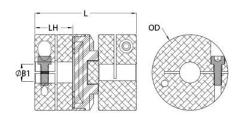




MOCT57-15-A

Ruland MOCT57-15-A, 15mm Oldham Coupling Hub, Aluminum, Clamp Style, 57.2mm OD, 28.7mm Length





Description

Ruland MOCT57-15-A is a clamp oldham coupling hub with a 15mm bore, 57.2mm OD, and 28.7mm 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. MOCT57-15-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. MOCT57-15-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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15 mm	Outer Diameter (OD)	57.2 mm
28.7 mm	Bore Tolerance	+0.03 mm / -0.00 mm
28.70 mm	Length (L)	78.7 mm
+0.000 mm / -0.013 mm	Forged Clamp Screw	M6
1 ea	Screw Material	Alloy Steel
Black Oxide	Seating Torque	16 Nm
5.0 mm	Torque Specifications	Torque ratings vary with insert selection
0.5°	Parallel Misalignment	0.010 in (0.25 mm)
0.225 in (5.72 mm)	Axial Motion	0.008 in (0.20 mm)
8.558 x 10 ⁻⁵ kg-m ²	Maximum Speed	4,500 RPM
OD36/57-AT, OD36/57-PEK	Full Bearing Support Required?	Yes
Yes	Balanced Design	Yes
Yes	UPC	634529065822
USA	Material Specification	2024-T351 Aluminum Bar
Black Anodized	Finish Specification	Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize
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)
0.430300	Tariff Code	8483.60.8000
31163015		
"Now available in stainless steel!"		
"Performance ratings are for guidance only. The user must determine suitability for a particular application."		
"Torque ratings for the couplings are based on the physical limitations/failure point of the torque disks. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the disks. 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 of the disks. Keyways are available to provide additional torque capacity in		
	28.7 mm 28.70 mm +0.000 mm / -0.013 mm 1 ea Black Oxide 5.0 mm 0.5° 0.225 in (5.72 mm) 8.558 x 10 ⁻⁵ kg-m² OD36/57-AT, OD36/57-PEK Yes Yes USA Black Anodized Ruland Manufacturing 0.430300 31163015 "Now available in stainless steel!" "Performance ratings are for guida" "Torque ratings for the couplings a normal/typical conditions the hubs especially when the smallest stand	28.7 mm Bore Tolerance 28.70 mm Length (L) +0.000 mm / -0.013 mm Forged Clamp Screw 1 ea Screw Material Black Oxide Seating Torque 5.0 mm Torque Specifications 0.5° Parallel Misalignment 0.225 in (5.72 mm) Axial Motion 8.558 x 10 ⁻⁵ kg-m² Maximum Speed OD36/57-AT, OD36/57-PEK Full Bearing Support Required? Yes Balanced Design Yes UPC USA Material Specification Black Anodized Finish Specification Ruland Manufacturing Temperature 0.430300 Tariff Code 31163015 "Now available in stainless steel!" "Performance ratings are for guidance only. The user must determine so "Torque ratings for the couplings are based on the physical limitations/fanormal/typical conditions the hubs are capable of holding up to the rated especially when the smallest standard bores are used or where shafts are

the shaft/hub connection when required. Please consult technical support for more assistance."

Prop 65

MARNING 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 MOCT57-15-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:* 0.010 in (0.25 mm), *Axial Motion:* 0.008 in (0.20 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.
- 4. Insert a shim with the thickness of the coupling's axial motion rating into the groove of the torque disk.
- 5. Slide the tenons of the second hub into the mating groove in the disk until it touches the shim stock.
- 6. Fully tighten the M6 screw(s) on each hub to the recommended seating torque of 16 Nm using a 5.0 mm hex torque wrench.
- 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.