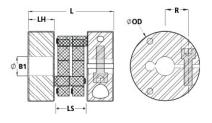




## **MCPTD56-15-A**

Ruland MCPTD56-15-A, Controlflex Coupling Hub, Aluminum, Clamp Style, 56.0mm OD, 51.0mm Length





## Description

Ruland MCPTD56-15-A is a Controlflex coupling hub with a 15mm bore, 56.0mm OD, and 51.0mm length. It is a component in a four-piece design consisting of two aluminum hubs mounted by pins to two acetal inserts creating a lightweight low inertia coupling capable of speeds up to 10,000 RPM. This four-piece design allows for a highly customizable coupling that easily combines clamp hubs with inch, metric, keyed, and keyless bores. MCPTD56-15-A has a thinner length than regular hubs allowing it to be used in confined spaces. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. Controlflex couplings have a balanced design for reduced vibrations at high speeds, can accommodate all forms of misalignment, and are an excellent fit for encoders, tachometers, and light duty stepper servo positioning applications. MCPTD56-15-A is RoHS3 and REACH compliant.

## **Product Specifications**

Outer Diameter (OD)2.205 in (56.0 mm)Bore Tolerance+0.06 mm / +0.02 mmHub Width (LH)12.00 mmLength (L)2.008 in (51.0 mm)Space Between Hubs (LS)1.062 in (27.0 mm)Forged Clamp ScrewM5Screw MaterialAlloy SteelHex Wrench Size4.0 mmScrew FinishBlack OxideSeating Torque5.7 NmScrew Location (R)21 mmNumber of Screws1 eaRated Torque16 NmTorsional Stiffness14.40 Nm/DegAxial Motion1.00 mmParallel Misalignment1.5 mmMaximum Speed10,000 RPMRecommended InsertsCPERG35/56-ATFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesWeight (Ibs)0.180200Temperature-22°F to 175°F (-30°C to 80°C)Material Specification6082 Aluminum BarFinishClear AnodizedFinish Specification6082 Aluminum BarMaufacturerSchmidt KupplungUPC634529227725Country of OriginGermanyTariff Code8483.60.8000UNSPC31163022Note 1Note 2Performance ratings are for guidance only. The user must determine suitability for a particular applicatiorNote 3Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. In some cc especially when the smallest standard bores are used on where shafts are undersized, slippage on the sh is possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please con	FIDUULL Specifications			
Hub Width (LH)       12.00 mm       Length (L)       2.008 in (51.0 mm)         Space Between Hubs (LS)       1.062 in (27.0 mm)       Forged Clamp Screw       M5         Screw Marinal       Alloy Steel       Hex Wrench Size       4.0 mm         Screw Initial       Black Oxide       Seating Torque       5.7 Nm         Screw Location (R)       21 mm       Number of Screws       1 ea         Rated Torque       14 Nm       Angular Misalignment       1.0°         Peak Torque       16 Nm       Torsional Stiffness       14.40 Nm/Deg         Axial Motion       1.00 mm       Parallel Misalignment       1.5 mm         Maximum Speed       10,000 RPM       Recommended Inserts       CPFRG35/56-AT         Full Bearing Support Required?       Yes       Zero-Backlash?       Yes         Balanced Design       Yes       Weight (Ibs)       0.180200         Temperature       -22°F to 175°F (-30°C to 80°C)       Material Specification       Glea2 Auminum Bar         Finish       Clear Anodized       Finish Specification       Glea2 Auminum Bar         UNSPC       31163022       Stainless steel hubs are available upon request.       Note 1         Note 3       Torque ratings for the couplings are based on the physical limintains/failure point of the inserts. Under n	Bore (B1)	15 mm	B1 Max Shaft Penetration	25.4 mm
Space Between Hubs (LS)       1.062 in (27.0 mm)       Forged Clamp Screw       M5         Screw Material       Alloy Steel       Hex Wrench Size       4.0 mm         Screw Finish       Black Oxide       Seating Torque       5.7 Nm         Screw Location (R)       21 mm       Number of Screws       1 ea         Rated Torque       14 Nm       Angular Misalignment       1.0°         Peak Torque       16 Nm       Torsional Stiffness       14.40 Nm/Deg         Axial Motion       1.00 mm       Parallel Misalignment       1.5 mm         Maximum Speed       10,000 RPM       Recommended Inserts       CPFRG35//56.AT         Full Bearing Support Required?       Yes       Weight (Ibs)       0.180200         Temperature       -22°F to 175°F (-30°C to 80°C)       Material Specification       6082 Aluminum Bar         Finish       Clear Anodized       Finish Specification       Clear Anodized         Country of Origin       Germany       Tariff Code       8483.60.800         UNSPC       31163022       Note 1       Stainless steel hubs are available upon request.         Note 3       Torque ratings are for guidance only. The user must determine suitability for a particular applicatior         Note 3       Torque ratings are for guidance only. The user must determine suitabilit	Outer Diameter (OD)	2.205 in (56.0 mm)	Bore Tolerance	+0.06 mm / +0.02 mm
Screw Material       Alloy Steel       Hex Wrench Size       4.0 mm         Screw Finish       Black Oxide       Seating Torque       5.7 Nm         Screw Location (R)       21 mm       Number of Screws       1 ea         Rated Torque       14 Nm       Angular Misalignment       1.0°         Peak Torque       16 Nm       Torsional Stiffness       14.40 Nm/Deg         Axial Motion       1.00 mm       Parallel Misalignment       1.5 mm         Maximum Speed       10,000 RPM       Recommended Inserts       CPERG35/56-AT         Full Bearing Support Required?       Yes       Weight (ibs)       0.180200         Temperature       -22°F to 175°F (-30°C to 80°C)       Material Specification       6082 Aluminum Bar         Finish       Clear Anodized       Finish Specification       6082 Aluminum Bar         Country of Origin       Germany       Tariff Code       8483.60.8000         UNSPC       31163022       Stainless steel hubs are available upon request.         Note 1       Stainless for the couplings are based on the physical limitations/failure point of the inserts. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In some cases server and are wanter and are wanter and to coupling to the more shafts are undersized, slippage on the shift is pososible below the rated torque. Keyways are available to provide a	Hub Width (LH)	12.00 mm	Length (L)	2.008 in (51.0 mm)
Screw Finish       Black Oxide       Seating Torque       5.7 Nm         Screw Location (R)       21 mm       Number of Screws       1 ea         Rated Torque       14 Nm       Angular Misalignment       1.0°         Peak Torque       16 Nm       Torsional Stiffness       14.40 Nm/Deg         Axial Motion       1.00 mm       Parallel Misalignment       1.5 mm         Maximum Speed       10,000 RPM       Recommended Inserts       CPERG35/56-AT         Full Bearing Support Required?       Yes       Zero-Backlash?       Yes         Balanced Design       Yes       Ves       Material Specification       6082 Alurninum Bar         Finish       Clear Anodized       Finish Specification       Clear Anodized       Manufacturer         Schmidt Kupplung       UPC       634529227725       Country of Origin       Germany       Tariff Code       8483.60.8000         UNSPC       31163022       Note 1       Stainless steel hubs are available upon request.       Note 1         Note 3       Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Under normal/typical conditions the hubs are capable of holding up to the rated torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance.         Prop 65       WARNING This product can expos	Space Between Hubs (LS)	1.062 in (27.0 mm)	Forged Clamp Screw	M5
Screw Location (R)       21 mm       Number of Screws       1 ea         Rated Torque       14 Nm       Angular Misalignment       1.0°         Peak Torque       16 Nm       Torsional Stiffness       14.40 Nm/Deg         Axial Motion       1.00 mm       Parallel Misalignment       1.5 mm         Maximum Speed       10,000 RPM       Recommended Inserts       CPERG35/56-AT         Full Bearing Support Required?       Yes       Zero-Backlash?       Yes         Balanced Design       Yes       Weight (lbs)       0.180200         Temperature       -22°F to 175°F (-30°C to 80°C)       Material Specification       6082 Aluminum Bar         Finish       Clear Anodized       Finish Specification       Clear Anodized         Manufacturer       Schmidt Kupplung       UPC       634529227725         Country of Origin       Germany       Tariff Code       8483.60.8000         UNSPC       31163022       UNSPC       31163022         Note 1       Stainless steel hubs are available upon request.       Note 2       Performance ratings are for guidance only. The user must determine suitability for a particular applicatior         Note 3       Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. In some ca         especially when the smallest st	Screw Material	Alloy Steel	Hex Wrench Size	4.0 mm
Rated Torque       14 Nm       Angular Misalignment       1.0°         Peak Torque       16 Nm       Torsional Stiffness       14.40 Nm/Deg         Axial Motion       1.00 mm       Parallel Misalignment       1.5 mm         Maximum Speed       10,000 RPM       Recommended Inserts       CPERG33/56-AT         Full Bearing Support Required?       Yes       Weight (lbs)       0.180200         Temperature       -22°F to 175°F (-30°C to 80°C)       Material Specification       Clear Anodized         Finish       Clear Anodized       Finish Specification       Clear Anodized         Manufacturer       Schmidt Kupplung       UPC       634529227725         Country of Origin       Germany       Tariff Code       8483.60.8000         UNSPC       31163022       Note 1       Stainless steel hubs are available upon request.         Note 2       Performance ratings are for guidance only. The user must determine suitability for a particular applicatior normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In some capable of holding up to the rated torque of the inserts. In some capable of holding up to the rated torque of the inserts. In some capable up novide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance.         Prop 65       MWARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel	Screw Finish	Black Oxide	Seating Torque	5.7 Nm
Peak Torque       16 Nm       Torsional Stiffness       14.40 Nm/Deg         Axial Motion       1.00 mm       Parallel Misalignment       1.5 mm         Maximum Speed       10,000 RPM       Recommendel Inserts       CPFRG35/6-AT         Full Bearing Support Require?       Yes       Zero-Backlash?       Yes         Balanced Design       Yes       Ves       Outbacklash?       Yes         Balanced Design       Yes       Zero-Backlash?       Yes         Balanced Design       UPC       634529227725       Outbacklash         Country of Origin       Germany       Tariff Code       8483.60.8000         UNSPC       31163022       Note 1       Stainless steel hubs are available upon request.         Note 2       Performance ratings are for guidance only. The user must determine suitability for a particular application	Screw Location (R)	21 mm	Number of Screws	1 ea
Axial Motion       1.00 mm       Parallel Misalignment       1.5 mm         Maximum Speed       10,000 RPM       Recommended Inserts       CPERG35/56-AT         Full Bearing Support Required?       Yes       Zero-Backlash?       Yes         Balanced Design       Yes       Weight (lbs)       0.180200         Temperature       -22°F to 175°F (-30°C to 80°C)       Material Specification       6082 Aluminum Bar         Finish       Clear Anodized       Finish Specification       Clear Anodized         Manufacturer       Schmidt Kupplung       UPC       634529227725         Country of Origin       Germany       Tariff Code       8483.60.8000         UNSPC       31163022       Note 1       Stainless steel hubs are available upon request.         Note 2       Performance ratings are for guidance only. The user must determine suitability for a particular application         Note 3       Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. Under normal/typical conditions the hubs are eavailable to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance.         Prop 65       MWARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (metalli known to the State of California to cause cancer, a	Rated Torque	14 Nm	Angular Misalignment	1.0°
Maximum Speed       10,000 RPM       Recommended Inserts       CPFRG35/56-AT         Full Bearing Support Required?       Yes       Zero-Backlash?       Yes         Balanced Design       Yes       Weight (Ibs)       0.180200         Temperature       -22°F to 175°F (-30°C to 80°C)       Material Specification       6082 Aluminum Bar         Finish       Clear Anodized       Finish Specification       Clear Anodized         Manufacturer       Schmidt Kupplung       UPC       634529227725         Country of Origin       Germany       Tariff Code       8483.60.8000         UNSPC       31163022       Note 1       Stainless steel hubs are available upon request.         Note 2       Performance ratings are for guidance only. The user must determine suitability for a particular application         Note 3       Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. Under normal/typical conditions the nuber are used or where shafts are undersized, slippage on the st is possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance.         Prop 65       MWARNING This product can expose you to chemicats including Ethyleme Thiourea known to the State of California to cause cancer, and Ethyleme Thiourea known to the State of Ca	Peak Torque	16 Nm	Torsional Stiffness	14.40 Nm/Deg
Full Bearing Support Required?       Yes       Zero-Backlash?       Yes         Balanced Design       Yes       Weight (lbs)       0.180200         Temperature       -22°F to 175°F (-30°C to 80°C)       Material Specification       6082 Aluminum Bar         Finish       Clear Anodized       Finish Specification       Clear Anodized         Manufacturer       Schmidt Kupplung       UPC       634529227725         Country of Origin       Germany       Tariff Code       8483.60.8000         UNSPC       31163022       Stainless steel hubs are available upon request.       Note 1         Note 2       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 inserts. Under normal/typical conditions the hubs are capable of holding up to the rated torque expacitly in the shaft/hub connection when required. Please consult technical support for more assistance.         Prop 65       AWARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (metalli known to the State of California to cause cancer, and Ethylene Thiourea known to the State of California cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.         Installation Instructions       1. Align the bores of the MCPTD56-15-A controlflex coupling hub on the shafts that are to be joined with the drive pins facing each other and determine if the misalignment. 1.5 mm, Axial Motion mm) <th>Axial Motion</th> <th>1.00 mm</th> <th>Parallel Misalignment</th> <th>1.5 mm</th>	Axial Motion	1.00 mm	Parallel Misalignment	1.5 mm
Balanced Design       Yes       Weight (lbs)       0.180200         Temperature       -22°F to 175°F (-30°C to 80°C)       Material Specification       6082 Aluminum Bar         Finish       Clear Anodized       Finish Specification       Clear Anodized         Manufacturer       Schmidt Kupplung       UPC       634529227725         Country of Origin       Germany       Tariff Code       8483.60.8000         UNSPC       31163022       Stainless steel hubs are available upon request.         Note 1       Stainless steel nubs 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 inserts. In some care especially when the smallest standard bores are used or where shafts are undersized, slippage on the st is possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance.         Prop 65       WARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (metalli known to the State of California to cause cancer, and Ethylene Thiourea known to the State of California cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.         Installation Instructions       1. Align the bores of the MCPTD56-15-A controlflex coupling hub on the shafts that are to be joineed with the drive pins facing each other and determine if the misalignment 1.5 mm, Axial Motion mm)       2. Rotate the hubs on the	Maximum Speed	10,000 RPM	Recommended Inserts	CPFRG35/56-AT
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Finish       Clear Anodized       Finish Specification       Clear Anodized         Manufacturer       Schmidt Kupplung       UPC       634529227725         Country of Origin       Germany       Tariff Code       8483.60.8000         UNSPC       31163022           Note 1       Stainless steel hubs are available upon request.           Note 2       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 inserts. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In some care specially when the smallest standard bores are used or where shafts are undersized, slippage on the st is possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance.         Prop 65       AWARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (metalli known to the State of California to cause cancer, and Ethylene Thiourea known to the State of California cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.         Installation Instructions       1. Align the bores of the MCPTD56-15-A controlflex coupling hub on the shafts that are to be joined with the drive pins facing each other and determine if the misalignment: 1.5 mm, Axial Motion: mm)         2. Rotate the hubs on the shaft so the drive pins are 90° from each other.	Balanced Design	Yes	Weight (Ibs)	0.180200
Manufacturer         Schmidt Kupplung         UPC         634529227725           Country of Origin         Germany         Tariff Code         8483.60.8000           UNSPC         31163022         Note 1         Stainless steel hubs are available upon request.           Note 2         Performance ratings are for guidance only. The user must determine suitability for a particular application           Note 3         Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In some care especially when the smallest standard bores are used or where shafts are undersized, slippage on the shift/hub connection when required. Please consult technical support for more assistance.           Prop 65         AWARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (metalli known to the State of California to cause cancer, and Ethylene Thiourea known to the State of California cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.           Installation Instructions         1. Align the bores of the MCPTD56-15-A controllflex coupling hub on the shafts that are to be joined with the drive pins facing each other and determine if the misalignment 1.5 mm, Axial Motion mm)           2. Rotate the hubs on the shaft so the drive pins are 90° from each other.         3. Place the first hub at the end of the shaft. Tighten the clamp screw to 5.7 Nm using a 4.0 mm he torque wrench.	Temperature	-22°F to 175°F (-30°C to 80°C)	Material Specification	6082 Aluminum Bar
Country of Origin         Germany         Tariff Code         8483.60.8000           UNSPC         31163022         Stainless steel hubs are available upon request.         Note 1         Stainless steel hubs are for guidance only. The user must determine suitability for a particular application           Note 2         Performance ratings for the couplings are based on the physical limitations/failure point of the inserts. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In some care especially when the smallest standard bores are used or where shafts are undersized, slippage on the sh is possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance.           Prop 65         MWARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (metalli known to the State of California to cause cancer, and Ethylene Thiourea known to the State of California cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.           Installation Instructions         1. Align the bores of the MCPTD56-15-A controlflex coupling hub on the shafts that are to be joined with the drive pins facing each other and determine if the misalignment: 1.5 mm, Axial Motion: mm)           2. Rotate the hubs on the shaft so the drive pins are 90° from each other.         3. Place the first hub at the end of the shaft. Tighten the clamp screw to 5.7 Nm using a 4.0 mm he torque wrench.	Finish	Clear Anodized	Finish Specification	Clear Anodized
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Note 3       Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In some care sepecially when the smallest standard bores are used or where shafts are undersized, slippage on the shis possible below the rated torque. Keyways are available to provide additional 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 (metalli known to the State of California to cause cancer, and Ethylene Thiourea known to the State of California cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.         Installation Instructions       1. Align the bores of the MCPTD56-15-A controlflex coupling hub on the shafts that are to be joined with the drive pins facing each other and determine if the misalignment parameters are within the limits of the coupling. ( <i>Angular Misialignment:</i> 1.0°, <i>Parallel Misalignment:</i> 1.5 mm, <i>Axial Motion:</i> mm)         2. Rotate the hubs on the shaft so the drive pins are 90° from each other.       3. Place the first hub at the end of the shaft. Tighten the clamp screw to 5.7 Nm using a 4.0 mm he torque wrench.	Note 1	Stainless steel hubs are available upon request.		
<ul> <li>normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In some carespecially when the smallest standard bores are used or where shafts are undersized, slippage on the shis possible below the rated torque. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance.</li> <li>Prop 65 MWARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (metalli known to the State of California to cause cancer, and Ethylene Thiourea known to the State of California cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.</li> <li>Installation Instructions         <ul> <li>Align the bores of the MCPTD56-15-A controlflex coupling hub on the shafts that are to be joined with the drive pins facing each other and determine if the misalignment parameters are within the limits of the coupling. (<i>Angular Misialignment:</i> 1.0°, <i>Parallel Misalignment:</i> 1.5 mm, <i>Axial Motion:</i> mm)</li> <li>Rotate the hubs on the shaft so the drive pins are 90° from each other.</li> <li>Place the first hub at the end of the shaft. Tighten the clamp screw to 5.7 Nm using a 4.0 mm he torque wrench.</li> </ul> </li> </ul>	Note 2	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
<ul> <li>known to the State of California to cause cancer, and Ethylene Thiourea known to the State of California cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.</li> <li>Installation Instructions         <ol> <li>Align the bores of the MCPTD56-15-A controlflex coupling hub on the shafts that are to be joined with the drive pins facing each other and determine if the misalignment parameters are within the limits of the coupling. (<i>Angular Misialignment:</i> 1.0°, <i>Parallel Misalignment:</i> 1.5 mm, <i>Axial Motion:</i> mm)</li> <li>Rotate the hubs on the shaft so the drive pins are 90° from each other.</li> <li>Place the first hub at the end of the shaft. Tighten the clamp screw to 5.7 Nm using a 4.0 mm he torque wrench.</li> </ol> </li> </ul>	Note 3	normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. 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. Keyways are available to provide additional torque capacity in the		
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		with the drive pins facing e limits of the coupling. ( <i>Ang</i> mm) 2. Rotate the hubs on the sh 3. Place the first hub at the end	ach other and determine if the misal ular Misialignment: 1.0°, Parallel Mi aft so the drive pins are 90° from ea	ignment parameters are within the salignment: 1.5 mm, Axial Motion: 1.0 ch other.
		1	standoffs facing the hub over the pi	ns of the hub that was just installed.

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- 5. Align the drive pins on the second hub to match the holes in the insert(s).
- 6. Verify that the space between hubs is 1.062 in, 27.0 mm.
- 7. Tighten the clamp screw on the second hub to the recommended seating torque of 5.7 Nm using a 4.0 mm hex torque wrench.