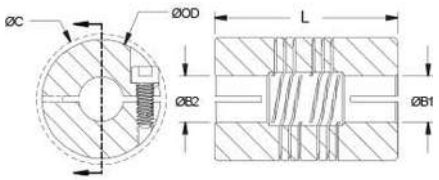
# ROCMD41-12-12-AN

Ruland ROCMD41-12-12-AN, 12mm x 12mm Six Beam Coupling, Aluminum, Clamp Style, 40.9mm OD, 63.5mm Length








## Description

Ruland ROCMD41-12-12-AN is a six beam coupling with 12mm x 12mm bores, 40.9mm OD, and 63.5mm length. It is machined from a single piece of material and features two sets of three spiral cuts. This D-series beam coupling has more space between each beam for increased misalignment when compared to F- and B-series six beam couplings. It has a reference mark on the outer diameter to identify the larger bore. All hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. ROCMD41-12-12-AN is made from 7075 aluminum for lightweight and low inertia. It is machined from bar stock that is sourced exclusively from North American mills and RoHS3, REACH, and Conflict Minerals compliant. ROCMD41-12-12-AN is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

## Product Specifications

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|---|---|---|---|
| **Bore (B1)** | 12 mm | **Small Bore (B2)** | 12 mm |
| **B1 Max Shaft Penetration** | 30.9 mm | **B2 Max Shaft Penetration** | 30.9 mm |
| **Outer Diameter (OD)** | 1.625 in (41.3 mm) | **Bore Tolerance** | +0.025 mm / -0.000 mm |
| **Length (L)** | 2.500 in (63.5 mm) | **Clearance Diameter (C) MAX** | 47.7 mm |
| **Cap Screw** | M6 | **Screw Material** | Alloy Steel |
| **Screw Finish** | Black Oxide | **Seating Torque** | 16 Nm |
| **Number of Screws** | 2 | **Dynamic Torque Reversing** | 5.65 Nm |
| **Angular Misalignment** | 6.0° | **Dynamic Torque Non-Reversing** | 2.83 Nm |
| **Parallel Misalignment** | 1.27 mm | **Static Torque** | 11.3 Nm |
| **Axial Motion** | 0.51 mm | **Torsional Stiffness** | Rating Coming Soon |
| **Moment of Inertia** | 43.810 x$10^{-6}$ kg-$m^2$ | **Maximum Speed** | 6,000 RPM |
| **Full Bearing Support Required?** | Yes | **Zero-Backlash?** | Yes |
| **Balanced Design** | Yes | **Recommended Hex Key** | Metric Hex Keys |
| **Material Specification** | 2024-T351 Aluminum Bar | **Temperature** | -40°F to 225°F (-40°C to 107°C) |
| **Finish Specification** | Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize | **Manufacturer** | Ruland Manufacturing |
| **Country of Origin** | USA | **Weight (lbs)** | 0.417800 |
| **UPC** | 63452943231 | **Tariff Code** | 8483.60.8000 |
| **UNSPC** | 31163003 | | |
| **Note 1** | Performance ratings are for guidance only. The user must determine suitability for a particular application. | | |
| **Note 4** | Stainless steel options available upon request. | | |