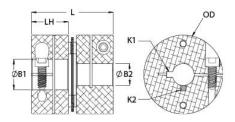




MDCSK33-13-10-A

Ruland MDCSK33-13-10-A, 13mm x 10mm Single Disc Coupling, Aluminum, Clamp Style With Keyway, 33.3mm OD, 33.3mm Length





Description

Ruland MDCSK33-13-10-A is a clamp single disc coupling with 13mm x 10mm bores, 33.3mm OD, 33.3mm length, and 5mm x 3mm 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. MDCSK33-13-10-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 MDCSK33-13-10-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. MDCSK33-13-10-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

2) 10 mm 3 mm Penetration 16.1 mm se +0.03 mm / -0.00 mm +) 15.0 mm o Screw M3 size 2.5 mm ue 2.1 Nm ue Reversing 2.83 Nm
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e +0.03 mm / -0.00 mm H) 15.0 mm Screw M3 Size 2.5 mm Ie 2.1 Nm Ue Reversing 2.83 Nm
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Screw M3 Size 2.5 mm Ie 2.1 Nm Iue Reversing 2.83 Nm
ize 2.5 mm ie 2.1 Nm ie 2.83 Nm
ue Reversing 2.83 Nm
ue Reversing 2.83 Nm
ue Non-Reversing 5.65 Nm
11.3 Nm
iness 35.4 Nm/Deg
ed 10,000 RPM
ign Yes
d Hex Key Metric Hex Keys
ification Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless Steel
cation Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize
igin USA
634529201657
31163008
r must determine suitability for a particular application.
hysical limitations/failure point of the disc springs. Under olding up to the rated torque of the disc springs. In some are used or where shafts are undersized, slippage on the 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	AWARNING 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 MDCSK33-13-10-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. (<i>Angular Misialignment:</i> 1.0°, <i>Parallel Misalignment:</i> 0.00 mm, <i>Axial Motion:</i> 0.20 mm) 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. 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. 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.