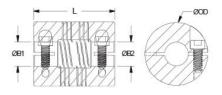




MWC25-3/8"-9MM-SS

Ruland MWC25-3/8"-9MM-SS, 3/8" x 9mm Four Beam Coupling, Stainless Steel, Clamp Style, 0.984" (25.0mm) OD, 1.181" (30.0mm) Length





Description

Ruland MWC25-3/8"-9MM-SS is a clamp style four beam coupling with 0.3750" x 9mm bores, 0.984" (25.0mm) OD, and 1.181" (30.0mm) length. It is machined from a single piece of material and feature two sets of two spiral cuts. This gives it higher torque capacity, lower windup, and larger body sizes than single beam couplings. MWC25-3/8"-9MM-SS is zero-backlash and has a balanced design for reduced vibration at high speeds of up to 6,000 RPM. MW-series couplings have purely metric outer diameter and length dimensions and fit in a smaller envelope than the P-series allowing for easier interchanges from single beam couplings. This four beam spiral coupling is zero-backlash and has a balanced design for reduced vibration at high speeds of up to 6,000 RPM. All hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. MWC25-3/8"-9MM-SS is made from 303 stainless steel for increased torque capacity. It is machined from bar stock that is sourced exclusively from North American mills and RoHS3 and REACH compliant. MWC25-3/8"-9MM-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Length (L)1.181 in (30.0 mm)Recommended Shaft Tolerance +0.000 / -0.0005 " (+0 mm)Cap ScrewM3Screw MaterialAlloy SteelHex Wrench Size2.5 mmScrew FinishBlack OxideSeating Torque2.1 NmNumber of Screws2 eaDynamic Torque Reversing1.15 NmAngular Misalignment3°Dynamic Torque Non-Reversing2.30 NmParallel Misalignment0.38 mmStatic Torque4.60 NmAxial Motion0.25 mmTorsional Stiffness0.83 Deg/NmMoment of Inertia7.871x10 ⁶ kg-m²Maximum Speed6,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW;BT-1R-1/4-18.3Recommended Hex KeyMetric Hex KeysMaterial SpecificationType 303 Austenitic, Non-MagneticTemperature-40°F to 350°F (-40°C tBarBarSattic Torque9.175600UPC634529240380Tariff CodeUNSPC31163003Note 1Torque ratings are at maximum misalignment.Note 2Performance ratings are for guidance only. The user must determine suitability for a particular ag Note 3Note 3Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. ks au undersized, slippage on the shaft is possible below the rated torque of the machined beams. In some cases, especially when the smallest standard bores are used or where shafts at undersized, slippage on the shaft is possible below the rated torque of the machined beams. Rs	roduct Specifications			
Outer Diameter (OD) 0.984 in (25.0 mm) Bore Tolerance +0.001 in / -0.000 in (+0 -0.000 mm) Length (L) 1.181 in (30.0 mm) Recommended Shaft Tolerance +0.0000 / -0.0005 " (+0 mm) Cap Screw M3 Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 1.15 Nm Angular Misalignment 3° Dynamic Torque Non-Reversing 2.30 Nm Parallel Misalignment 0.38 mm Static Torque 4.60 Nm Axial Motion 0.25 mm Torsional Stiffness 0.83 Deg/Nm Moment of Inertia 7.871×10.6 kg-m ² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Material Specification Type 303 Austenitic, Non-Magnetic Temperature -40°F to 350°F (-40°C t Bar Gountry of Origin USA Weight (lbs) 0.175600 UPC 634529240380 Tariff Code 8483.60.800	ore (B1)	0.3750 in	Small Bore (B2)	9 mm
Length (L) 1.181 in (30.0 mm) Recommended Shaft Tolerance +0.0000 / -0.0005 " (+0 mm) Cap Screw M3 Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 1.15 Nm Angular Misalignment 3° Dynamic Torque Non-Reversing 2.30 Nm Parallel Misalignment 0.38 mm Static Torque Non-Reversing 2.30 Nm Parallel Misalignment 0.38 mm Static Torque Non-Reversing 0.30 Nm Parallel Misalignment 0.38 mm Static Torque 4.60 Nm Axial Motion 0.25 mm Torsional Stiffness 0.83 Deg/Nm Moment of Inertia 7.871x10° kg-m² Maximum Speed 6.000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Material Specification Birght, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.17	1 Max Shaft Penetration	0.559 in (14.2 mm)	B2 Max Shaft Penetration	0.559 in (14.2 mm)
Cap Screw M3 Screw Material Alloy Steel Hex Wrench Size 2.5 mm Screw Finish Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 1.15 Nm Angular Misalignment 3° Dynamic Torque Non-Reversing 2.30 Nm Parallel Misalignment 0.38 mm Static Torque 4.60 Nm Axial Motion 0.25 mm Torsional Stiffness 0.83 Deg/Nm Moment of Inertia 7.871x10° kg-m² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Material Specification Type 303 Austenitic, Non-Magnetic Temperature -40°F to 350°F (-40°C t Bar Bar - - - - Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.175600 UPC 634529240380 Tariff Code 8483.60.8000 UNSPC 31163003 - - Note 1 Torque ratings are at maximum misalignment. Note 3	uter Diameter (OD)	0.984 in (25.0 mm)	Bore Tolerance	+0.001 in / -0.000 in (+0.025 mm / -0.000 mm)
Hex Wrench Size2.5 mmScrew FinishBlack OxideSeating Torque2.1 NmNumber of Screws2 eaDynamic Torque Reversing1.15 NmAngular Misalignment3°Dynamic Torque Non-Reversing2.30 NmParallel Misalignment0.38 mmStatic Torque4.60 NmAxial Motion0.25 mmTorsional Stiffness0.83 Deg/NmMoment of Inertia7.871x10°6 kg-m²Maximum Speed6,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-18.3Recommended Hex KeyMetric Hex KeysMaterial SpecificationType 303 Austenitic, Non-MagneticTemperature-40°F to 350°F (-40°C tBarBarSign ManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.175600UPC634529240380Tariff Code8483.60.8000UNSPC31163003Note 1Torque ratings are at maximum misalignment.Note 2Performance ratings are for guidance only. The user must determine suitability for a particular ar Droque ratings for the couplings are based on the physical limitations/failure point of the machined Under normal/typical conditions the hubs are capable of holding up to the rated torque of the ma beams. In some cases, especially when the smallest standard bores are used or where shafts ar undersized, slippage on the shaft is possible below the rated torque of the ma beams. In some cases, especially when the smallest standard bores are used or where shafts ar undersized, slippage on the shaft is possible below the rated torque	ength (L)	1.181 in (30.0 mm)	Recommended Shaft Tolerance	+0.0000 / -0.0005 " (+0.000 / -0.013 mm)
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Static Torque4.60 NmAxial Motion0.25 mmTorsional Stiffness0.83 Deg/NmMoment of Inertia7.871x10 ⁻⁶ kg-m ² Maximum Speed6,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-18.3Recommended Hex KeyMetric Hex KeysMaterial SpecificationType 303 Austenitic, Non-Magnetic BarTemperature-40°F to 350°F (-40°C tFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.175600UPC634529240380Tariff Code8483.60.8000UNSPC31163003Torque ratings are at maximum misalignment.Note 1Torque ratings are for guidance only. The user must determine suitability for a particular ap Under normal/typical conditions the hubs are capable of holding up to the rated torque of the ma beams. In some cases, especially when the smallest standard bores are used or where shafts au undersized, slippage on the shaft is possible below the rated torque of the machined beams. Key available to provide additional torque capacity in the shaft/hub connection when required. Please	ynamic Torque Reversing	1.15 Nm	Angular Misalignment	3°
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UNSPC 31163003 Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular ap Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machine Under normal/typical conditions the hubs are capable of holding up to the rated torque of the ma beams. In some cases, especially when the smallest standard bores are used or where shafts an undersized, slippage on the shaft is possible below the rated torque of the machined beams. Key available to provide additional torque capacity in the shaft/hub connection when required. Please	ountry of Origin	USA	Weight (Ibs)	0.175600
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Prop 65 AWARNING This product can expose you to chemicals including Ethylene Thiourea and Nicke	rop 65	WARNING This product can exp	ose you to chemicals including Ethy	lene Thiourea and Nickel (metallic),

Installation Instructions

- 1. Align the bores of the MWC25-3/8"-9MM-SS four beam coupling on the shafts that are to be joined and determine if the misalignment parameters are within the limits of the coupling. (*Angular Misialignment:* 3°, *Parallel Misalignment:* 0.38 mm, *Axial Motion:* 0.25 mm)
- Fully tighten the M3 screw on one hub to the recommended seating torque of 2.1 Nm using a 2.5 mm hex torque wrench.
- 3. Before tightening the screws on the second hub, rotate the coupling by hand to allow it to reach its free length.
- Tighten the screws 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 0.559 in (14.2 mm).