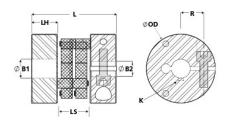




CPRDK12-6-A

Ruland CPRDK12-6-A, Controlflex Coupling Hub, Aluminum, Clamp Style With Keyway, 0.748" OD, 0.787" Length





Description

Ruland CPRDK12-6-A is a Controlflex coupling hub with a 0.3750" bore, 3/32" keyway, 0.748" OD, and 0.787" 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 25,000 RPM. This four-piece design allows for a highly customizable coupling that easily combines clamp hubs with inch, metric, keyed, and keyless bores. 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. CPRDK12-6-A is RoHS3 and REACH compliant.

Product Specifications

Keyway (K) 3/32 in Outer Diameter (OD) 0.748 in (19.0 mm) Bore Tolerance +0.002 in / +0.001 in Hub Width (LH) 0.220 in Length (L) 0.787 in (20.0 mm) Space Between Hubs (LS) 0.347 in (8.8 mm) Forged Clamp Screw #2-56 Screw Material Alloy Steel Hex Wrench Size 5/64 in Screw Finish Black Oxide Seating Torque 0.4 Nm Screw Location (R) 6.4 mm Number of Screws 1 ea Rated Torque 0.6 Nm Angular Misalignment 1.0° Peak Torque 1.4 Nm Torsional Stiffness 0.56 Nm/Deg Axial Motion 0.3 mm Parallel Misalignment 0.4 mm Maximum Speed 25,000 RPM Recommended Inserts CPFRG12/19-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.006600 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 634529223406 Country of Origin Germany Tariff Code 848.36.8000 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 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 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 especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	r roduct opecifications				
Bore Tolerance +0.002 in / +0.001 in Hub Width (LH) 0.220 in Length (L) 0.787 in (20.0 mm) Space Between Hubs (LS) 0.347 in (8.8 mm) Forged Clamp Screw #2-56 Screw Material Alloy Steel Hex Wrench Size 5/64 in Screw Finish Black Oxide Seating Torque 0.4 Nm Screw Location (R) 6.4 mm Number of Screws 1 ea Rated Torque 0.6 Nm Angular Misalignment 1.0° Peak Torque 1.4 Nm Torsional Stiffness 0.56 Nm/Deg Axial Motion 0.3 mm Parallel Misalignment 0.4 mm Maximum Speed 25,000 RPM Recommended Inserts CPFRG12/19-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (lbs) 0.006600 Temperature -22°F to 175°F (-30°C to 80°C Material Specification G82 Aluminum Bar Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529223406 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. 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 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. 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 capable of holding up to the rated torque of the inserts. In some especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Bore (B1)	0.3750 in	B1 Max Shaft Penetration	0.373 in	
Length (L) 0.787 in (20.0 mm) Space Between Hubs (LS) 0.347 in (8.8 mm) Forged Clamp Screw #2-56 Screw Material Alloy Steel Hex Wrench Size 5/64 in Screw Finish Black Oxide Seating Torque 0.4 Nm Screw Location (R) 6.4 mm Number of Screws 1 ea Rated Torque 0.6 Nm Angular Misalignment 1.0° Peak Torque 1.4 Nm Torsional Stiffness 0.56 Nm/Deg Axial Motion 0.3 mm Parallel Misalignment 0.4 mm Maximum Speed 25,000 RPM Recommended Inserts CPFRG12/19-AT Full Bearing Support Required? Yes Weight (lbs) 0.006600 Temperature -22°F to 175°F (-30°C to 80°C Material Specification Finish Clear Anodized Manufacturer Schmidt Kupplung UPC 634529223406 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 or mormal/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. Under normal/typical conditions the hubs are available to provide additional torque capacity in the	Keyway (K)	3/32 in	Outer Diameter (OD)	0.748 in (19.0 mm)	
Forged Clamp Screw #2-56 Screw Material Alloy Steel Hex Wrench Size 5/64 in Screw Finish Black Oxide Seating Torque 0.4 Nm Screw Location (R) 6.4 mm Number of Screws 1 ea Rated Torque 0.6 Nm Angular Misalignment 1.0° Peak Torque 1.4 Nm Torsional Stiffness 0.56 Nm/Deg Axial Motion 0.3 mm Parallel Misalignment 0.4 mm Maximum Speed 25,000 RPM Recommended Inserts CPFRG12/19-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.006600 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 634529223406 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 rormal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In some especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Bore Tolerance	+0.002 in / +0.001 in	Hub Width (LH)	0.220 in	
Hex Wrench Size 5/64 in Screw Finish Black Oxide Seating Torque 0.4 Nm Screw Location (R) 6.4 mm Number of Screws 1 ea Rated Torque 0.6 Nm Angular Misalignment 1.0° Peak Torque 1.4 Nm Torsional Stiffness 0.56 Nm/Deg Axial Motion 0.3 mm Parallel Misalignment 0.4 mm Maximum Speed 25,000 RPM Recommended Inserts CPFRG12/19-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (lbs) 0.006600 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 634529223406 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 especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Length (L)	0.787 in (20.0 mm)	Space Between Hubs (LS)	0.347 in (8.8 mm)	
Seating Torque 0.4 Nm Screw Location (R) 6.4 mm Number of Screws 1 ea Rated Torque 0.6 Nm Angular Misalignment 1.0° Peak Torque 1.4 Nm Torsional Stiffness 0.56 Nm/Deg Axial Motion 0.3 mm Parallel Misalignment 0.4 mm Maximum Speed 25,000 RPM Recommended Inserts CPFRG12/19-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.006600 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 634529223406 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 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 especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Forged Clamp Screw	#2-56	Screw Material	Alloy Steel	
Number of Screws 1 ea Rated Torque 0.6 Nm Angular Misalignment 1.0° Peak Torque 1.4 Nm Torsional Stiffness 0.56 Nm/Deg Axial Motion 0.3 mm Parallel Misalignment 0.4 mm Maximum Speed 25,000 RPM Recommended Inserts CPFRG12/19-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.006600 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 634529223406 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. In some especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Hex Wrench Size	5/64 in	Screw Finish	Black Oxide	
Angular Misalignment 1.0° Peak Torque 1.4 Nm Torsional Stiffness 0.56 Nm/Deg Axial Motion 0.3 mm Parallel Misalignment 0.4 mm Maximum Speed 25,000 RPM Recommended Inserts CPFRG12/19-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.006600 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 634529223406 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 Torque ratings for the couplings are based on the physical limitations/failure point of the inserts. In some especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Seating Torque	0.4 Nm	Screw Location (R)	6.4 mm	
Torsional Stiffness 0.56 Nm/Deg Axial Motion 0.3 mm Parallel Misalignment 0.4 mm Maximum Speed 25,000 RPM Recommended Inserts CPFRG12/19-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.006600 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 634529223406 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 ormal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In some especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Number of Screws	1 ea	Rated Torque	0.6 Nm	
Parallel Misalignment O.4 mm Maximum Speed 25,000 RPM CPFRG12/19-AT Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (lbs) O.006600 Temperature -22°F to 175°F (-30°C to 80°C to	Angular Misalignment	1.0°	Peak Torque	1.4 Nm	
Recommended Inserts CPFRG12/19-AT Full Bearing Support Required? Yes Ves Ves Weight (Ibs) 0.006600 Temperature -22°F to 175°F (-30°C to 80°C t	Torsional Stiffness	0.56 Nm/Deg	Axial Motion	0.3 mm	
Zero-Backlash?YesBalanced DesignYesWeight (Ibs)0.006600Temperature-22°F to 175°F (-30°C to 80°CMaterial Specification6082 Aluminum BarFinishClear AnodizedFinish SpecificationClear AnodizedManufacturerSchmidt KupplungUPC634529223406Country of OriginGermanyTariff Code8483.60.8000UNSPC31163022Note 1Stainless steel hubs are available upon request.Note 2Performance ratings are for guidance only. The user must determine suitability for a particular application.Note 3Torque 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 especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Parallel Misalignment	0.4 mm	Maximum Speed	25,000 RPM	
Weight (lbs) 0.006600 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 634529223406 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 and 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 especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Recommended Inserts	CPFRG12/19-AT	Full Bearing Support Required?	Yes	
Material Specification 6082 Aluminum Bar Finish Clear Anodized Manufacturer Schmidt Kupplung Germany Germany Tariff Code 8483.60.8000 UNSPC Stainless steel hubs are available upon request. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application application 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 especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Zero-Backlash?	Yes	Balanced Design	Yes	
Finish Specification Clear Anodized Manufacturer Schmidt Kupplung 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 or 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 especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Weight (lbs)	0.006600	Temperature	-22°F to 175°F (-30°C to 80°C)	
UPC 634529223406 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 or 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 especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Material Specification	6082 Aluminum Bar	Finish	Clear Anodized	
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 of the inserts. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In some especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Finish Specification	Clear Anodized	Manufacturer	Schmidt Kupplung	
Note 1 Stainless steel hubs are available upon request. Performance ratings are for guidance only. The user must determine suitability for a particular application of the s	UPC	634529223406	Country of Origin	Germany	
Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application of the suit	Tariff Code	8483.60.8000	UNSPC	31163022	
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 especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Note 1	Stainless steel hubs are available upon request.			
normal/typical conditions the hubs are capable of holding up to the rated torque of the inserts. In some especially when the smallest standard bores are used or where shafts are undersized, slippage on the is possible below the rated torque. Keyways are available to provide additional torque capacity in the	Note 2	Performance ratings are for guidance only. The user must determine suitability for a particular application.			
chairmas connection when required. I lease consult technical support for more assistance.	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			

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 www.P65Warnings.ca.gov.

Installation Instructions

- 1. Align the bores of the CPRDK12-6-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. (Angular Misialignment: 1.0°, Parallel Misalignment: 0.4 mm, Axial Motion: 0.3 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 0.4 Nm using a 5/64 in hex torque wrench.
- 4. Place an insert(s) with the standoffs facing the hub over the pins of the hub that was just installed.
- 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 0.347 in, 8.8 mm.

 Iighten the clamp screw on the second hub to the recommended seating torque of 0.4 Nm using 5/64 in hex torque wrench. 	а