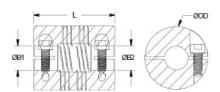




MWC25-7-7-A

Ruland MWC25-7-7-A, 7mm x 7mm Four Beam Coupling, Aluminum, Clamp Style, 25.0mm OD, 30.0mm Length





Description

Ruland MWC25-7-7-A is a clamp style four beam coupling with 7mm x 7mm bores, 25.0mm OD, and 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. MWC25-7-7-A 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. MWC25-7-7-A is made from 7075 aluminum for lightweight and low inertia. It is machined from bar stock that is sourced exclusively from North American mills and RoHS3 and REACH compliant. MWC25-7-7-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bt Max Shaft Penetration Outer Diameter (OD) 25.0 mm Bore Tolerance +0.025 mm/-0.000 mm Length (L) 30.0 mm Recommended Shaft Tolerance +0.000 mm/-0.001 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 0.86 Nm Angular Misalignment Static Torque 3.42 Nm Axial Motion 0.25 mm Torsional Stiffness 1.22 Deg/Nm Moment of Inertia 2.955 x10 ⁻⁶ kg-m² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Material Specification 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Country of Origin USA Weight (Ibs) Note 1 Torque ratings are at maximum misalignment Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application. Note 3 Ven Shafts Penetration Name +0.025 mm 14.2 mm 4.00 Steel +0.000 mm /-0.013 mm Aluminum Bar Furght (Code) Furght (Base) Furght (B	r roduct opecifications			
Duter Diameter (OD) 25.0 mm Bore Tolerance +0.025 mm / -0.000 mm Length (L) 30.0 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Racp 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 0.86 Nm Angular Misalignment 3° Dynamic Torque Non-Reversing 1.71 Nm Parallel Misalignment 0.38 mm Static Torque 3.42 Nm Axial Motion 0.25 mm Torsional Stiffness 1.22 Deg/Nm Moment of Inertia 2.955 x10 ⁻⁶ kg-m² Westrorque Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW-BT-TR-1/4-18.3 Recommended Hex Key Metric Hex Keys Material Specification 7075-7651 Extruded and Drawn Aluminum Bar Finish Specification Finish Specification Bright, No Plating Manufacture Manufacture Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.071900 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 application. Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. 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 machined beams. Please	Bore (B1)	7 mm	Small Bore (B2)	7 mm
Length (L) 30.0 mm Recommended Shaft Tolerance 40.000 mm / -0.013 mm Alloy Steel Black Oxide Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 0.86 Nm Angular Misalignment 3° Dynamic Torque Ron-Reversing 1.71 Nm Parallel Misalignment 0.38 mm Static Torque 3.42 Nm Axial Motion 0.25 mm Torsional Stiffness 1.22 Deg/Nm Moment of Inertia 2.955 x10 ⁻⁶ kg-m² 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 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Alund Manufacturing Country of Origin USA Weight (Ibs) 0.071900 UPC 634529110669 Tariff Code 8483.60.8000 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 application. Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. 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 machined beams. Please consult technical support for more assistance. Prop 65	B1 Max Shaft Penetration	14.2 mm	B2 Max Shaft Penetration	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 0.86 Nm Angular Misalignment 3° Dynamic Torque Non-Reversing 1.71 Nm Parallel Misalignment 0.38 mm Static Torque Non-Reversing 1.72 Deg/Nm Axial Motion 0.25 mm Torsional Stiffness 1.22 Deg/Nm Moment of Inertia 2.955 x10 ⁻⁶ 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 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.071900 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 application. Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. 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 machined beams. Please consult technical support for more assistance. Prop 65 AWARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Outer Diameter (OD)	25.0 mm	Bore Tolerance	+0.025 mm / -0.000 mm
Hex Wrench Size 2.5 mm Screw Finish Black Oxide Seating Torque Pynamic Torque Reversing Dynamic Torque Reversing Dynamic Torque Non-Reversing Dynamic Torque Non-Reversing Dynamic Torque Back Oxide Dynamic Torque Non-Reversing Dynamic Torque Non-Reversing Dynamic Torque Instantian Dynamic	Length (L)	30.0 mm	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm
Seating Torque 2.1 Nm Number of Screws 2 ea Dynamic Torque Reversing 0.86 Nm Angular Misalignment 3° Dynamic Torque Non-Reversing 1.71 Nm Parallel Misalignment 0.38 mm Static Torque 3.42 Nm Axial Motion 0.25 mm Torsional Stiffness 1.22 Deg/Nm Moment of Inertia 2.955 x10 6 kg-m² Maximum Speed 6,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench Tw:BT-1/4-18.3 Recommended Hex Key Metric Hex Keys Material Specification 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.071900 UPC 634529110669 Tariff Code 8483.60.8000 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 application. Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. 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 machined beams. Please consult technical support for more assistance. Prop 65	Cap Screw	M3	Screw Material	Alloy Steel
Dynamic Torque Reversing Dynamic Torque Non-Reversing Dynamic Torque Non-Reversing Dynamic Torque Non-Reversing Dynamic Torque Non-Reversing Dynamic Torque Dynamic Torque Dynamic Torque Dynamic Torque Non-Reversing Dynamic Torque Dynamic Torque Dynamic Torque Dynamic Torque Non-Reversing Dynamic Torque Dynamic Torque Non-Reversing Dynamic Torque Dynamic Torque Non-Reversing Dynamic Torque Reversing Dynamic Torque Reversing Dynamic Torque Reversing Dynamic Torque Non-Reversing Dynamic Torque Reversing Dynamic Terque	Hex Wrench Size	2.5 mm	Screw Finish	Black Oxide
Dynamic Torque Non-Reversing 1.71 Nm Parallel Misalignment 0.38 mm Static Torque 3.42 Nm Axial Motion 0.25 mm Torsional Stiffness 1.22 Deg/Nm Moment of Inertia 2.955 x10 ⁻⁶ 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 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.071900 UPC 634529110669 Tariff Code 8483.60.8000 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 application. Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. 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 machined beams. Please consult technical support for more assistance. Prop 65	Seating Torque	2.1 Nm	Number of Screws	2 ea
Static Torque 3.42 Nm Axial Motion 0.25 mm Torsional Stiffness 1.22 Deg/Nm Moment of Inertia 2.955 x10-6 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 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.071900 UPC 634529110669 Tariff Code 8483.60.8000 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 application. Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. 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 machined beams. Please consult technical support for more assistance. Prop 65 ▲WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Dynamic Torque Reversing	0.86 Nm	Angular Misalignment	3°
Torsional Stiffness 1.22 Deg/Nm Moment of Inertia 2.955 x10 ⁻⁶ 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 7075-T651 Extruded and Drawn Aluminum Bar Femperature -40°F to 225°F (-40°C to 107°C) Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.071900 UPC 634529110669 Tariff Code 8483.60.8000 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 application. Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. 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 machined beams. Please consult technical support for more assistance. Prop 65 AWARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Dynamic Torque Non-Reversing	1.71 Nm	Parallel Misalignment	0.38 mm
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 7075-T651 Extruded and Drawn Aluminum Bar Temperature -40°F to 225°F (-40°C to 107°C) Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.071900 UPC 634529110669 Tariff Code 8483.60.8000 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 application. Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. 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 machined beams. Please consult technical support for more assistance. Prop 65 WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm.	Static Torque	3.42 Nm	Axial Motion	0.25 mm
Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys Material Specification T075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Weight (Ibs) USA Weight (Ibs) USA Weight (Ibs) UNSPC Wight Torque ratings are at maximum misalignment. Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application. Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. 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 machined beams. Please consult technical support for more assistance. Prop 65 MARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Torsional Stiffness	1.22 Deg/Nm	Moment of Inertia	2.955 x10 ⁻⁶ kg-m ²
Torque Wrench TW:BT-1R-1/4-18.3 Recommended Hex Key Metric Hex Keys 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Weight (lbs) USA Weight (lbs) USA Weight (lbs) USA Weight (lbs) USA Weight (lbs) UNSPC Word Word 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 application. Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. 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 machined beams. Please consult technical support for more assistance. Prop 65 WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Maximum Speed	6,000 RPM	Full Bearing Support Required?	Yes
Material Specification 7075-T651 Extruded and Drawn Aluminum Bar Finish Specification Bright, No Plating Manufacturer Country of Origin USA Weight (lbs) 0.071900 UPC 634529110669 Tariff Code 8483.60.8000 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 application. Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. 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 machined beams. Please consult technical support for more assistance. Prop 65 WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Zero-Backlash?	Yes	Balanced Design	Yes
Aluminum Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.071900 UPC 634529110669 Tariff Code 8483.60.8000 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 application. Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. 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 machined beams. Please consult technical support for more assistance. Prop 65 AWARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Torque Wrench	TW:BT-1R-1/4-18.3	Recommended Hex Key	Metric Hex Keys
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UNSPC Note 1 Torque ratings are at maximum misalignment. Note 2 Performance ratings are for guidance only. The user must determine suitability for a particular application. Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined beams. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined beams. 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 machined beams. Please consult technical support for more assistance. Prop 65 ■ WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to	Country of Origin	USA	Weight (lbs)	0.071900
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Installation Instructions

- Align the bores of the MWC25-7-7-A 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 Misalignment*: 3°, *Parallel Misalignment*: 0.38 mm, *Axial Motion*: 0.25 mm)
- 2. 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.
- 4. 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 14.2 mm.