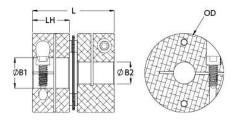




DCS26-3/4"-10MM-A

Ruland DCS26-3/4"-10MM-A, 3/4" x 10mm Single Disc Coupling, Aluminum, Clamp Style, 1.625" (41.3mm) OD, 1.563" (39.7mm) Length





Description

Ruland DCS26-3/4"-10MM-A is a clamp single disc coupling with 0.7500" x 10mm bores, 1.625" (41.3mm) OD, and 1.563" (39.7mm) 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. DCS26-3/4"-10MM-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 DCS26-3/4"-10MM-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. DCS26-3/4"-10MM-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

	· · · ·	10 mm
0.755 in (19.2 mm)	B2 Max Shaft Penetration	0.755 in (19.2 mm)
1.625 in (41.3 mm)	Bore Tolerance	+0.001 in / -0.000 in (+0.03 mm /
		-0.00 mm)
1.563 in (39.7 mm)	Hub Width (LH)	0.710 in (18.0 mm)
+0.0000 / -0.0005 " (+0.000 / -0.013	Forged Clamp Screw	M4
mm)		
Alloy Steel	Hex Wrench Size	3.0 mm
Black Oxide	Seating Torque	4.6 Nm
2 ea	Dynamic Torque Reversing	45 lb-in (5.08 Nm)
1.0°	Dynamic Torque Non-Reversing	90 lb-in (10.15 Nm)
0.000 in (0.00 mm)	Static Torque	180 lb-in (20.3 Nm)
0.010 in (0.25 mm)	Torsional Stiffness	625 lb-in/Deg (70.6 Nm/Deg)
0.0952 lb-in ² (2.787 x 10 ⁻⁵ kg-m ²)	Maximum Speed	10,000 RPM
Yes	Zero-Backlash?	Yes
Yes	Torque Wrench	<u>TW:BT-1R-1/4-41.0</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
0.256200	UPC	634529151426
8483.60.8000	UNSPC	31163008
Performance ratings are for guidance only. The user must determine suitability for a particular application.		
		1 1 0
cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the		
	1.563 in (39.7 mm) $+0.0000 / -0.0005$ " ($+0.000 / -0.013$ mm) Alloy Steel Black Oxide 2 ea 1.0° 0.000 in (0.00 mm) 0.010 in (0.25 mm) 0.0952 lb-in ² (2.787 x 10 ⁻⁵ kg-m ²) Yes Yes Metric Hex Keys -40°F to 200°F (-40°C to 93°C) Ruland Manufacturing 0.256200 8483.60.8000 Stainless steel hubs are available u Torque ratings are at maximum mis Performance ratings are for guidant Torque ratings for the couplings are normal/typical conditions the hubs are	0.755 in (19.2 mm) B2 Max Shaft Penetration 1.625 in (41.3 mm) Bore Tolerance 1.563 in (39.7 mm) Hub Width (LH) +0.0000 / -0.0005 " (+0.000 / -0.013 Forged Clamp Screw mm) Alloy Steel Alloy Steel Hex Wrench Size Black Oxide Seating Torque 2 ea Dynamic Torque Reversing 1.0° Dynamic Torque Non-Reversing 0.000 in (0.00 mm) Static Torque 0.001 in (0.25 mm) Torsional Stiffness 0.0952 lb-in² (2.787 x 10 ⁻⁵ kg-m²) Maximum Speed Yes Zero-Backlash? Yes Torque Wrench Metric Hex Keys Material Specification -40°F to 200°F (-40°C to 93°C) Finish Specification Ruland Manufacturing Country of Origin 0.256200 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 Torque ratings for the couplings are based on the physical limitations/fa normal/typical conditions the hubs are capable of holding up to the rated <

	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	AWARNING 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 DCS26-3/4"-10MM-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. (<i>Angular</i> <i>Misialignment:</i> 1.0°, <i>Parallel Misalignment:</i> 0.00 in (0.00 mm), <i>Axial Motion:</i> 0.010 in (0.25 mm)) 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. 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 0.755 in (19.2 mm). 	