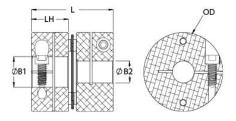




DCS16-4-4-A

Ruland DCS16-4-4-A, 1/4" x 1/4" Single Disc Coupling, Aluminum, Clamp Style, 1.000" OD, 1.031" Length





Description

Ruland DCS16-4-4-A is a clamp single disc coupling with 0.2500" x 0.2500" bores, 1.000" OD, and 1.031" 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. DCS16-4-4-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 DCS16-4-4-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. DCS16-4-4-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Disc Springs: Type 302 Stair SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 T Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.066300UPC634529082171Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 2Torque ratings are at maximum misalignment.Note 3Note 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In ormal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippage shaft is possible below the rated torque of the disc springs. Keyways are available to provide additionationation to request.	Product Specifications			
Outer Diameter (OD) 1.000 in Bore Tolerance +0.001 in / -0.000 in Length (L) 1.031 in Hub Width (LH) 0.467 in Recommended Shaft Tolerance +0.0000 in / -0.0005 in Forged Clamp Screw M3 Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Material Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 12.5 lb-in Angular Misalignment 1.0° Dynamic Torque Non-Reversing 25 lb-in Parallel Misalignment 0.00 in Static Torque 50 lb-in Axial Motion 0.006 in Torsional Stiffness 94 lb-in/Deg Moment of Inertia 0.008 lb-in ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric: Hex Keys Material Specification Sulfuric Anodized MIL-A-862 II, Class 2 and ASTM ES80 Torque Sulfuric Anodized MIL-A-862 II, Class 2 and ASTM ES80 Torgue Maufacturer Ruland Manufacturing Country of Origin USA Meight (Ibs) 0.66300 UPC 634529082171 Tariff Code	Bore (B1)	0.2500 in	Small Bore (B2)	0.2500 in
Length (L) 1.031 in Hub Width (LH) 0.467 in Recommended Shaft Tolerance +0.0000 in /-0.0005 in Forged Clamp Screw M3 Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 12.5 lb-in Angular Misalignment 1.0° Dynamic Torque Reversing 25 lb-in Parallel Misalignment 0.00 in Static Torque 50 lb-in Axial Motion 0.006 in Torsional Stiffness 94 lb-in/Deg Moment of Inertia 0.0089 lb-in ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Disc Springs: Type 302 Stair Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-862 Manufacturier Ruland Manufacturing Country of Origin USA Weight (lbs) 0.066300	B1 Max Shaft Penetration	0.499 in	B2 Max Shaft Penetration	0.499 in
Recommended Shaft Tolerance +0.0000 in /-0.0005 in Forged Clamp Screw M3 Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 12.5 lb-in Angular Misalignment 1.0° Dynamic Torque Non-Reversing 25 lb-in Parallel Misalignment 0.00 in Static Torque 50 lb-in Axial Motion 0.006 in Torsional Stiffness 94 lb-in/Deg Moment of Inertia 0.009 lb-in ² Maximum Speed 10.000 RPM Full Bearing Support Required? Yes Torque Wrench TW:BT-IR-1/4-18.3 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Disc Springs: Type 302 Stair Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 TB Black Anodize Weight (lbs) 0.066300 UPC 634529082171 Stainless steel hubs are available upon request. Note 2 Torque ratings are at maximum misalignment. Note 3 Performance ratings are at maximum misalignment. <td< td=""><td>Outer Diameter (OD)</td><td>1.000 in</td><td>Bore Tolerance</td><td>+0.001 in / -0.000 in</td></td<>	Outer Diameter (OD)	1.000 in	Bore Tolerance	+0.001 in / -0.000 in
Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 12.5 lb-in Angular Misalignment 1.0° Dynamic Torque Non-Reversing 25 lb-in Parallel Misalignment 0.00 in Static Torque 50 lb-in Axial Motion 0.006 in Torsional Stiffness 94 lb-in/Deg Moment of Inertia 0.0089 lb-in ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW/BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Disc Springs: Type 302 Stair Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 TBlack Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.066300 UPC 634529082171 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainles	Length (L)	1.031 in	Hub Width (LH)	0.467 in
Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 12.5 lb-in Angular Misalignment 1.0° Dynamic Torque Non-Reversing 25 lb-in Parallel Misalignment 0.00 in Static Torque 50 lb-in Axial Motion 0.006 in Torsional Stiffness 94 lb-in/Deg Moment of Inertia 0.008 jb-in² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW/BT-IR:1/4-18.3 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Disc Springs: Type 302 Stair Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 To Black Anodize Maufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.066300 UPC 634529082171 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon r	Recommended Shaft Tolerance	+0.0000 in / -0.0005 in	Forged Clamp Screw	M3
Number of Screws2 eaDynamic Torque Reversing12.5 lb-inAngular Misalignment1.0°Dynamic Torque Non-Reversing25 lb-inParallel Misalignment0.00 inStatic Torque50 lb-inAxial Motion0.006 inTorsional Stiffness94 lb-in/DegMoment of Inertia0.0089 lb-in²Maximum Speed10.000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-18.3Recommended Hex KeyMetric Hax KeysMaterial SpecificationHubs: 2024-T351 Aluminum Disc Springs: Type 302 Stair SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 T Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.066300UPC634529082171Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 1Note 2Torque ratings are for guidance only. The user must determine suitability for a particular applicaNote 3Performance ratings are for guidance only. The user must determine suitability for a particular applicaNote 4Torque ratings for the couplings are based of holding up to the rated torque of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippag anormal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In cases, especially when the smallest standard	Screw Material	Alloy Steel	Hex Wrench Size	2.5 mm
Angular Misalignment 1.0° Dynamic Torque Non-Reversing 25 lb-in Parallel Misalignment 0.00 in Static Torque 50 lb-in Axial Motion 0.006 in Torsional Stiffness 94 lb-in/Deg Moment of Inertia 0.0089 lb-in² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-IR-1/4-18.3 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Disc Springs: Type 302 Stair Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 To Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.066300 UPC 634529082171 Tariff Code 8483.60.8000 USPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 2 Note 2 Torque ratings are at maximum misalignment. Note 4 Note 4 Torque ratings are for guidance only. The user must determine suitability for a particular applica normal/typical conditions the hubs are capable of hol	Screw Finish	Black Oxide	Seating Torque	2.1 Nm
Parallel Misalignment0.00 inStatic Torque50 lb-inAxial Motion0.006 inTorsional Stiffness94 lb-in/DegMoment of Inertia0.0089 lb-in²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-IR-1/4-18.3Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum Disc Springs: Type 302 Stair SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 T Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.066300UPC634529082171Tariff 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 applicaNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In crases, especially when the smallest standard bores are used or where shafts are undersized, slippag shaft is possible below the rated torque of the disc springs. In crases, especially when the smallest standard bores are used or where shafts are undersized, slippag shaft is possible below the rated torque of the disc springs. In crases, especially when the smallest standard bores are used or where shafts are undersized, slippag shaft is possible below the rated torque of the disc springs. In crases, especially when th	Number of Screws	2 ea	Dynamic Torque Reversing	12.5 lb-in
Axial Motion 0.006 in Torsional Stiffness 94 lb-in/Deg Moment of Inertia 0.0089 lb-in ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW-BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Aluminum Disc Springs: Type 302 Stair Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 TBlack Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.066300 UPC 634529082171 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 2 Note 3 Performance ratings are for guidance only. The user must determine suitability for a particular applica Nordity for que ratings for the couplings are based on the physical limitations/failure point of the disc springs. In cases, especially when the smalleds standard bores are used or where shafts are undersized, slippag shaft is possible below the rated torque of the disc springs. Keyways are available to provide additiona torque capacity in the shaft/hub connection when required. Please consult technical support for more <td>Angular Misalignment</td> <td>1.0°</td> <td>Dynamic Torque Non-Reversing</td> <td>25 lb-in</td>	Angular Misalignment	1.0°	Dynamic Torque Non-Reversing	25 lb-in
Moment of Inertia0.0089 lb-in²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-18.3Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum Disc Springs: Type 302 Stair SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 T Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.066300UPC634529082171Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 3Performance ratings are for guidance only. The user must determine suitability for a particular applica normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. normal/typical conditions the hubs are used or where shafts are undersized, slippag shaft is possible below the rated torque of the disc springs. Recomment. Note a stain is possible below the rated torque of the disc springs. Note a diditions torque capacity in the shaft/hub connection when required. Please consult technical support for more	Parallel Misalignment	0.00 in	Static Torque	50 lb-in
Full Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-18.3Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum Disc Springs: Type 302 Stair SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 T Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.066300UPC634529082171Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Vote 2Note 2Torque ratings are at maximum misalignment.Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippagu shaft is possible below the rated torque of the disc springs. Keyways are available to provide additiona torque capacity in the shaft/hub connection when required. Please consult technical support for more	Axial Motion	0.006 in	Torsional Stiffness	94 lb-in/Deg
Balanced DesignYesTorque WrenchTW:BT-1R-1/4-18.3Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum Disc Springs: Type 302 Stair SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 T Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.066300UPC634529082171Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 3Performance ratings are for guidance only. The user must determine suitability for a particular applica normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. normal/typical conditions the hubs are used on where shafts are undersized, slippag shaft is possible below the rated torque of the disc springs. Keyways are available to provide additiona torque capacity in the shaft/hub connection when required. Please consult technical support for more	Moment of Inertia	0.0089 lb-in ²	Maximum Speed	10,000 RPM
Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum Disc Springs: Type 302 Stair SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 T Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.066300UPC634529082171Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 2Torque ratings are at maximum misalignment.Vorgen application of the disc springs.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular applicaNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippag shaft is possible below the rated torque of the disc springs. Keyways are available to provide additiona torque capacity in the shaft/hub connection when required. Please consult technical support for more	Full Bearing Support Required?	Yes	Zero-Backlash?	Yes
Temperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-862 II, Class 2 and ASTM B580 T Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.066300UPC634529082171Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular applicaNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In ormal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippage shaft is possible below the rated torque of the disc springs. Keyways are available to provide additionation torque capacity in the shaft/hub connection when required. Please consult technical support for more	Balanced Design	Yes	Torque Wrench	<u>TW:BT-1R-1/4-18.3</u>
II, Class 2 and ASTM B580 T Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.066300UPC634529082171Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular applicaNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippage shaft is possible below the rated torque of the disc springs. Keyways are available to provide additionat torque capacity in the shaft/hub connection when required. Please consult technical support for more	Recommended Hex Key	Metric Hex Keys	Material Specification	Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless Steel
Weight (lbs)0.066300UPC634529082171Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular applicaNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippage shaft is possible below the rated torque of the disc springs. Keyways are available to provide additionat torque capacity in the shaft/hub connection when required. Please consult technical support for more	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
Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular applicaNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs.normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippage shaft is possible below the rated torque of the disc springs. Keyways are available to provide additionat torque capacity in the shaft/hub connection when required. Please consult technical support for more	Manufacturer	Ruland Manufacturing	Country of Origin	USA
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 applica Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippage shaft is possible below the rated torque of the disc springs. Keyways are available to provide additionat torque capacity in the shaft/hub connection when required. Please consult technical support for more	Weight (Ibs)	0.066300	UPC	634529082171
Note 2 Torque ratings are at maximum misalignment. Note 3 Performance ratings are for guidance only. The user must determine suitability for a particular applica Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. In normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In cases, especially when the smallest standard bores are used or where shafts are undersized, slippage shaft is possible below the rated torque of the disc springs. Keyways are available to provide additionat torque capacity in the shaft/hub connection when required. Please consult technical support for more	Tariff Code	8483.60.8000	UNSPC	31163008
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	Note 4	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		

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 DCS16-4-4-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 Misialignment:* 1.0°, *Parallel Misalignment:* 0.00 in, *Axial Motion:* 0.006 in)
- 2. Fully tighten the M3 screw on the first hub to the recommended seating torque of 2.1 Nm using a 2.5 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 0.499 in.