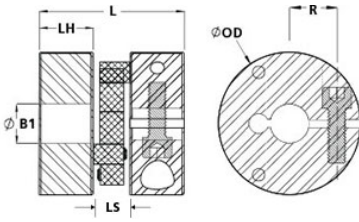




CPTS23-10-A

Ruland CPTS23-10-A, Controflex Coupling Hub, Aluminum, Clamp Style, 1.457" OD, 0.945" Length




Description

Ruland CPTS23-10-A is a Controflex coupling hub with a 0.6250" bore, 1.457" OD, and 0.945" 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 22,000 RPM. This three-piece design allows for a highly customizable coupling that easily combines clamp hubs with inch, metric, keyed, and keyless bores. CPTS23-10-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. Controflex 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. CPTS23-10-A is RoHS3 and REACH compliant.

Product Specifications

Bore (B1)	0.6250 in	B1 Max Shaft Penetration	0.452 in
Outer Diameter (OD)	1.457 in (37.0 mm)	Bore Tolerance	+0.002 in / +0.001 in
Hub Width (LH)	0.276 in	Length (L)	0.945 in (24.0 mm)
Space Between Hubs (LS)	0.393 in (10.0 mm)	Forged Clamp Screw	M3
Screw Material	Alloy Steel	Hex Wrench Size	2.5 mm
Screw Finish	Black Oxide	Seating Torque	1.3 Nm
Screw Location (R)	14 mm	Number of Screws	1 ea
Rated Torque	2 Nm	Angular Misalignment	1.5°
Peak Torque	3 Nm	Torsional Stiffness	1.70 Nm/Deg
Axial Motion	0.70 mm	Parallel Misalignment	1.0 mm
Maximum Speed	15,000 RPM	Recommended Inserts	CPFRG23/37-AT
Full Bearing Support Required?	Yes	Zero-Backlash?	Yes
Balanced Design	Yes	Weight (lbs)	0.039700
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	634529224601
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 www.P65Warnings.ca.gov.

Installation Instructions

- Align the bores of the CPTS23-10-A controflex 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 Misalignment: 1.5°, Parallel Misalignment: 1.0 mm, Axial Motion: 0.7 mm*)
- Rotate the hubs on the shaft so the drive pins are 90° from each other.
- Place the first hub at the end of the shaft. Tighten the clamp screw to 1.3 Nm using a 2.5 mm hex torque wrench.
- Place an insert(s) with the standoffs facing the hub over the pins of the hub that was just installed.
- Align the drive pins on the second hub to match the holes in the insert(s).

6. Verify that the space between hubs is 0.393 in, 10.0 mm.
 7. Tighten the clamp screw on the second hub to the recommended seating torque of 1.3 Nm using a 2.5 mm hex torque wrench.
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