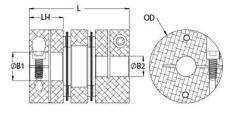




## MDCDE41-16-15-A

Ruland MDCDE41-16-15-A, 16mm x 15mm Double Disc Coupling, Aluminum, Clamp Style, Electrically Isolating, 41.3mm OD, 55.0mm Length





## Description

Ruland MDCDE41-16-15-A is an electrically isolating clamp double disc coupling with 16mm x 15mm 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. MDCDE41-16-15-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 MDCDE41-16-15-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. MDCDE41-16-15-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

## **Product Specifications**

Length (L)55.0 mmHub Width (LH)18.0 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/DegMoment of Inertia3.425 x 10 <sup>-5</sup> kg-m²Maximum Speed10.000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-41.Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-7351 frype 302 Stainless Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized II. (Class 2 and AS) Black AnoizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306900UPC634529089781Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.	r roddor opcomoations			
Outer Diameter (OD)41.3 mmBore Tolerance+0.03 mm /-0.00 rLength (L)55.0 mmHub Width (LH)18.0 mmRecommended Shaft Tolerance+0.000 mm /-0.013 mmForged Clamp ScrewM4Screw MaterialAlloy SteelHex Wrench Size3.0 mmScrew FinishBlack OxideSeating Torque Reversing5.08 NmNumber of Screws2 eaDynamic Torque Reversing5.08 NmAngular Misalignment2.0°Dynamic Torque Reversing5.08 NmParallel Misalignment0.25 mmStatic Torque20.3 NmAxial Motion0.51 mmTorsional Stiffness42.4 Nm/DegMoment of Inertia3.425 x 10-5 kg-m²Maximum Speed10,000 RPMBalanced DesignYesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-41.Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Type 302 StainlessTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized III, Class 2 and AS: Black AnodizeWeight (Ibs)0.306900UPC634529089781Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Yer particul for a particul Note 3Note 3Performance ratings are for guidance only. The user must determine suitability for a particul Note 4Torque ratings for the couplings are based on the physical limitations/fail-re point of the disc onromal/bypical conditions the hubs are capable of holding up to the rated torque of t	Bore (B1)	16 mm	Small Bore (B2)	15 mm
Length (L)55.0 mmHub Width (LH)18.0 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/DegMoment of Inertia3.425 x 10.5 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-IR-1/4-41.Recommended Hex KeyMetric Hex KeysMaterial SpecificationSulfuric Anodized II, Class 2 and AS Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306900UPC634529089781Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Stainless isolation for a particulNote 2Torque ratings are tor guidance only. The user must determine suitability for a particulNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc onrad/bysical conditions the hubs are capable of holding up to the rated torque of the disc onrad/bysical conditions the hubs are capable of holding up to the rated torque of the disc onrad/bysical condition	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 NmParallel Misalignment0.25 mmStatic Torque Non-Reversing10.000 RPMAxial Motion0.51 mmTorsional Stiffness42.4 Nm/DegMoment of Inertia3.425 x 10°5 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-41.Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 FType 302 StainlessSpacer: AcetalSpacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized I II, Class 2 and AS' Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306900UPC634529089781Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Stainless for the couplings are for guidance only. The user must determine suitability for a particul Note 3Performance ratings for the couplings are based on the physical limitations/failure point of the disc normal/typi	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/DegMoment of Inertia3.425 x 10°5 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-41,Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 F Type 302 Stainless Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized III, Class 2 and AS' Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306900UPC634529089781Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Yea particulNote 2Torque ratings are of guidance only. The user must determine suitability for a particulNote 3Performance ratings are for guidance only. The user must determine suitability for a particulNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc	Length (L)	55.0 mm	Hub Width (LH)	18.0 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/DegMoment of Inertia3.425 x 10 <sup>5</sup> kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-41.Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 R Type 302 StainlessTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized III, Class 2 and AS Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306900UPC634529089781Tariff 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 particulNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc s	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/DegMoment of Inertia3.425 x 10.5 kg·m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW/BT-1R-1/4-41.Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 B Type 302 Stainless Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized I II, Class 2 and AS Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306900UPC634529089781Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 3Performance ratings are at maximum misalignment.Note 3Performance ratings for the couplings are based on the physical limitations/failure point of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc start	Screw Material	Alloy Steel	Hex Wrench Size	3.0 mm
Angular Misalignment2.0°Dynamic Torque Non-Reversing 20.3 Nm10.15 NmParallel Misalignment0.25 mmStatic Torque20.3 NmAxial Motion0.51 mmTorsional Stiffness42.4 Nm/DegMoment of Inertia3.425 x 10°5 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-41.Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 E Type 302 Stainless Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized I II, Class 2 and AS Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306900UPC634529089781Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.VerNote 2Torque ratings are at maximum misalignment.VerNote 3Performance ratings are for guidance only. The user must determine suitability for a particulNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc s	Screw Finish	Black Oxide	Seating Torque	4.6 Nm
Parallel Misalignment0.25 mmStatic Torque20.3 NmAxial Motion0.51 mmTorsional Stiffness42.4 Nm/DegMoment of Inertia3.425 x 10°5 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-41.Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 I Type 302 Stainless Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized I II, Class 2 and AS' Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306900UPC634529089781Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 3Performance ratings are for guidance only. The user must determine suitability for a particulNote 3Performance ratings are for guidance only. The user must determine suitability for a particulTorque ratings for the couplings are based on the physical limitations/failure point of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc s	Number of Screws	2 ea	Dynamic Torque Reversing	5.08 Nm
Axial Motion0.51 mmTorsional Stiffness42.4 Nm/DegMoment of Inertia3.425 x 10.5 kg-m2Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-41.Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 BTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized III, Class 2 and AS Black AnodizeSulfuric Anodized III, Class 2 and AS Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.306900UPC634529089781Tariff 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 particul normal/typical conditions the hubs are capable of holding up to the rated torque of the disc s	Angular Misalignment	2.0°	Dynamic Torque Non-Reversing	10.15 Nm
Moment of Inertia       3.425 x 10 <sup>5</sup> kg·m <sup>2</sup> Maximum Speed       10,000 RPM         Full Bearing Support Required?       Yes       Zero-Backlash?       Yes         Balanced Design       Yes       Torque Wrench       TW:BT-1R-1/4-41.         Recommended Hex Key       Metric Hex Keys       Material Specification       Hubs: 2024-T351 R         Type 302 Stainless       Spacer: Acetal       Type 302 Stainless       Spacer: Acetal         Temperature       -10°F to 150°F (-23°C to 65°C)       Finish Specification       Sulfuric Anodized II, Class 2 and AS Black Anodize         Maufacturer       Ruland Manufacturing       Country of Origin       USA         Weight (lbs)       0.306900       UPC       634529089781         Tariff Code       8483.60.8000       UNSPC       31163008         Note 1       Stainless steel hubs are available upon request.       Torque ratings are at maximum misalignment.         Note 3       Performance ratings are for guidance only. The user must determine suitability for a particul normal/typical conditions the hubs are capable of holding up to the rated torque of the disc so normal/typical conditions the hubs are capable of holding up to the rated torque of the disc so normal/typical conditions the hubs are capable of holding up to the rated torque of the disc so normal/typical conditions the hubs are capable of holding up to the rated torque of the disc so normal/typical conditions the hubs are capable of holding up to the rated to	Parallel Misalignment	0.25 mm	Static Torque	20.3 Nm
Full Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-41.Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 BTorpue Vrench-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized II. Class 2 and AS-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized IManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.306900UPC634529089781Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 2Performance ratings are for guidance only. The user must determine suitability for a particulNote 3Performance ratings are for guidance only. The user must determine suitability for a particulNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc subscience of holding up to the rated torque of the disc subscience of holding up to the rated torque of the disc subscience of holding up to the rated torque of the disc subscience of holding up to the rated torque of the disc subscience of holding up to the rated torque of the disc subscience of holding up to the rated torque of the disc subscience of holding up to the rated torque of the disc subscience of holding up to the rated torque of the disc subscience of holding up to the rated torque of the disc subscience of holding up to the rated torque of the disc subscience of holding up to the rated torque of the disc subscience of holding up to the rated torque of the disc subscience of holding up to	Axial Motion	0.51 mm	Torsional Stiffness	42.4 Nm/Deg
Balanced DesignYesTorque WrenchTW:BT-1R-1/4-41.Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 from type 302 Stainless Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized I II, Class 2 and AS' Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.306900UPC634529089781Tariff 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 particulNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc	Moment of Inertia	3.425 x 10 <sup>-5</sup> kg-m <sup>2</sup>	Maximum Speed	10,000 RPM
Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 H Type 302 Stainless Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized H II, Class 2 and AS Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.306900UPC634529089781Tariff 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 particul normal/typical conditions the hubs are capable of holding up to the rated torque of the disc substance	Full Bearing Support Required?	Yes	Zero-Backlash?	Yes
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II, Class 2 and AS Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.306900UPC634529089781Tariff 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 particulNote 3Performance ratings are for guidance only. The user must determine suitability for a particulNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc substantiations are capable of holding up to the rated torque of the disc substantiations are capable of holding up to the rated torque of the disc substantiation of the dis	Recommended Hex Key	Metric Hex Keys	Material Specification	Hubs: 2024-T351 Bar, Disc Springs Type 302 Stainless Steel, Center Spacer: Acetal
Weight (lbs)       0.306900       UPC       634529089781         Tariff Code       8483.60.8000       UNSPC       31163008         Note 1       Stainless steel hubs are available upon request.       31163008         Note 2       Torque ratings are at maximum misalignment.       Volume of the disc of the couplings are based on the physical limitations/failure point of the disc on normal/typical conditions the hubs are capable of holding up to the rated torque of the disc of t	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 particulNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc s	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 particul         Note 4       Torque ratings for the couplings are based on the physical limitations/failure point of the disc so normal/typical conditions the hubs are capable of holding up to the rated torque of the disc so	Weight (Ibs)	0.306900	UPC	634529089781
Note 2         Torque ratings are at maximum misalignment.           Note 3         Performance ratings are for guidance only. The user must determine suitability for a particul           Note 4         Torque ratings for the couplings are based on the physical limitations/failure point of the disc sonormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sonormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sonormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sonormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sonormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sonormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sonormal/typical conditions the hubs are capable of holding up to the rated torque of the disc sonormal typical conditions the hubs are capable of holding up to the rated torque of the disc sonormal typical conditions the hubs are capable of holding up to the rated torque of the disc sonormal typical conditions the hubs are capable of holding up to the rated torque of the disc sonormal typical conditions the hubb are capable of holding up to the rated torque of the disc sonormal typical conditions the hubb are capable of holding up to the rated torque of the disc sonormal typical conditions the hubb are capable of holding up to the capable of holding up to tholding up to tholding up to th	Tariff Code	8483.60.8000	UNSPC	31163008
Note 3         Performance ratings are for guidance only. The user must determine suitability for a particul           Note 4         Torque ratings for the couplings are based on the physical limitations/failure point of the disc normal/typical conditions the hubs are capable of holding up to the rated torque of the disc set.	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 normal/typical conditions the hubs are capable of holding up to the rated torque of the disc	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 s	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	Note 4	normal/typical conditions the hubs cases, especially when the smalles	are capable of holding up to the rated st standard bores are used or where s	torque of the disc springs. In some shafts are undersized, slippage on the

	torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance.		
Prop 65	<b>MARNING</b> 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			
	<ol> <li>Align the bores of the MDCDE41-16-15-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)</li> <li>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.</li> <li>Before tightening the screw on the second hub, rotate the coupling by hand to allow it to reach its free length.</li> <li>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.</li> <li>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.</li> </ol>		