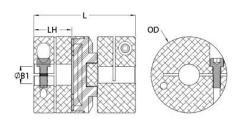




OCT12-4-A

Ruland OCT12-4-A, 1/4" Oldham Coupling Hub, Aluminum, Clamp Style, 0.750" OD, 0.380" Length





Description

Ruland OCT12-4-A is a clamp oldham coupling hub with a 0.2500" bore, 0.750" OD, and 0.380" length. It is a component of a three-piece design consisiting of two anodized aluminum hubs press fit onto a center disk. This three-piece design allows for a highly customizable coupling that easily combines clamp or set screw hubs with inch, metric, keyed, and keyless bores. Disks are available in three materials allowing the user to tailor coupling performance to their application. OCT12-4-A can accommodate all forms of misalignment and is especially useful in applications with high parallel misalignment (up to 10% of the OD). It operates with low bearing loads protecting sensitive system components such as bearings and has a balanced design for reduced vibration at speeds up to 6,000 RPM. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. OCT12-4-A is machined from bar stock that is sourced exclusively from North American mills and is RoHS3 and REACH compliant. It is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

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Bore (B1)	0.2500 in	Outer Diameter (OD)	0.750 in (19.1 mm)	
31 Max Shaft Penetration	0.380 in	Bore Tolerance	+0.001 in / -0.000 in	
lub Width (LH)	0.380 in	Length (L)	1.000 in (25.4 mm)	
Recommended Shaft Tolerance	+0.0000 in / -0.0005 in	Forged Clamp Screw	M2.5	
Number of Screws	1 ea	Screw Material	Alloy Steel	
Screw Finish	Black Oxide	Seating Torque	1.21 Nm	
Hex Wrench Size	2.0 mm	Torque Specifications	Torque ratings vary with insert selection	
Angular Misalignment	0.5°	Parallel Misalignment	0.008 in (0.20 mm)	
Max Parallel Misalignment	0.075 in (1.91 mm)	Axial Motion	0.004 in (0.10 mm)	
Moment of Inertia	0.0012 lb-in ²	Maximum Speed	4,500 RPM	
Recommended Inserts	OD12/19-AT, OD12/19-NL, OD12/19-PEK	Full Bearing Support Required?	Yes	
Zero-Backlash?	Yes	Balanced Design	Yes	
Mechanical Fuse?	Yes	Torque Wrench	TW:BT-1R-1/4-10.7	
Shim	SHIM12/19-A-KIT	Recommended Hex Key	Metric Hex Keys	
UPC	634529059197	Country of Origin	USA	
Material Specification	2024-T351 Aluminum Bar	Finish	Black Anodized	
Finish Specification	Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize	Manufacturer	Ruland Manufacturing	
Temperature	Acetal Disk -10°F to 150°F (-23°C to 65°) Nylon Disk -10°F to 130°F (-23°C to 54°C) PEEK Disk -10°F to 300°F (-23°C to 148°C)	Weight (lbs)	0.015300	
Tariff Code	8483.60.8000	UNSPC	31163015	
Note 1	"Now available in stainless steel!"			
Note 2	"Performance ratings are for guidan	ce only. The user must determine su	uitability for a particular applicati	
Note 3	"Torque ratings for the couplings are based on the physical limitations/failure point of the torque disks. Un normal/typical conditions the hubs are capable of holding up to the rated torque of the disks. In some case			

especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the disks. 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 the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Installation Instructions

- Align the bores of the OCT12-4-A oldham coupling hubs on the shafts that are to be joined and determine if the misalignment parameters are within the limits of the coupling. (*Angular Misalignment:* 0.5° *Parallel Misalignment:* 0.008 in (0.20 mm), *Axial Motion:* 0.004 in (0.10 mm))
- 2. Rotate the hubs on the shaft so the drive tenons are located 90° from each other.
- 3. Place a torque disk so one groove fits over the drive tenons of a hub and center the disk by hand.
- Insert a shim with the thickness of the coupling's axial motion rating into the groove of the torque disk. You can use this shim <u>SHIM12/19-A-KIT</u> which is designed for use with this part or use your own.
- 5. Slide the tenons of the second hub into the mating groove in the disk until it touches the shim stock.
- Fully tighten the M2.5 screw(s) on each hub to the recommended seating torque of 1.21 Nm using a 2.0 mm hex torque wrench. Ruland offers this torque wrench and bit <u>TW:BT-1R-1/4-10.7</u>, <u>THX:BT-1/4-2MM</u> or you can use your own.
- 7. Remove the shim stock to leave a small gap between the top of the drive tenons and the torque disk to allow for axial movement.