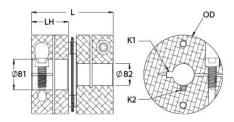




DCSK21-6-5-A

Ruland DCSK21-6-5-A, 3/8" x 5/16" Single Disc Coupling, Aluminum, Clamp Style With Keyway, 1.313" OD, 1.313" Length





Description

Ruland DCSK21-6-5-A is a clamp single disc coupling with 0.3750" x 0.3125" bores, 1.313" OD, 1.313" length, and 3/32" keyway on the 3/8" bore and no keyway on the 5/16" bore. 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. DCSK21-6-5-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 DCSK21-6-5-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. DCSK21-6-5-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Disc Springs: Type 302 S SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-4 II, Class 2 and ASTM B58 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.145300UPC634529201466Tariff 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 appl normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	Froduct Specifications			
B1 Max Shaft Penetration 0.635 in B2 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 +0.000 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 50 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 0.0334 lb-in ² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Full Bearing Support Required? Yes Material Specification Hubs: 2024-T351 Aluminu Disc Springs: Type 302 S Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-I II, Class 2 and ASTM BSE Black Anodize	Bore (B1)	0.3750 in	Small Bore (B2)	0.3125 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 Katerial 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 0.0334 lb-in² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Full Bearing Support Required? Yes Material Specification Hubs: 2024-T351 Aluminn Disc Springs: Type 302 S Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification II, Class 2 and ASTM B56 Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0	Keyway (K1)	3/32 in	Keyway (K2)	NK
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 0.0334 lb-in ² Maximum Speed 10,000 RPM Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW/BT-IR-1/4-18.3 Recommended Hex Key Metric Hex Keys Full Bearing Support Required? Yes Material Specification Hubs: 2024-T351 Aluminu Disc Springs: Type 302 S Steel Torque Wrench Sulfuric Anodized MIL-A-4 II, Class 2 and ASTM B56 Black Anodize Maufacturing Country of Origin USA Weight (lbs) 0.145300 UPC 634529201466	B1 Max Shaft Penetration	0.635 in	B2 Max Shaft Penetration	0.635 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 0.0334 lb-in ² 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 Aluminu Disc Springs: Type 302 S Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Ulfuric Anodized MIL-A-4 Miggtt (lbs) 0.145300 UPC 634529201466 Black Anodize Maufacturer Ruland Manufacturing Country of Origin USA Weight (lbs)	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 0.0334 lb-in ² 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 Aluminu Disc Springs: Type 302 S Steel Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-4 II, Class 2 and ASTM B56 Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.145300 UPC 634529201466 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel h	Length (L)	1.313 in	Hub Width (LH)	0.590 in
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 0.0334 lb-in ² 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 Alumint Disc Springs: Type 302 S Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-4 II, Class 2 and ASTM B56 Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.145300 UPC 634529201466 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	Recommended Shaft Tolerance	+0.0000 in / -0.0005 in	Forged Clamp Screw	M3
Number of Screws2 eaDynamic Torque Reversing25 lb-inAngular Misalignment1.0°Dynamic Torque Non-Reversing50 lb-inParallel Misalignment0.00 inStatic Torque100 lb-inAxial Motion0.008 inTorsional Stiffness313 lb-in/DegMoment of Inertia0.0334 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 Aluminu Disc Springs: Type 302 S SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-4 II, Class 2 and ASTM B56 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.145300UPC634529201466Tariff 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 applNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	Screw Material	Alloy Steel	Hex Wrench Size	2.5 mm
Angular Misalignment1.0°Dynamic Torque Non-Reversing50 lb-inParallel Misalignment0.00 inStatic Torque100 lb-inAxial Motion0.008 inTorsional Stiffness313 lb-in/DegMoment of Inertia0.0334 lb-in²Maximum Speed10,000 RPMZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-IR-1/4-18.3Recommended Hex KeyMetric Hex KeysFull Bearing Support Required?YesMaterial SpecificationHubs: 2024-T351 Aluminn Disc Springs: Type 302 S SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-I II, Class 2 and ASTM B56 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.145300UPC634529201466Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 2Torque ratings are at maximum misalignment.Performance ratings are for guidance only. The user must determine suitability for a particular appl normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	Screw Finish	Black Oxide	Seating Torque	2.1 Nm
Parallel Misalignment0.00 inStatic Torque100 lb-inAxial Motion0.008 inTorsional Stiffness313 lb-in/DegMoment of Inertia0.0334 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 Aluminin Disc Springs: Type 302 S SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-4 II, Class 2 and ASTM B56 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.145300UPC634529201466Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 1Note 2Torque ratings are at maximum misalignment.Note 3Note 3Performance ratings are for guidance only. The user must determine suitability for a particular appl normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	Number of Screws	2 ea	Dynamic Torque Reversing	25 lb-in
Axial Motion0.008 inTorsional Stiffness313 lb-in/DegMoment of Inertia0.0334 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 Aluminu Disc Springs: Type 302 S SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-4 II, Class 2 and ASTM B56 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.145300UPC634529201466Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 1Note 2Torque ratings are at maximum misalignment.Note 3Note 3Performance ratings are for guidance only. The user must determine suitability for a particular appl normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs normal	Angular Misalignment	1.0°	Dynamic Torque Non-Reversing	50 lb-in
Moment of Inertia0.0334 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 Aluminu Disc Springs: Type 302 S SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-4 II, Class 2 and ASTM B56 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.145300UPC31163008Note 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 applNote disc springsNote 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 normal/typical conditions the hubs are used or where shafts are undersized, slipp	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 Aluminu Disc Springs: Type 302 S SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-4 II, Class 2 and ASTM B56 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.145300UPC634529201466Tariff 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 applNote 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 normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	Axial Motion	0.008 in	Torsional Stiffness	313 lb-in/Deg
Torque WrenchTW:BT-1R-1/4-18.3Recommended Hex KeyMetric Hex KeysFull Bearing Support Required?YesMaterial SpecificationHubs: 2024-T351 Aluminu Disc Springs: Type 302 S SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-4 II, Class 2 and ASTM B58 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.145300UPC634529201466Tariff 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 applNote 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 cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	Moment of Inertia	0.0334 lb-in ²	Maximum Speed	10,000 RPM
Full Bearing Support Required?YesMaterial SpecificationHubs: 2024-T351 Alumin Disc Springs: Type 302 S SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-A II, Class 2 and ASTM B58 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.145300UPC634529201466Tariff 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 applNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	Zero-Backlash?	Yes	Balanced Design	Yes
Disc Springs: Type 302 S SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-f II, Class 2 and ASTM B58 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.145300UPC634529201466Tariff 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 appl normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	Torque Wrench	TW:BT-1R-1/4-18.3	Recommended Hex Key	Metric Hex Keys
II, Class 2 and ASTM B58 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.145300UPC634529201466Tariff 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 applNote 3Performance ratings are for guidance only. The user must determine suitability for a particular applNote 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 cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	Full Bearing Support Required?	Yes	Material Specification	Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless Steel
Weight (lbs)0.145300UPC634529201466Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 2Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular applNote 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 cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	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 applNote 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 cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	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 appl Note 4 Torque 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 cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	Weight (lbs)	0.145300	UPC	634529201466
Note 2 Torque ratings are at maximum misalignment. Note 3 Performance ratings are for guidance only. The user must determine suitability for a particular appl Note 4 Torque 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 cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	Tariff Code	8483.60.8000	UNSPC	31163008
Note 3 Performance ratings are for guidance only. The user must determine suitability for a particular appl Note 4 Torque 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 cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	Note 1	Stainless steel hubs are available upon request.		
Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc spring normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	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 cases, especially when the smallest standard bores are used or where shafts are undersized, slipp	Note 3	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
shaft is possible below the rated torque of the disc springs. Keyways are available to provide additi	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.			
Ргор 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 <u>www.P65Warnings.ca.gov</u> .			
Installation Instructions				
	 Align the bores of the DCSK21-6-5-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. (<i>Angular Misialignment:</i> 1.0°, <i>Parallel Misalignment:</i> 0.00 in, <i>Axial Motion:</i> 0.008 in) 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. 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. 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. 			