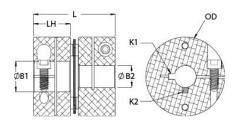




## MDCSK33-14-8-A

Ruland MDCSK33-14-8-A, 14mm x 8mm Single Disc Coupling, Aluminum, Clamp Style With Keyway, 33.3mm OD, 33.3mm Length





## Description

Ruland MDCSK33-14-8-A is a clamp single disc coupling with 14mm x 8mm bores, 33.3mm OD, 33.3mm length, and 5mm 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. MDCSK33-14-8-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 MDCSK33-14-8-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. MDCSK33-14-8-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes

ш	$\hat{}$	~		~	S	n	$\boldsymbol{\sim}$	$\sim$	$\sim$	~	• •	$\sim$	n	•
_	LJ	u	u	۱.	•	.,	<b>-</b>		ı.	<u>_</u>		w		

Disc Springs: Type 302 Steel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL- II, Class 2 and ASTM B Black Anodize  Manufacturer Ruland Manufacturing Country of Origin USA  Weight (Ibs) 0.137200 UPC 634529201763  Tariff Code 8483.60.8000 UNSPC 31163008  Note 1 Stainless steel hubs are available upon request.  Note 2 Torque ratings are at maximum misalignment.	r roduct opecifications								
B1 Max Shaft Penetration 16.1 mm B2 Max Shaft Penetration 16.1 mm Outer Diameter (OD) 33.3 mm Bore Tolerance +0.03 mm / -0.00 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 2.83 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 5.65 Nm Parallel Misalignment 0.00 mm Static Torque 11.3 Nm Axial Motion 0.20 mm Torsional Stiffness 35.4 Nm/Deg Moment of Inertia 9.628 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 Hubs: 2024-T351 Alum Disc Springs: Type 30: Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification USA Weight (Ibs) 0.137200 UPC 634529201763 1163008  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 a Note 4 Torque ratings are at maximum misalignment.	Bore (B1)	14 mm	Small Bore (B2)	8 mm					
Outer Diameter (OD)         33.3 mm         Bore Tolerance         +0.03 mm / -0.00 mm           Length (L)         33.3 mm         Hub Width (LH)         15.00 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         2.83 Nm           Angular Misalignment         1.0°         Dynamic Torque Non-Reversing         5.65 Nm           Parallel Misalignment         0.00 mm         Static Torque         11.3 Nm           Axial Motion         0.20 mm         Torsional Stiffness         35.4 Nm/Deg           Moment of Inertia         9.628 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         Sulfuric Anodized MIL-II, Class 2 and ASTM EBlack Anodize           Temperature         -40°F to 200°F (-40°C to 93°C)         Finish Specification	Keyway (K1)	5 mm	Keyway (K2)	2 mm					
Length (L) 33.3 mm Hub Width (LH) 15.00 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 2.83 Nm  Angular Misalignment 1.0° Dynamic Torque Non-Reversing 5.65 Nm  Parallel Misalignment 0.00 mm Static Torque 11.3 Nm  Axial Motion 0.20 mm Torsional Stiffness 35.4 Nm/Deg  Moment of Inertia 9.628 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 Alum Disc Springs: Type 30: Steel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification USA  Weight (Ibs) 0.137200 UPC 634529201763  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 a Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, si	B1 Max Shaft Penetration	16.1 mm	B2 Max Shaft Penetration	16.1 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 2.83 Nm  Angular Misalignment 1.0° Dynamic Torque Non-Reversing 5.65 Nm  Parallel Misalignment 0.00 mm Static Torque 11.3 Nm  Axial Motion 0.20 mm Torsional Stiffness 35.4 Nm/Deg  Moment of Inertia 9.628 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 Alum Disc Springs: Type 30: Steel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification USA  Weight (lbs) 0.137200 UPC 634529201763  Tariff Code 8483.60.8000 UNSPC 31163008  Note 1 Stainless steel hubs are available upon request.  Note 2 Torque ratings are for guidance only. The user must determine suitability for a particular a Note 4 Torque ratings are for guidance only. The user must determine suitability for a particular a Rote 4 Torque ratings are for guidance only. The user must determine suitability for a particular a Note 4 Torque ratings are for guidance only. The user must determine suitability for a perticular a Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, si	Outer Diameter (OD)	33.3 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       2.83 Nm         Angular Misalignment       1.0°       Dynamic Torque Non-Reversing       5.65 Nm         Parallel Misalignment       0.00 mm       Static Torque       11.3 Nm         Axial Motion       0.20 mm       Torsional Stiffness       35.4 Nm/Deg         Moment of Inertia       9.628 x 10 <sup>-6</sup> 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: 2024-7351 Alun Disc Springs: Type 30: Steel         Temperature       -40°F to 200°F (-40°C to 93°C)       Finish Specification       Sulfuric Anodized Mill-II, Class 2 and ASTM Black Anodize         Manufacturer       Ruland Manufacturing       Country of Origin       USA         Weight (lbs)       0.137200       UPC       634529201763         Tariff Code       8483.60.8000       UNSPC       31163008         Note 1       Stainless steel hubs are availa	Length (L)	33.3 mm	Hub Width (LH)	15.00 mm					
Screw Finish  Number of Screws  2 ea  Dynamic Torque Reversing  2.83 Nm  Angular Misalignment  1.0°  Dynamic Torque Non-Reversing  5.65 Nm  Parallel Misalignment  0.00 mm  Static Torque  11.3 Nm  Axial Motion  0.20 mm  Torsional Stiffness  35.4 Nm/Deg  Moment of Inertia  9.628 x 10 <sup>-6</sup> 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 Alum  Disc Springs: Type 303  Steel  Temperature  -40°F to 200°F (-40°C to 93°C)  Finish Specification  Sulfuric Anodized MIL- II, Class 2 and ASTM E Black Anodize  Manufacturer  Ruland Manufacturing  Country of Origin  USA  Weight (lbs)  0.137200  UPC  634529201763  Tariff Code  8483.60.8000  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 a  Note 4  Torque ratings are for guidance only. The user must determine suitability for a particular a  Note 4  Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M3					
Number of Screws 2 ea Dynamic Torque Reversing 2.83 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 5.65 Nm Parallel Misalignment 0.00 mm Static Torque 11.3 Nm Axial Motion 0.20 mm Torsional Stiffness 35.4 Nm/Deg Moment of Inertia 9.628 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 Disc Springs: Type 30: Steel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-II, Class 2 and ASTM Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.137200 UPC 634529201763 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 a Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Screw Material	Alloy Steel	Hex Wrench Size	2.5 mm					
Angular Misalignment 1.0° Dynamic Torque Non-Reversing 5.65 Nm Parallel Misalignment 0.00 mm Static Torque 11.3 Nm Axial Motion 0.20 mm Torsional Stiffness 35.4 Nm/Deg Moment of Inertia 9.628 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 Alum Disc Springs: Type 30° Steel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL- II, Class 2 and ASTM E Black Anodize  Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.137200 UPC 634529201763 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 a Porque ratings for the couplings are based on the physical limitations/failure point of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Screw Finish	Black Oxide	Seating Torque	2.1 Nm					
Parallel Misalignment0.00 mmStatic Torque11.3 NmAxial Motion0.20 mmTorsional Stiffness35.4 Nm/DegMoment of Inertia9.628 x 10-6 kg-m²Maximum Speed10,000 RPMZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-18.3Recommended Hex KeyMetric Hex KeysFull Bearing Support Required?YesMaterial SpecificationHubs: 2024-T351 Alum Disc Springs: Type 30/SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-II, Class 2 and ASTM Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.137200UPC634529201763Tariff 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 aNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprincases, especially when the smallest standard bores are used or where shafts are undersized, sl	Number of Screws	2 ea	Dynamic Torque Reversing	2.83 Nm					
Axial Motion  0.20 mm Torsional Stiffness 35.4 Nm/Deg  Moment of Inertia 9.628 x 10 <sup>-6</sup> kg-m <sup>2</sup> 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 Alum Disc Springs: Type 30/3 Steel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL- II, Class 2 and ASTM E Black Anodize  Manufacturer Ruland Manufacturing Country of Origin USA  Weight (Ibs) 0.137200 UPC 634529201763 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 a Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Angular Misalignment	1.0°	Dynamic Torque Non-Reversing	5.65 Nm					
Moment of Inertia       9.628 x 10 <sup>-6</sup> 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 Alum Disc Springs: Type 302 Steel         Temperature       -40°F to 200°F (-40°C to 93°C)       Finish Specification       Sulfuric Anodized MIL-II, Class 2 and ASTM Black Anodize         Manufacturer       Ruland Manufacturing       Country of Origin       USA         Weight (lbs)       0.137200       UPC       634529201763         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 a         Note 4       Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprincases, especially when the smallest standard bores are used or where shafts are undersized, sl	Parallel Misalignment	0.00 mm	Static Torque	11.3 Nm					
Zero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-18.3Recommended Hex KeyMetric Hex KeysFull Bearing Support Required?YesMaterial SpecificationHubs: 2024-T351 Alum Disc Springs: Type 302 SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-II, Class 2 and ASTM Balack AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.137200UPC634529201763Tariff 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 aNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprinormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprinormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprinormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprinormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprinormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprinormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprinormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprinormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprinormal/typical conditions the hubs are capable of holding up to the rated torque of the disc	Axial Motion	0.20 mm	Torsional Stiffness	35.4 Nm/Deg					
Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Disc Springs: Type 302 Steel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL- II, Class 2 and ASTM B Black Anodize  Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.137200 UPC 634529201763 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 a Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprin ormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Moment of Inertia	9.628 x 10 <sup>-6</sup> kg-m <sup>2</sup>	Maximum Speed	10,000 RPM					
Full Bearing Support Required? Yes Material Specification Disc Springs: Type 302 Steel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-II, Class 2 and ASTM Elack Anodize  Manufacturer Ruland Manufacturing Country of Origin USA  Weight (Ibs) 0.137200 UPC 634529201763  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 a Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprin ormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Zero-Backlash?	Yes	Balanced Design	Yes					
Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-II, Class 2 and ASTM Elack Anodize  Manufacturer Ruland Manufacturing Country of Origin USA  Weight (Ibs) 0.137200 UPC 634529201763  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 a Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Torque Wrench	TW:BT-1R-1/4-18.3	Recommended Hex Key	Metric Hex Keys					
Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.137200 UPC 634529201763 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 a Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprin ormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Full Bearing Support Required?	Yes	Material Specification	Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless Steel					
Weight (lbs)  0.137200  UPC 634529201763  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 a  Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc spin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	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 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 a  Note 4  Torque ratings for the couplings are based on the physical limitations/failure point of the disc spinormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	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 a  Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc spin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Weight (lbs)	0.137200	UPC	634529201763					
Note 2 Torque ratings are at maximum misalignment.  Note 3 Performance ratings are for guidance only. The user must determine suitability for a particular a  Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Tariff Code	8483.60.8000	UNSPC	31163008					
Note 3  Performance ratings are for guidance only. The user must determine suitability for a particular a  Note 4  Torque ratings for the couplings are based on the physical limitations/failure point of the disc spin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	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 spin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	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 sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Note 3	Performance ratings are for guidance only. The user must determine suitability for a particular application.							
5	Note 4	normal/typical conditions the hubs cases, especially when the smaller	are capable of holding up to the rated st standard bores are used or where	d torque of the disc springs. In some shafts are undersized, slippage on the					

torque capacity in the shaft/hub connection when required. Please consult technical support for more 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 <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.

## **Installation Instructions**

- Align the bores of the MDCSK33-14-8-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*: 0.20 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 16.1 mm.