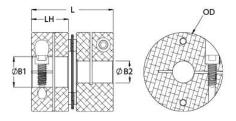




DCS12-5-5-A

Ruland DCS12-5-5-A, 5/16" x 5/16" Single Disc Coupling, Aluminum, Clamp Style, 0.750" OD, 0.906" Length





Description

Ruland DCS12-5-5-A is a clamp single disc coupling with 0.3125" x 0.3125" bores, 0.750" OD, and 0.906" 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. DCS12-5-5-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 DCS12-5-5-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. DCS12-5-5-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

B1 Max Shaft Penetration 0.442 in B2 Max Shaft Penetration 0.442 in Outer Diameter (OD) 0.750 in Bore Tolerance +0.001 in /-0.000 in Length (L) 0.906 in Hub Width (LH) 0.418 in Recommended Shaft Tolerance +0.0000 in /-0.0005 in Forged Clamp Screw M2.5 Screw Material Alloy Steel Hex Wrench Size 2.0 mm Screw Finish Black Oxide Seating Torque Reversing 6.25 lb-in Angular Misalignment 1.0° Dynamic Torque Reversing 6.25 lb-in Angular Misalignment 0.000 in Static Torque 25 lb-in Axial Motion 0.002 lb-in ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R:1/4-10.7 Recommended Hex Key Metric Hex Keys 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 Maufacturer Ruland Manufacturing Country of Orig	Product Specifications			
Outer Diameter (OD) 0.750 in Bore Tolerance +0.001 in /-0.000 in Length (L) 0.906 in Hub Width (LH) 0.418 in Recommended Shaft Tolerance +0.0000 in /-0.0005 in Forged Clamp Screw M2.5 Screw Material Alloy Steel Hex Wrench Size 2.0 mm Screw Material Black Oxide Seating Torque 1.21 Nm Number of Screws 2 ea Dynamic Torque Reversing 6.25 lb-in Angular Misalignment 1.0° Dynamic Torque Non-Reversig 12.5 lb-in Parallel Misalignment 0.00 in Static Torque 25 lb-in Axial Motion 0.004 in Torsional Stiffness 71 lb-in/Deg Moment of Inertia 0.0025 lb-in ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW/BT-1R-1/4-10.7 Recommended Hex Key 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 E Black Anodize <t< th=""><th>Bore (B1)</th><th>0.3125 in</th><th>Small Bore (B2)</th><th>0.3125 in</th></t<>	Bore (B1)	0.3125 in	Small Bore (B2)	0.3125 in
Length (L)0.906 inHub Width (LH)0.418 inRecommended Shaft Tolerance+0.0000 in / -0.0005 inForged Clamp ScrewM2.5Screw MaterialAlloy SteelHex Wrench Size2.0 mmScrew FinishBlack OxideSeating Torque1.21 NmNumber of Screws2 eaDynamic Torque Reversing6.25 lb-inAngular Misalignment1.0°Dynamic Torque Reversing12.5 lb-inAxial Motion0.00 inStatic Torque25 lb-inAxial Motion0.004 inTorsional Stiffness77 lb-in/DegMoment of Inertia0.0025 lb-in²Maximum Speed10.000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-10.7Recommended Hex KeyMetric Hex KeysMaterial SpecificationSulfuric Anodized MIL-A-8625 Typ II, Class 2 and ASTM B580 Type E Black AnodizeTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8625 Typ II, Class 2 and ASTM B580 Type E Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.030700UPC634529082164Note 3Performance ratings are at maximum misalignment.Note 3Note 4Torque ratings are at maximum misalignment.Note servings. Index springs. Servings. Under normal/sprical conditions the hubs are capable of holding up to the rated torque of the disc	B1 Max Shaft Penetration	0.442 in	B2 Max Shaft Penetration	0.442 in
Recommended Shaft Tolerance +0.0000 in / -0.0005 in Forged Clamp Screw M2.5 Screw Material Alloy Steel Hex Wrench Size 2.0 mm Screw Finish Black Oxide Seating Torque Reversing 6.25 lb-in Number of Screws 2 ea Dynamic Torque Reversing 6.25 lb-in Angular Misalignment 1.0° Dynamic Torque Reversing 12.5 lb-in Axial Motion 0.00 in Static Torque 25 lb-in Axial Motion 0.0025 lb-in ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW/ST-1R:1/4-10.7 Recommended Hex Key Metric Hex Keys Material Specification Ubics 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 E Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.030700 UPC 634529082164 Tariff Code 8483.60.8000<	Outer Diameter (OD)	0.750 in	Bore Tolerance	+0.001 in / -0.000 in
Screw Material Alloy Steel Hex Wrench Size 2.0 mm Screw Finish Black Oxide Seating Torque 1.21 Nm Number of Screws 2 ea Dynamic Torque Reversing 6.25 lb-in Angular Misalignment 1.0° Dynamic Torque Roon-Reversing 1.25 lb-in Parallel Misalignment 0.00 in Static Torque 25 lb-in Axial Motion 0.004 in Torsional Stiffness 77 lb-in/Deg Moment of Inertia 0.0025 lb-in ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-IR-1/4-10.7 Recommended Hex Key Metric Hex Keys 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 Suffuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.030700 UPC 634529082164 Tariff Code 8483.60.8000 UNSPC 31163008 Note	Length (L)	0.906 in	Hub Width (LH)	0.418 in
Screw Finish Black Oxide Seating Torque 1.21 Nm Number of Screws 2 ea Dynamic Torque Reversing 6.25 lb-in Angular Misalignment 1.0° Dynamic Torque Non-Reversing 12.5 lb-in Parallel Misalignment 0.00 in Static Torque 25 lb-in Axial Motion 0.004 in Torsional Stiffness 77 lb-in/Deg Moment of Inertia 0.0025 lb-in ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys 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 Typ II, Class 2 and ASTM B580 Type B Black Anodize Maufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.030700 UPC 634529082164 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 1 Torque ratings are at maximum	Recommended Shaft Tolerance	+0.0000 in / -0.0005 in	Forged Clamp Screw	M2.5
Number of Screws 2 ea Dynamic Torque Reversing 6.25 lb-in Angular Misalignment 1.0° Dynamic Torque Non-Reversing 12.5 lb-in Parallel Misalignment 0.00 in Static Torque 25 lb-in Axial Motion 0.004 in Torsional Stiffness 77 lb-in/Deg Moment of Inertia 0.0025 lb-in² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys 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 Typ II, Class 2 and ASTM B580 Type B Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.030700 UPC 634529082164 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 3 Note 2 Torque ratings are a	Screw Material	Alloy Steel	Hex Wrench Size	2.0 mm
Angular Misalignment 1.0° Dynamic Torque Non-Reversing 12.5 lb-in Parallel Misalignment 0.00 in Static Torque 25 lb-in Axial Motion 0.004 in Torsional Stiffness 77 lb-in/Deg Moment of Inertia 0.0025 lb-in ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys 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 Typ II, Class 2 and ASTM B580 Type B Black Anodize Maufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.30700 UPC 634529082164 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 3 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	Screw Finish	Black Oxide	Seating Torque	1.21 Nm
Parallel Misalignment 0.00 in Static Torque 25 lb-in Axial Motion 0.004 in Torsional Stiffness 77 lb-in/Deg Moment of Inertia 0.0025 lb-in ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-IR-1/4-10.7 Recommended Hex Key Metric Hex Keys 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 Typ II, Class 2 and ASTM B580 Type B Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.030700 UPC 634529082164 Tariff Code 8433.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. 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	Number of Screws	2 ea	Dynamic Torque Reversing	6.25 lb-in
Axial Motion0.004 inTorsional Stiffness77 lb-in/DegMoment of Inertia0.0025 lb-in²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-10.7Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8625 Typ II, Class 2 and ASTM B580 Type BManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.030700UPC634529082164Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular application.Note 4Torque 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 to shaft is possible below 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 to shaft is possible below 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 to shaft is possible below the rated torque of the disc springs. In some cases, e	Angular Misalignment	1.0°	Dynamic Torque Non-Reversing	12.5 lb-in
Moment of Inertia 0.0025 lb-in ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys 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 Typ II, Class 2 and ASTM B580 Type Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.030700 UPC 634529082164 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. 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 <td>Parallel Misalignment</td> <td>0.00 in</td> <td>Static Torque</td> <td>25 lb-in</td>	Parallel Misalignment	0.00 in	Static Torque	25 lb-in
Full Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-10.7Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.030700UPC634529082164Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular application.Note 4Torque 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	Axial Motion	0.004 in	Torsional Stiffness	77 lb-in/Deg
Balanced DesignYesTorque WrenchTW:BT-1R-1/4-10.7Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.030700UPC634529082164Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 2Torque ratings are at maximum misalignment.Torque ratings for the couplings are base 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 th 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	Moment of Inertia	0.0025 lb-in ²	Maximum Speed	10,000 RPM
Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8625 Typ II, Class 2 and ASTM B580 Type B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.030700UPC634529082164Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 2Torque ratings are for guidance only. The user must determine suitability for a particular application.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular application.Note 4Torque 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. 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	Full Bearing Support Required?	Yes	Zero-Backlash?	Yes
Disc Springs: Type 302 Stainless SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.030700UPC634529082164Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 2Torque ratings are at maximum misalignment.Note 3Note 3Performance ratings are for guidance only. The user must determine suitability for a particular application.Note 4Torque 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. 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	Balanced Design	Yes	Torque Wrench	<u>TW:BT-1R-1/4-10.7</u>
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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

- 1. Align the bores of the DCS12-5-5-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:* 0.004 in)
- 2. Fully tighten the M2.5 screw on the first hub to the recommended seating torque of 1.21 Nm using a 2.0 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 0.442 in.