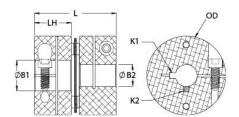




## MDCSK57-24-19-A

Ruland MDCSK57-24-19-A, 24mm x 19mm Single Disc Coupling, Aluminum, Clamp Style With Keyway, 57.2mm OD, 58.8mm Length





## Description

Ruland MDCSK57-24-19-A is a clamp single disc coupling with 24mm x 19mm bores, 57.2mm OD, 58.8mm length, and 8mm x 6mm 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. MDCSK57-24-19-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 MDCSK57-24-19-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. MDCSK57-24-19-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes

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Disc Springs: Type 302 Stainsteel  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) 0.710200 UPC 634529206188  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   27.6 mm   B2 Max Shaft Penetration   27.6 mm   27.7 mm   27.6 mm   27.6 mm   27.6 mm   27.7 mm   27.6 mm	Bore (B1)	24 mm	Small Bore (B2)	19 mm					
Outer Diameter (OD)         57.2 mm         Bore Tolerance         +0.03 mm / -0.00 mm           Length (L)         58.8 mm         Hub Width (LH)         26.67 mm           Recommended Shaft Tolerance         +0.000 mm / -0.013 mm         Forged Clamp Screw         M6           Screw Material         Alloy Steel         Hex Wrench Size         5.0 mm           Screw Finish         Black Oxide         Seating Torque         16 Nm           Number of Screws         2 ea         Dynamic Torque Reversing         12.73 Nm           Angular Misalignment         1.0°         Dynamic Torque Non-Reversing         25.45 Nm           Parallel Misalignment         0.00 mm         Static Torque         50.9 Nm           Axial Motion         0.38 mm         Torsional Stiffness         113.0 Nm/Deg           Moment of Inertia         1.501 x 10 <sup>-4</sup> kg-m²         Maximum Speed         10,000 RPM           Zero-Backlash?         Yes         Balanced Design         Yes           Torque Wrench         TW:BT-4C-3/8-140         Recommended Hex Key         Metric Hex Keys           Full Bearing Support Required?         Yes         Material Specification         Sulfuric Anodized MIL-A-86/II, Class 2 and ASTM B580' Black Anodize           Temperature         -40°F to 200°F (-40°C to 93°C)         Finish Specificatio	Keyway (K1)	8 mm	Keyway (K2)	6 mm					
Length (L) 58.8 mm Hub Width (LH) 26.67 mm  Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M6  Screw Material Alloy Steel Hex Wrench Size 5.0 mm  Screw Finish Black Oxide Seating Torque 16 Nm  Number of Screws 2 ea Dynamic Torque Reversing 12.73 Nm  Angular Misalignment 1.0° Dynamic Torque Non-Reversing 25.45 Nm  Parallel Misalignment 0.00 mm Static Torque 50.9 Nm  Axial Motion 0.38 mm Torsional Stiffness 113.0 Nm/Deg  Moment of Inertia 1.501 x 10 <sup>-4</sup> kg-m <sup>2</sup> Maximum Speed 10,000 RPM  Zero-Backlash? Yes Balanced Design Yes  Torque Wrench TW:BT-4C-3/8-140 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-86; II, Class 2 and ASTM B580 Black Anodize  Manufacturer Ruland Manufacturing Country of Origin USA  Weight (lbs) 0.710200 UPC 634529206188  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 or moral/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 of the proper or served or where shafts are undersized, slippage or shafts are u	B1 Max Shaft Penetration	27.6 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 Non-Reversing 25.45 Nm Parallel Misalignment 0.00 mm Static Torque Non-Reversing 50.9 Nm Axial Motion 0.38 mm Torsional Stiffness 113.0 Nm/Deg Moment of Inertia 1.501 x 10 <sup>-4</sup> kg-m² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW-BT-4C-3/8-140 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Hubs: 2024-T351 Aluminum Disc Springs: Type 302 Stais Steel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification USA Weight (lbs) 0.710200 UPC 634529206188 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 applica Note 4 Torque 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 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	Outer Diameter (OD)	57.2 mm	Bore Tolerance	+0.03 mm / -0.00 mm					
Screw Material       Alloy Steel       Hex Wrench Size       5.0 mm         Screw Finish       Black Oxide       Seating Torque       16 Nm         Number of Screws       2 ea       Dynamic Torque Reversing       12.73 Nm         Angular Misalignment       1.0°       Dynamic Torque Non-Reversing       25.45 Nm         Parallel Misalignment       0.00 mm       Static Torque Non-Reversing       25.45 Nm         Axial Motion       0.38 mm       Torsional Stiffness       113.0 Nm/Deg         Moment of Inertia       1.501 x 10°4 kg-m²       Maximum Speed       10,000 RPM         Zero-Backlash?       Yes       Balanced Design       Yes         Torque Wrench       TW:BT-4C-3/8-140       Recommended Hex Key       Metric Hex Keys         Full Bearing Support Required?       Yes       Material Specification       Hubs: 2024-T351 Aluminum Disc Springs: Type 302 Stais Steel         Temperature       -40°F to 200°F (-40°C to 93°C)       Finish Specification       Sulfuric Anodized MIL-A-860 II, Class 2 and ASTM B580 Black Anodize         Manufacturer       Ruland Manufacturing       Country of Origin       USA         Weight (lbs)       0.710200       UPC       634529206188         Tariff Code       8483.60.8000       UNSPC       31163008         Note 1       <	Length (L)	58.8 mm	Hub Width (LH)	26.67 mm					
Screw Finish  Black Oxide  Seating Torque  16 Nm  Number of Screws  2 ea  Dynamic Torque Reversing  12.73 Nm  Angular Misalignment  1.0°  Dynamic Torque Non-Reversing  25.45 Nm  Parallel Misalignment  0.00 mm  Static Torque  Axial Motion  0.38 mm  Torsional Stiffness  113.0 Nm/Deg  Moment of Inertia  1.501 x 10°4 kg-m²  Maximum Speed  10,000 RPM  Zero-Backlash?  Yes  Balanced Design  Yes  Torque Wrench  TW:BT-4C-3/8-140  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-86: II, Class 2 and ASTM B580' Black Anodize  Manufacturer  Ruland Manufacturing  Country of Origin  USA  Weight (lbs)  0.710200  UPC  634529206188  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 applics.  Note 4  Torque ratings are for guidance only. The user must determine suitability for a particular applics.  Note 4  Torque ratings are for guidance only. The user must determine suitability for a particular applics.  Note 3  Performance ratings 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 cases, especially when the smallest standard bores are used or where shafts are undersized, slippag	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M6					
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 1.501 x 10 <sup>-4</sup> kg-m² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-4C-3/8-140 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Hubs: 2024-T351 Aluminum Disc Springs: Type 302 Staisteel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-86; II, Class 2 and ASTM B580 Black Anodize  Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.710200 UPC 634529206188  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 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 ormal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In ormal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In ormal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In ormal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In ormal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In ormal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In ormal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs.	Screw Material	Alloy Steel	Hex Wrench Size	5.0 mm					
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Parallel Misalignment0.00 mmStatic Torque50.9 NmAxial Motion0.38 mmTorsional Stiffness113.0 Nm/DegMoment of Inertia1.501 x 10 <sup>-4</sup> kg-m²Maximum Speed10,000 RPMZero-Backlash?YesBalanced DesignYesTorque WrenchTW.BT-4C-3/8-140Recommended 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 (Ibs)0.710200UPC634529206188Tariff 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. In crases, especially when the smallest standard bores are used or where shafts are undersized, slippag	Number of Screws	2 ea	Dynamic Torque Reversing	12.73 Nm					
Axial Motion  0.38 mm  Torsional Stiffness 113.0 Nm/Deg  Moment of Inertia 1.501 x 10 <sup>-4</sup> kg-m <sup>2</sup> Maximum Speed 10,000 RPM  Zero-Backlash? Yes Balanced Design Yes  Torque Wrench TW:BT-4C-3/8-140 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Disc Springs: Type 302 Stai Steel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-86/ II, Class 2 and ASTM B580/ Black Anodize  Manufacturer Ruland Manufacturing Country of Origin USA  Weight (Ibs) 0.710200 UPC 634529206188 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 applica Note 4 Torque 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	Angular Misalignment	1.0°	Dynamic Torque Non-Reversing	25.45 Nm					
Moment of Inertia       1.501 x 10 <sup>-4</sup> kg-m²       Maximum Speed       10,000 RPM         Zero-Backlash?       Yes       Balanced Design       Yes         Torque Wrench       TW:BT-4C-3/8-140       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-86/II, Class 2 and ASTM B580 Black Anodize         Manufacturer       Ruland Manufacturing       Country of Origin       USA         Weight (lbs)       0.710200       UPC       634529206188         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 cases, especially when the smallest standard bores are used or where shafts are undersized, slippagent and the standard bores are used or where shafts are undersized, slippagent and the standard bores are used or where shafts are undersized, slippagent and the standard bores are used or where shafts are undersized, slippagent a	Parallel Misalignment	0.00 mm	Static Torque	50.9 Nm					
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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) 0.710200 UPC 634529206188  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 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	Zero-Backlash?	Yes	Balanced Design	Yes					
Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-863 III, Class 2 and ASTM B580 Black Anodize  Manufacturer Ruland Manufacturing Country of Origin USA  Weight (Ibs) 0.710200 UPC 634529206188  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 or application or a particular application or a particular application or app	Torque Wrench	TW:BT-4C-3/8-140	Recommended Hex Key	Metric Hex Keys					
Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.710200 UPC 634529206188 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 of the disc springs. Note 4 Torque 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, slippage	Full Bearing Support Required?	Yes	Material Specification	Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless Steel					
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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 of the disc springs.  Note 4  Torque 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, slippagents.	Manufacturer	Ruland Manufacturing	Country of Origin	USA					
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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.  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	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. 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, 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.							
	Note 4	normal/typical conditions the hubs cases, especially when the smalles	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 MDCSK57-24-19-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.
- 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 27.6 mm.