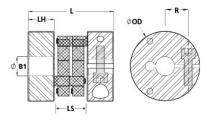




CPTD35-18-A

Ruland CPTD35-18-A, Controlflex Coupling Hub, Aluminum, Clamp Style, 2.205" OD, 2.008" Length





Description

Ruland CPTD35-18-A is a Controlflex coupling hub with a 1.1250" bore, 2.205" OD, and 2.008" 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. CPTD35-18-A has a thinner length than regular hubs allowing it to be used in confined spaces. 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. CPTD35-18-A is RoHS3 and REACH compliant.

Product Specifications

Froduct Specifications			
Bore (B1)	1.1250 in	B1 Max Shaft Penetration	0.984 in
Outer Diameter (OD)	2.205 in (56.0 mm)	Bore Tolerance	+0.003 in / +0.001 in
Hub Width (LH)	0.472 in	Length (L)	2.008 in (51.0 mm)
Space Between Hubs (LS)	1.062 in (27.0 mm)	Forged Clamp Screw	M5
Screw Material	Alloy Steel	Hex Wrench Size	4.0 mm
Screw Finish	Black Oxide	Seating Torque	5.7 Nm
Screw Location (R)	21 mm	Number of Screws	1 ea
Rated Torque	14 Nm	Angular Misalignment	1.0°
Peak Torque	16 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-AT
Full Bearing Support Required?	Yes	Zero-Backlash?	Yes
Balanced Design	Yes	Weight (Ibs)	0.172000
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	634529224366
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	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 cause birth defects or other reproductive harm. For more information go to <u>www.P65Warnings.ca.gov</u> .		
Installation Instructions	 the drive pins facing each the coupling. (<i>Angular Mis</i> 2. Rotate the hubs on the sh 3. Place the first hub at the e torque wrench. 4. Place an insert(s) with the 	other and determine if the misalignme <i>ialignment:</i> 1.0°, <i>Parallel Misalignme</i> aft so the drive pins are 90° from ea nd of the shaft. Tighten the clamp so	ch other. crew to 5.7 Nm using a 4.0 mm hex ins of the hub that was just installed.

- 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 5.7 Nm using a 4.0 mm hex torque wrench.