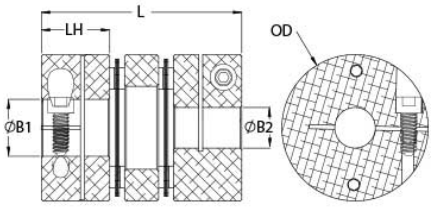
DCDE36-14-8-A

Ruland DCDE36-14-8-A, 7/8" x 1/2" Double Disc Coupling, Aluminum, Clamp Style, Electrically Isolating, 2.250" OD, 3.080" Length





Description

Ruland DCDE36-14-8-A is an electrically isolating clamp double disc coupling with 0.8750" x 0.5000" bores, 2.250" OD, and 3.080" 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. DCDE36-14-8-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 DCDE36-14-8-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. DCDE36-14-8-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	0.8750 in	**Small Bore (B2)**	0.5000 in
B1 Max Shaft Penetration	1.458 in	**B2 Max Shaft Penetration**	1.458 in
Outer Diameter (OD)	2.250 in	**Bore Tolerance**	+0.001 in / -0.000 in
Length (L)	3.080 in	**Hub Width (LH)**	1.050 in
Recommended Shaft Tolerance	+0.0000 in / -0.0005 in	**Forged Clamp Screw**	M6
Screw Material	Alloy Steel	**Hex Wrench Size**	5.0 mm
Screw Finish	Black Oxide	**Seating Torque**	16 Nm
Number of Screws	2 ea	**Dynamic Torque Reversing**	112.5 lb-in
Angular Misalignment	2.0°	**Dynamic Torque Non-Reversing**	225 lb-in
Parallel Misalignment	0.012 in	**Static Torque**	450 lb-in
Axial Motion	0.030 in	**Torsional Stiffness**	769 lb-in/Deg
Moment of Inertia	0.6137 lb-in^2	**Maximum Speed**	10,000 RPM
Full Bearing Support Required?	Yes	**Zero-Backlash?**	Yes
Balanced Design	Yes	**Torque Wrench**	TW:BT-4C-3/8-140
Recommended Hex Key	Metric Hex Keys	**Material Specification**	Hubs: 2024-T351 Bar, Disc Springs: Type 302 Stainless Steel, Center Spacer: Acetal
Temperature	-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
Manufacturer	Ruland Manufacturing	**Country of Origin**	USA
Weight (lbs)	0.865300	**UPC**	634529091272
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	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		

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

1. Align the bores of the DCDE36-14-8-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*: 0.012 in, *Axial Motion*: 0.030 in)
2. Fully tighten the M6 screw on the first hub to the recommended seating torque of 16 Nm using a 5.0 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 1.458 in.