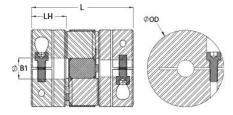




JC12-3-A

Ruland JC12-3-A, 3/16" Jaw Coupling Hub, Aluminum, Clamp Style, 0.750" OD, 0.385" Length





Description

Ruland JC12-3-A is a clamp zero-backlash jaw coupling hub with a 0.1875" bore, 0.750" OD, and 0.385" length. It is a component in a threepiece design consisiting 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. JC12-3-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

0.1875 in	B1 Max Shaft Penetration	0.385 in
0.750 in (19.1 mm)	Bore Tolerance	+0.001 in / -0.000 in
0.385 in	Length (L)	1.070 in (27.2 mm)
+0.0000 in / -0.0005 in	Forged Clamp Screw	M2.5
1 ea	Screw Material	Alloy Steel
Black Oxide	Hex Wrench Size	2.0 mm
1.21 Nm	Torque Specifications	Torque ratings vary with insert selection
Misalignment ratings vary with insert selection	Maximum Speed	8,000 RPM
0.001331 lb-in ²	Full Bearing Support Required?	Yes
JD12/19-98R, JD12/19-92Y, JD12/19-85B	Zero-Backlash?	Yes
Yes	Fail Safe?	Yes
0.017200	Temperature	-10°F to 180°F (-23°C to 82°C)
2024-T351 Aluminum Bar	Finish	Bright
Bright, No Plating	Manufacturer	Ruland Manufacturing
0.020 in (0.50 mm)	Country of Origin	USA
634529068335	UNSPC	31163011
8483.60.8000		
Stainless steel hubs are available upon request.		
Performance ratings are for guidance only. The user must determine suitability for a particular application.		
normal/typical conditions the hubs cases, especially when the smaller shaft is possible below the nomina	are capable of holding up to the nom st standard bores are used or where s I torque of the spiders. Keyways are a	inal torque of the spiders. In some shafts are undersized, slippage on the available to provide additional torque
AWARNING 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 .		
	0.385 in +0.0000 in / -0.0005 in 1 ea Black Oxide 1.21 Nm Misalignment ratings vary with insert selection 0.001331 lb-in ² JD12/19-98R, JD12/19-92Y, JD12/19-85B Yes 0.017200 2024-T351 Aluminum Bar Bright, No Plating 0.020 in (0.50 mm) 634529068335 8483.60.8000 Stainless steel hubs are available Performance ratings are for guidar Torque ratings for the couplings ar normal/typical conditions the hubs cases, especially when the smaller shaft is possible below the nominal capacity in the shaft/hub connection MWARNING This product can ex California to cause cancer and birt	0.385 inLength (L)+0.0000 in / -0.0005 inForged Clamp Screw1 eaScrew MaterialBlack OxideHex Wrench Size1.21 NmTorque SpecificationsMisalignment ratings vary with insert selectionMaximum Speed0.001331 lb-in²Full Bearing Support Required?JD12/19-98R, JD12/19-92Y, JD12/19-85BZero-Backlash?YesFail Safe?0.017200Temperature2024-T351 Aluminum BarFinishBright, No PlatingManufacturer0.020 in (0.50 mm)Country of Origin634529068335UNSPC8483.60.8000Stainless steel hubs are available upon request.Performance ratings are for guidance only. The user must determine su Torque ratings for the couplings are based on the physical limitations/fa normal/typical conditions the hubs are capable of holding up to the nom cases, especially when the smallest standard bores are used or where s shaft is possible below the nominal torque of the spiders. Keyways are a capacity in the shaft/hub connection when required. Please consult techWARNING This product can expose you to the chemical Ethylene Th California to cause cancer and birth defects or other reproductive harm.

- 1. Align the bores of the JC12-3-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 M2.5 screw(s) on the first hub to the recommended seating torque of 1.21 Nm using a 2.0 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.