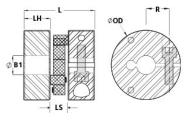




## MCPRS56-12-A

Ruland MCPRS56-12-A, Controlflex Coupling Hub, Aluminum, Clamp Style, 56.0mm OD, 45.0mm Length





## Description

Ruland MCPRS56-12-A is a Controlflex coupling hub with a 12mm bore, 56.0mm OD, and 45.0mm 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. MCPRS56-12-A is RoHS3 and REACH compliant.

## **Product Specifications**

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Bore (B1)	12 mm	B1 Max Shaft Penetration	22.4 mm
Outer Diameter (OD)	2.205 in (56.0 mm)	Bore Tolerance	+0.06 mm / +0.02 mm
Hub Width (LH)	15.0 mm	Length (L)	1.772 in (45.0 mm)
Space Between Hubs (LS)	0.590 in (15.0 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	7 Nm	Angular Misalignment	1.5°
Peak Torque	10 Nm	Torsional Stiffness	7.20 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)	0.200600
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	634529226513
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 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	<b>WARNING</b> 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 <u>www.P65Warnings.ca.gov</u> .		
Installation Instructions	with the drive pins facing e	PRS56-12-A controlflex coupling hub each other and determine if the misal ular Misialignment: 1.5°, Parallel Mi	

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- 2. Rotate the hubs on the shaft so the drive pins are  $90^{\circ}$  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 0.590 in, 15.0 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.