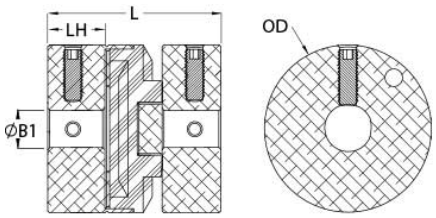
OST8-2-SS

Ruland OST8-2-SS, 1/8" Oldham Coupling Hub, 303 Stainless Steel, Set Screw Style, 0.500" OD, 0.222" Length





Description

Ruland OST8-2-SS is a set screw oldham coupling hub with a 0.1250" bore, 0.500" OD, and 0.222" 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. OST8-2-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. OST8-2-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.

Product Specifications

Bore (B1)	0.1250 in	**Outer Diameter (OD)**	0.500 in (12.7 mm)
B1 Max Shaft Penetration	0.222 in	**Bore Tolerance**	+0.001 in / -0.000 in
Hub Width (LH)	0.222 in	**Length (L)**	0.625 in (15.9 mm)
Recommended Shaft Tolerance	+0.0000 in / -0.0005 in	**Forged Set Screw**	M3
Number of Screws	1 ea	**Screw Material**	18-8 300 Series Stainless Steel
Screw Finish	Bright	**Seating Torque**	0.73 Nm
Hex Wrench Size	1.5 mm	**Torque Specifications**	Torque ratings vary with insert selection
Angular Misalignment	0.5°	**Parallel Misalignment**	0.004 in (0.10 mm)
Max Parallel Misalignment	0.050 in (1.27 mm)	**Axial Motion**	0.004 in (0.10 mm)
Moment of Inertia	0.0004 lb-in^2	**Maximum Speed**	4,500 RPM
Recommended Inserts	OD8/13-AT, OD8/13-NL, OD8/13-PEK	**Full Bearing Support Required?**	Yes
Zero-Backlash?	Yes	**Mechanical Fuse?**	Yes
UPC	634529239896	**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)**	0.012400
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."		
Prop 65	⚠**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 www.P65Warnings.ca.gov.		

Installation Instructions

1. Align the bores of the OST8-2-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:* 0.004 in (0.10 mm), *Axial Motion:* 0.002 in (0.05 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 M3 screw(s) on each hub to the recommended seating torque of 0.73 Nm using a 1.5 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.