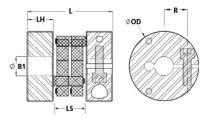




## MCPRD19-5-A

Ruland MCPRD19-5-A, Controlflex Coupling Hub, Aluminum, Clamp Style, 19.0mm OD, 20.0mm Length





## Description

Ruland MCPRD19-5-A is a Controlflex coupling hub with a 5mm bore, 19.0mm OD, and 20.0mm 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 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. MCPRD19-5-A is RoHS3 and REACH compliant.

## **Product Specifications**

5 mm	<b>B1 Max Shaft Penetration</b>	9.9 mm
0.748 in (19.0 mm)	Bore Tolerance	+0.04 mm / +0.01 mm
5.64 mm	Length (L)	0.787 in (20.0 mm)
0.347 in (8.8 mm)	Forged Clamp Screw	#2-56
Alloy Steel	Hex Wrench Size	5/64 in
Black Oxide	Seating Torque	0.4 Nm
6.4 mm	Number of Screws	1 ea
0.6 Nm	Angular Misalignment	1.0°
1.4 Nm	Torsional Stiffness	0.56 Nm/Deg
0.3 mm	Parallel Misalignment	0.4 mm
25,000 RPM	Recommended Inserts	CPFRG12/19-AT
Yes	Zero-Backlash?	Yes
Yes	Weight (Ibs)	0.006600
-22°F to 175°F (-30°C to 80°C)	Material Specification	6082 Aluminum Bar
Clear Anodized	Finish Specification	Clear Anodized
Schmidt Kupplung	UPC	634529224946
Germany	Tariff Code	8483.60.8000
31163022		
Stainless steel hubs are available upon request.		
Performance ratings are for guidance only. The user must determine suitability for a particular application.		
normal/typical conditions the hubs a especially when the smallest standa is possible below the rated torque.	are capable of holding up to the rated ard bores are used or where shafts a Keyways are available to provide ad	d torque of the inserts. In some cases are undersized, slippage on the shaft ditional torque capacity in the
known to the State of California to c	ause cancer, and Ethylene Thiourea	a known to the State of California to
	0.748 in (19.0 mm) 5.64 mm 0.347 in (8.8 mm) Alloy Steel Black Oxide 6.4 mm 0.6 Nm 1.4 Nm 0.3 mm 25,000 RPM Yes Yes -22°F to 175°F (-30°C to 80°C) Clear Anodized Schmidt Kupplung Germany 31163022 Stainless steel hubs are available u Performance ratings are for guidance Torque ratings for the couplings are normal/typical conditions the hubs are especially when the smallest standard is possible below the rated torque. If shaft/hub connection when required <b>MWARNING</b> This product can exp known to the State of California to compare the standard of the state of California to compare the standard of the state of California to compare the state of compare the s	0.748 in (19.0 mm)Bore Tolerance5.64 mmLength (L)0.347 in (8.8 mm)Forged Clamp ScrewAlloy SteelHex Wrench SizeBlack OxideSeating Torque6.4 mmNumber of Screws0.6 NmAngular Misalignment1.4 NmTorsional Stiffness0.3 mmParallel Misalignment25,000 RPMRecommended InsertsYesZero-Backlash?YesWeight (lbs)-22°F to 175°F (-30°C to 80°C)Material SpecificationClear AnodizedFinish SpecificationSchmidt KupplungUPCGermanyTariff Code31163022Stainless steel hubs are available upon request.

- 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.
  - 7. Tighten the clamp screw on the second hub to the recommended seating torque of 0.4 Nm using a 5/64 in hex torque wrench.