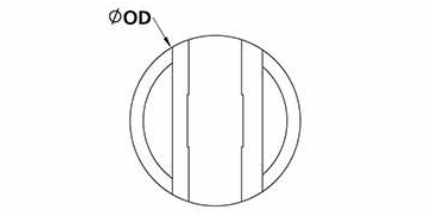
OD32/51-AT

Ruland OD32/51-AT, Oldham Coupling Disk, Acetal, 2.000" (50.8mm) OD, High Torque





Description

Ruland OD32/51-AT is an oldham coupling disk designed to fit hubs with an OD of 2.000" (50.8mm). It is a component of a three-piece design consisiting of two anodized aluminum or 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. OD32/51-AT is made from acetal for zero-backlash and high torsional stiffness. Oldham couplings can accommodate all forms of misalignment and are especially useful in applications with high parallel misalignment (up to 10% of the coupling OD). They operate with low bearing loads protecting sensitive system components such as bearings and have a balanced design for reduced vibration at speeds up to 6,000 RPM. OD32/51-AT is RoHS3 and REACH compliant.

Product Specifications

Outer Diameter (OD)	2.000 in (50.8 mm)	**Rated Torque**	250 in-lb (28.25 Nm)
Static Break Torque	750 in-lb (85.0 Nm)	**Angular Misalignment**	0.5°
Parallel Misalignment	0.010 in (0.25 mm)	**Max Parallel Misalignment**	0.200 in (5.08 mm)
Axial Motion	0.008 in (0.20 mm)	**Torsional Stiffness**	200.0 lb-in/Deg (22.73 Nm/Deg)
Moment of Inertia	0.03027 lb-in^2 (8.858 X 10^{-6} kg-m^2)	**Maximum Speed**	4,500 RPM
Full Bearing Support Required?	Yes	**Zero-Backlash?**	Yes
Mechanical Fuse?	Yes	**UPC**	634529060872
Country of Origin	USA	**Material Specification**	Acetal
Finish Specification	Plain	**Manufacturer**	Ruland Manufacturing
Temperature	-10°F to 150°F (-23°C to 65°C)	**Weight (lbs)**	0.052400
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 Formaldehyde, 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 coupling on the shafts that are to be joined and determine if the misalignment parameters are within the limits of the coupling.(*Angular Misialignment:* 0.5 deg, *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 screw(s) on each hub to the recommended seating torque using a hex 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.