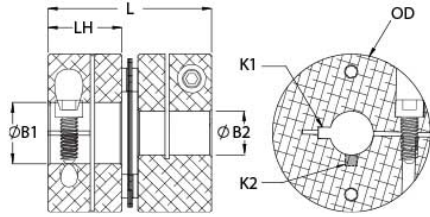




## DCSK26-20MM-3/4"-A

Ruland DCSK26-20MM-3/4"-A, 20mm x 3/4" Single Disc Coupling, Aluminum, Clamp Style With Keyway, 1.625" (41.3mm) OD, 1.563" (39.7mm) Length



### Description

Ruland DCSK26-20MM-3/4"-A is a clamp single disc coupling with 20mm x 0.7500" bores, 1.625" (41.3mm) OD, 1.563" (39.7mm) length, and 6mm x 3/16" keyways. 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. DCSK26-20MM-3/4"-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 DCSK26-20MM-3/4"-A to be torsionally 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. DCSK26-20MM-3/4"-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

### Product Specifications

<b>Bore (B1)</b>	20 mm	<b>Small Bore (B2)</b>	0.7500 in
<b>Keyway (K1)</b>	6 mm	<b>Keyway (K2)</b>	3/16 in
<b>B1 Max Shaft Penetration</b>	0.755 in (19.2 mm)	<b>B2 Max Shaft Penetration</b>	0.755 in (19.2 mm)
<b>Outer Diameter (OD)</b>	1.625 in (41.3 mm)	<b>Bore Tolerance</b>	+0.001 in / -0.000 in (+0.03 mm / -0.00 mm)
<b>Length (L)</b>	1.563 in (39.7 mm)	<b>Hub Width (LH)</b>	0.710 in (18.05 mm)
<b>Recommended Shaft Tolerance</b>	+0.0000 / -0.0005 " (+0.000 / -0.013 mm)		
<b>Screw Material</b>	Alloy Steel	<b>Forged Clamp Screw</b>	M4
<b>Screw Finish</b>	Black Oxide	<b>Hex Wrench Size</b>	3.0 mm
<b>Number of Screws</b>	2 ea	<b>Seating Torque</b>	4.6 Nm
<b>Angular Misalignment</b>	1.0°	<b>Dynamic Torque Reversing</b>	45 lb-in (5.08 Nm)
<b>Parallel Misalignment</b>	0.000 in (0.00 mm)	<b>Dynamic Torque Non-Reversing</b>	90 lb-in (10.15 Nm)
<b>Axial Motion</b>	0.010 in (0.25 mm)	<b>Static Torque</b>	180 lb-in (20.3 Nm)
<b>Moment of Inertia</b>	0.0927 lb-in <sup>2</sup> (2.713 x 10 <sup>-5</sup> kg-m <sup>2</sup> )	<b>Torsional Stiffness</b>	625 lb-in/Deg (70.6 Nm/Deg)
<b>Zero-Backlash?</b>	Yes	<b>Maximum Speed</b>	10,000 RPM
<b>Torque Wrench</b>	<a href="#">TW:BT-1R-1/4-41.0</a>	<b>Balanced Design</b>	Yes
<b>Full Bearing Support Required?</b>	Yes	<b>Recommended Hex Key</b>	<a href="#">Metric Hex Keys</a>
		<b>Material Specification</b>	Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless Steel
<b>Temperature</b>	-40°F to 200°F (-40°C to 93°C)	<b>Finish Specification</b>	Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize
<b>Manufacturer</b>	Ruland Manufacturing	<b>Country of Origin</b>	USA
<b>Weight (lbs)</b>	0.228500	<b>UPC</b>	634529202289
<b>Tariff Code</b>	8483.60.8000	<b>UNSPC</b>	31163008
<b>Note 1</b>	Stainless steel hubs are available upon request.		
<b>Note 2</b>	Torque ratings are at maximum misalignment.		
<b>Note 3</b>	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
<b>Note 4</b>	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.

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**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](http://www.P65Warnings.ca.gov).

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**Installation Instructions**

1. Align the bores of the DCSK26-20MM-3/4"-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 Misalignment: 1.0°, Parallel Misalignment: 0.00 in (0.00 mm), Axial Motion: 0.010 in (0.25 mm)*)
  2. 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.
  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 0.755 in (19.2 mm).
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