



DCDE26-10-8-A

Ruland DCDE26-10-8-A, 5/8" x 1/2" Double Disc Coupling, Aluminum, Clamp Style, Electrically Isolating, 1.625" OD, 2.165" Length





Description

Ruland DCDE26-10-8-A is an electrically isolating clamp double disc coupling with 0.6250" x 0.5000" bores, 1.625" OD, and 2.165" 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. DCDE26-10-8-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 DCDE26-10-8-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. DCDE26-10-8-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

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Prod	iuct 3	pecifi	cations

0.6250 in	Small Bore (B2)	0.5000 in
1.029 in	B2 Max Shaft Penetration	1.029 in
1.625 in	Bore Tolerance	+0.001 in / -0.000 in
2.165 in	Hub Width (LH)	0.710 in
+0.0000 in / -0.0005 in	Forged Clamp Screw	M4
Alloy Steel	Hex Wrench Size	3.0 mm
Black Oxide	Seating Torque	4.6 Nm
2 ea	Dynamic Torque Reversing	45 lb-in
2.0°	Dynamic Torque Non-Reversing	90 lb-in
0.010 in	Static Torque	180 lb-in
0.020 in	Torsional Stiffness	375 lb-in/Deg
0.1175 lb-in ²	Maximum Speed	10,000 RPM
Yes	Zero-Backlash?	Yes
Yes	Torque Wrench	TW:BT-1R-1/4-41.0
Metric Hex Keys	Material Specification	Hubs: 2024-T351 Bar, Disc Springs Type 302 Stainless Steel, Center Spacer: Acetal
-10°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
Ruland Manufacturing	Country of Origin	USA
0.333200	UPC	634529088340
8483.60.8000	UNSPC	31163008
Stainless steel hubs are available upon request.		
Torque ratings are at maximum misalignment.		
Performance ratings are for guidance only. The user must determine suitability for a particular application.		
Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the disc springs. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more		
	1.625 in 2.165 in +0.0000 in / -0.0005 in Alloy Steel Black Oxide 2 ea 2.0° 0.010 in 0.020 in 0.1175 lb-in² Yes Yes Metric Hex Keys -10°F to 150°F (-23°C to 65°C) Ruland Manufacturing 0.333200 8483.60.8000 Stainless steel hubs are available of the company of	1.625 in Bore Tolerance 2.165 in Hub Width (LH) +0.0000 in / -0.0005 in Forged Clamp Screw Alloy Steel Hex Wrench Size Black Oxide Seating Torque 2 ea Dynamic Torque Reversing 2.0° Dynamic Torque Non-Reversing 0.010 in Static Torque 0.020 in Torsional Stiffness 0.1175 lb-in² Maximum Speed Yes Zero-Backlash? Yes Torque Wrench Metric Hex Keys Material Specification Ruland Manufacturing Country of Origin 0.333200 UPC 8483.60.8000 UNSPC Stainless steel hubs are available upon request. Torque ratings are at maximum misalignment. Performance ratings are for guidance only. The user must determine su

assistance.

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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 DCDE26-10-8-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. (Angular Misialignment: 2.0°, Parallel Misalignment. 0.010 in, Axial Motion: 0.020 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 1.029 in.