



|                               |                                  |                           |                                                |
|-------------------------------|----------------------------------|---------------------------|------------------------------------------------|
| Brand:                        | Ruland                           | Hex Wrench Size:          | 6.0 mm                                         |
| Maximum Speed:                | 10000 RPM                        | Screw Finish:             | Black Oxide                                    |
| Zero-Backlash?:               | Yes                              | Material:                 | Aluminum                                       |
| Balanced Design:              | Yes                              | Bore (B1):                | 42 mm                                          |
| UNSPC:                        | 31163018                         | Bore (B2):                | 1.2500 in                                      |
| Cap Screw:                    | M8                               | Keyway:                   | No                                             |
| Static Torque:                | 1350 lb-in (152 Nm)              | B1 Max Shaft Penetration: | 1.750 in (44.5 mm)                             |
| Dynamic Torque Non-Reversing: | 675 lb-in (76 Nm)                | B2 Max Shaft Penetration: | 1.750 in (44.5 mm)                             |
| Temperature:                  | -40°F to 200°F (-40°C to 93°C)   | Screw Material:           | Alloy Steel                                    |
| Angular Misalignment:         | 2.0 deg                          | Bore Tolerance:           | +0.001 in / -0.000 in<br>(+0.03 mm / -0.00 mm) |
| Torsional Stiffness:          | 3500 lb-in/Deg(395.5 Nm/Deg)     | Length (L):               | 3.816 in (96.9 mm)                             |
| Parallel Misalignment:        | 0.012 in (0.30 mm)               | ISO 9001:2015:            | Certified                                      |
| Axial Motion:                 | 0.030 in (0.76 mm)               | REACH:                    | Compliant                                      |
| Bellows Attachment Method:    | Epoxy                            | RoHS3:                    | Compliant                                      |
| Length Tolerance:             | +/- 0.030 in (0.76 mm)           | Conflict Minerals:        | Compliant                                      |
| Recommended Hex Key:          | Metric Hex Keys                  | Tariff Code:              | 8483.60.8000                                   |
| B1 Min Shaft Penetration:     | 0.875 in (22.2 mm)               | Number of Screws:         | 2                                              |
| Product Group:                | Bellows Coupling Standard Length | Seating Torque:           | 39 Nm                                          |
| Shaft Tolerance:              | +0.0000 in / -0.0005 in          | O.D. (D):                 | 3.125 in (79.4 mm)                             |
| Dynamic Torque Reversing:     | 337.5 lb-in (38 Nm)              | B2 Min Shaft Penetration: | 0.875 in (22.2 mm)                             |

COMPONENT

Bellows Coupling Standard Length



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**BC50-42MM-1 1/4"-A**  
**Ruland**  
42mm X 1 1/4" Bores, 3.125" (79.4 Mm), Od,  
3.816" (96.9 Mm) Length, Bellows  
Coupling, High Stiffness, Aluminum

|             |
|-------------|
| UNIT        |
| Inch/Metric |
| SHEET       |