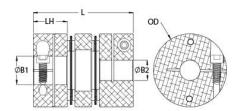




## MDCD51-24-18-A

Ruland MDCD51-24-18-A, 24mm x 18mm Double Disc Coupling, Aluminum, Clamp Style, 50.8mm OD, 64.0mm Length





## **Description**

Ruland MDCD51-24-18-A is a clamp double disc coupling with 24mm x 18mm bores, 50.8mm OD, and 64.0mm 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 a center spacer allowing each disc to bend individually and accommodate all types of misalignment. MDCD51-24-18-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 MDCD51-24-18-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. MDCD51-24-18-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Dro	duct	Cno	aific	antin	nc
Pro	nuct	SDE	CITIC	atio	ne

B1 Min Shaft Penetration         12.7 mm         B2 Min Shaft Penetration         12.7 mm           B1 Max Shaft Penetration         30.3 mm         B2 Max Shaft Penetration         30.3 mm           Outer Diameter (OD)         50.8 mm         Bore Tolerance         +0.03 mm / -0.00 mm           Length (L)         64.0 mm         Hub Width (LH)         20.6 mm           Recommended Shaft Tolerance         +0.000 mm / -0.013 mm         Forged Clamp Screw         M5           Screw Material         Alloy Steel         Hex Wrench Size         4.0 mm           Screw Finish         Black Oxide         Seating Torque         9.5 Nm           Number of Screws         2 ea         Dynamic Torque Reversing         9.90 Nm           Angular Misalignment         2.0°         Dynamic Torque Non-Reversing         9.90 Nm           Angular Misalignment         0.30 mm         Static Torque         39.6 Nm           Parallel Misalignment         0.30 mm         Torsional Stiffness         67.2 Nm/Deg           Moment of Inertia         9.923 x 10.5 kg-m²         Maximum Speed         10,000 RPM           Full Bearing Support Required?         Yes         Zero-Backlash?         Yes           Balanced Design         Yes         Torque Wrench         TW:BT-4C-3/8-86         Hub sand Center Spac	Product Specifications					
B1 Max Shaft Penetration 30.3 mm B2 Max Shaft Penetration 30.3 mm Outer Diameter (OD) 50.8 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 64.0 mm Hub Width (LH) 20.6 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M5 Screw Material Alloy Steel Hex Wrench Size 4.0 mm Screw Finish Black Oxide Seating Torque 9.5 Nm Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 19.80 Nm Parallel Misalignment 0.30 mm Static Torque 39.6 Nm Axial Motion 0.64 mm Torsional Stiffness 67.2 Nm/Deg Moment of Inertia 9.923 x 10 <sup>-6</sup> kg-m² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW/BT-4C-3/8-86 Recommended Hex Key Metric Hex Keys Material Specification Hubs and Center Spacer: 2024-T351 Aluminum Bar Disc Springs: Type 302 Sizel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification USA Weight (Ibs) 0.573500 UPC 634529148594  Tariff Code 8483.60.8000 UNSPC 31163008  Note 1 Stainless steel hubs are available upon request.  Note 2 Torque ratings are for guidance only. The user must determine suitability for a particular appl Note 4 Torque traings 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 spring normal/typical conditions the hubs are apable of holding up to the rated torque of the disc spring.	Bore (B1)	24 mm	Small Bore (B2)	18 mm		
Outer Diameter (OD)       50.8 mm       Bore Tolerance       +0.03 mm / -0.00 mm         Length (L)       64.0 mm       Hub Width (LH)       20.6 mm         Recommended Shaft Tolerance       +0.000 mm / -0.013 mm       Forged Clamp Screw       M5         Screw Material       Alloy Steel       Hex Wrench Size       4.0 mm         Screw Finish       Black Oxide       Seating Torque       9.5 Nm         Number of Screws       2 ea       Dynamic Torque Reversing       9.90 Nm         Angular Misalignment       2.0°       Dynamic Torque Non-Reversing       9.90 Nm         Arail Motion       0.64 mm       Torsional Stiffness       67.2 Nm/Deg         Moment of Inertia       9.923 x 10°5 kg-m²       Maximum Speed       10,000 RPM         Full Bearing Support Required?       Yes       Zero-Backlash?       Yes         Balanced Design       Yes       Torque Wrench       TW-BT-4C-3/8-86         Recommended Hex Key       Metric Hex Keys       Material Specification       Sulfuric Anodized MIL-A-8         Temperature       -40°F to 200°F (-40°C to 93°C)       Finish Specification       Sulfuric Anodized MIL-A-8         Manufacturer       Ruland Manufacturing       Country of Origin       USA         Weight (lbs)       0.573500       UPC	B1 Min Shaft Penetration	12.7 mm	B2 Min Shaft Penetration	12.7 mm		
Length (L)       64.0 mm       Hub Width (LH)       20.6 mm         Recommended Shaft Tolerance       +0.000 mm / -0.013 mm       Forged Clamp Screw       M5         Screw Material       Alloy Steel       Hex Wrench Size       4.0 mm         Screw Finish       Black Oxide       Seating Torque       9.5 Nm         Number of Screws       2 ea       Dynamic Torque Reversing       9.90 Nm         Angular Misalignment       2.0°       Dynamic Torque Non-Reversing       19.80 Nm         Parallel Misalignment       0.30 mm       Static Torque       39.6 Nm         Axial Motion       0.64 mm       Torsional Stiffness       67.2 Nm/Deg         Moment of Inertia       9.923 x 10.5 kg-m²       Maximum Speed       10,000 RPM         Full Bearing Support Required?       Yes       Zero-Backlash?       Yes         Balanced Design       Yes       Torque Wrench       TW.BT-4C-3/8-86         Recommended Hex Key       Metric Hex Keys       Material Specification       Hubs and Center Spacer: 2024-T351 Aluminum Bar Disc Springs: Type 302 Steel         Temperature       -40°F to 200°F (-40°C to 93°C)       Finish Specification       Sulfuric Anodized MIL-A-6 II, Class 2 and ASTM B58 Black Anodize         Manufacturer       Ruland Manufacturing       Country of Origin       USA <tr< td=""><td>B1 Max Shaft Penetration</td><td>30.3 mm</td><td>B2 Max Shaft Penetration</td><td>30.3 mm</td></tr<>	B1 Max Shaft Penetration	30.3 mm	B2 Max Shaft Penetration	30.3 mm		
Recommended Shaft Tolerance	Outer Diameter (OD)	50.8 mm	Bore Tolerance	+0.03 mm / -0.00 mm		
Screw Material Alloy Steel Hex Wrench Size 4.0 mm  Screw Finish Black Oxide Seating Torque 9.5 Nm  Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm  Angular Misalignment 2.0° Dynamic Torque Non-Reversing 19.80 Nm  Parallel Misalignment 0.30 mm Static Torque 39.6 Nm  Axial Motion 0.64 mm Torsional Stiffness 67.2 Nm/Deg  Moment of Inertia 9.923 x 10.5 kg-m² Maximum Speed 10,000 RPM  Full Bearing Support Required? Yes Zero-Backlash? Yes  Balanced Design Yes Torque Wrench TW:BT-4C-3/8-86  Recommended Hex Key Metric Hex Keys Material Specification Hubs and Center Spacer: 2024-T351 Aluminum Bar Disc Springs: Type 302 Steel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-8 ll, Class 2 and ASTM BS8 Black Anodize  Manufacturer Ruland Manufacturing Country of Origin USA  Weight (lbs) 0.573500 UPC 634529148594  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 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 normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs.	Length (L)	64.0 mm	Hub Width (LH)	20.6 mm		
Screw Finish  Black Oxide  Seating Torque  9.5 Nm  Number of Screws  2 ea  Dynamic Torque Reversing  9.90 Nm  Angular Misalignment  2.0°  Dynamic Torque Non-Reversing  19.80 Nm  Parallel Misalignment  0.30 mm  Static Torque  39.6 Nm  Axial Motion  0.64 mm  Torsional Stiffness  67.2 Nm/Deg  Moment of Inertia  9.923 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-4C-3/8-86  Recommended Hex Key  Metric Hex Keys  Material Specification  Hubs and Center Spacer: 2024-T351 Aluminum Bar Disc Springs: Type 302 Si Steel  Temperature  -40°F to 200°F (-40°C to 93°C)  Finish Specification  Sulfuric Anodized MIL-A-6 II, Class 2 and ASTM BS8 Black Anodize  Manufacturer  Ruland Manufacturing  Country of Origin  USA  Weight (lbs)  0.573500  UPC  634529148594  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 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 normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs.	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M5		
Number of Screws       2 ea       Dynamic Torque Reversing       9.90 Nm         Angular Misalignment       2.0°       Dynamic Torque Non-Reversing       19.80 Nm         Parallel Misalignment       0.30 mm       Static Torque       39.6 Nm         Axial Motion       0.64 mm       Torsional Stiffness       67.2 Nm/Deg         Moment of Inertia       9.923 x 10°5 kg-m²       Maximum Speed       10,000 RPM         Full Bearing Support Required?       Yes       Zero-Backlash?       Yes         Balanced Design       Yes       Torque Wrench       TW.BT-4C-3/8-86         Recommended Hex Key       Metric Hex Keys       Material Specification       Hubs and Center Spacer: 2024-T351 Aluminum Bar Disc Springs: Type 302 Steel         Temperature       -40°F to 200°F (-40°C to 93°C)       Finish Specification       Sulfuric Anodized MIL-A-8 Black Anodize         Manufacturer       Ruland Manufacturing       Country of Origin       USA         Weight (lbs)       0.573500       UPC       634529148594         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 suitabili	Screw Material	Alloy Steel	Hex Wrench Size	4.0 mm		
Angular Misalignment 2.0° Dynamic Torque Non-Reversing 19.80 Nm Parallel Misalignment 0.30 mm Static Torque 39.6 Nm Axial Motion 0.64 mm Torsional Stiffness 67.2 Nm/Deg Moment of Inertia 9.923 x 10 <sup>5</sup> kg-m² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench Recommended Hex Key Material Specification Hubs and Center Spacer: 2024-T351 Aluminum Bar Disc Springs: Type 302 Si Steel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-6 II, Class 2 and ASTM B58 Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.573500 UPC 634529148594 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 appl Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs.	Screw Finish	Black Oxide	Seating Torque	9.5 Nm		
Parallel Misalignment0.30 mmStatic Torque39.6 NmAxial Motion0.64 mmTorsional Stiffness67.2 Nm/DegMoment of Inertia9.923 x 10-5 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs and Center Spacer: 2024-T351 Aluminum Bar Disc Springs: Type 302 SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8 II, Class 2 and ASTM B58 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.573500UPC634529148594Tariff 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.Note 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs.	Number of Screws	2 ea	Dynamic Torque Reversing	9.90 Nm		
Axial Motion0.64 mmTorsional Stiffness67.2 Nm/DegMoment of Inertia9.923 x 10.5 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs and Center Spacer: 2024-T351 Aluminum Bar Disc Springs: Type 302 SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationSulfuric Anodized MIL-A-8 II, Class 2 and ASTM B58 Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.573500UPC634529148594Tariff 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.	Angular Misalignment	2.0°	Dynamic Torque Non-Reversing	19.80 Nm		
Moment of Inertia       9.923 x 10.5 kg-m²       Maximum Speed       10,000 RPM         Full Bearing Support Required?       Yes       Zero-Backlash?       Yes         Balanced Design       Yes       Torque Wrench       TW:BT-4C-3/8-86         Recommended Hex Key       Metric Hex Keys       Material Specification       Hubs and Center Spacer: 2024-T351 Aluminum Bar Disc Springs: Type 302 Steel         Temperature       -40°F to 200°F (-40°C to 93°C)       Finish Specification       Sulfuric Anodized MIL-A-EII, Class 2 and ASTM B58 Black Anodize         Manufacturer       Ruland Manufacturing       Country of Origin       USA         Weight (lbs)       0.573500       UPC       634529148594         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 appl         Note 4       Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs.	Parallel Misalignment	0.30 mm	Static Torque	39.6 Nm		
Full Bearing Support Required? Yes Zero-Backlash? Yes  Balanced Design Yes Torque Wrench TW:BT-4C-3/8-86  Recommended Hex Key Metric Hex Keys Material Specification Hubs and Center Spacer: 2024-T351 Aluminum Bar Disc Springs: Type 302 Steel  Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-Fil, Class 2 and ASTM B58 Black Anodize  Manufacturer Ruland Manufacturing Country of Origin USA  Weight (lbs) 0.573500 UPC 634529148594  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 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.	Axial Motion	0.64 mm	Torsional Stiffness	67.2 Nm/Deg		
Balanced Design  Yes  Torque Wrench  Metric Hex Keys  Material Specification  Hubs and Center Spacer: 2024-T351 Aluminum Bar Disc Springs: Type 302 Si Steel  Temperature  -40°F to 200°F (-40°C to 93°C)  Finish Specification  Sulfuric Anodized MIL-A-8 II, Class 2 and ASTM B58 Black Anodize  Manufacturer  Ruland Manufacturing  Country of Origin  USA  Weight (lbs)  0.573500  UPC  634529148594  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 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.	Moment of Inertia	9.923 x 10 <sup>-5</sup> kg-m <sup>2</sup>	Maximum Speed	10,000 RPM		
Recommended Hex Key  Metric Hex Keys  Material Specification  Hubs and Center Spacer: 2024-T351 Aluminum Bar Disc Springs: Type 302 Steel  Temperature  -40°F to 200°F (-40°C to 93°C)  Finish Specification  Sulfuric Anodized MIL-A-8 II, Class 2 and ASTM B58 Black Anodize  Manufacturer  Ruland Manufacturing  Country of Origin  USA  Weight (Ibs)  0.573500  UPC  634529148594  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 appl Note 4  Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs.	Full Bearing Support Required?	Yes	Zero-Backlash?	Yes		
Temperature -40°F to 200°F (-40°C to 93°C) Finish Specification Sulfuric Anodized MIL-A-EII, Class 2 and ASTM B58 Black Anodize  Manufacturer Ruland Manufacturing Country of Origin USA  Weight (lbs) 0.573500 UPC 634529148594  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 appl Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs.	Balanced Design	Yes	Torque Wrench	TW:BT-4C-3/8-86		
Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.573500 UPC 634529148594 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 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.	Recommended Hex Key	Metric Hex Keys	Material Specification	Hubs and Center Spacer: 2024-T351 Aluminum Bar Disc Springs: Type 302 Stainless Steel		
Weight (lbs)  0.573500  UPC 634529148594  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 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.	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 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 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.	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.	Weight (lbs)	0.573500	UPC	634529148594		
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.	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.	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 springs normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs.	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.	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 capacity in the shaft/hub connection when required. Please consult technical support for more 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 MDCD51-24-18-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. (*Angular Misialignment*: 2.0°, *Parallel Misalignment*: 0.30 mm, *Axial Motion*: 0.64 mm)
- 2. Fully tighten the M5 screw on the first hub to the recommended seating torque of 9.5 Nm using a 4.0 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 30.3 mm.