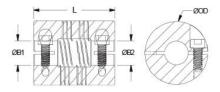




## MWC25-10-6-A

Ruland MWC25-10-6-A, 10mm x 6mm Four Beam Coupling, Aluminum, Clamp Style, 25.0mm OD, 30.0mm Length





## Description

Ruland MWC25-10-6-A is a clamp style four beam coupling with 10mm x 6mm 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. MWC25-10-6-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. MWC25-10-6-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. MWC25-10-6-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

## **Product Specifications**

10 mm	Small Bore (B2)	6 mm
14.2 mm	B2 Max Shaft Penetration	14.2 mm
25.0 mm	Bore Tolerance	+0.025 mm / -0.000 mm
30.0 mm	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm
M3	Screw Material	Alloy Steel
2.5 mm	Screw Finish	Black Oxide
2.1 Nm	Number of Screws	2 ea
0.78 Nm	Angular Misalignment	3°
1.55 Nm	Parallel Misalignment	0.38 mm
3.10 Nm	Axial Motion	0.25 mm
1.75 Deg/Nm	Moment of Inertia	2.955 x10 <sup>-6</sup> kg-m <sup>2</sup>
6,000 RPM	Full Bearing Support Required?	Yes
Yes	Balanced Design	Yes
TW:BT-1R-1/4-18.3	Recommended Hex Key	Metric Hex Keys
7075-T651 Extruded and Drawn Aluminum Bar	Temperature	-40°F to 225°F (-40°C to 107°C)
Bright, No Plating	Manufacturer	Ruland Manufacturing
USA	Weight (Ibs)	0.067300
634529055274	Tariff Code	8483.60.8000
31163003		
Torque ratings are at maximum misalignment.		
Performance ratings are for guidance only. The user must determine suitability for a particular application.		
Under normal/typical conditions the beams. In some cases, especially v undersized, slippage on the shaft is	hubs are capable of holding up to the when the smallest standard bores are possible below the rated torque of t	ne rated torque of the machined e used or where shafts are
	14.2 mm   25.0 mm   30.0 mm   M3   2.5 mm   2.1 Nm   0.78 Nm   1.55 Nm   3.10 Nm   1.75 Deg/Nm   6,000 RPM   Yes   TW:BT-1R-1/4-18.3   7075-T651 Extruded and Drawn   Aluminum Bar   Bright, No Plating   USA   634529055274   31163003   Torque ratings are at maximum mis   Performance ratings are for guidant   Torque ratings for the couplings are   Under normal/typical conditions the   beams. In some cases, especially wundersized, slippage on the shaft is technical support for more assistant	14.2 mmB2 Max Shaft Penetration25.0 mmBore Tolerance30.0 mmRecommended Shaft ToleranceM3Screw Material2.5 mmScrew Finish2.1 NmNumber of Screws0.78 NmAngular Misalignment1.55 NmParallel Misalignment3.10 NmAxial Motion1.75 Deg/NmMoment of Inertia6,000 RPMFull Bearing Support Required?YesBalanced DesignTW:BT-1R-1/4-18.3Recommended Hex Key7075-T651 Extruded and Drawn Aluminum BarManufacturerUSAWeight (Ibs)634529055274Tariff Code31163003Torque ratings are at maximum misalignment.

- Align the bores of the MWC25-10-6-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.