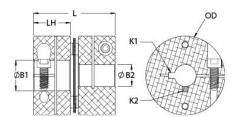




# DCSK21-6-6-A

Ruland DCSK21-6-6-A, 3/8" x 3/8" Single Disc Coupling, Aluminum, Clamp Style With Keyway, 1.313" OD, 1.313" Length





## **Description**

Ruland DCSK21-6-6-A is a clamp single disc coupling with 0.3750" x 0.3750" bores, 1.313" OD, 1.313" length, and 3/32" x 3/32" 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. DCSK21-6-6-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 DCSK21-6-6-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. DCSK21-6-6-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

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normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In some	i roddot opoomodiono							
Bt Max Shaft Penetration 0.635 in Bz Max Shaft Penetration 0.635 in Outer Diameter (OD) 1.313 in Bore Tolerance +0.001 in /-0.000 in Length (L) 1.313 in Hub Width (LH) 0.590 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 25 lb-in  Angular Misalignment 1.0° Dynamic Torque Non-Reversing 50 lb-in  Parallel Misalignment 0.00 in Static Torque Non-Reversing 50 lb-in  Parallel Motion 0.008 in Torsional Stiffness 313 lb-in/Deg  Moment of Inertia 0.033 lb-in² Maximum Speed 10,000 RPM  Zero-Backlash? Yes Balanced Design Yes  Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys  Full Bearing Support Required? Yes Material Specification Using Statinless Steel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Using Statinless Steel  Manufacturer Ruland Manufacturing Country of Origin USA  Weight (Ibs) 0.143200 UPC 634529201473  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 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	Bore (B1)	0.3750 in	Small Bore (B2)	0.3750 in				
Outer Diameter (OD)         1.313 in         Bore Tolerance         +0.001 in / -0.000 in           Length (L)         1.313 in         Hub Width (LH)         0.590 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         25 lb-in           Angular Misalignment         1.0°         Dynamic Torque Non-Reversing         50 lb-in           Arail Motion         0.00 in         Static Torque         100 lb-in           Axial Motion         0.008 in         Torsional Stiffness         313 lb-in/Deg           Moment of Inertia         0.0333 lb-in²         Maximum Speed         10,000 RPM           Zero-Backlash?         Yes         Balanced Design         Yes           Torque Wrench         TW:BT-1R-1/4-18.3         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 </td <td>Keyway (K1)</td> <td>3/32 in</td> <td>Keyway (K2)</td> <td>3/32 in</td>	Keyway (K1)	3/32 in	Keyway (K2)	3/32 in				
Length (L)       1.313 in       Hub Width (LH)       0.590 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       25 lb-in         Angular Misalignment       1.0°       Dynamic Torque Non-Reversing       50 lb-in         Parallel Misalignment       0.00 in       Static Torque       100 lb-in         Axial Motion       0.008 in       Torsional Stiffness       313 lb-in/Deg         Moment of Inertia       0.0333 lb-in²       Maximum Speed       10,000 RPM         Zero-Backlash?       Yes       Balanced Design       Yes         Torque Wrench       TW:BT-1R-1/4-18.3       Recommended Hex Key       Metric Hex Keys         Full Bearing Support Required?       Yes       Material Specification       Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize         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 <t< td=""><td>B1 Max Shaft Penetration</td><td>0.635 in</td><td>B2 Max Shaft Penetration</td><td>0.635 in</td></t<>	B1 Max Shaft Penetration	0.635 in	B2 Max Shaft Penetration	0.635 in				
Recommended Shaft Tolerance	Outer Diameter (OD)	1.313 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         25 lb-in           Angular Misalignment         1.0°         Dynamic Torque Non-Reversing         50 lb-in           Parallel Misalignment         0.00 in         Static Torque         100 lb-in           Axial Motion         0.008 in         Torsional Stiffness         313 lb-in/Deg           Moment of Inertia         0.0333 lb-in²         Maximum Speed         10,000 RPM           Zero-Backlash?         Yes         Balanced Design         Yes           Torque Wrench         TW.BT-1R-1/4-18.3         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)         0.143200         UPC         634529201473           Tariff Code         8483.	Length (L)	1.313 in	Hub Width (LH)	0.590 in				
Screw Finish   Black Oxide   Seating Torque   2.1 Nm	Recommended Shaft Tolerance	+0.0000 in / -0.0005 in	Forged Clamp Screw	M3				
Number of Screws 2 ea Dynamic Torque Reversing 25 lb-in Angular Misalignment 1.0° Dynamic Torque Non-Reversing 50 lb-in Parallel Misalignment 0.00 in Static Torque 100 lb-in Axial Motion 0.008 in Torsional Stiffness 313 lb-in/Deg Moment of Inertia 0.0333 lb-in² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-18.3 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) 0.143200 UPC 634529201473 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. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. Specially 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	Screw Material	Alloy Steel	Hex Wrench Size	2.5 mm				
Angular Misalignment         1.0°         Dynamic Torque Non-Reversing         50 lb-in           Parallel Misalignment         0.00 in         Static Torque         100 lb-in           Axial Motion         0.008 in         Torsional Stiffness         313 lb-in/Deg           Moment of Inertia         0.0333 lb-in²         Maximum Speed         10,000 RPM           Zero-Backlash?         Yes         Balanced Design         Yes           Torque Wrench         TW.BT-1R-1/4-18.3         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)         0.143200         UPC         634529201473           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	Screw Finish	Black Oxide	Seating Torque	2.1 Nm				
Parallel Misalignment       0.00 in       Static Torque       100 lb-in         Axial Motion       0.008 in       Torsional Stiffness       313 lb-in/Deg         Moment of Inertia       0.0333 lb-in²       Maximum Speed       10,000 RPM         Zero-Backlash?       Yes       Balanced Design       Yes         Torque Wrench       TW:BT-1R-1/4-18.3       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)       0.143200       UPC       634529201473         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. In some cases, especially when the smallest st	Number of Screws	2 ea	Dynamic Torque Reversing	25 lb-in				
Axial Motion0.008 inTorsional Stiffness313 lb-in/DegMoment of Inertia0.0333 lb-in²Maximum Speed10,000 RPMZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-18.3Recommended Hex KeyMetric Hex KeysFull Bearing Support Required?YesMaterial 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)0.143200UPC634529201473Tariff 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 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	Angular Misalignment	1.0°	Dynamic Torque Non-Reversing	50 lb-in				
Moment of Inertia       0.0333 lb-in²       Maximum Speed       10,000 RPM         Zero-Backlash?       Yes       Balanced Design       Yes         Torque Wrench       TW:BT-1R-1/4-18.3       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)       0.143200       UPC       634529201473         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. 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	Parallel Misalignment	0.00 in	Static Torque	100 lb-in				
Zero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-18.3Recommended Hex KeyMetric Hex KeysFull Bearing Support Required?YesMaterial 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)0.143200UPC634529201473Tariff 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 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	Axial Motion	0.008 in	Torsional Stiffness	313 lb-in/Deg				
Torque Wrench  TW:BT-1R-1/4-18.3  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 B Black Anodize  Manufacturer  Ruland Manufacturing  Country of Origin  USA  Weight (lbs)  0.143200  UPC  634529201473  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	Moment of Inertia	0.0333 lb-in <sup>2</sup>	Maximum Speed	10,000 RPM				
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) 0.143200 UPC 634529201473  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	Zero-Backlash?	Yes	Balanced Design	Yes				
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)  0.143200  UPC  634529201473  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 Wrench	TW:BT-1R-1/4-18.3	Recommended Hex Key	Metric Hex Keys				
Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.143200 UPC 634529201473 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	Full Bearing Support Required?	Yes	Material Specification	Disc Springs: Type 302 Stainless				
Weight (lbs)  0.143200  UPC 634529201473  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	Temperature	-40°F to 200°F (-40°C to 93°C)	Finish Specification	II, Class 2 and ASTM B580 Type B				
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	Manufacturer	Ruland Manufacturing	Country of Origin	USA				
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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	Note 2	Torque ratings are at maximum misalignment.						
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	Note 3	Performance ratings are for guidance only. The user must determine suitability for a particular application.						
	Note 4	normal/typical conditions the hubs a cases, especially when the smalles shaft is possible below the rated to	are capable of holding up to the rated at standard bores are used or where s rque of the disc springs. Keyways are	d torque of the disc springs. In some shafts are undersized, slippage on the available to provide additional				

#### assistance.

### Prop 65

**MARNING** 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 <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.

#### **Installation Instructions**

- Align the bores of the DCSK21-6-6-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: 0.008 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.
- 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 0.635 in.