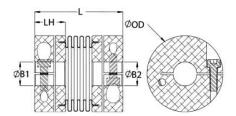




BC36-32MM-7/8"-A

Ruland BC36-32MM-7/8"-A, 32mm x 7/8" Bellows Coupling, Aluminum, Clamp Style, 2.250" (57.2mm) OD, 3.235" (82.2mm) Length





Description

Ruland BC36-32MM-7/8"-A is a clamp bellows coupling with 32 mm x 0.8750" bores, 2.250" (57.2 mm) OD, and 3.235" (82.2mm) length. It is zero-backlash and has a balanced design for reduced vibration at high speeds. BC36-32MM-7/8"-A is comprised of two anodized aluminum hubs and a stainless steel bellows. The bellows are able to flex while remaining rigid under torsional loads allowing for all types of misalignment to be accommodated. This bellows coupling is lightweight and has low inertia making it suitable for applications with speeds up to 10,000 RPM. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. Ruland BC36-32MM-7/8"-A has four convolutions allowing for high torsional rigidity and making it an excellent fit for precise positioning stepper servo applications as well as encoders. It is machined from solid bar stock that is sourced exclusively from North American mills and RoHS3 and REACH compliant. BC36-32MM-7/8"-A is carefully manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

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Bore (B1)	32 mm	Small Bore (B2)	0.8750 in				
B1 Max Shaft Penetration	1.496 in (38.0 mm)	B2 Max Shaft Penetration	1.496 in (38.0 mm)				
Outer Diameter (OD)	2.250 in (57.2 mm)	Bore Tolerance	+0.001 in / -0.000 in (+0.03 mm / -0.00 mm)				
Length (L)	3.235 in (82.2 mm)	Length Tolerance	+/- 0.030 in (0.76 mm)				
Hub Width (LH)	1.050 in (26.7mm)	Recommended Shaft Tolerance	+0.0000 / -0.0005 " (+0.000 / -0.013 mm)				
Forged Clamp Screw	M6	Screw Material	Alloy Steel				
Hex Wrench Size	5.0 mm	Screw Finish	Black Oxide				
Seating Torque	16 Nm	Number of Screws	2 ea				
Dynamic Torque Reversing	132 lb-in (15,00 Nm)	Angular Misalignment	2.0°				
Dynamic Torque Non-Reversing	265 lb-in (30.00 Nm)	Parallel Misalignment	0.012 in (0.30 mm)				
Static Torque	530 lb-in (60.00 Nm)	Axial Motion	0.030 in (0.76 mm)				
Torsional Stiffness	1200 lb-in/Deg (135 Nm/Deg)	Moment of Inertia	0.557353 lb-in ² , 163.104 x10 ⁻⁶ kg-m ²				
Maximum Speed	10,000 RPM	Full Bearing Support Required?	Yes				
Zero-Backlash?	Yes	Balanced Design	Yes				
Torque Wrench	TW:BT-4C-3/8-140	Recommended Hex Key	Metric Hex Keys				
Material Specification	Hubs: 2024-T351 Aluminum Bar Bellows: Type 321 Stainless Steel	Temperature	-40°F to 200°F (-40°C to 93°C)				
Finish Specification	Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize		Ероху				
Manufacturer	Ruland Manufacturing	Country of Origin	USA				
Weight (lbs)	0.703200	UPC	634529307755				
Tariff Code	8483.60.8000	UNSPC	31163018				
Note 1	Stainless steel hubs are available u	pon request.					
Note 2	Torque ratings are at maximum misalignment.						
Note 3	Performance ratings are for guidance only. The user must determine suitability for a particular						
Note 4	te 4 Torque ratings for the couplings are based on the physical limitations/failure point of the metal bellows. Unc normal/typical conditions the hubs are capable of holding up to the rated torque of the metal bellows. In son cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on t						

shaft is possible below the rated torque of the metal bellows. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance.

Installation Instructions

- 1. Align the bores of the BC36-32MM-7/8"-A bellows coupling on the shafts that are to be joined and determine if the misalignment parameters are within the limits of the coupling. (*Angular Misialignment:* 2.0°, *Parallel Misalignment:* 0.012 in, 0.30 mm Bellows IM, *Axial Motion:* 0.030 in, 0.76 mm)
- Fully tighten the M6 screw on the first hub to the recommended seating torque of 16 Nm using a 5.0 mm hex torque wrench.
- 3. Before tightening the screw on the second hub, rotate the coupling by hand to allow it to reach its free length.
- Tighten the screw on the second hub to the recommended seating torque. Make sure the coupling remains axially relaxed and the misalignment angle remains centered along the length of the coupling.
- 5. The shafts may extend into the relieved portion of the bore as long as it does not exceed the shaft penetration length of 1.496 in (38 mm).