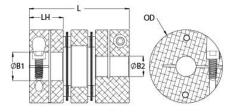




MDCDE41-20-10-A

Ruland MDCDE41-20-10-A, 20mm x 10mm Double Disc Coupling, Aluminum, Clamp Style, Electrically Isolating, 41.3mm OD, 55.0mm Length





Description

Ruland MDCDE41-20-10-A is an electrically isolating clamp double disc coupling with 20mm x 10mm bores, 41.3mm OD, and 55.0mm length. It is zero-backlash and has a balanced design for reduced vibration at high speeds. The double disc design is comprised of two anodized aluminum hubs, two sets of thin stainless steel disc springs, and an acetal center spacer allowing each disc to bend individually and accommodate all types of misalignment. The acetal center spacer isolates the two hubs preventing the incidental transfer of current from the motor to the driven component or vice versa. MDCDE41-20-10-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 MDCDE41-20-10-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. MDCDE41-20-10-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Length (L)55.0 mmHub Width (LH)18.05 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmForged Clamp ScrewM4Screw MaterialAlloy SteelHex Wrench Size3.0 mmScrew FinishBlack OxideSeating Torque4.6 NmNumber of Screws2 eaDynamic Torque Reversing5.08 NmAngular Misalignment2.0°Dynamic Torque Non-Reversing10.15 NmParallel Misalignment0.25 mmStatic Torque20.3 NmAxial Motion0.51 mmTorsional Stiffness42.4 Nm/DeMoment of Inertia3.399 x 10°5 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-IR-Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024 Type 302 STemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anc II, Class 2 a Black AnodiManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306000UPC6345290892Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 2Torque ratings are at maximum misalignment.Note 4Note 4Torque ratings are for guidance only. The user must determine suitability for a j	r roudot opconnoutionio			
Outer Diameter (OD)41.3 mmBore Tolerance+0.03 mm /Length (L)55.0 mmHub Width (LH)18.05 mmRecommended Shaft Tolerance+0.000 mm /-0.013 mmForged Clamp ScrewM4Screw MaterialAlloy SteelHex Wrench Size3.0 mmScrew FinishBlack OxideSeating Torque4.6 NmNumber of Screws2 eaDynamic Torque Reversing5.08 NmAngular Misalignment2.0°Dynamic Torque Non-Reversing10.15 NmParallel Misalignment0.25 mmStatic Torque20.3 NmAxial Motion0.51 mmTorsional Stiffness42.4 Nm/DeMoment of Inertia3.399 x 10 ⁻⁵ kg-m²Maximum Speed10,000 RPMFul Bearing Support Required?YesTorque WrenchTW:BT-IR-Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024 Type 302 S Spacer: AceTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anc II, class 2 a II, class 2 a II	Bore (B1)	20 mm	Small Bore (B2)	10 mm
Length (L)55.0 mmHub Width (LH)18.05 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmForged Clamp ScrewM4Screw MaterialAlloy SteelHex Wrench Size3.0 mmScrew FinishBlack OxideSeating Torque4.6 NmNumber of Screws2 eaDynamic Torque Reversing5.08 NmAngular Misalignment2.0°Dynamic Torque Non-Reversing10.15 NmParallel Misalignment0.25 mmStatic Torque20.3 NmAxial Motion0.51 mmTorsional Stiffness42.4 Nm/DeMoment of Inertia3.399 x 10°5 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-IR-Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024 Type 302 STemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anc II, Class 2 a Black AnodiManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306000UPC6345290892Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 2Torque ratings are at maximum misalignment.Note 4Note 4Torque ratings are for guidance only. The user must determine suitability for a j	B1 Max Shaft Penetration	26.1 mm	B2 Max Shaft Penetration	26.1 mm
Recommended Shaft Tolerance+0.000 mm / -0.013 mmForged Clamp ScrewM4Screw MaterialAlloy SteelHex Wrench Size3.0 mmScrew FinishBlack OxideSeating Torque4.6 NmNumber of Screws2 eaDynamic Torque Reversing5.08 NmAngular Misalignment2.0°Dynamic Torque Non-Reversing10.15 NmParallel Misalignment0.25 mmStatic Torque Non-Reversing10.15 NmAxial Motion0.51 mmTorsional Stiffness42.4 Nm/DeMoment of Inertia3.399 x 10-5 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-IR-Recommended Hex KeyMetric Hex KeysMetric Hex KeysMaterial SpecificationHubs: 2024 Type 302 S Spacer: AccTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationII, Class 2 a Black AnodiManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Torque ratings are at maximum misalignment.Note 3Performance ratings for the couplings are based on the physical limitations/failure point of for a point and physical limitations/failure point of physical l	Outer Diameter (OD)	41.3 mm	Bore Tolerance	+0.03 mm / -0.00 mm
Screw MaterialAlloy SteelHex Wrench Size3.0 mmScrew FinishBlack OxideSeating Torque4.6 NmNumber of Screws2 eaDynamic Torque Reversing5.08 NmAngular Misalignment2.0°Dynamic Torque Non-Reversing10.15 NmParallel Misalignment0.25 mmStatic Torque20.3 NmAxial Motion0.51 mmTorsional Stiffness42.4 Nm/DeMoment of Inertia3.399 x 10°5 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-IR-Recommended Hex KeyRecommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024Tuppe 302 S Spacer: Ace-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Ance II, Class 2 a Black AnodiManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.306000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 1Note 2Torque ratings are at maximum misalignment.Note 4Note 4Torque ratings for the couplings are based on the physical limitations/failure point of function	Length (L)	55.0 mm	Hub Width (LH)	18.05 mm
Screw FinishBlack OxideSeating Torque4.6 NmNumber of Screws2 eaDynamic Torque Reversing5.08 NmAngular Misalignment2.0°Dynamic Torque Non-Reversing10.15 NmParallel Misalignment0.25 mmStatic Torque20.3 NmAxial Motion0.51 mmTorsional Stiffness42.4 Nm/DeMoment of Inertia3.399 x 10°5 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024 Type 302 S Spacer: AccTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationUISA ContextManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306000UPC6345290894Note 1Stainless steel hubs are available upon request.31163008Note 2Torque ratings are at maximum misalignment.Note 4Note 4Torque ratings or the couplings are based on the physical limitations/failure point of formance ratings are based on the physical limitations/failure point of formance ratings are based on the physical limitations/failure point of formance ratings are based on the physical limitations/failure point of formance ratings are based on the physical limitations/failure point of formance ratings are based on the physical limitations/failure point of formance ratings are based on the physical limitations/failure point of formance ratings are based on the physical limitations/failure point of formance ratings are based on the physical	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M4
Number of Screws2 eaDynamic Torque Reversing5.08 NmAngular Misalignment2.0°Dynamic Torque Non-Reversing10.15 NmParallel Misalignment0.25 mmStatic Torque20.3 NmAxial Motion0.51 mmTorsional Stiffness42.4 Nm/DeMoment of Inertia3.399 x 10 ⁵ kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024 Type 302 S Spacer: AceTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anc Black AnodiManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306000UPC6345290898Note 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 pointNote 4Note 4Torque ratings for the couplings are based on the physical limitations/failure point of the suitability for a point of the suitability for a point of the suitability for a point of the couplings are based on the physical limitations/failure point of the suitability for a point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitation	Screw Material	Alloy Steel	Hex Wrench Size	3.0 mm
Angular Misalignment2.0°Dynamic Torque Non-Reversing10.15 NmParallel Misalignment0.25 mmStatic Torque20.3 NmAxial Motion0.51 mmTorsional Stiffness42.4 Nm/DeMoment of Inertia3.399 x 10°5 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024Type 302 S Spacer: AceSpacer: AceSpacer: AceTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric AnodiManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.306000UPC6345290896Tariff 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 port of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based	Screw Finish	Black Oxide	Seating Torque	4.6 Nm
Parallel Misalignment0.25 mmStatic Torque20.3 NmAxial Motion0.51 mmTorsional Stiffness42.4 Nm/DeMoment of Inertia3.399 x 10°5 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024Temperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anc II, Class 2 a Black AnodiManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306000UPC6345290898Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Stainless steel hubs are available upon request.Note 3Performance ratings are for guidance only. The user must determine suitability for a participationNote 4	Number of Screws	2 ea	Dynamic Torque Reversing	5.08 Nm
Axial Motion0.51 mmTorsional Stiffness42.4 Nm/DeMoment of Inertia3.399 x 10 ⁻⁵ kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024 Type 302 STemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric And Black AnodiManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.306000UPC6345290896Tariff 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 point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point	Angular Misalignment	2.0°	Dynamic Torque Non-Reversing	10.15 Nm
Moment of Inertia $3.399 \times 10^{-5} \text{ kg-m}^2$ Maximum Speed $10,000 \text{ RPM}$ Full Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-:Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024 Type 302 S Spacer: AceTemperature -10° F to 150° F (-23°C to 65° C)Finish SpecificationSulfuric And Black AnodiManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.306000UPC6345290896Tariff 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 point of for the couplings are based on the physical limitations/failure point of for the couplings are based on the physical limitations/failure point of for the couplings are based on the physical limitations/failure point of for the couplings are based on the physical limitations/failure point of for the couplings are based on the physical limitations/failure point of for the couplings are based on the physical limitations/failure point of for the couplings are based on the physical limitations/failure point of for the couplings are based on the physical limitations/failure point of for the couplings are based on the physical limitations/failure point of for the couplings are based on the physical limitations/failure point of for the couplings are based on the physical limitations/failure point of for the couplings are based on the physical limitations/failure point of for the couplings are based on the physical limitations/failure point o	Parallel Misalignment	0.25 mm	Static Torque	20.3 Nm
Full Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-IR-IRecommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024 Type 302 S Spacer: AceTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric And II, Class 2 a Black AnodiManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306000UPC6345290894Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Stainless steel hubs are available upon request.Note 2Torque ratings are at maximum misalignment.Note 3Note 4Torque ratings for the couplings are based on the physical limitations/failure point of the support of the sup	Axial Motion	0.51 mm	Torsional Stiffness	42.4 Nm/Deg
Balanced DesignYesTorque WrenchTW:BT-1R-Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024 Type 302 Si Spacer: AcceTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric And II, Class 2 a Black AnodiManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306000UPC6345290896Tariff 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 port of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitati	Moment of Inertia	3.399 x 10 ⁻⁵ kg-m ²	Maximum Speed	10,000 RPM
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II, Class 2 a Black AnodiManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.306000UPC6345290898Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.31163008Note 2Torque ratings are at maximum misalignment.Verformance ratings are for guidance only. The user must determine suitability for a point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical physical physical physical physical physical phy	Recommended Hex Key	Metric Hex Keys	Material Specification	Hubs: 2024-T351 Bar, Disc Springs Type 302 Stainless Steel, Center Spacer: Acetal
Weight (lbs)0.306000UPC6345290898Tariff 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 point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations are based on the physical limitations are based on the physical limitations are based on the physical li	Temperature	-10°F to 150°F (-23°C to 65°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 postNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the suitability for a post of the couplings are based on the physical limitations/failure point of the suitability for a post o	Manufacturer	Ruland Manufacturing	Country of Origin	USA
Note 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 postNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the suitability for a post o	Weight (Ibs)	0.306000	UPC	634529089804
Note 2Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations/failure point of the couplings are based on the physical limitations (the couplings are based on the physical limitations).	Tariff Code	8483.60.8000	UNSPC	31163008
Note 3Performance ratings are for guidance only. The user must determine suitability for aNote 4Torque ratings for the couplings are based on the physical limitations/failure point of	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	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.		
normal/typical conditions the hubs are capable of holding up to the rated torque of the cases, especially when the smallest standard bores are used or where shafts are unconshaft is possible below the rated torque of the disc springs. Keyways are available to	Note 4	normal/typical conditions the hubs a cases, especially when the smalles	are capable of holding up to the rated t standard bores are used or where s	torque of the disc springs. In some shafts are undersized, slippage on th

	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 MDCDE41-20-10-A double 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</i> <i>Misialignment:</i> 2.0°, <i>Parallel Misalignment:</i> 0.25 mm, <i>Axial Motion:</i> 0.51 mm) Fully tighten the M4 screw on the first hub to the recommended seating torque of 4.6 Nm using a 3.0 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 26.1 mm. 			