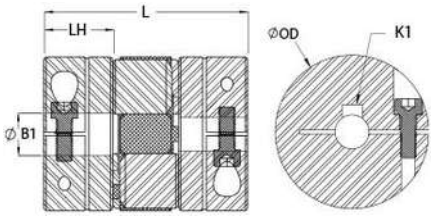
MJCC80-42-A

Ruland MJCC80-42-A, 42mm Jaw Coupling Hub, Aluminum, Clamp Style With Keyway, 79.4mm OD, 40.4mm Length





Description

Ruland MJCC80-42-A is a clamp zero-backlash jaw coupling hub with a 42mm bore, 12mm keyway, 79,4mm OD, and 111,2mm length. 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. 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. MJCC80-42-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)	42 mm	**Keyway (K)**	12 mm
Outer Diameter (OD)	3.125 in (79.4 mm)	**Bore Tolerance**	+0.03 mm / -0.00 mm
Hub Width (LH)	40.4 mm	**Length (L)**	4.379 in (111.2 mm)
Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	**Key Width (K1)**	12 mm
Key Height (K1)	8 mm	**Keyway 1 Height (T1)**	45.3 mm
Keyway 1 Width Tolerance	+0.021 mm / -0.021 mm	**Keyway 1 Height Tolerance**	+0.2 mm / 0 mm
Forged Clamp Screw	M8	**Number of Screws**	1 ea
Screw Material	Alloy Steel	**Screw Finish**	Black Oxide
Hex Wrench Size	6.0 mm	**Seating Torque**	39 Nm
Torque Specifications	Torque ratings vary with insert selection	**Misalignment**	Misalignment ratings vary with insert selection
Maximum Speed	8,000 RPM	**Moment of Inertia**	4.457^{-4} kg-m^2
Full Bearing Support Required?	Yes	**Recommended Inserts**	JD50/80-98R, JD50/80-92Y
Zero-Backlash?	Yes	**Balanced Design**	Yes
Fail Safe?	Yes	**Weight (lbs)**	0.951445
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 Hubs**	Rating Coming Soon
Country of Origin	USA	**UPC**	65432940713
UNSPC	31163011	**Tariff Code**	8483.60.8000
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. Please consult technical support for more assistance.		
Prop 65	**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.