MDCS41-15-11-A

Ruland MDCS41-15-11-A, 15mm x 11mm Single Disc Coupling, Aluminum, Clamp Style, 41.3mm OD, 39.7mm Length

OD

Description Ruland MDCS41-15-11-A is a clamp single disc coupling with 15mm x 11mm bores, 41.3mm OD, and 39.7mm length. 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. MDCS41-15-11-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 MDCS41-15-11-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. MDCS41-15-11-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Spe	cifications
David (D4)	

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 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 2.823 x 10.° kg-m² Maximum Speed 10.000 RPM Full Bearing Support Require? Yes Torque Wrench TW:BT-IR-1/4-41.0 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum B Disc Springs: Type 302 Stainte Stell Stell Acadoze III, Class 2 and ASTM BS80 Ty Balanced Design Quart Manufacturing<	Product Specifications				
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Length (L)39.7 mmHub Width (LH)18.05 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmForged Clamp ScrewM4Screw MaterialAlloy SteelHex Wrench Size3.0 mmScrew FinishBlack OxideSeating Torque4.6 NmNumber of Screws2 eaDynamic Torque Reversing5.08 NmAngular Misalignment1.0°Dynamic Torque Reversing10.15 NmParallel Misalignment0.00 mmStatic Torque20.3 NmAxial Motion0.25 mmTorsional Stiffness70.6 Nm/DegMoment of Inertia2.823 x 10.5 kg-m²Maximum Speed10.000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-41.0Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum BDisc Springs: Type 302 Stainle SteelSteelSulfuric Anodized MIL-A-8625 II, Class 2 and ASTM B580 Ty Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.265700UPC634529151648Note 2Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular applicaticNote 3Performance ratings are for guidance only. The user must determine suitability for a particular applicaticNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In s cases, especially when the smallest stan	B1 Max Shaft Penetration	19.2 mm	B2 Max Shaft Penetration	19.2 mm	
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WARNING 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 MDCS41-15-11-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.
- 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.