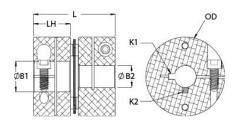




MDCSK41-18-18-A

Ruland MDCSK41-18-18-A, 18mm x 18mm Single Disc Coupling, Aluminum, Clamp Style With Keyway, 41.3mm OD, 39.7mm Length





Description

Ruland MDCSK41-18-18-A is a clamp single disc coupling with 18mm x 18mm bores, 41.3mm OD, 39.7mm length, and 6mm 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. MDCSK41-18-18-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 MDCSK41-18-18-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. MDCSK41-18-18-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Length (L) 39.7 mm Hub Width (LH) 18.05 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M4 Screw Material Alloy Steel Hex Wrench Size 3.0 mm Screw Finish Black Oxide Seating Torque 4.6 Nm Number of Screws 2 ea Dynamic Torque Reversing 5.08 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 10.15 Nm Parallel Misalignment 0.00 mm Static Torque 20.3 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.748 x 10° kg-m² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-41.0 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Hubs: 2024-7351 / Disc Springs: Type Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification USA Weight (lbs) 0.237300 UPC 634529202920 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 particul Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc normal/typical conditions th	ici opecincations			
B1 Max Shaft Penetration 19.2 mm B2 Max Shaft Penetration 19.2 mm Outer Diameter (OD) 41.3 mm Bore Tolerance +0.03 mm / -0.00 m Length (L) 39.7 mm Hub Width (LH) 18.05 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M4 Screw Material Alloy Steel Hex Wrench Size 3.0 mm Screw Finish Black Oxide Seating Torque 4.6 Nm Number of Screws 2 ea Dynamic Torque Reversing 5.08 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 10.15 Nm Parallel Misalignment 0.00 mm Static Torque 20.3 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.748 x 10 ⁻⁵ kg-m² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-41.0 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Hubs: 2024-T351 / Disc Springs: Type Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized II, Class 2 and AST Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.237300 UPC 634529202920 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 particul Note 4 Torque or the disc service of the disc serv	31) 18	8 mm	Small Bore (B2)	18 mm
Outer Diameter (OD) 41.3 mm Bore Tolerance +0.03 mm / -0.00 mm / -0.00 mm Length (L) 39.7 mm Hub Width (LH) 18.05 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M4 Screw Material Alloy Steel Hex Wrench Size 3.0 mm Screw Finish Black Oxide Seating Torque 4.6 Nm Number of Screws 2 ea Dynamic Torque Reversing 5.08 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 10.15 Nm Parallel Misalignment 0.00 mm Static Torque 20.3 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.748 x 10.5 kg-m² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-41.0 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Hubs: 2024-T351 / Disc Springs: Type Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized I II, Class 2 and AST Black Anodize Manufacture	y (K1) 6	mm	Keyway (K2)	6 mm
Length (L) 39.7 mm Hub Width (LH) 18.05 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M4 Screw Material Alloy Steel Hex Wrench Size 3.0 mm Screw Finish Black Oxide Seating Torque 4.6 Nm Number of Screws 2 ea Dynamic Torque Reversing 5.08 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 10.15 Nm Parallel Misalignment 0.00 mm Static Torque 20.3 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.748 x 10.5 kg-m² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-41.0 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Uic Springs: Type Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized I II, Class 2 and AS' Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.237300 UPC 634529202920 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 particul Note 4 Torque ratings are for guidance only. The user must determine suitability for a particul Note 4 Torque ratings are to couplings are based on the physical limitations/failure point of the disc	Shaft Penetration 19	9.2 mm	B2 Max Shaft Penetration	19.2 mm
Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M4 Screw Material Alloy Steel Hex Wrench Size 3.0 mm Screw Finish Black Oxide Seating Torque 4.6 Nm Number of Screws 2 ea Dynamic Torque Reversing 5.08 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 10.15 Nm Parallel Misalignment 0.00 mm Static Torque Non-Reversing 10.15 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.748 x 10.5 kg-m² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-41.0 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Usc Springs: Type Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized I II. Class 2 and AST Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.237300 UPC 634529202920 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 particul Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc	Diameter (OD) 41	1.3 mm	Bore Tolerance	+0.03 mm / -0.00 mm
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Number of Screws 2 ea Dynamic Torque Reversing 5.08 Nm Angular Misalignment 1.0° Dynamic Torque Non-Reversing 10.15 Nm Parallel Misalignment 0.00 mm Static Torque Non-Reversing 10.15 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.748 x 10°5 kg-m² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-41.0 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Hubs: 2024-T351 // Disc Springs: Type Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized III, Class 2 and AST Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.237300 UPC 634529202920 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 particul Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc some proper to the disc some proper	Material Al	Alloy Steel	Hex Wrench Size	3.0 mm
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Zero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-41.0Recommended Hex KeyMetric Hex KeysFull Bearing Support Required?YesMaterial SpecificationHubs: 2024-T351 /A Disc Springs: Type SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized III, Class 2 and AST Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.237300UPC634529202920Tariff 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 particulNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the discNote 4Torque ratings for the couplings are capable of holding up to the rated torque of the disc	lotion 0.3).25 mm	Torsional Stiffness	70.6 Nm/Deg
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Weight (lbs) 0.237300 UPC 634529202920 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 particul Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the discs	rature -4	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 particul Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the discs	acturer Ru	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 particul Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the discs	ode 84	483.60.8000	UNSPC	31163008
Note 3 Performance ratings are for guidance only. The user must determine suitability for a particul Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc s	St	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 normal/typical conditions the hubs are capable of holding up to the rated torque of the disc s	Tc	Torque ratings are at maximum misalignment.		
normal/typical conditions the hubs are capable of holding up to the rated torque of the disc s	Pe	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
	no ca	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

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 MDCSK41-18-18-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*: 0.25 mm)
- 2. Fully tighten the M4 screw on the first hub to the recommended seating torque of 4.6 Nm using a 3.0 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 19.2 mm.