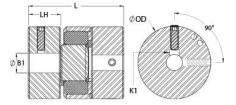




MJSC51-24-A

Ruland MJSC51-24-A, 24mm Jaw Coupling Hub, Aluminum, Set Screw Style With Keyway, 50.8mm OD, 20.8mm Length





Description

Ruland MJSC51-24-A is a set screw zero-backlash jaw coupling hub with a 24mm bore, 8mm keyway, 50.8mm OD, and 20.8mm length. It is a component in a three-piece 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. MJSC51-24-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

24 mm 20.8 mm +0.03 mm / -0.00 mm 2.400 in (61.0 mm) M6 Alloy Steel 3.0 mm Torque ratings vary with insert selection 3,000 RPM Yes Yes Yes Yes 10°F to 180°F (-23°C to 82°C) Bright Ruland Manufacturing	Keyway (K) Outer Diameter (OD) Hub Width (LH) Recommended Shaft Tolerance Number of Screws Screw Finish Seating Torque Misalignment Moment of Inertia Recommended Inserts Balanced Design Weight (Ibs) Material Specification Finish Specification	8 mm 2.000 in (50.8 mm) 20.83 mm +0.000 mm / -0.013 mm 2 ea 90° apart Black Oxide 7.2 Nm Misalignment ratings vary with insert selection 4.328 x 10 ⁻⁵ kg-m ² JD32/51-98R, JD32/51-92Y Yes 0.229700 2024-T351 Aluminum Bar
+0.03 mm / -0.00 mm 2.400 in (61.0 mm) M6 Alloy Steel 3.0 mm Torque ratings vary with insert selection 3,000 RPM Yes Yes Yes Yes -10°F to 180°F (-23°C to 82°C) Bright	Hub Width (LH) Recommended Shaft Tolerance Number of Screws Screw Finish Seating Torque Misalignment Moment of Inertia Recommended Inserts Balanced Design Weight (lbs) Material Specification	20.83 mm +0.000 mm / -0.013 mm 2 ea 90° apart Black Oxide 7.2 Nm Misalignment ratings vary with insert selection 4.328 x 10 ⁻⁵ kg-m ² JD32/51-98R, JD32/51-92Y Yes 0.229700
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M6 Alloy Steel 3.0 mm Torque ratings vary with insert selection 3,000 RPM Yes Yes Yes Yes -10°F to 180°F (-23°C to 82°C) Bright	Number of Screws Screw Finish Seating Torque Misalignment Moment of Inertia Recommended Inserts Balanced Design Weight (lbs) Material Specification	2 ea 90° apart Black Oxide 7.2 Nm Misalignment ratings vary with insert selection 4.328 x 10 ⁻⁵ kg-m ² JD32/51-98R, JD32/51-92Y Yes 0.229700
Alloy Steel 3.0 mm Forque ratings vary with insert selection 3,000 RPM Yes Yes Yes Yes -10°F to 180°F (-23°C to 82°C) Bright	Screw Finish Seating Torque Misalignment Moment of Inertia Recommended Inserts Balanced Design Weight (lbs) Material Specification	Black Oxide 7.2 Nm Misalignment ratings vary with insert selection 4.328 x 10 ⁻⁵ kg-m ² JD32/51-98R, JD32/51-92Y Yes 0.229700
3.0 mm Torque ratings vary with insert selection 3,000 RPM Yes Yes Yes 10°F to 180°F (-23°C to 82°C) Bright	Seating Torque Misalignment Moment of Inertia Recommended Inserts Balanced Design Weight (Ibs) Material Specification	7.2 Nm Misalignment ratings vary with insert selection 4.328 x 10 ⁻⁵ kg-m ² JD32/51-98R, JD32/51-92Y Yes 0.229700
Torque ratings vary with insert selection 3,000 RPM Yes Yes Yes -10°F to 180°F (-23°C to 82°C) Bright	Misalignment Moment of Inertia Recommended Inserts Balanced Design Weight (lbs) Material Specification	Misalignment ratings vary with insert selection 4.328 x 10 ⁻⁵ kg-m ² JD32/51-98R, JD32/51-92Y Yes 0.229700
selection 3,000 RPM Yes Yes -10°F to 180°F (-23°C to 82°C) Bright	Moment of Inertia Recommended Inserts Balanced Design Weight (lbs) Material Specification	insert selection 4.328 x 10 ⁻⁵ kg-m ² JD32/51-98R, JD32/51-92Y Yes 0.229700
Yes Yes Yes 10°F to 180°F (-23°C to 82°C) Bright	Recommended Inserts Balanced Design Weight (lbs) Material Specification	JD32/51-98R, JD32/51-92Y Yes 0.229700
Yes Yes 10°F to 180°F (-23°C to 82°C) Bright	Balanced Design Weight (lbs) Material Specification	Yes 0.229700
Yes 10°F to 180°F (-23°C to 82°C) Bright	Weight (lbs) Material Specification	0.229700
10°F to 180°F (-23°C to 82°C) Bright	Material Specification	
Bright	•	2024-T351 Aluminum Bar
-	Finish Specification	
Ruland Manufacturing	· ····································	Bright, No Plating
	Recommended Gap Between Hubs	0.050 in (1.25 mm)
JSA	UPC	634529124611
31163011	Tariff Code	8483.60.8000
Stainless steel hubs are available u	pon request.	
Performance ratings are for guidance only. The user must determine suitability for a particular application		
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. Please consult technical support for more assistance.		
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 .		
determine if the misalignme	ent parameters are within the limits of	of the coupling. (See spider for
	 Align the bores of the MJS determine if the misalignment parameters.) 	normal/typical conditions the hubs are capable of holding up to the nom consult technical support for more assistance. WARNING This product can expose you to the chemical Ethylene Th California to cause cancer and birth defects or other reproductive harm.

3.0 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.