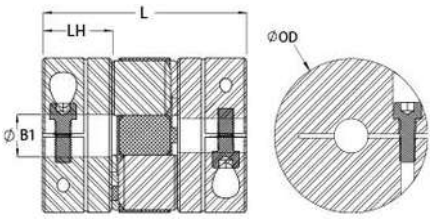
MJC51-12-A

Ruland MJC51-12-A, 12mm Jaw Coupling Hub, Aluminum, Clamp Style, 50.8mm OD, 20.8mm Length





Description

Ruland MJC51-12-A is a zero-backlash jaw coupling hub with a 12mm bore, 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 the performance of the coupling 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. MJC51-12-A is machined from bar stock that is sourced exclusively from North American mills and is RoHS2 and REACH compliant. It is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore B	12 mm	**B1 Shaft Penetration**	20.8 mm
Outer Diameter OD	50.8 mm	**Bore Tolerance**	+.03 mm / -.00 mm
Hub Width LH	20.8 mm	**Length L**	61.0 mm
Forged Clamp Screw	M5	**Number of Screws**	1 ea
Screw Material	Alloy Steel	**Screw Finish**	Black Oxide
Hex Wrench Size	4.0 mm	**Seating Torque**	9.5 Nm
Maximum Speed	8,000 RPM	**Weight (lbs.)**	0.2660
Temperature	-10°F to 180°F -23°C to 82°C	**Material Specification**	2024-T351 Aluminum Bar
Finish	Bright	**Finish Specification**	Bright
UPC	63452906786	**Country of Origin**	USA
Note 1	Stainless steel hubs are available upon request.		
Note 2	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
Note 3	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.		