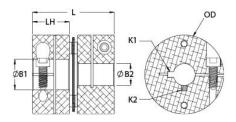




MDCSK41-19-12-A

Ruland MDCSK41-19-12-A, 19mm x 12mm Single Disc Coupling, Aluminum, Clamp Style With Keyway, 41.3mm OD, 39.7mm Length





Description

Ruland MDCSK41-19-12-A is a clamp single disc coupling with 19mm x 12mm bores, 41.3mm OD, 39.7mm length, and 6mm x 4mm 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. MDCSK41-19-12-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 MDCSK41-19-12-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. MDCSK41-19-12-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

mm nm .2 mm .03 mm / -0.00 mm .05 mm .05 mm .05 mm .0 mm .08 Nm .15 Nm .15 Nm .3 Nm .6 Nm/Deg
.2 mm .03 mm / -0.00 mm .05 mm .05 mm .0 mm .0 Nm .08 Nm .15 Nm .3 Nm
.03 mm / -0.00 mm .05 mm 4 9 mm 5 Nm 98 Nm .15 Nm .3 Nm
.05 mm 4 9 mm 3 Nm 98 Nm .15 Nm .3 Nm
4 0 mm 6 Nm 08 Nm .15 Nm .3 Nm
) mm 5 Nm 98 Nm .15 Nm .3 Nm
3 Nm 08 Nm .15 Nm .3 Nm
08 Nm .15 Nm .3 Nm
.15 Nm .3 Nm
.3 Nm
.6 Nm/Deg
,000 RPM
s
etric Hex Keys
bs: 2024-T351 Aluminum Bar, sc Springs: Type 302 Stainless eel
lfuric Anodized MIL-A-8625 Type Class 2 and ASTM B580 Type B ack Anodize
SA
4529202951
163008
lity for a particular application.
point of the disc springs. Under que of the disc springs. In some ts are undersized, slippage on th ailable 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 MDCSK41-19-12-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> 0.25 mm) 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. 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 19.2 mm.