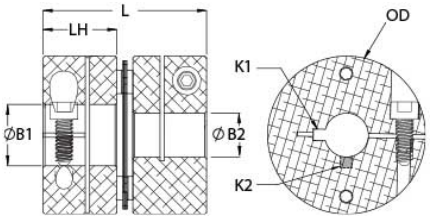
# DCSK36-7/8"-15MM-A

Ruland DCSK36-7/8"-15MM-A, 7/8" x 15mm Single Disc Coupling, Aluminum, Clamp Style With Keyway, 2.250" (57.2mm) OD, 2.313" (58.8mm) Length






## Description

Ruland DCSK36-7/8"-15MM-A is a clamp single disc coupling with 0.8750" x 15mm bores, 2.250" (57.2mm) OD, 2.313" (58.8mm) length, and 3/16" x 5mm 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. DCSK36-7/8"-15MM-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 DCSK36-7/8"-15MM-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. DCSK36-7/8"-15MM-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

## Product Specifications

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|---|---|---|---|
| **Bore (B1)** | 0.8750 in | **Small Bore (B2)** | 15 mm |
| **Keyway (K1)** | 3/16 in | **Keyway (K2)** | 5 mm |
| **B1 Max Shaft Penetration** | 1.085 in (27.6 mm) | **B2 Max Shaft Penetration** | 1.085 in (27.6 mm) |
| **Outer Diameter (OD)** | 2.250 in (57.2 mm) | **Bore Tolerance** | +0.001 in / -0.000 in (+0.03 mm / -0.00 mm) |
| **Length (L)** | 2.313 in (58.8 mm) | **Hub Width (LH)** | 1.050 in (26.67 mm) |
| **Recommended Shaft Tolerance** | +0.0000 / -0.0005 " (+0.000 / -0.013 mm) | **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 (12.73 Nm) |
| **Angular Misalignment** | 1.0° | **Dynamic Torque Non-Reversing** | 225 lb-in (25.45 Nm) |
| **Parallel Misalignment** | 0.000 in (0.00 mm) | **Static Torque** | 450 lb-in (50.9 Nm) |
| **Axial Motion** | 0.015 in (0.38 mm) | **Torsional Stiffness** | 1000 lb-in/Deg (113.0 Nm/Deg) |
| **Moment of Inertia** | 0.5180 lb-in$^2$ (1.516 x 10$^{-4}$ kg-m$^2$) | **Maximum Speed** | 10,000 RPM |
| **Zero-Backlash?** | Yes | **Balanced Design** | Yes |
| **Torque Wrench** | TW:BT-4C-3/8-140 | **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)** | 0.740100 | **UPC** | 634529205709 |
| **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 DCSK36-7/8"-15MM-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 (0.00 mm), *Axial Motion*: 0.015 in (0.38 mm))
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 1.085 in (27.6 mm).