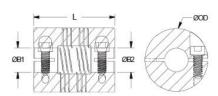




## MWC25-10-10-A

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





## **Description**

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

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Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.064800 UPC 634529055236 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 applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine 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 of						
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 6 kg-m²  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) 0.064800  UPC 634529055236 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 applica 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 on the shaft is possible below the rated torque of the machined b	Bore (B1)	10 mm	Small Bore (B2)	10 mm		
Length (L)  30.0 mm  Recommended Shaft Tolerance  40.000 mm / -0.013 mm  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  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  Wes  Zero-Backlash?  Yes  Balanced Design  Yes  Torque Wrench  TW-B1-1R-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  Aluminum Bar  Finish Specification  Bright, No Plating  Manufacturer  Ruland Manufacturing  Country of Origin  USA  Weight (lbs)  0.064800  UPC  634529055236  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 applica  Note 3  Torque ratings are for guidance only. The user must determine suitability for a particular applica  Note 3  Torque ratings are for becouplings are based on the physical limitations/failure point of the machined be 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. In some cases, especially when the smallest standard bores	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 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-T661 Extruded and Drawn Aluminum Bar  Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing  Country of Origin USA Weight (lbs) 0.064800  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 applica  Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine 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. Please of the charman productive 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 x10⁻⁶ 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-T661 Extruded and Drawn Aluminum Bar  Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing  Country of Origin USA Weight (lbs) 0.064800  UPC 634529055236 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 applica Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined be under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined be 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. Please of 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 <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 (lbs) 0.064800  UPC 634529055236 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 applica  Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine 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 of 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 1.55 Nm Parallel Misalignment Dynamic Torque Non-Reversing Dynamic Torque Misalignment Dynamic Dynamic Dynamic Torque Ruland Misalignment Dynamic Dyna	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 7075-7651 Extruded and Drawn Aluminum Bar  Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing  Country of Origin USA Weight (Ibs) 0.064800  UPC 634529055236 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 applica  Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machine 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 machine beams. Please of 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	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-T651 Extruded and Drawn Aluminum Bar  Finish Specification  Bright, No Plating  Manufacturer  Ruland Manufacturing  Country of Origin  USA  Weight (lbs)  0.064800  UPC  634529055236  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 applica  Note 3  Torque ratings for the couplings are based on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine 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 of 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 Reversing	0.78 Nm	Angular Misalignment	3°		
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-T651 Extruded and Drawn Aluminum Bar  Finish Specification  Bright, No Plating  Manufacturer  Ruland Manufacturing  Country of Origin  USA  Weight (lbs)  0.064800  UPC  634529055236  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 applica  Note 3  Torque ratings for the couplings are based on the physical limitations/failure point of the machined be 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 of 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	<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  Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing  Country of Origin USA Weight (Ibs) 0.064800  UPC 634529055236 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 applica  Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine 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 of 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	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  Material Specification  7075-T651 Extruded and Drawn Aluminum Bar  Finish Specification  Bright, No Plating  Manufacturer  Ruland Manufacturing  Country of Origin  USA  Weight (lbs)  0.064800  UPC  634529055236  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 applica  Note 3  Torque ratings for the couplings are based on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machined be undersized, slippage on the shaft is possible below the rated torque of the machined beams. Please of 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	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  Material Specification  7075-T651 Extruded and Drawn Aluminum Bar  Finish Specification  Bright, No Plating  Manufacturer  Ruland Manufacturing  Country of Origin  USA  Weight (Ibs)  0.064800  UPC  634529055236  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 applica  Note 3  Torque ratings for the couplings are based on the physical limitations/failure point of the machined be Under normal/typical conditions the hubs are capable of holding up to the rated torque of the machine 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 of 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	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 (Ibs) 0.064800  UPC 634529055236 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 applica  Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be 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 of 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		
Finish Specification  Bright, No Plating  Manufacturer  Ruland Manufacturing  Country of Origin  USA  Weight (lbs)  0.064800  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 applica  Note 3  Torque ratings for the couplings are based on the physical limitations/failure point of the machined be  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 of 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	Torque Wrench	TW:BT-1R-1/4-18.3	Recommended Hex Key	Metric Hex Keys		
Country of Origin  USA  Weight (lbs)  0.064800  UPC  634529055236  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 applica  Note 3  Torque ratings for the couplings are based on the physical limitations/failure point of the machined be  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 of 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	Material Specification		Temperature	-40°F to 225°F (-40°C to 107°C)		
UPC 634529055236 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 applica  Note 3 Torque ratings for the couplings are based on the physical limitations/failure point of the machined be  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 of  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	Finish Specification	Bright, No Plating	Manufacturer	Ruland Manufacturing		
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	Prop 65	· · · · · · · · · · · · · · · · · · ·				

## **Installation Instructions**

- 1. Align the bores of the MWC25-10-10-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.