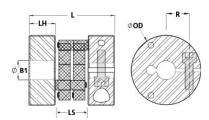




MCPRD56-18-A

Ruland MCPRD56-18-A, Controlflex Coupling Hub, Aluminum, Clamp Style, 56.0mm OD, 57.0mm Length





Description

Ruland MCPRD56-18-A is a Controlflex coupling hub with a 18mm bore, 56.0mm OD, and 57.0mm 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. 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. MCPRD56-18-A is RoHS3 and REACH compliant.

Product Specifications

Hub Width (LH) 15.00 mm Length (L) 2.244 in (57. Space Between Hubs (LS) 1.062 in (27.0 mm) Forged Clamp Screw M6 Screw Material Alloy Steel Hex Wrench Size 5.0 mm Screw Finish Black Oxide Seating Torque 8.0 Nm Screw Location (R) 19.3 mm Number of Screws 1 ea Rated Torque 14 Nm Angular Misalignment 1.0° Peak Torque 18 Nm Torsional Stiffness 14.40 Nm/De Axial Motion 1.00 mm Parallel Misalignment 1.5 mm Maximum Speed 10,000 RPM Recommended Inserts CPFRG35/5/ Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.216100 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Alumin Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 6345292252 Country of Origin Germany Tariff Code 8483.60.800 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 p Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the ormal/typical conditions the hubs are capable of holding up to the rated torque of the especially when the smallest standard bores are used or where shafts are undersized is possible below the rated torque. Keyways are available to provide additional torque shaft/hub connection when required. Please consult technical support for more assists Prop 65	duct opecifications			
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Space Between Hubs (LS) 1.062 in (27.0 mm) Forged Clamp Screw M6 Screw Material Alloy Steel Hex Wrench Size 5.0 mm Screw Finish Black Oxide Seating Torque 8.0 Nm Screw Location (R) 19.3 mm Number of Screws 1 ea Rated Torque 14 Nm Angular Misalignment 1.0° Peak Torque 18 Nm Torsional Stiffness 14.40 Nm/De Axial Motion 1.00 mm Parallel Misalignment 1.5 mm Maximum Speed 10,000 RPM Recommended Inserts CPFRG35/5 Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (lbs) 0.216100 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Alumin Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 6345292252 Country of Origin Germany Tariff Code 8483.60.800 UNSPC 31163022 Note 1 Stainless steel hubs are available upon request. N	er Diameter (OD)	2.205 in (56.0 mm)	Bore Tolerance	+0.06 mm / +0.02 mm
Screw Material Alloy Steel Black Oxide Seating Torque 8.0 Nm Screw Location (R) 19.3 mm Number of Screws 1 ea Rated Torque 14 Nm Angular Misalignment 1.0° Peak Torque 18 Nm Torsional Stiffness 14.40 Nm/De Axial Motion 1.00 mm Parallel Misalignment 1.5 mm Maximum Speed 10,000 RPM Recommended Inserts CPFRG35/5/ Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.216100 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 6345292252 Country of Origin Germany Tariff Code 8483.60.800 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 p Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the especially when the smallest standard bores are used or where shafts are undersized is possible below the rated torque. Keyways are available to provide additional torque shaft/hub connection when required. Please consult technical support for more assists Prop 65 ▲WARNING This product can expose you to chemicals including Ethylene Thiourea	Width (LH)	15.00 mm	Length (L)	2.244 in (57.0 mm)
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Maximum Speed 10,000 RPM Recommended Inserts CPFRG35/56 Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (lbs) 0.216100 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Alumin Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 6345292252 Country of Origin Germany Tariff Code 8483.60.800 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 p Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the normal/typical conditions the hubs are capable of holding up to the rated torque of the especially when the smallest standard bores are used or where shafts are undersized is possible below the rated torque. Keyways are available to provide additional torque shaft/hub connection when required. Please consult technical support for more assists Prop 65 WARNING This product can expose you to chemicals including Ethylene Thiourea	k Torque	18 Nm	Torsional Stiffness	14.40 Nm/Deg
Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.216100 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Alumin Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 6345292252 Country of Origin Germany Tariff Code 8483.60.800 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 p Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the normal/typical conditions the hubs are capable of holding up to the rated torque of the especially when the smallest standard bores are used or where shafts are undersized is possible below the rated torque. Keyways are available to provide additional torque shaft/hub connection when required. Please consult technical support for more assists Prop 65 ■ WARNING This product can expose you to chemicals including Ethylene Thiourea	Il Motion	1.00 mm	Parallel Misalignment	1.5 mm
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	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 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 shaft/hub connection when required. Please consult technical support for more assistance.		
known to the state of Samornia to Sados Sancon, and Early one inhoused known to the	o 65	▲WARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (metallic), known to the State of California to cause cancer, and Ethylene Thiourea known to the State of California to		

Installation Instructions

1. Align the bores of the MCPRD56-18-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:* 1.5 mm, *Axial Motion:* 1.0 mm)

cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

- 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 8.0 Nm using a 5.0 mm 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 1.062 in, 27.0 mm.
- 7. Tighten the clamp screw on the second hub to the recommended seating torque of 8.0 Nm using a 5.0 mm hex torque wrench.