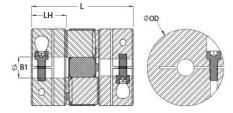




## MJC33-11-A

Ruland MJC33-11-A, 11mm Jaw Coupling Hub, Aluminum, Clamp Style, 33.3mm OD, 15.0mm Length





## Description

Ruland MJC33-11-A is a clamp zero-backlash jaw coupling hub with a 11mm bore, 33.3mm OD, and 15.0mm 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. MJC33-11-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**

11 mm	B1 Max Shaft Penetration	15.0 mm
1.313 in (33.3 mm)	Bore Tolerance	+0.03 mm / -0.00 mm
15.00 mm	Length (L)	1.750 in (44.5 mm)
+0.000 mm / -0.013 mm	Forged Clamp Screw	M3
1 ea	Screw Material	Alloy Steel
Black Oxide	Hex Wrench Size	2.5 mm
2.1 Nm	Torque Specifications	Torque ratings vary with insert selection
Misalignment ratings vary with insert selection	Maximum Speed	8,000 RPM
5.634 x 10 <sup>-6</sup> kg-m <sup>2</sup>	Full Bearing Support Required?	Yes
<u>JD21/33-98R, JD21/33-92Y,</u> <u>JD21/33-85B</u>	Zero-Backlash?	Yes
Yes	Fail Safe?	Yes
0.077900	Temperature	-10°F to 180°F (-23°C to 82°C)
2024-T351 Aluminum Bar	Finish	Bright
Bright, No Plating	Manufacturer	Ruland Manufacturing
0.030 in (0.75 mm)	Country of Origin	USA
634529119754	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 smalles shaft is possible below the nominal	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
	1.313 in (33.3 mm)   15.00 mm   +0.000 mm / -0.013 mm   1 ea   Black Oxide   2.1 Nm   Misalignment ratings vary with insert selection   5.634 x 10 <sup>-6</sup> kg-m <sup>2</sup> JD21/33-98R, JD21/33-92Y, JD21/33-85B   Yes   0.077900   2024-T351 Aluminum Bar   Bright, No Plating   0.030 in (0.75 mm)   634529119754   8483.60.8000   Stainless steel hubs are available of Performance ratings are for guidar   Torque ratings for the couplings are normal/typical conditions the hubs   cases, especially when the smalles   shaft is possible below the nomina   capacity in the shaft/hub connection	1.313 in (33.3 mm)Bore Tolerance15.00 mmLength (L)+0.000 mm / -0.013 mmForged Clamp Screw1 eaScrew MaterialBlack OxideHex Wrench Size2.1 NmTorque SpecificationsMisalignment ratings vary with insert selectionMaximum Speed5.634 x 10 <sup>-6</sup> kg-m²Full Bearing Support Required?JD21/33-98R, JD21/33-92Y, JD21/33-85BZero-Backlash?YesFail Safe?0.077900Temperature2024-T351 Aluminum BarFinishBright, No PlatingManufacturer0.030 in (0.75 mm)Country of Origin634529119754UNSPC8483.60.8000Stainless steel hubs are available ⊔pon request.

- 1. Align the bores of the MJC33-11-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.)
- Fully tighten the M3 screw(s) on the first hub to the recommended seating torque of 2.1 Nm using a 2.5 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.