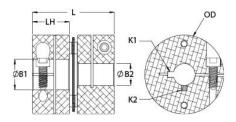




MDCSK51-22-14-A

Ruland MDCSK51-22-14-A, 22mm x 14mm Single Disc Coupling, Aluminum, Clamp Style With Keyway, 50.8mm OD, 46.1mm Length





Description

Ruland MDCSK51-22-14-A is a clamp single disc coupling with 22mm x 14mm bores, 50.8mm OD, 46.1mm length, and 6mm x 5mm 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. MDCSK51-22-14-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 MDCSK51-22-14-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. MDCSK51-22-14-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Outer Diameter (OD) 50.8 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 46.1 mm Hub Width (LH) 20.55 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M5 Screw Kinish Black Oxide Seating Torque 9.5 Nm Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 19.80 Nm Parallel Misalignment 0.00 mm Static Torque 39.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.375 x 10° kg-m² Maximum Speed 10.000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW/BT-4C-3/8-86 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Sulfuric Anodized MIL-A-862 In, Class 2 and ASTM B5800 UPC 634529204375 Statiels Maufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.446300 UPC 634529204375	FIGURE Specifications			
B1 Max Shaft Penetration 22.2 mm B2 Max Shaft Penetration 22.2 mm Outer Diameter (OD) 50.8 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 46.1 mm Hub Width (LH) 20.55 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M5 Screw Material Alloy Steel Hex Wrench Size 4.0 mm Screw Finish Black Oxide Seating Torque 9.5 Nm Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 19.80 Nm Parallel Misalignment 0.00 mm Static Torque 39.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.375 x10 ⁵ kg-m ² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Full Bearing Support Required? Yes Material Specification Hubs: 2024-T351 Aluminum Disc Springs: Type 302 Steil Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580° Maufacture	Bore (B1)	22 mm	Small Bore (B2)	14 mm
Outer Diameter (OD) 50.8 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 46.1 mm Hub Width (LH) 20.55 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M5 Screw Material Alloy Steel Hex Wrench Size 4.0 mm Screw Finish Black Oxide Seating Torque 9.5 Nm Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 19.80 Nm Parallel Misalignment 0.00 mm Static Torque 39.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.375 x 10° kg-m² Maximum Speed 10.000 RPM Zero-Backlash? Yes Balanced Design Yes Full Bearing Support Required? Yes Material Specification Disc Springs: Type 302 Statisteel Full Bearing Support Required? Yes Suffuric Anodized MIL-A-862 II, Class 2 and ASTM B5800 Maufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.446300 UPC 63	Keyway (K1)	6 mm	Keyway (K2)	5 mm
Length (L) 46.1 mm Hub Width (LH) 20.55 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M5 Screw Material Alloy Steel Hex Wrench Size 4.0 mm Screw Finish Black Oxide Seating Torque 9.5 Nm Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 19.80 Nm Parallel Misalignment 0.00 mm Static Torque 39.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.375 x 10 ⁵ kg-m ² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW;BT-4C-3/8-86 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Ultric Anodized MIL-A-86/ Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-86/ Meufacturer Ruland Manufacturing Country of Origin USA Meufacturer Ruland Manufacturing Country o	B1 Max Shaft Penetration	22.2 mm	B2 Max Shaft Penetration	22.2 mm
Recommended Shaft Tolerance+0.000 mm / -0.013 mmForged Clamp ScrewM5Screw MaterialAlloy SteelHex Wrench Size4.0 mmScrew FinishBlack OxideSeating Torque9.5 NmNumber of Screws2 eaDynamic Torque Reversing9.90 NmAngular Misalignment1.0°Dynamic Torque Non-Reversing19.80 NmParallel Misalignment0.00 mmStatic Torque39.6 NmAxial Motion0.32 mmTorsional Stiffness98.0 Nm/DegMoment of Inertia7.375 x 10 ⁻⁵ kg-m²Maximum Speed10,000 RPMZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysFull Bearing Support Required?YesMaterial 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-862 II, Class 2 and ASTM B580ManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.446300UPC634529204375Tariff 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 applicaNote 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 c	Outer Diameter (OD)	50.8 mm	Bore Tolerance	+0.03 mm / -0.00 mm
Screw Material Alloy Steel Hex Wrench Size 4.0 mm Screw Finish Black Oxide Seating Torque 9.5 Nm Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 19.80 Nm Parallel Misalignment 0.00 mm Static Torque 39.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.375 x 10 ⁻⁵ kg-m ² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-4C-3/8-86 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes 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-862 II, Class 2 and ASTM B580 Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.446300 UPC 634529204375 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	Length (L)	46.1 mm	Hub Width (LH)	20.55 mm
Screw Finish Black Oxide Seating Torque 9.5 Nm Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 19.80 Nm Parallel Misalignment 0.00 mm Static Torque 39.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.375 x 10°5 kg-m² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-4C-3/8-86 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes 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-862 II, Class 2 and ASTM B580 Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.446300 UPC 634529204375 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 3 Performance ratings are for guidance only. The user must d	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M5
Number of Screws2 eaDynamic Torque Reversing9.90 NmAngular Misalignment1.0°Dynamic Torque Non-Reversing19.80 NmParallel Misalignment0.00 mmStatic Torque39.6 NmAxial Motion0.32 mmTorsional Stiffness98.0 Nm/DegMoment of Inertia7.375 x 10° kg-m²Maximum Speed10,000 RPMZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysFull Bearing Support Required?YesMaterial 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-862 II, Class 2 and ASTM B580 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.446300UPC634529204375Tariff 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 applica normal/typical conditions the hubs are capable of holding up to the rated torque 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, slippag	Screw Material	Alloy Steel	Hex Wrench Size	4.0 mm
Angular Misalignment 1.0° Dynamic Torque Non-Reversing 19.80 Nm Parallel Misalignment 0.00 mm Static Torque 39.6 Nm Axial Motion 0.32 mm Torsional Stiffness 98.0 Nm/Deg Moment of Inertia 7.375 x 10 ⁵ kg-m ² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-4C-3/8-86 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Disc Springs: Type 302 Stais Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.446300 UPC 634529204375 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 normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. normal/typical conditions the hubs are capable of nolding up to the rated torque of the disc	Screw Finish	Black Oxide	Seating Torque	9.5 Nm
Parallel Misalignment0.00 mmStatic Torque39.6 NmAxial Motion0.32 mmTorsional Stiffness98.0 Nm/DegMoment of Inertia7.375 x 10 ⁻⁵ kg-m ² Maximum Speed10,000 RPMZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysFull Bearing Support Required?YesMaterial 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-862 II, Class 2 and ASTM B580 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.446300UPC634529204375Tariff 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 applica normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippag	Number of Screws	2 ea	Dynamic Torque Reversing	9.90 Nm
Axial Motion0.32 mmTorsional Stiffness98.0 Nm/DegMoment of Inertia7.375 x 10°5 kg-m²Maximum Speed10,000 RPMZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysFull Bearing Support Required?YesMaterial 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-86C II, Class 2 and ASTM B580 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.446300UPC634529204375Tariff 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 applica normal/typical conditions the hubs are capable of holding up to the rated torque 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 capable of holding up to the rated torque 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 capable of holding up to the rated torque 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 capable of holding up to the rated torque of the disc springs. normal/typical conditions the hubs are capable	Angular Misalignment	1.0°	Dynamic Torque Non-Reversing	19.80 Nm
Moment of Inertia 7.375 x 10 ⁵ kg-m ² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-4C-3/8-86 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes 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-862 II, Class 2 and ASTM B580 Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.446300 UPC 634529204375 Note 1 Stainless steel hubs are available upon request. 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 applica normal/typical conditions the hubs are capable of holding up to the rated torque 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 capable of holding up to the rated torque of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippag	Parallel Misalignment	0.00 mm	Static Torque	39.6 Nm
Zero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysFull Bearing Support Required?YesMaterial 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-862 II, Class 2 and ASTM B580 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.446300UPC634529204375Tariff 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 applica normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippage	Axial Motion	0.32 mm	Torsional Stiffness	98.0 Nm/Deg
Torque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysFull Bearing Support Required?YesMaterial 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-862 II, Class 2 and ASTM B580 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.446300UPC634529204375Tariff 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 applica Norte 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	Moment of Inertia	7.375 x 10 ⁻⁵ kg-m ²	Maximum Speed	10,000 RPM
Full Bearing Support Required?YesMaterial 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-862 II, Class 2 and ASTM B580 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.446300UPC634529204375Tariff 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 applicaNote 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. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippag	Zero-Backlash?	Yes	Balanced Design	Yes
Disc Springs: Type 302 Stai SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.446300UPC634529204375Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 2Torque ratings are at maximum misalignment.Note 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	Torque Wrench	TW:BT-4C-3/8-86	Recommended Hex Key	Metric Hex Keys
II, Class 2 and ASTM B580Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.446300UPC634529204375Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.31163008Note 2Torque ratings are at maximum misalignment.Note 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. normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippage	Full Bearing Support Required?	Yes	Material Specification	Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless Steel
Weight (lbs)0.446300UPC634529204375Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 2Torque ratings are at maximum misalignment.Note 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. normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippage	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
Tariff 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 applicaNote 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. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippag	Manufacturer	Ruland Manufacturing	Country of Origin	USA
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 applica Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In ormal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippage	Weight (Ibs)	0.446300	UPC	634529204375
Note 2 Torque ratings are at maximum misalignment. Note 3 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippage	Tariff Code	8483.60.8000	UNSPC	31163008
Note 3 Performance ratings are for guidance only. The user must determine suitability for a particular applica 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. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippag	Note 1	Stainless steel hubs are available upon request.		
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. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippag	Note 2	Torque ratings are at maximum misalignment.		
normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippag	Note 3	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
share a possible below the rated torque of the dise springs. Reyways are available to provide addition	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.		
Prop 65	AWARNING 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 MDCSK51-22-14-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. (<i>Angular Misialignment:</i> 1.0°, <i>Parallel Misalignment:</i> 0.00 mm, <i>Axial Motion:</i> 0.32 mm) Fully tighten the M5 screw on the first hub to the recommended seating torque of 9.5 Nm using a 4.0 mm hex torque wrench. 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. The shafts may extend into the relieved portion of the bore as long as it does not exceed the shaft penetration length of 22.2 mm. 		