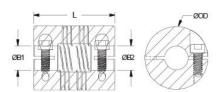




## MWC25-10-8-A

Ruland MWC25-10-8-A, 10mm x 8mm Four Beam Coupling, Aluminum, Clamp Style, 25.0mm OD, 30.0mm Length





## **Description**

Ruland MWC25-10-8-A is a clamp style four beam coupling with 10mm x 8mm 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. MWC25-10-8-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. MWC25-10-8-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. MWC25-10-8-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

**Product Specifications** 

Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing  Country of Origin USA Weight (lbs) 0.066400 UPC 634529055311 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 of the machined by the couplings are based on the physical limitations/failure point of the machined by 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 technical support for more assistance.  Prop 65  WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State California to cause cancer and birth defects or other reproductive harm. For more information go to	Product Specifications			
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 / -0.013 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 0.78 Nm Angular Misalignment 3°   Dynamic Torque Reversing 1.55 Nm Parallel Misalignment 0.38 mm   Static Torque 3.10 Nm Axial Motion 0.25 mm   Torsional Stiffness 1.75 Deg/Nm Moment of Inertia 2.955 x10 <sup>-6</sup> 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 7075-7651 Extruded and Drawn Aluminum Bar   Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing   Country of Origin USA Weight (libs) 0.066400   UPC 634529055311 Tariff Code 8483.60.8000   UPC 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 applic Note 3   Torque ratings for the couplings are based on the physical limitations/failure point 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. 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. 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. 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. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage	Bore (B1)	10 mm	Small Bore (B2)	8 mm
Length (L)       30.0 mm       Recommended Shaft Tolerance       +0.000 mm / -0.013 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       1.55 Nm       Angular Misalignment       3°         Dynamic Torque Non-Reversing       1.55 Nm       Parallel Misalignment       0.38 mm         Static Torque       3.10 Nm       Axial Motion       0.25 mm         Torsional Stiffness       1.75 Deg/Nm       Moment of Inertia       2.955 x10°6 kg-m²         Maximum Speed       6,000 RPM       Full Bearing Support Required?       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 1         Finish Specification       Bright, No Plating       Manufacturer       Rulland Manufacturing         Country of Origin       USA       Weight (lbs)       0.066400         UPC       634529055311       Tariff Code       8483.60.8000         UNSPC       31163003         Note 1	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 0.78 Nm Angular Misalignment 3°  Dynamic Torque Non-Reversing 1.55 Nm Parallel Misalignment 0.38 mm  Static Torque 3.10 Nm Axial Motion 0.25 mm  Torsional Stiffness 1.75 Deg/Nm Moment of Inertia 2.955 x10° 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) 0.066400  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. 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 technical support for more assistance.  Prop 65  ■ WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State 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 2.1 Nm Number of Screws 2 ea  Dynamic Torque Reversing 0.78 Nm Angular Misalignment 3°  Dynamic Torque Non-Reversing 1.55 Nm Parallel Misalignment 0.38 mm  Static Torque 3.10 Nm Axial Motion 0.25 mm  Torsional Stiffness 1.75 Deg/Nm Moment of Inertia 2.955 x10 <sup>-6</sup> 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) 0.066400  UPC 634529055311 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 applit Note 3 Torque ratings for the couplings are based on the physical limitations/failure point 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. 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. 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 technical support for more assistance.  Prop 65	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 0.78 Nm Angular Misalignment 3°  Dynamic Torque Non-Reversing 1.55 Nm Parallel Misalignment 0.38 mm  Static Torque 3.10 Nm Axial Motion 0.25 mm  Torsional Stiffness 1.75 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) 0.066400  UPC 634529055311 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 applic Note 3  Torque ratings for the couplings are based on the physical limitations/failure point 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 technical support for more assistance.  Prop 65  AWARNING This product can expose you to the chemical Ethylene Thiourea, known to the State California to cause cancer and birth defects or other reproductive harm. For more information go to	Cap Screw	M3	Screw Material	Alloy Steel
Dynamic Torque Reversing Dynamic Torque Non-Reversing Dynamic Torque Non-Reversing 1.55 Nm Parallel Misalignment 0.38 mm Static Torque 3.10 Nm Axial Motion 0.25 mm Torsional Stiffness 1.75 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) 0.066400 UPC 634529055311 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 applic 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. 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. 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 technical support for more assistance.  Prop 65	Hex Wrench Size	2.5 mm	Screw Finish	Black Oxide
Dynamic Torque Non-Reversing 1.55 Nm Parallel Misalignment 0.38 mm  Static Torque 3.10 Nm Axial Motion 0.25 mm  Torsional Stiffness 1.75 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) 0.066400  UPC 634529055311 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. 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. 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 technical support for more assistance.  Prop 65  ▲WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State California to cause cancer and birth defects or other reproductive harm. For more information go to	Seating Torque	2.1 Nm	Number of Screws	2 ea
Static Torque  3.10 Nm Axial Motion 0.25 mm  Torsional Stiffness 1.75 Deg/Nm Moment of Inertia 2.955 x10 <sup>-6</sup> kg-m <sup>2</sup> 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 7075-1651 Extruded and Drawn Aluminum Bar  Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.066400  UPC 634529055311 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 by 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 technical support for more assistance.  Prop 65  AWARNING This product can expose you to the chemical Ethylene Thiourea, known to the State California to cause cancer and birth defects or other reproductive harm. For more information go to	Dynamic Torque Reversing	0.78 Nm	Angular Misalignment	3°
Torsional Stiffness 1.75 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) 0.066400  UPC 634529055311 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 by 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 technical support for more assistance.  Prop 65  MARNING This product can expose you to the chemical Ethylene Thiourea, known to the State California to cause cancer and birth defects or other reproductive harm. For more information go to	<b>Dynamic Torque Non-Reversing</b>	1.55 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 1         Finish Specification       Bright, No Plating       Manufacturer       Ruland Manufacturing         Country of Origin       USA       Weight (lbs)       0.066400         UPC       634529055311       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 only. The user must determine suitability for a particular application only. The user must determine suitability for a particular application only. The user must determine suitability for a particular application only. The user must determine suitability for a particular application only. The user must determine suitability for a particular application only. The user must determine suitability for a particular application only. The user must determine suitability for a particular application only. The user must determine suitability for a particular application only. The user must determine suitability for a particular application only. The user must determine suitability for a particular application only. The user must determi	Static Torque	3.10 Nm	Axial Motion	0.25 mm
Tero-Backlash?  Yes  Balanced Design  Yes  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  Ruland Manufacturing  Country of Origin  USA  Weight (lbs)  0.066400  UPC  634529055311  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 applic 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 technical support for more assistance.  Prop 65  MARNING This product can expose you to the chemical Ethylene Thiourea, known to the State California to cause cancer and birth defects or other reproductive harm. For more information go to	Torsional Stiffness	1.75 Deg/Nm	Moment of Inertia	2.955 x10 <sup>-6</sup> kg-m <sup>2</sup>
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  Ruland Manufacturing  Country of Origin  USA  Weight (lbs)  0.066400  UPC  634529055311  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 of the machined bunder 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 technical support for more assistance.  Prop 65  WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State 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 Ruland Manufacturing Country of Origin USA Weight (lbs) 0.066400 UPC 634529055311 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 of the machined bunder 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 technical support for more assistance.  Prop 65  MARNING This product can expose you to the chemical Ethylene Thiourea, known to the State California to cause cancer and birth defects or other reproductive harm. For more information go to	Zero-Backlash?	Yes	Balanced Design	Yes
Finish Specification  Bright, No Plating  Manufacturer  Ruland Manufacturing  Country of Origin  USA  Weight (lbs)  0.066400  UPC  634529055311  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 of the machined by the couplings are based on the physical limitations/failure point of the machined by 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 technical support for more assistance.  Prop 65  WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State 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
Country of Origin  USA  Weight (lbs)  0.066400  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 applie  Note 3  Torque ratings for the couplings are based on the physical limitations/failure point 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 technical support for more assistance.  Prop 65  MARNING This product can expose you to the chemical Ethylene Thiourea, known to the State California to cause cancer and birth defects or other reproductive harm. For more information go to	Material Specification		Temperature	-40°F to 225°F (-40°C to 107°C)
UPC 634529055311 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 applie Note 3 Torque ratings for the couplings are based on the physical limitations/failure point 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 technical support for more assistance.  Prop 65  MARNING This product can expose you to the chemical Ethylene Thiourea, known to the State California to cause cancer and birth defects or other reproductive harm. For more information go to	Finish Specification	Bright, No Plating	Manufacturer	Ruland Manufacturing
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 applie of the physical limitations/failure point 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 technical support for more assistance.  Prop 65  ▲ WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State California to cause cancer and birth defects or other reproductive harm. For more information go to	Country of Origin	USA	Weight (lbs)	0.066400
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	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 <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .		

## **Installation Instructions**

- Align the bores of the MWC25-10-8-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 Misialignment*: 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.