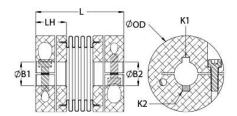




MBCK57-32-32-A

Ruland MBCK57-32-32-A, 32mm x 32mm Bellows Coupling with Keyways, High Stiffness, Aluminum, 57.2mm, OD 82.2mm Length







Description

Ruland MBCK57-32-32-A is a high stiffness bellows coupling with 32mm x 32mm bores, 57.2mm OD, 82.2mm length, and 10mm x 10mm keyways. It has fewer convolutions than comparably sized increased misalignment styles allowing for increased torsional stiffness making it the ideal choice for precision positioning applications. MBCK57-32-32-A is comprised of two anodized aluminum hubs and a stainless steel bellows for lightweight and low inertia. It is also engineered with a balanced design for reduced vibration at high speeds up to 10,000 RPM. The thin walls of the bellows are able to flex while remaining rigid under torsional loads allowing for the accommodation of all forms of misalignment. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. MBCK57-32-32-A is machined from meticulously selected bar stock that is sourced exclusively from North American mills. It is carefully made in our ISO 9001:2015 advanced manufacturing facility in Marlborough, MA under strict controls using proprietary processes. MBCK57-32-32-A is RoHS3, REACH, and Conflict Minerals compliant.

Product	Specifi	ications
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Bore (B1) 32 mm Small Bore (B2) 32 mm Keyway (K1) 10 mm Keyway (K2) 10 mm B1 Max Shaft Penetration 38.0 mm B2 Max Shaft Penetration 38.0 mm Outer Diameter (OD) 2.250 in (57.2 mm) Bore Tolerance +0.03 mm / -0.00 mm Length (L) 3.235 in (82.2 mm) Length Tolerance +/- 0.76 mm Hub Width (LH) 26.67 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Key Width (K1) 10 mm Key Width (K2) 8 mm Key Height (K1) 8 mm Key Height (K2) 8 mm Keyway 1 Height Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance +0.018 mm / -0.018 mm Keyway 1 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance +0.018 mm / -0.018 mm Keyway 1 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance 40.018 mm / -0.018 mm Keyway 1 Meight Tolerance +0.2 mm / 0 mm Boat Solic Solic Soli	Product Specifications			
B1 Max Shaft Penetration 38.0 mm B2 Max Shaft Penetration 38.0 mm Outer Diameter (OD) 2.250 in (57.2 mm) Bore Tolerance +0.03 mm / -0.00 mm Length (L) 3.235 in (82.2 mm) Length Tolerance +/- 0.76 mm Hub Width (LH) 26.67 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Key Width (K1) 10 mm Key Width (K2) 10 mm Key Height (K1) 8 mm Key Height (K2) 8 mm Keyway 1 Height (T1) 35.3 mm Keyway 2 Height (T2) 35.3 mm Keyway 1 Width Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 1 Midth Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 1 Midth Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 1 Midth Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 1 Midth Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 1 Midth Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 1 Midth Tolerance +0.018 mm / -0.018 mm Keyway 1 Midth Tolerance +0.018 mm / -0.018 mm Keyway 2 Height (T2) 35.3 mm Keyway 1 Midth Tolerance +0.2 mm / 0 mm Keyway 2 Midth Tolerance +0.018 mm / 0 mm Keyway 2 Midth Tolerance +0.018 mm / 0 mm Keyway 2 Midth Tolerance +0.018 mm / 0 mm Keyway 2 Midth Tolerance +0.018 mm / 0 mm Keyway 2 Midth Tolerance +0.018 mm / 0 mm Keyway 1 Midth Tolerance +0.018 mm / 0 mm Keyway 2 Midth Tolerance +0.018 mm / 0 mm Keyway 1 Midth Tolerance +0.018 mm / 0 mm Keyway 1 Midth Tolerance +0.018 mm / 0 mm Keyway 1 Midth Tolerance +0.018 mm / 0 mm Keyway 1 Midth Tolerance +0.018 mm / 0 mm Keyway 1 Midth Tolerance +0.018 mm / 0 mm Keyway 1 Midth Tolerance +0.02 mm / 0 mm Keyway 1 Midth Tolerance +0.02 mm / 0 mm Ke	Bore (B1)	32 mm	Small Bore (B2)	32 mm
Outer Diameter (OD) 2.250 in (57.2 mm) Bore Tolerance +0.03 mm / -0.00 mm Length (L) 3.235 in (82.2 mm) Length Tolerance +/- 0.76 mm Hub Width (LH) 26.67 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Key Width (K1) 10 mm Key Width (K2) 10 mm Key Height (K1) 8 mm Key Height (K2) 8 mm Keyway 1 Height (T1) 35.3 mm Keyway 2 Height (T2) 35.3 mm Keyway 1 Width Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 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 15.00 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 30.00 Nm Parallel Misalignment 0.30 mm Static Torque 60.00 Nm Axial Motion 0.75 mm	Keyway (K1)	10 mm	Keyway (K2)	10 mm
Length (L) 3.235 in (82.2 mm) Length Tolerance +/- 0.76 mm Hub Width (LH) 26.67 mm Recommended Shaft Tolerance +/- 0.76 mm Key Width (K1) 10 mm Key Width (K2) 10 mm Key Height (K1) 8 mm Key Height (K2) 8 mm Keyway 1 Height (T1) 35.3 mm Keyway 2 Height (T2) 35.3 mm Keyway 1 Width Tolerance +0.018 mm / -0.018 mm Keyway 1 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 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 15.00 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 30.00 Nm Parallel Misalignment 0.30 mm Static Torque 60.00 Nm Axial Motion 0.75 mm Torsional Stiffness 135 Nm/Deg Moment of Inertia 1.561 x 10 ⁻⁴ kg-m ²	B1 Max Shaft Penetration	38.0 mm	B2 Max Shaft Penetration	38.0 mm
Hub Width (LH)26.67 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmKey Width (K1)10 mmKey Width (K2)10 mmKey Height (K1)8 mmKey Height (K2)8 mmKeyway 1 Height (T1)35.3 mmKeyway 2 Height (T2)35.3 mmKeyway 1 Width Tolerance+0.018 mm / -0.018 mmKeyway 1 Height Tolerance+0.2 mm / 0 mmKeyway 2 Width Tolerance+0.018 mm / -0.018 mmKeyway 2 Height Tolerance+0.2 mm / 0 mmForged Clamp ScrewM6Screw MaterialAlloy SteelHex Wrench Size5.0 mmScrew FinishBlack OxideSeating Torque16 NmNumber of Screws2 eaDynamic Torque Reversing15.00 NmAngular Misalignment2.0°Dynamic Torque Non-Reversing30.00 NmParallel Misalignment0.30 mmStatic Torque60.00 NmAxial Motion0.75 mmTorsional Stiffness135 Nm/DegMoment of Inertia1.561 x 10°4 kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesAverage Load at Max Parallel65.43 NAverage Slope268 N/mmOffset2ero-Backlash?YesBalanced DesignYesTorque WrenchTW-BT-4C-3/8-140Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Aluminum Bar Bellows: Type 321 Stainless SteelTemperature-40°F to 200°F (-40°C to 93°CFinish SpecificationSulfuric Anodized MIL-A-8625 Type Bellows Attachment MethodEpoxy	Outer Diameter (OD)	2.250 in (57.2 mm)	Bore Tolerance	+0.03 mm / -0.00 mm
Key Width (K1) 10 mm Key Width (K2) 10 mm Key Height (K1) 8 mm Key Height (K2) 8 mm Keyway 1 Height (T1) 35.3 mm Keyway 2 Height (T2) 35.3 mm Keyway 1 Width Tolerance +0.018 mm /-0.018 mm Keyway 1 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance +0.018 mm /-0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance +0.018 mm /-0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height (T2) 35.3 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height	Length (L)	3.235 in (82.2 mm)	Length Tolerance	+/- 0.76 mm
Key Height (K1) 8 mm Key Height (K2) 8 mm Keyway 1 Height (T1) 35.3 mm Keyway 2 Height (T2) 35.3 mm Keyway 1 Width Tolerance +0.018 mm /-0.018 mm Keyway 1 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance +0.018 mm /-0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance +0.018 mm /-0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 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 15.00 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 30.00 Nm Parallel Misalignment 0.30 mm Static Torque 60.00 Nm Axial Motion 0.75 mm Torsional Stiffness 135 Nm/Deg Moment of Inertia 1.561 x 10 ⁻⁴ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Average Load at Max Parallel 65.43 N Average Slope 268 N/mm Offset Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-4C-3/8-140 Recommended Hex Key Metric Hex Keys Material Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method Epoxy	Hub Width (LH)	26.67 mm	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm
Keyway 1 Height (T1) 35.3 mm Keyway 2 Height (T2) 35.3 mm Keyway 1 Height Tolerance +0.018 mm / -0.018 mm Keyway 1 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 1 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Alloy Steel Black Oxide 2 ea Dynamic Torque Reversing 30.00 Nm Argular Misalignment 2.0° Orgular Misalignment 30.00 mm Axial Motion 30.00 mm Axial Motion 30.00 mm Full Bearing Support Required? Yes Average Load at Max Parallel 65.43 N Average Slope 268 N/mm Orgular Height Tolerance 40.0 mm Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Alloy Steel Hex Weyn Al	Key Width (K1)	10 mm	Key Width (K2)	10 mm
Keyway 1 Width Tolerance +0.018 mm / -0.018 mm Keyway 1 Height Tolerance +0.2 mm / 0 mm Keyway 2 Width Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Alloy Steel Hex Wrench Size 5.0 mm Screw Finish Black Oxide Seating Torque 16 Nm Number of Screws 2 ea Dynamic Torque Reversing 15.00 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 30.00 Nm Parallel Misalignment 0.30 mm Static Torque 60.00 Nm Axial Motion 0.75 mm Torsional Stiffness 135 Nm/Deg Moment of Inertia 1.561 x 10 ⁻⁴ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Average Load at Max Parallel 65.43 N Average Slope 268 N/mm Offset Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-4C-3/8-140 Recommended Hex Key Metric Hex Keys Temperature -40°F to 200°F (-40°C to 93°C Entire Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method Epoxy	Key Height (K1)	8 mm	Key Height (K2)	8 mm
Keyway 2 Width Tolerance +0.018 mm / -0.018 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm Keyway 2 Height Tolerance +0.2 mm / 0 mm M6 Screw Material Alloy Steel Black Oxide Seating Torque 16 Nm Number of Screws 2 ea Dynamic Torque Reversing 15.00 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 30.00 Nm Parallel Misalignment 0.30 mm Static Torque 60.00 Nm Axial Motion 0.75 mm Torsional Stiffness 135 Nm/Deg Moment of Inertia 1.561 x 10 ⁻⁴ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Average Load at Max Parallel 65.43 N Average Slope 268 N/mm Offset Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-4C-3/8-140 Material Specification Hubs: 2024-T351 Aluminum Bar Bellows: Type 321 Stainless Steel Finish Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method Epoxy	Keyway 1 Height (T1)	35.3 mm	Keyway 2 Height (T2)	35.3 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 15.00 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 30.00 Nm Parallel Misalignment 0.30 mm Static Torque 60.00 Nm Axial Motion 0.75 mm Torsional Stiffness 135 Nm/Deg Moment of Inertia 1.561 x 10 ⁻⁴ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Average Load at Max Parallel 65.43 N Average Slope 268 N/mm Offset Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-4C-3/8-140 Recommended Hex Key Metric Hex Keys Material Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method Epoxy	Keyway 1 Width Tolerance	+0.018 mm / -0.018 mm	Keyway 1 Height Tolerance	+0.2 mm / 0 mm
Hex Wrench Size 5.0 mm Screw Finish Black Oxide Seating Torque 16 Nm Number of Screws 2 ea Dynamic Torque Reversing 15.00 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 30.00 Nm Parallel Misalignment 0.30 mm Static Torque 60.00 Nm Axial Motion 0.75 mm Torsional Stiffness 135 Nm/Deg Moment of Inertia 1.561 x 10 ⁻⁴ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Average Load at Max Parallel 65.43 N Average Slope 268 N/mm Offset 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 Finish Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method Epoxy	Keyway 2 Width Tolerance	+0.018 mm / -0.018 mm	Keyway 2 Height Tolerance	+0.2 mm / 0 mm
Seating Torque 16 Nm Number of Screws 2 ea Dynamic Torque Reversing 15.00 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 30.00 Nm Parallel Misalignment 0.30 mm Static Torque 60.00 Nm Axial Motion 0.75 mm Torsional Stiffness 135 Nm/Deg Moment of Inertia 1.561 x 10 ⁻⁴ kg-m² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Average Load at Max Parallel 65.43 N Average Slope 268 N/mm Offset 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 Finish Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method Epoxy	Forged Clamp Screw	M6	Screw Material	Alloy Steel
Dynamic Torque Reversing 15.00 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 30.00 Nm Parallel Misalignment 0.30 mm Static Torque 60.00 Nm Axial Motion 0.75 mm Forsional Stiffness 135 Nm/Deg Moment of Inertia 1.561 x 10 ⁻⁴ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Average Load at Max Parallel 65.43 N Average Slope 268 N/mm Diffset 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 Finish Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method Epoxy	Hex Wrench Size	5.0 mm	Screw Finish	Black Oxide
Dynamic Torque Non-Reversing 30.00 Nm Parallel Misalignment 0.30 mm Static Torque 60.00 Nm Axial Motion 0.75 mm Torsional Stiffness 135 Nm/Deg Moment of Inertia 1.561 x 10 ⁻⁴ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Average Load at Max Parallel 65.43 N Average Slope 268 N/mm Offset 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 Finish Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method Epoxy	Seating Torque	16 Nm	Number of Screws	2 ea
Static Torque 60.00 Nm Axial Motion 0.75 mm Torsional Stiffness 135 Nm/Deg Moment of Inertia 1.561 x 10 ⁻⁴ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Average Load at Max Parallel 65.43 N Average Slope 268 N/mm Offset 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 Finish Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method Epoxy	Dynamic Torque Reversing	15.00 Nm	Angular Misalignment	2.0°
Torsional Stiffness 135 Nm/Deg Maximum Speed 10,000 RPM Full Bearing Support Required? Average Load at Max Parallel Offset Zero-Backlash? Yes Balanced Design Yes Torque Wrench Material Specification Tw:BT-4C-3/8-140 Hubs: 2024-T351 Aluminum Bar Bellows: Type 321 Stainless Steel Finish Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method 1.561 x 10 ⁻⁴ kg-m² Average Slope 268 N/mm Yes Recommended Hex Key Metric Hex Keys Temperature -40°F to 200°F (-40°C to 93°C) Epoxy	Dynamic Torque Non-Reversing	30.00 Nm	Parallel Misalignment	0.30 mm
Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Average Load at Max Parallel 65.43 N Average Slope 268 N/mm Offset 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 Finish Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method Epoxy	Static Torque	60.00 Nm	Axial Motion	0.75 mm
Average Load at Max Parallel 65.43 N Average Slope 268 N/mm Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-4C-3/8-140 Recommended Hex Key Metric Hex Keys Hubs: 2024-T351 Aluminum Bar Bellows: Type 321 Stainless Steel Finish Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method Epoxy	Torsional Stiffness	135 Nm/Deg	Moment of Inertia	1.561 x 10 ⁻⁴ kg-m ²
Offset 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 Finish Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method Epoxy	Maximum Speed	10,000 RPM	Full Bearing Support Required?	Yes
Torque Wrench TW:BT-4C-3/8-140 Recommended Hex Key Metric Hex Keys Hubs: 2024-T351 Aluminum Bar Bellows: Type 321 Stainless Steel Finish Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method Epoxy	_	65.43 N	Average Slope	268 N/mm
Material SpecificationHubs: 2024-T351 Aluminum Bar Bellows: Type 321 Stainless SteelTemperature-40°F to 200°F (-40°C to 93°CFinish SpecificationSulfuric Anodized MIL-A-8625 Type Bellows Attachment MethodEpoxy	Zero-Backlash?	Yes	Balanced Design	Yes
Bellows: Type 321 Stainless Steel Finish Specification Sulfuric Anodized MIL-A-8625 Type Bellows Attachment Method Epoxy	Torque Wrench	TW:BT-4C-3/8-140	Recommended Hex Key	Metric Hex Keys
	Material Specification		Temperature	-40°F to 200°F (-40°C to 93°C)
	Finish Specification		Bellows Attachment Method	Ероху

	Black Anodize					
Manufacturer	Ruland Manufacturing	Country of Origin	USA			
Weight (lbs)	0.629000	UPC	634529310878			
Tariff Code	8483.60.8000	UNSPC	31163018			
Note 1	Stainless steel hubs are avai	Stainless steel hubs are available upon request.				
Note 2	Torque ratings are at maximu	Torque ratings are at maximum misalignment.				
Note 3	Performance ratings are for g	Performance ratings are for guidance only. The user must determine suitability for a particular application.				
Note 4	Torque ratings for the couplings are based on the physical limitations/failure point of the metal bellows. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the metal bellows. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the 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

- Align the bores of the MBCK57-32-32-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.* 0.30 mm, *Axial Motion:* 0.75 mm)
- 2. 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.
- 4. 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 38 mm.