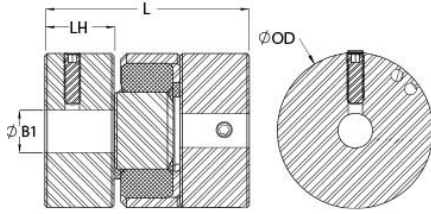




JS12-4-A

Ruland JS12-4-A, 1/4" Jaw Coupling Hub, Aluminum, Set Screw Style, 0.750" OD, 0.385" Length



Description

Ruland JS12-4-A is a set screw zero-backlash jaw coupling hub with a 0.2500" bore, 0.750" OD, and 0.385" length. It is a component in a three-piece design consisting of two aluminum hubs and an elastomeric insert called the spider creating a lightweight low inertia coupling capable of speeds up to 8,000 RPM. 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. Spiders are available in three durometers allowing the user to tailor coupling performance to their application. Ruland jaw couplings have a balanced design for reduced vibration at high speeds. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. JS12-4-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.

Product Specifications

Bore (B1)	0.2500 in	B1 Max Shaft Penetration	0.385 in
Outer Diameter (OD)	0.750 in (19.1 mm)	Bore Tolerance	+0.001 in / -0.000 in
Hub Width (LH)	0.385 in	Length (L)	1.070 in (27.2 mm)
Recommended Shaft Tolerance	+0.0000 in / -0.0005 in	Forged Set Screw	M3
Number of Screws	1 ea	Screw Material	Alloy Steel
Screw Finish	Black Oxide	Hex Wrench Size	1.5 mm
Seating Torque	0.92 Nm	Torque Specifications	Torque ratings vary with insert selection
Misalignment	Misalignment ratings vary with insert selection	Maximum Speed	8,000 RPM
Moment of Inertia	0.001429 lb-in ²	Full Bearing Support Required?	Yes
Recommended Inserts	JD12/19-98R , JD12/19-92Y , JD12/19-85B	Zero-Backlash?	Yes
Balanced Design	Yes	Fail Safe?	Yes
Weight (lbs)	0.017200	Temperature	-10°F to 180°F (-23°C to 82°C)
Material Specification	2024-T351 Aluminum Bar	Finish	Bright
Finish Specification	Bright, No Plating	Manufacturer	Ruland Manufacturing
Recommended Gap Between Hubs	0.020 in (0.50 mm)	Country of Origin	USA
UPC	634529068625	UNSPC	31163011
Tariff Code	8483.60.8000		
Note 1	Stainless steel hubs are available upon request.		
Note 2	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
Note 3	Torque ratings for the couplings are based on the physical limitations/failure point of the spiders. Under normal/typical conditions the hubs are capable of holding up to the nominal torque of the spiders. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the nominal torque of the spiders. 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

1. Align the bores of the JS12-4-A jaw coupling hubs on the shafts that are to be joined and determine if the misalignment parameters are within the limits of the coupling. (See spider for misalignment parameters.)
 2. Fully tighten the M3 screw(s) on the first hub to the recommended seating torque of 0.92 Nm using a 1.5 mm hex torque wrench.
 3. Insert a spider into the jaws of one hub until the raised points contact the base of the hub.
 4. Insert the jaws of the second hub into the spider openings until the raised points contact the base of the second hub. Some force will be required to insert the second hub. This is normal.
 5. Assure that a gap is maintained between the two hubs so there is no metal to metal contact. Fully tighten the screw(s) on the second hub to the recommended seating torque.
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