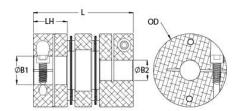




DCD32-10-8-A

Ruland DCD32-10-8-A, 5/8" x 1/2" Double Disc Coupling, Aluminum, Clamp Style, 2.000" OD, 2.519" Length





Description

Ruland DCD32-10-8-A is a clamp double disc coupling with 0.6250" x 0.5000" bores, 2.000" OD, and 2.519" 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 a center spacer allowing each disc to bend individually and accommodate all types of misalignment. DCD32-10-8-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 DCD32-10-8-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. DCD32-10-8-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

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Bore (B1)	0.6250 in	Small Bore (B2)	0.5000 in					
B1 Min Shaft Penetration	0.500 in	B2 Min Shaft Penetration	0.500 in					
B1 Max Shaft Penetration	1.192 in	B2 Max Shaft Penetration	1.192 in					
Outer Diameter (OD)	2.000 in	Bore Tolerance	+0.001 in / -0.000 in					
Length (L)	2.519 in	Hub Width (LH)	0.810 in					
Recommended Shaft Tolerance	+0.0000 in / -0.0005 in	Forged Clamp Screw	M5					
Screw Material	Alloy Steel	Hex Wrench Size	4.0 mm					
Screw Finish	Black Oxide	Seating Torque	9.5 Nm					
Number of Screws	2 ea	Dynamic Torque Reversing	87.5 lb-in					
Angular Misalignment	2.0°	Dynamic Torque Non-Reversing	175 lb-in					
Parallel Misalignment	0.012 in	Static Torque	350 lb-in					
Axial Motion	0.025 in	Torsional Stiffness	595 lb-in/Deg					
Moment of Inertia	0.3454 lb-in ²	Maximum Speed	10,000 RPM					
Full Bearing Support Required?	Yes	Zero-Backlash?	Yes					
Balanced Design	Yes	Torque Wrench	TW:BT-4C-3/8-86					
Recommended Hex Key	Metric Hex Keys	Material Specification	Hubs and Center Spacer: 2024-T351 Aluminum Bar Disc Springs: Type 302 Stainless Steel					
Temperature	-40°F to 200°F (-40°C to 93°C)	Finish Specification	Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize					
Manufacturer	Ruland Manufacturing	Country of Origin	USA					
Weight (lbs)	0.615500	UPC	634529081914					
Tariff Code	8483.60.8000	UNSPC	31163008					
Note 1	Stainless steel hubs are available upon request.							
Note 2	Torque ratings are at maximum misalignment.							
Note 3	Performance ratings are for guidance only. The user must determine suitability for a particular application							
Note 4	normal/typical conditions the hubs cases, especially when the smalle	re based on the physical limitations/fa are capable of holding up to the rated ast standard bores are used or where s orque of the disc springs. Keyways are	d torque of the disc springs. In some shafts are undersized, slippage on the					

torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance.

Prop 65

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 DCD32-10-8-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 Misalignment*: 2.0°, *Parallel Misalignment*: 0.012 in, *Axial Motion*: 0.025 in)
- 2. Fully tighten the M5 screw on the first hub to the recommended seating torque of 9.5 Nm using a 4.0 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 1.192 in.