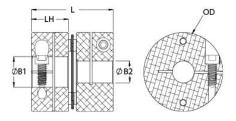




DCS36-14-8-A

Ruland DCS36-14-8-A, 7/8" x 1/2" Single Disc Coupling, Aluminum, Clamp Style, 2.250" OD, 2.313" Length





Description

Ruland DCS36-14-8-A is a clamp single disc coupling with 0.8750" x 0.5000" bores, 2.250" OD, and 2.313" length. 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. DCS36-14-8-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 DCS36-14-8-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. DCS36-14-8-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

0.8750 in	Small Bore (B2)	0.5000 in
1.085 in	B2 Max Shaft Penetration	1.085 in
2.250 in	Bore Tolerance	+0.001 in / -0.000 in
2.313 in	Hub Width (LH)	1.050 in
+0.0000 in / -0.0005 in	Forged Clamp Screw	M6
Alloy Steel	Hex Wrench Size	5.0 mm
Black Oxide	Seating Torque	16 Nm
2 ea	Dynamic Torque Reversing	112.5 lb-in
1.0°	Dynamic Torque Non-Reversing	225 lb-in
0.00 in	Static Torque	450 lb-in
0.015 in	Torsional Stiffness	1000 lb-in/Deg
0.5179 lb-in ²	Maximum Speed	10,000 RPM
Yes	Zero-Backlash?	Yes
Yes	Torque Wrench	<u>TW:BT-4C-3/8-140</u>
Metric Hex Keys	Material Specification	Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless Steel
-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
Ruland Manufacturing	Country of Origin	USA
0.750800	UPC	634529091487
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.		
<u> </u>	re based on the physical limitations/fa	
	2.250 in 2.313 in +0.0000 in / -0.0005 in Alloy Steel Black Oxide 2 ea 1.0° 0.00 in 0.015 in 0.5179 lb-in ² Yes Yes Metric Hex Keys -40°F to 200°F (-40°C to 93°C) Ruland Manufacturing 0.750800 8483.60.8000 Stainless steel hubs are available	2.250 inBore Tolerance2.313 inHub Width (LH)+0.0000 in / -0.0005 inForged Clamp ScrewAlloy SteelHex Wrench SizeBlack OxideSeating Torque2 eaDynamic Torque Reversing1.0°Dynamic Torque Non-Reversing0.00 inStatic Torque0.00 inStatic Torque0.015 inTorsional Stiffness0.5179 lb-in²Maximum SpeedYesZero-Backlash?YesTorque WrenchMetric Hex KeysMaterial Specification-40°F to 200°F (-40°C to 93°C)Finish SpecificationRuland ManufacturingCountry of Origin0.750800UPC8483.60.8000UNSPCStainless steel hubs are available upon request.

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 <u>www.P65Warnings.ca.gov</u>.

Installation Instructions

- Align the bores of the DCS36-14-8-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. (*Angular Misialignment:* 1.0°, *Parallel Misalignment:* 0.00 in, *Axial Motion:* 0.015 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.
- 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 1.085 in.