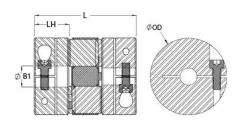




MJC57-22-A

Ruland MJC57-22-A, 22mm Jaw Coupling Hub, Aluminum, Clamp Style, 57.2mm OD, 28.7mm Length





Description

Ruland MJC57-22-A is a clamp zero-backlash jaw coupling hub with a 22mm bore, 57.2mm OD, and 28.7mm 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. MJC57-22-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) 22 mm Outer Diameter (OD) 2.250 in (57.2 mm) Hub Width (LH) 28.70 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Number of Screws 1 ea Screw Finish Black Oxide Seating Torque 16 Nm Misalignment Misalignment ratings vary insert selection Moment of Inertia 9.237 x 10 ⁻⁵ kg-m² Recommended Inserts JD36/57-98R, JD36/57-92	Full Bearing Support Requ Zero-Backlash?	28.7 mm +0.03 mm / -0.00 mm 3.150 in (80.0 mm) M6 Alloy Steel 5.0 mm Torque ratings vary with insert selection 8,000 RPM
Hub Width (LH) Recommended Shaft Tolerance +0.000 mm / -0.013 mm Number of Screws 1 ea Screw Finish Black Oxide Seating Torque 16 Nm Misalignment Misalignment ratings vary insert selection Moment of Inertia 9.237 x 10 ⁻⁵ kg-m ²	Length (L) Forged Clamp Screw Screw Material Hex Wrench Size Torque Specifications with Maximum Speed Full Bearing Support Requ Zero-Backlash?	3.150 in (80.0 mm) M6 Alloy Steel 5.0 mm Torque ratings vary with insert selection 8,000 RPM
Recommended Shaft Tolerance +0.000 mm / -0.013 mm Number of Screws 1 ea Screw Finish Black Oxide Seating Torque 16 Nm Misalignment Misalignment ratings vary insert selection Moment of Inertia 9.237 x 10 ⁻⁵ kg-m ²	Forged Clamp Screw Screw Material Hex Wrench Size Torque Specifications with Maximum Speed Full Bearing Support Requestry Zero-Backlash?	M6 Alloy Steel 5.0 mm Torque ratings vary with insert selection 8,000 RPM
Number of Screws 1 ea Screw Finish Black Oxide Seating Torque 16 Nm Misalignment Misalignment ratings vary insert selection Moment of Inertia 9.237 x 10 ⁻⁵ kg-m²	Screw Material Hex Wrench Size Torque Specifications with Maximum Speed Full Bearing Support Requestry Zero-Backlash?	Alloy Steel 5.0 mm Torque ratings vary with insert selection 8,000 RPM
Screw Finish Seating Torque 16 Nm Misalignment Misalignment ratings vary insert selection Moment of Inertia 9.237 x 10 ⁻⁵ kg-m ²	Hex Wrench Size Torque Specifications with Maximum Speed Full Bearing Support Requestry Zero-Backlash?	5.0 mm Torque ratings vary with insert selection 8,000 RPM
Seating Torque 16 Nm Misalignment Misalignment ratings vary insert selection Moment of Inertia 9.237 x 10 ⁻⁵ kg-m ²	Torque Specifications with Maximum Speed Full Bearing Support Requestry Zero-Backlash?	Torque ratings vary with insert selection 8,000 RPM
Misalignment Misalignment ratings vary insert selection Moment of Inertia 9.237 x 10 ⁻⁵ kg-m ²	with Maximum Speed Full Bearing Support Requestry Zero-Backlash?	selection 8,000 RPM uired? Yes
insert selection Moment of Inertia 9.237 x 10 ⁻⁵ kg-m ²	Full Bearing Support Requ Zero-Backlash?	uired? Yes
	ZY Zero-Backlash?	
Recommended Inserts JD36/57-98R, JD36/57-92		Yes
	E-11.0-4-0	100
Balanced Design Yes	Fail Safe?	Yes
Weight (lbs) 0.420900	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 0.050 in (1.25 mm) Hubs	Country of Origin	USA
UPC 634529099759	UNSPC	31163011
Tariff Code 8483.60.8000		
Note 1 Stainless steel hubs are a	Stainless steel hubs are available upon request.	
Note 2 Performance ratings are f	Performance ratings are for guidance only. The user must determine suitability for a particular application.	
normal/typical conditions to cases, especially when the shaft is possible below the	e smallest standard bores are used or venominal torque of the spiders. Keyway	cions/failure point of the spiders. Under ne nominal torque of the spiders. In some where shafts are undersized, slippage on the ys are available to provide additional torque ult technical support for more assistance.
·	ct can expose you to the chemical Ethyl r and birth defects or other reproductive v.	•

Installation Instructions

1. Align the bores of the MJC57-22-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 M6 screw(s) on the first hub to the recommended seating torque of 16 Nm using a 5.0 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.