignment	0.00 mm	Static Torque	50.9 Nm		
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Disc Springs: Type 302 Stail SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-86 II, Class 2 and ASTM B580 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.611500UPC634529115558Tariff 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 applicaNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippag shaft is possible below the rated torque of the disc springs. Keyways are available to provide addition torque capacity in the shaft/hub connection when required. Please consult technical support for more	Balanced Design	Yes	Torque Wrench	TW:BT-4C-3/8-140		
II, Class 2 and ASTM B580 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.611500UPC634529115558Tariff 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 applications for the couplings are based on the physical limitations/failure point of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippage shaft is possible below the rated torque of the disc springs. Keyways are available to provide addition 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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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 MDCS57-30-30-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 26.7 mm.