



|                               |                                  |                           |                                             |
|-------------------------------|----------------------------------|---------------------------|---------------------------------------------|
| O.D. (D):                     | 3.125 in (79.4 mm)               | Dynamic Torque Reversing: | 337.5 lb-in (38 Nm)                         |
| 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):                | 1.7500 in                                   |
| UNSPC:                        | 31163018                         | Bore (B2):                | 30 mm                                       |
| 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 (+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          | B2 Min Shaft Penetration: | 0.875 in (22.2 mm)                          |

COMPONENT

Bellows Coupling Standard Length



Pacific International Bearing, Inc.  
33258 Central Ave, Union City, CA 94587  
1-800-228-8895, 510-512-7000,  
info@pibsales.com  
www.pibsales.com

This file and any associated information and specifications are provided for reference and evaluation purposes only, and is subject to change without notice. PIB makes no representations, warranties or guarantees as to the appropriateness, accuracy, completeness, or suitability for any purpose, of the file, information or specifications. You are solely responsible for the use of the file, information or specifications.

**BC50-1 3/4"-30MM-A**  
**Ruland**  
1 3/4" X 30mm Bores, 3.125" (79.4 Mm), Od,  
3.816" (96.9 Mm) Length, Bellows  
Coupling, High Stiffness, Aluminum

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