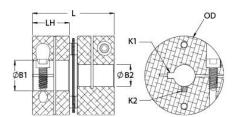




MDCSK25-8-8-A

Ruland MDCSK25-8-8-A, 8mm x 8mm Single Disc Coupling, Aluminum, Clamp Style With Keyway, 25.4mm OD, 26.2mm Length





Description

Ruland MDCSK25-8-8-A is a clamp single disc coupling with 8mm x 8mm bores, 25.4mm OD, 26.2mm length, and 2mm x 2mm keyways. 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. MDCSK25-8-8-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 MDCSK25-8-8-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. MDCSK25-8-8-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Dro	duct	Sno	cific	atio	ne

Keyway (K1) 2 mm Keyway (K2) 2 mm B1 Max Shaft Penetration 12.7 mm B2 Max Shaft Penetration 12.7 mm Outer Diameter (OD) 25.4 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 26.2 mm Hub Width (LH) 11.8 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M3 Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 1.40 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 2.80 Nm Parallel Misalignment 0.00 mm Static Torque 5.6 Nm Axial Motion 0.15 mm Torsional Stiffness 10.6 Nm/Deg Moment of Inertia 2.575 x 10° kg-m² Maximum Speed 10,600 NPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW.BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Full Bearing Support Required?	i roddot opoomodiiono					
Date Date	Bore (B1)	8 mm	Small Bore (B2)	8 mm		
Outer Diameter (OD) 25.4 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 26.2 mm Hub Width (LH) 11.8 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M3 Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 1.40 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 2.80 Nm Parallel Misalignment 0.00 mm Static Torque 5.6 Nm Axial Motion 0.15 mm Torsional Stiffness 10.6 Nm/Deg Moment of Inertia 2.575 x 10° kg-m² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes 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	Keyway (K1)	2 mm	Keyway (K2)	2 mm		
Length (L) 26.2 mm	B1 Max Shaft Penetration	12.7 mm	B2 Max Shaft Penetration	12.7 mm		
Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M3 Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 1.40 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 2.80 Nm Parallel Misalignment 0.00 mm Static Torque 5.6 Nm Axial Motion 0.15 mm Torsional Stiffness 10.6 Nm/Deg Moment of Inertia 2.575 x 10 ⁻⁶ kg-m² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes 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 (lbs) 0.064100 UPC 634529201046 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 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 nubs 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	Outer Diameter (OD)	25.4 mm	Bore Tolerance	+0.03 mm / -0.00 mm		
Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 1.40 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 2.80 Nm Parallel Misalignment 0.00 mm Static Torque Non-Reversing 2.80 Nm Axial Motion 0.15 mm Torsional Stiffness 10.6 Nm/Deg Moment of Inertia 2.575 x 10 6 kg-m² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TWBT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes 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) 0.064100 UPC 634529201046 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 2 Torque 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. 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	Length (L)	26.2 mm	Hub Width (LH)	11.8 mm		
Screw Finish Black Oxide Seating Torque 2.1 Nm	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M3		
Number of Screws 2 ea Dynamic Torque Reversing 1.40 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 2.80 Nm Parallel Misalignment 0.00 mm Static Torque 5.6 Nm Axial Motion 0.15 mm Torsional Stiffness 10.6 Nm/Deg Moment of Inertia 2.575 x 10 ⁻⁶ kg-m² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes 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 (lbs) 0.064100 UPC 634529201046 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 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	Screw Material	Alloy Steel	Hex Wrench Size	2.5 mm		
Angular Misalignment 1.0° Dynamic Torque Non-Reversing 2.80 Nm Parallel Misalignment 0.00 mm Static Torque 5.6 Nm Axial Motion 0.15 mm Torsional Stiffness 10.6 Nm/Deg Moment of Inertia 2.575 x 10 ⁻⁶ kg-m ² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW-BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes 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 (lbs) 0.064100 UPC 634529201046 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 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	Screw Finish	Black Oxide	Seating Torque	2.1 Nm		
Parallel Misalignment 0.00 mm Static Torque 5.6 Nm Axial Motion 0.15 mm Torsional Stiffness 10.6 Nm/Deg Moment of Inertia 2.575 x 10 ⁻⁶ kg-m ² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Siteel 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) 0.064100 UPC 634529201046 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 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 the shaft is possible below the rated torque of the disc springs. Keyways are available to provide additional	Number of Screws	2 ea	Dynamic Torque Reversing	1.40 Nm		
Axial Motion O.15 mm Torsional Stiffness 10.6 Nm/Deg Moment of Inertia 2.575 x 10 ⁻⁶ kg-m² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes 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 (lbs) 0.064100 UPC 634529201046 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 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 the shaft is possible below the rated torque of the disc springs. Keyways are available to provide additional	Angular Misalignment	1.0°	Dynamic Torque Non-Reversing	2.80 Nm		
Moment of Inertia 2.575 x 10 ⁻⁶ kg-m ² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes 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) 0.064100 UPC 634529201046 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 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 the shaft is possible below the rated torque of the disc springs. Keyways are available to provide additional	Parallel Misalignment	0.00 mm	Static Torque	5.6 Nm		
Zero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-18.3Recommended Hex KeyMetric Hex KeysFull Bearing Support Required?YesMaterial 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)0.064100UPC634529201046Tariff 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 the shaft is possible below the rated torque of the disc springs. Keyways are available to provide additional	Axial Motion		Torsional Stiffness	10.6 Nm/Deg		
Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Finish Specification Temperature -40°F to 200°F (-40°C to 93°C) 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) 0.064100 UPC 634529201046 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 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	Moment of Inertia	2.575 x 10 ⁻⁶ kg-m ²	Maximum Speed	10,000 RPM		
Full Bearing Support Required? Yes 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 (lbs) 0.064100 UPC 634529201046 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 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	Zero-Backlash?	Yes	Balanced Design	Yes		
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 (lbs) 0.064100 UPC 634529201046 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 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 Wrench	TW:BT-1R-1/4-18.3	Recommended Hex Key	Metric Hex Keys		
Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.064100 UPC 634529201046 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 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	Full Bearing Support Required?	Yes	Material Specification	Disc Springs: Type 302 Stainless		
Weight (lbs) 0.064100 UPC 634529201046 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 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	Temperature	-40°F to 200°F (-40°C to 93°C)	Finish Specification	II, Class 2 and ASTM B580 Type B		
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 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	Manufacturer	Ruland Manufacturing	Country of Origin	USA		
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	Note 4	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				

assistance.

Prop 65

MARNING 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 www.P65Warnings.ca.gov.

Installation Instructions

- Align the bores of the MDCSK25-8-8-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: 0.15 mm)
- 2. Fully tighten the M3 screw on the first hub to the recommended seating torque of 2.1 Nm using a 2.5 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.
- 4. 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 12.7 mm.