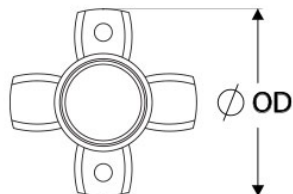




## JD21/33-85B

Ruland JD21/33-85B, Jaw Coupling Spider, 85 Shore A Blue, 1.313" (33.3mm) OD, High Dampening



### Description

Ruland JD21/33-85B is a zero-backlash jaw coupling spider designed to fit Ruland hubs that have an. 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. JD21/33-85B is made from polyurethane and has 85 Shore A hardness allowing for the highest level of dampening with the lowest torque capacity. 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. JD21/33-85B is RoHS3 and REACH compliant.

### Product Specifications

<b>Outer Diameter (OD)</b>	1.313 in (33.3 mm)	<b>Rated Torque</b>	18 in-lb (2.03 Nm)
<b>Angular Misalignment</b>	1.0°	<b>Peak Torque</b>	36 in-lb (4.1 Nm)
<b>Parallel Misalignment</b>	0.006 in (0.15 mm)	<b>Torsional Stiffness</b>	13.3 lb-in/Deg (1.51 Nm/Deg)
<b>Moment of Inertia</b>	0.00267 lb-in <sup>2</sup> (7.799 X 10 <sup>-7</sup> kg-m <sup>2</sup> )	<b>Axial Motion</b>	0.030 in (0.76 mm)
<b>Maximum Speed</b>	8,000 RPM	<b>Full Bearing Support Required?</b>	Yes
<b>Zero-Backlash?</b>	Yes	<b>Weight (lbs)</b>	0.013800
<b>Temperature</b>	-10°F to 180°F (-23°C to 82°C)	<b>Material Specification</b>	Polyurethane 85 Shore A BLUE
<b>Finish Specification</b>	Plain	<b>Manufacturer</b>	Ruland Manufacturing
<b>UPC</b>	634529069035	<b>Country of Origin</b>	USA
<b>Tariff Code</b>	8483.60.8000	<b>UNSPC</b>	31163011
<b>Recommended Gap Between Hubs</b>	0.030 in (0.75 mm)		

**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 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** This product does not require a warning.

### Installation Instructions

1. Align the bores of the jaw 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*: 1.0 deg, *Parallel Misalignment*: 0.006 in (0.15 mm), *Axial Motion*: 0.03 in (0.76 mm))
2. Fully tighten the screw(s) on the first hub to the recommended seating torque using a hex torque wrench.
3. Insert a spider into the jaws of the first 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.