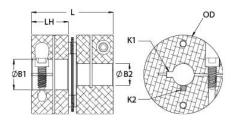




## DCSK26-8-8-A

Ruland DCSK26-8-8-A, 1/2" x 1/2" Single Disc Coupling, Aluminum, Clamp Style With Keyway, 1.625" OD, 1.563" Length





## Description

Ruland DCSK26-8-8-A is a clamp single disc coupling with 0.5000" x 0.5000" bores, 1.625" OD, 1.563" length, and 1/8" x 1/8" keyways. It is zerobacklash 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. DCSK26-8-8-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 DCSK26-8-8-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. DCSK26-8-8-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications	Product	Specifi	cations
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Product Specifications			
Bore (B1)	0.5000 in	Small Bore (B2)	0.5000 in
Keyway (K1)	1/8 in	Keyway (K2)	1/8 in
B1 Max Shaft Penetration	0.755 in	B2 Max Shaft Penetration	0.755 in
Outer Diameter (OD)	1.625 in	Bore Tolerance	+0.001 in / -0.000 in
Length (L)	1.563 in	Hub Width (LH)	0.710 in
Recommended Shaft Tolerance	+0.0000 in / -0.0005 in	Forged Clamp Screw	M4
Screw Material	Alloy Steel	Hex Wrench Size	3.0 mm
Screw Finish	Black Oxide	Seating Torque	4.6 Nm
Number of Screws	2 ea	Dynamic Torque Reversing	45 lb-in
Angular Misalignment	1.0°	Dynamic Torque Non-Reversing	90 lb-in
Parallel Misalignment	0.00 in	Static Torque	180 lb-in
Axial Motion	0.010 in	Torsional Stiffness	625 lb-in/Deg
Moment of Inertia	0.0971 lb-in <sup>2</sup>	Maximum Speed	10,000 RPM
Zero-Backlash?	Yes	Balanced Design	Yes
Torque Wrench	TW:BT-1R-1/4-41.0	Recommended Hex Key	Metric Hex Keys
Full Bearing Support Required?	Yes	Material Specification	Hubs: 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)	0.267000	UPC	634529202494
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 smalles shaft is possible below the rated to	e based on the physical limitations/fa are capable of holding up to the rated st standard bores are used or where s rque of the disc springs. Keyways are nnection when required. Please cons	d torque of the disc springs. In some shafts are undersized, slippage on the e available to provide additional

	assistance.			
Prop 65	<b>WARNING</b> 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				
	<ol> <li>Align the bores of the DCSK26-8-8-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. (<i>Angular Misialignment:</i> 1.0°, <i>Parallel Misalignment:</i> 0.00 in, <i>Axial Motion:</i> 0.010 in)</li> <li>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.</li> <li>Before tightening the screw on the second hub, rotate the coupling by hand to allow it to reach its free length.</li> <li>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.</li> <li>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.</li> </ol>			