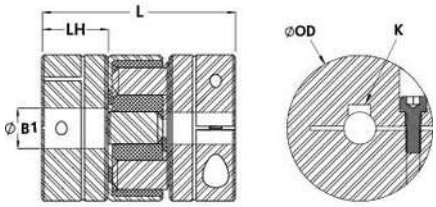
# MJCC70-25-A

Ruland MJCC70-25-A, 25mm Jaw Coupling Hub, Aluminum, Clamp Style With Keyway, 69.9mm OD, 33.0mm Length






## Description

Ruland MJCC70-25-A is a clamp zero-backlash jaw coupling hub with a 25mm bore, 8mm keyway, 69,9mm OD, and 93,3mm 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. MJCC70-25-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

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|---|---|---|---|
| **Bore (B1)** | 25 mm | **Keyway (K)** | 8 mm |
| **B1 Max Shaft Penetration** | 33.0 mm | **Outer Diameter (OD)** | 2.750 in (69.9 mm) |
| **Bore Tolerance** | +0.03 mm / -0.00 mm | **Hub Width (LH)** | 33.0 mm |
| **Length (L)** | 3.674 in (93.3 mm) | **Recommended Shaft Tolerance** | +0.000 mm / -0.013 mm |
| **Key Width (K1)** | 8 mm | **Key Height (K1)** | 7 mm |
| **Keyway 1 Height (T1)** | 28.3 mm | **Keyway 1 Width Tolerance** | +0.018 mm / -0.018 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** | $2.328^{-4}$ kg-$m^2$ | **Full Bearing Support Required?** | Yes |
| **Recommended Inserts** | JD44/70-98R, JD44/70-92Y | **Zero-Backlash?** | Yes |
| **Balanced Design** | Yes | **Fail Safe?** | Yes |
| **Weight (lbs)** | 0.717870 | **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 |
| **Country of Origin** | USA | **UPC** | 65432940700 |
| **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. | | |