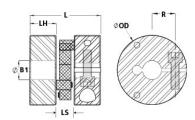




MCPRS75-19-A

Ruland MCPRS75-19-A, Controlflex Coupling Hub, Aluminum, Clamp Style, 75.0mm OD, 57.0mm Length





Description

Ruland MCPRS75-19-A is a Controlflex coupling hub with a 19mm bore, 75.0mm OD, and 57.0mm length. It is a component in a three-piece design consisting of two aluminum hubs mounted by pins to one acetal insert creating a lightweight low inertia coupling capable of speeds up to 10,000 RPM. This three-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. MCPRS75-19-A is RoHS3 and REACH compliant.

Product Specifications

Hub Width (LH) 18.0 mm Length (L) 2.244 in (57.0 Space Between Hubs (LS) 0.826 in (21.0 mm) Forged Clamp Screw M8 Screw Material Alloy Steel Hex Wrench Size 6.0 mm Screw Finish Black Oxide Seating Torque 24.0 Nm Screw Location (R) 25 mm Number of Screws 1 ea Rated Torque 15 Nm Angular Misalignment 1.5° Peak Torque 22 Nm Torsional Stiffness 10.50 Nm/Deg Axial Motion 1.50 mm Parallel Misalignment 2.0 mm Maximum Speed 7,500 RPM Recommended Inserts CPFRG48/75- Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (lbs) 0.465800 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 63452922670 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 pa 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	Froduct Specifications			
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Space Between Hubs (LS) 0.826 in (21.0 mm) Forged Clamp Screw M8 Screw Material Alloy Steel Hex Wrench Size 6.0 mm Screw Finish Black Oxide Seating Torque 24.0 Nm Screw Location (R) 25 mm Number of Screws 1 ea Rated Torque 15 Nm Angular Misalignment 1.5° Peak Torque 22 Nm Torsional Stiffness 10.50 Nm/Deg Axial Motion 1.50 mm Parallel Misalignment 2.0 mm Maximum Speed 7,500 RPM Recommended Inserts CPFRG48/75- Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (lbs) 0.465800 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 63452922670- Country of Origin Germany Tariff Code 8483.60.8000 UNSPC 31163022 Note 1 Stainless steel hubs are available upon request.	Outer Diameter (OD)	2.953 in (75.0 mm)	Bore Tolerance	+0.07 mm / +0.02 mm
Screw Material Alloy Steel Hex Wrench Size 6.0 mm Screw Finish Black Oxide Seating Torque 24.0 Nm Screw Location (R) 25 mm Number of Screws 1 ea Rated Torque 15 Nm Angular Misalignment 1.5° Peak Torque 22 Nm Torsional Stiffness 10.50 Nm/Deg Axial Motion 1.50 mm Parallel Misalignment 2.0 mm Maximum Speed 7,500 RPM Recommended Inserts CPFRG48/75- Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.465800 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 63452922670 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 pa 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 assistar Prop 65	Hub Width (LH)	18.0 mm	Length (L)	2.244 in (57.0 mm)
Screw Finish Screw Location (R) 25 mm Number of Screws 1 ea Rated Torque 15 Nm Angular Misalignment 1.5° Peak Torque 22 Nm Torsional Stiffness 10.50 Nm/Deg Axial Motion 1.50 mm Parallel Misalignment 2.0 mm Maximum Speed 7,500 RPM Recommended Inserts CPFRG48/75- Full Bearing Support Required? Yes Balanced Design Yes Weight (lbs) 0.465800 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 63452922670 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 pa 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 assistar Prop 65	Space Between Hubs (LS)	0.826 in (21.0 mm)	Forged Clamp Screw	M8
Screw Location (R) 25 mm Number of Screws 1 ea Rated Torque 15 Nm Angular Misalignment 1.5° Peak Torque 22 Nm Torsional Stiffness 10.50 Nm/Deg Axial Motion 1.50 mm Parallel Misalignment 2.0 mm Maximum Speed 7,500 RPM Recommended Inserts CPFRG48/75- Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (lbs) 0.465800 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 63452922670 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 pa 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 assistar Prop 65	Screw Material	Alloy Steel	Hex Wrench Size	6.0 mm
Rated Torque 15 Nm Angular Misalignment 1.5° Peak Torque 22 Nm Torsional Stiffness 10.50 Nm/Deg Axial Motion 1.50 mm Parallel Misalignment 2.0 mm Maximum Speed 7,500 RPM Recommended Inserts CPFRG48/75- Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.465800 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 63452922670. 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 pa 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 assistar Prop 65	Screw Finish	Black Oxide	Seating Torque	24.0 Nm
Peak Torque 22 Nm Torsional Stiffness 10.50 Nm/Deg Axial Motion 1.50 mm Parallel Misalignment 2.0 mm Maximum Speed 7,500 RPM Recommended Inserts CPFRG48/75- Full Bearing Support Required? Yes Balanced Design Yes Weight (lbs) 0.465800 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 63452922670 Country of Origin Germany Tariff Code 8483.60.8000 UNSPC 31163022 Note 1 Note 2 Performance ratings are for guidance only. The user must determine suitability for a pa 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 assistar Prop 65 ■ WARNING This product can expose you to chemicals including Ethylene Thiourea as	Screw Location (R)	25 mm	Number of Screws	1 ea
Axial Motion 1.50 mm Parallel Misalignment 2.0 mm Maximum Speed 7,500 RPM Recommended Inserts CPFRG48/75- Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.465800 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 63452922670- 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 part of the informal/typical conditions the hubs are capable of holding up to the rated torque of the informal/typical conditions the hubs are capable of holding up to the rated torque of the informal/typical conditions the hubs are available to provide additional torque of shaft/hub connection when required. Please consult technical support for more assistar Prop 65 WARNING This product can expose you to chemicals including Ethylene Thiourea as	Rated Torque	15 Nm	Angular Misalignment	1.5°
Maximum Speed 7,500 RPM Recommended Inserts CPFRG48/75- Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (Ibs) 0.465800 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 63452922670 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 pa 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 assistar Prop 65	Peak Torque	22 Nm	Torsional Stiffness	10.50 Nm/Deg
Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Weight (lbs) 0.465800 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 63452922670 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 part 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 assistant Prop 65 ■ WARNING This product can expose you to chemicals including Ethylene Thiourea as the standard bores are used or where shafts are undersized. Prop 65	Axial Motion	1.50 mm	Parallel Misalignment	2.0 mm
Balanced Design Yes Weight (lbs) 0.465800 Temperature -22°F to 175°F (-30°C to 80°C) Material Specification 6082 Aluminum 6082	Maximum Speed	7,500 RPM	Recommended Inserts	CPFRG48/75-AT
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 63452922670 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 pa 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 assistar Prop 65 ■ WARNING This product can expose you to chemicals including Ethylene Thiourea as	Full Bearing Support Required?	Yes	Zero-Backlash?	Yes
Finish Clear Anodized Finish Specification Clear Anodized Manufacturer Schmidt Kupplung UPC 63452922670 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 part 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 interpretation 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 ■ ■ WARNING This product can expose you to chemicals including Ethylene Thiourea and the provide additional torque of the interpretation is possible below the rated torque. Keyways are available to provide additional torque of the interpretation is possible below the rated torque. Please consult technical support for more assistant Prop 65	Balanced Design	Yes	Weight (lbs)	0.465800
Manufacturer Schmidt Kupplung UPC 63452922670 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 pa 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 assistar Prop 65 ■ WARNING This product can expose you to chemicals including Ethylene Thiourea as	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 Note 1 Stainless steel hubs are available upon request. Note 2 Performance ratings are for guidance only. The user must determine suitability for a pa 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 assistar Prop 65 ■WARNING This product can expose you to chemicals including Ethylene Thiourea as	Finish	Clear Anodized	Finish Specification	Clear Anodized
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 part of the physical limitations/failure point of the normal/typical conditions the hubs are capable of holding up to the rated torque of the interpretability 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 assistar ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	Manufacturer	Schmidt Kupplung	UPC	634529226704
Note 1 Stainless steel hubs are available upon request. Note 2 Performance ratings are for guidance only. The user must determine suitability for a pa 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 shaft/hub connection when required. Please consult technical support for more assistar Prop 65 WARNING This product can expose you to chemicals including Ethylene Thiourea as	Country of Origin	Germany	Tariff Code	8483.60.8000
Note 2 Performance ratings are for guidance only. The user must determine suitability for a part 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 interpretable 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 assistant Prop 65 WARNING This product can expose you to chemicals including Ethylene Thiourea as	UNSPC	31163022		
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 assistant. Prop 65 WARNING This product can expose you to chemicals including Ethylene Thiourea as	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 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 assistant. Prop 65 WARNING This product can expose you to chemicals including Ethylene Thiourea as	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 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 MCPRS75-19-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:* 1.5°, *Parallel Misalignment:* 2.0 mm, *Axial Motion:* 1.5 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 24.0 Nm using a 6.0 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 0.826 in, 21.0 mm.
- 7. Tighten the clamp screw on the second hub to the recommended seating torque of 24.0 Nm using a 6.0 mm hex torque wrench.