## MDCS57-32-20-A

ØB2

Ruland MDCS57-32-20-A, 32mm x 20mm Single Disc Coupling, Aluminum, Clamp Style, 57.2mm OD, 58.8mm Length

OD

## Description

Ruland MDCS57-32-20-A is a clamp single disc coupling with 32mm 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. MDCS57-32-20-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 MDCS57-32-20-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. MDCS57-32-20-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product	Specifications
David (D4)	

B1 Max Shaft Penetration   26.7 mm   Bore Tolerance   40.03 mm / -0.00 mm     Outer Diameter (OD)   57.2 mm   Bore Tolerance   40.03 mm / -0.00 mm     Length (L)   58.8 mm   Hub Width (LH)   26.7 mm     Recommended Shaft Tolerance   40.000 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 Roversing   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   1.451 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   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 B     Maufacturer   Ruland Manufacturing   Country of Origin   USA	Product Specifications					
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   1.451 x 10 <sup>-4</sup> kg-m <sup>2</sup> Maximum Speed   10,000 RPM     Full Bearing Support Require?   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 Type B Black Anodize     Manufacturer   Ruland Manufacturing   Country of Origin   USA <th>Bore (B1)</th> <th>32 mm</th> <th>Small Bore (B2)</th> <th>20 mm</th>	Bore (B1)	32 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 Reversing 25.45 Nm Axial Motion 0.38 mm Torsional Stiffness 113.0 Nm/Deg Moment of Inertia 1.451 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 Bar, Disc Springs: Type 302 Stainless Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Suffurior Source MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Meight (lbs) 0.653200 UPC 634529208939 Tariff Code 8483.60.8000 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 application. Note 4 Torque ratings are for guidance only. The user must determine suitability for a particular application. Note 4 Torque ratings are for guidance only. The user must determine suitability for a particular application. Note 3 Performance ratings are for guidance only. The user must determine suitability for a particular application. Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on th shaft is possible below 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 th shaft is possible below the ra	B1 Max Shaft Penetration	26.7 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 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     1.451 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 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 B Black Anodize       Manufacturer     Ruland Manufacturing     Country of Origin     USA       Ma	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 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   1.451 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 Bar, Disc Springs: Type 302 Stainless Steel     Temperature   -40°F to 200°F (-40°C to 93°C)   Finish Specification   Suffuric Anodized MIL-A-8625 Type III, Class 2 and ASTM B580 Type B Black Anodize     Manufacturer   Ruland Manufacturing   Country of Origin   USA     Weight (Ibs)   0.653200   UPC   634529208393   Black Anodize     Note 1   Stainless steel hubs are available upon request.   Torque ratings	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     1.451 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 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 B Black Anodize       Manufacturer     Ruland Manufacturing     Country of Origin     USA       Weight (Ibs)     0.653200     UPC     634529208939       Tariff Code     8483.60.8000     UNSPC     31163008       Note 1     Stainless steel h	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 mmStat Torque50.9 NmAxial Motion0.38 mmTorsional Stiffness113.0 Nm/DegAxial Motion1.451 x 10° 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 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 BManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.653200UPC634529208939Tariff Code8483.60.8000UNSPC31163008Note 1Stainless are available upon request.Stainless are anaximum misalignment.Note 2Torque ratings are a maximum misalignment.Forque ratings are for guidance only. The user must determine suitability for a particular application.Note 4Torque 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. 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 th shaft	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   1.451 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   Matric 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 B Black Anodize     Manufacturer   Ruland Manufacturing   Country of Origin   USA     Weight (Ibs)   0.653200   UPC   634529208939     Tariff Code   8483.60.8000   UNSPC   31163008     Note 1   Stainless steel hubs are available upon request.   Note 3     Note 3   Performance ratings are for guidance only. The user must determine suitability for a particular application.     Note 4   Torque ratings for the couplings are based on the physical limitations/failure poin	Screw Finish	Black Oxide	Seating Torque	16 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   1.451 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 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 B Black Anodize     Manufacturer   Ruland Manufacturing   Country of Origin   USA     Weight (Ibs)   0.653200   UPC   634529208939     Note 1   Stainless steel hubs are available upon request.   Note 2     Note 2   Torque ratings are at maximum misalignment.   Note 3     Note 4   Torque ratings or 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 on where shafts are undersized, slippage on th shaft is possible below the rated torque of the disc springs	Number of Screws	2 ea	Dynamic Torque Reversing	12.73 Nm		
Axial Motion0.38 mmTorsional Stiffness113.0 Nm/DegMoment of Inertia1.451 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 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 B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.653200UPC634529208939Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular application.Note 4Torque 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 th 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	Angular Misalignment	1.0°	Dynamic Torque Non-Reversing	25.45 Nm		
Moment of Inertia   1.451 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 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 B Black Anodize     Manufacturer   Ruland Manufacturing   Country of Origin   USA     Weight (Ibs)   0.653200   UPC   634529208939     Tariff Code   8483.60.8000   UNSPC   31163008     Note 1   Stainless steel hubs are available upon request.   Note 3     Note 3   Performance ratings are for guidance only. The user must determine suitability for a particular application.     Note 4   Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on th 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	Parallel Misalignment	0.00 mm	Static Torque	50.9 Nm		
Full Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-140Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 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 B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.653200UPC634529208939Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular application.Note 4Torque 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. Under normal/typical conditions the hubs are used or where shafts are undersized, slippage on th 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	Axial Motion		Torsional Stiffness	113.0 Nm/Deg		
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Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 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 B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.653200UPC634529208939Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 2Torque ratings are at maximum misalignment.Torque ratings are for guidance only. The user must determine suitability for a particular application.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular application.Note 4Torque 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. Under normal/typical conditions the hubs are used or where shafts are undersized, slippage on th 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	Full Bearing Support Required?	Yes	Zero-Backlash?	Yes		
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 B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.653200UPC634529208939Tariff 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 application.Note 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on th 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	Balanced Design	Yes	Torque Wrench	<u>TW:BT-4C-3/8-140</u>		
II, Class 2 and ASTM B580 Type B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.653200UPC634529208939Tariff 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 application.Note 4Torque 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 th 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	Recommended Hex Key	Metric Hex Keys	Material Specification	Disc Springs: Type 302 Stainless		
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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 MDCS57-32-20-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 26.7 mm for bore 1 and 27.6 mm for bore 2.