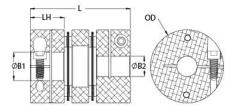




MDCDE19-8-6-A

Ruland MDCDE19-8-6-A, 8mm x 6mm Double Disc Coupling, Aluminum, Clamp Style, Electrically Isolating, 19.1mm OD, 30.2mm Length





Description

Ruland MDCDE19-8-6-A is an electrically isolating clamp double disc coupling with 8mm x 6mm bores, 19.1mm OD, and 30.2mm length. It is zero-backlash and has a balanced design for reduced vibration at high speeds. The double disc design is comprised of two anodized aluminum hubs, two sets of thin stainless steel disc springs, and an acetal center spacer allowing each disc to bend individually and accommodate all types of misalignment. The acetal center spacer isolates the two hubs preventing the incidental transfer of current from the motor to the driven component or vice versa. MDCDE19-8-6-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 MDCDE19-8-6-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. MDCDE19-8-6-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product	Specifications
D (D4)	

Outer Diameter (OD)19.1Length (L)30.2Recommended Shaft Tolerance+0.00Screw MaterialAlloy	6 mm mm 2 mm 000 mm / -0.013 mm	Small Bore (B2) B2 Max Shaft Penetration Bore Tolerance Hub Width (LH)	6 mm 14.6 mm +0.03 mm / -0.00 mm 10.6 mm
Outer Diameter (OD)19.1Length (L)30.2Recommended Shaft Tolerance+0.00Screw MaterialAlloy	mm 2 mm 000 mm / -0.013 mm	Bore Tolerance Hub Width (LH)	+0.03 mm / -0.00 mm
Length (L)30.2Recommended Shaft Tolerance+0.00Screw MaterialAlloy	2 mm 2000 mm / -0.013 mm	Hub Width (LH)	
Recommended Shaft Tolerance+0.00Screw MaterialAlloy	000 mm / -0.013 mm	· · /	10.6 mm
Screw Material Alloy			10.0 mm
	u Otaal	Forged Clamp Screw	M2.5
Screw Finish Black	y Steel	Hex Wrench Size	2.0 mm
	ck Oxide	Seating Torque	1.21 Nm
Number of Screws 2 ea	a l	Dynamic Torque Reversing	0.70 Nm
Angular Misalignment 2.0°		Dynamic Torque Non-Reversing	1.40 Nm
Parallel Misalignment 0.10) mm	Static Torque	2.8 Nm
Axial Motion 0.20) mm	Torsional Stiffness	5.8 Nm/Deg
Moment of Inertia 8.686	36 x 10 ⁻⁷ kg-m ²	Maximum Speed	10,000 RPM
Full Bearing Support Required? Yes	2	Zero-Backlash?	Yes
Balanced Design Yes	-	Torque Wrench	<u>TW:BT-1R-1/4-10.7</u>
Recommended Hex Key Metri	r <u>ic Hex Keys</u>	Material Specification	Hubs: 2024-T351 Bar, Disc Springs Type 302 Stainless Steel, Center Spacer: Acetal
Temperature -10°F	F to 150°F (-23°C to 65°C)	Finish Specification	Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize
Manufacturer Rula	and Manufacturing	Country of Origin	USA
Weight (lbs) 0.03	37700	UPC	634529089323
Tariff Code 8483	3.60.8000	UNSPC	31163008
Note 1 Stain	Stainless steel hubs are available upon request.		
Note 2 Torq	Torque ratings are at maximum misalignment.		
Note 3 Perfo	formance ratings are for guidance	e only. The user must determine sui	tability for a particular application.
norm case	nal/typical conditions the hubs ar es, especially when the smallest	re capable of holding up to the rated	lure point of the disc springs. Under torque of the disc springs. In some hafts are undersized, slippage on the available to provide additional

	assistance.		
Prop 65	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 www.P65Warnings.ca.gov .		
Installation Instructions			
	 Align the bores of the MDCDE19-8-6-A double 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>: 2.0°, <i>Parallel Misalignment</i>: 0.10 mm, <i>Axial Motion</i>: 0.20 mm) Fully tighten the M2.5 screw on the first hub to the recommended seating torque of 1.21 Nm using a 2.0 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 14.6 mm. 		