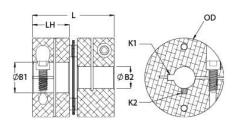




DCSK26-12-6-A

Ruland DCSK26-12-6-A, 3/4" x 3/8" Single Disc Coupling, Aluminum, Clamp Style With Keyway, 1.625" OD, 1.563" Length





Description

Ruland DCSK26-12-6-A is a clamp single disc coupling with 0.7500" x 0.3750" bores, 1.625" OD, 1.563" length, and 3/16" x 3/32" 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. DCSK26-12-6-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 DCSK26-12-6-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. DCSK26-12-6-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

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Disc Springs: Type 302 Stain Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8625	i reduct opcomoditene								
B1 Max Shaft Penetration 0.755 in B2 Max Shaft Penetration 0.755 in	Bore (B1)	0.7500 in	Small Bore (B2)	0.3750 in					
Outer Diameter (OD) 1.625 in Bore Tolerance +0.001 in / -0.000 in Length (L) 1.563 in Hub Width (LH) 0.710 in Recommended Shaft Tolerance +0.0000 in / -0.0005 in 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 45 lb-in Angular Misalignment 1.0° Dynamic Torque Non-Reversing 90 lb-in Parallel Misalignment 0.00 in Static Torque 180 lb-in Axial Motion 0.01 in Torsional Stiffness 625 lb-in/Deg Moment of Inertia 0.0955 lb-in² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-41.0 Recommended Hex Key Metric Hax Keys Full Bearing Support Required? Yes Material Specification Sulfuric Anodized MIL-A-8628 Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodize	Keyway (K1)	3/16 in	Keyway (K2)	3/32 in					
Length (L) 1.563 in Hub Width (LH) Recommended Shaft Tolerance +0.0000 in / -0.0005 in 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 45 lb-in Angular Misalignment 1.0° Dynamic Torque Non-Reversing 90 lb-in Parallel Misalignment 0.00 in Static Torque 180 lb-in Axial Motion 0.010 in Torsional Stiffness 625 lb-in/Deg Moment of Inertia 0.0955 lb-in² 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 Disc Springs: Type 302 Stain Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8628 II, Class 2 and ASTM B580 T Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.255700 UPC 634529202067 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 2 Torque ratings are tor guidance only. The user must determine suitability for a particular application 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, slipage shaft is possible below the rated torque of the disc springs. Keyways are available to provide additions shaft is possible below the rated torque of the disc springs. Keyways are available to provide additions	B1 Max Shaft Penetration	0.755 in	B2 Max Shaft Penetration	0.755 in					
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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 Aluminum Endication Disc Springs: Type 302 Staint SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8628 II, Class 2 and ASTM B580 T Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.255700UPC634529202067Tariff 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. In scases, especially when the smallest standard bores are used or where shafts are undersized, slippage shaft is possible below the rated torque of the disc springs. Keyways are available to provide additional	Axial Motion	0.010 in	Torsional Stiffness	625 lb-in/Deg					
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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 DCSK26-12-6-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 in, *Axial Motion*: 0.010 in)
- 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 0.755 in.