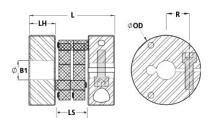




## **MCPRD56-17-A**

Ruland MCPRD56-17-A, Controlflex Coupling Hub, Aluminum, Clamp Style, 56.0mm OD, 57.0mm Length





## **Description**

Ruland MCPRD56-17-A is a Controlflex coupling hub with a 17mm 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. MCPRD56-17-A is RoHS3 and REACH compliant.

**Product Specifications** 

Hub Width (LH) 15.00 mm Length (L) 2.244 in (57.01 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/Deg Axial Motion 1.00 mm Parallel Misalignment 1.5 mm Maximum Speed 10,000 RPM Recommended Inserts CPFRG35/56- 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 Aluminur Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225288 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 par 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 in especially when the smallest standard bores are used or where shafts are undersized, sip spossible below the rated torque. Keyways are available to provide additional torque of shaft/hub connection when required. Please consult technical support for more assistan Prop 65	Froduct Specifications			
Hub Width (LH) 15.00 mm Length (L) 2.244 in (57.00 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/Deg Axial Motion 1.00 mm Parallel Misalignment 1.5 mm Maximum Speed 10,000 RPM Recommended Inserts CPFRG35/56-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 Aluminur Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225288 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 par 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 in 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 of shaft/hub connection when required. Please consult technical support for more assistan Prop 65	Bore (B1)	17 mm	B1 Max Shaft Penetration	15.0 mm
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/Deg         Axial Motion       1.00 mm       Parallel Misalignment       1.5 mm         Maximum Speed       10,000 RPM       Recommended Inserts       CPFRG35/56-7         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 Aluminur         Finish       Clear Anodized       Finish Specification       Clear Anodized         Manufacturer       Schmidt Kupplung       UPC       634529225288         Country of Origin       Germany       Tariff Code       8483.60.8000         UNSPC       31163022         Note 1       Stainless steel hubs are available upon request.	Outer Diameter (OD)	2.205 in (56.0 mm)	Bore Tolerance	+0.06 mm / +0.02 mm
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/Deg  Axial Motion 1.00 mm Parallel Misalignment 1.5 mm  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 Aluminur  Finish Clear Anodized Finish Specification Clear Anodized  Manufacturer Schmidt Kupplung UPC 634529225288  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 par  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 in ormal/typical conditions the hubs are capable of holding up to the rated torque of the in ormal/typical conditions the hubs are capable of holding up to the rated torque of the in ormal/typical conditions the hubs are capable of holding up to the rated torque of the in ormal/typical conditions the hubs are capable of holding up to the rated torque of the in ormal/typical conditions the hubs are capable of holding up to the rated torque of the in ormal/typical conditions the hubs are capable of holding up to the rated torque of the in ormal/typical conditions the hubs are capable of holding up to the rated torque of the in ormal/typical conditions the hubs are capable of holding up to the rated torque of the in ormal/typical conditions the hubs are capable of holding up to the rated torque of the in ormal/typical conditions the hubs are capable of holding up to the rated torque of the in ormal typical conditions the hubs are capable of holding up to the rated torque of the in or	Hub Width (LH)	15.00 mm	Length (L)	2.244 in (57.0 mm)
Screw Finish 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/Deg Axial Motion 1.00 mm Parallel Misalignment 1.5 mm 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 Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225288 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 par 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 in especially when the smallest standard bores are used or where shafts are undersized, s is possible below the rated torque. Keyways are available to provide additional torque of shaft/hub connection when required. Please consult technical support for more assistan Prop 65  ■ WARNING This product can expose you to chemicals including Ethylene Thiourea as	Space Between Hubs (LS)	1.062 in (27.0 mm)	Forged Clamp Screw	M6
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/Deg  Axial Motion  1.00 mm  Parallel Misalignment  1.5 mm  Maximum Speed  10,000 RPM  Recommended Inserts  CPFRG35/56-  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  Clear Anodized  Manufacturer  Schmidt Kupplung  UPC  634529225288  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 par  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 in especially when the smallest standard bores are used or where shafts are undersized, s is possible below the rated torque. Keyways are available to provide additional torque of the conformal conditions when required. Please consult technical support for more assistan  Prop 65	Screw Material	Alloy Steel	Hex Wrench Size	5.0 mm
Rated Torque  14 Nm  Angular Misalignment  1.0°  Peak Torque  18 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- Full Bearing Support Required? Yes  Balanced Design  Yes  Weight (Ibs)  0.216100  Temperature  -22°F to 175°F (-30°C to 80°C)  Material Specification  Clear Anodized  Finish Specification  Clear Anodized  Manufacturer  Schmidt Kupplung  UPC  634529225288  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 par  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 in especially when the smallest standard bores are used or where shafts are undersized, s is possible below the rated torque. Keyways are available to provide additional torque of shaft/hub connection when required. Please consult technical support for more assistan  Prop 65	Screw Finish	Black Oxide	Seating Torque	8.0 Nm
Peak Torque  18 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- Full Bearing Support Required? Yes  Balanced Design  Yes  Weight (lbs)  0.216100  Temperature  -22°F to 175°F (-30°C to 80°C)  Material Specification  6082 Aluminum Finish  Clear Anodized  Finish Specification  Clear Anodized  Manufacturer  Schmidt Kupplung  UPC  634529225288  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 par  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 in especially when the smallest standard bores are used or where shafts are undersized, s is possible below the rated torque. Keyways are available to provide additional torque of the shaft/hub connection when required. Please consult technical support for more assistan  Prop 65	Screw Location (R)	19.3 mm	Number of Screws	1 ea
Axial Motion  1.00 mm  Parallel Misalignment  1.5 mm  Maximum Speed  10,000 RPM  Recommended Inserts  CPFRG35/56-7  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 Aluminum  Finish  Clear Anodized  Finish Specification  Clear Anodized  Manufacturer  Schmidt Kupplung  UPC  634529225288  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 par  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 ir especially when the smallest standard bores are used or where shafts are undersized, s is possible below the rated torque. Keyways are available to provide additional torque of shaft/hub connection when required. Please consult technical support for more assistan  Prop 65	Rated Torque	14 Nm	Angular Misalignment	1.0°
Maximum Speed 10,000 RPM Recommended Inserts CPFRG35/56- 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 Aluminum Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225288 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 par 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 in especially when the smallest standard bores are used or where shafts are undersized, sis possible below the rated torque. Keyways are available to provide additional torque of shaft/hub connection when required. Please consult technical support for more assistan  Prop 65  ■ WARNING This product can expose you to chemicals including Ethylene Thiourea as	Peak 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 Aluminur  Finish Clear Anodized Finish Specification Clear Anodized  Manufacturer Schmidt Kupplung UPC 634529225288  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 par  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 in especially when the smallest standard bores are used or where shafts are undersized, so is possible below the rated torque. Keyways are available to provide additional torque of shaft/hub connection when required. Please consult technical support for more assistant  Prop 65	Axial Motion	1.00 mm	Parallel Misalignment	1.5 mm
Balanced Design Yes Weight (Ibs) 0.216100 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Aluminur Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 634529225288 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 par 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 in especially when the smallest standard bores are used or where shafts are undersized, s is possible below the rated torque. Keyways are available to provide additional torque of shaft/hub connection when required. Please consult technical support for more assistan Prop 65  ■ WARNING This product can expose you to chemicals including Ethylene Thiourea as	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 634529225288 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 par 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 in especially when the smallest standard bores are used or where shafts are undersized, s is possible below the rated torque. Keyways are available to provide additional torque of shaft/hub connection when required. Please consult technical support for more assistan  Prop 65	Balanced Design	Yes	Weight (lbs)	0.216100
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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 par  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 in especially when the smallest standard bores are used or where shafts are undersized, s is possible below the rated torque. Keyways are available to provide additional torque of shaft/hub connection when required. Please consult technical support for more assistan  Prop 65  ▲WARNING This product can expose you to chemicals including Ethylene Thiourea as	Manufacturer	Schmidt Kupplung	UPC	634529225288
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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 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.		
,	Prop 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 MCPRD56-17-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.