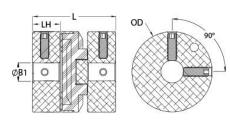




## **OST16-4-SS**

Ruland OST16-4-SS, 1/4" Oldham Coupling Hub, 303 Stainless Steel, Set Screw Style, 1.000" OD, 0.467" Length





## **Description**

Ruland OST16-4-SS is a set screw oldham coupling hub with a 0.2500" bore, 1.000" OD, and 0.390" length. It is a component of a three-piece design consisiting of two stainless steel 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. OST16-4-SS 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. OST16-4-SS 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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Product Specifications							
Bore (B1)	0.2500 in	Outer Diameter (OD)	1.000 in (25.4 mm)				
B1 Max Shaft Penetration	9.9 mm	Bore Tolerance	+0.001 in / -0.000 in				
Hub Width (LH)	9.9 mm	Length (L)	1.250 in (31.8 mm)				
Recommended Shaft Tolerance	+0.0000 in / -0.0005 in	Forged Set Screw	M4				
Number of Screws	2 ea 90° apart	Screw Material	18-8 300 Series Stainless Steel				
Screw Finish	Bright	Seating Torque	1.76 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	0.100 in (2.54 mm)	Axial Motion	0.004 in (0.10 mm)				
Moment of Inertia	0.0120 lb-in <sup>2</sup>	Maximum Speed	4,500 RPM				
Recommended Inserts	OD16/25-AT, OD16/25-NL, OD16/25-PEK	Full Bearing Support Required?	Yes				
Zero-Backlash?	Yes	Balanced Design	Yes				
Mechanical Fuse?	Yes	UPC	634529109502				
Country of Origin	USA	Material Specification	Type 303 Austenitic, Non-Magnetic Bar				
Finish	Bright	Finish Specification	Bright, No Plating				
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)	0.089200	Tariff Code	8483.60.8000				
UNSPC	31163015						
Note 1	"Performance ratings are for guidance only. The user must determine suitability for a particular application."						
Note 2	"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						

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

▲WARNING This product can expose you to the chemical Nickel (metallic), known to the State of California to cause cancer. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.

## **Installation Instructions**

- 1. Align the bores of the OST16-4-SS 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.
- 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 M4 screw(s) on each hub to the recommended seating torque of 1.76 Nm using a 2.0 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.