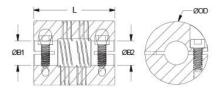




MWC30-10-8-A

Ruland MWC30-10-8-A, 10mm x 8mm Four Beam Coupling, Aluminum, Clamp Style, 30.0mm OD, 38.0mm Length





Description

Ruland MWC30-10-8-A is a clamp style four beam coupling with 10mm x 8mm bores, 30.0mm OD, and 38.0mm 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. MWC30-10-8-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. MWC30-10-8-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. MWC30-10-8-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Small Bore (B2)	8 mm
B2 Max Shaft Pe	enetration 18.2 mm
Bore Tolerance	+0.025 mm / -0.000 mm
Recommended	Shaft Tolerance +0.000 mm / -0.013 mm
Screw Material	Alloy Steel
Screw Finish	Black Oxide
Number of Scre	ews 2 ea
Angular Misalig	inment 3°
Parallel Misalig	nment 0.38 mm
Axial Motion	0.25 mm
Moment of Inert	tia 7.958 x10 ⁻⁶ kg-m ²
Full Bearing Su	pport Required? Yes
Balanced Desig	in Yes
Additional Recommended	Hex Key Metric Hex Keys
ruded and Drawn Temperature	-40°F to 225°F (-40°C to 107°C)
ng Manufacturer	Ruland Manufacturing
Weight (lbs)	0.131000
Tariff Code	8483.60.8000
are at maximum misalignment.	
atings are for guidance only. The user	must determine suitability for a particular application.
ypical conditions the hubs are capable e cases, especially when the smallest	ysical limitations/failure point of the machined beams. of holding up to the rated torque of the machined standard bores are used or where shafts are ne rated torque of the machined beams. Please consult
use cancer and birth defects or other r	emical Ethylene Thiourea, known to the State of reproductive harm. For more information go to
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Ruland Manufacturing Co., Inc.

- Align the bores of the MWC30-10-8-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 M4 screw on one hub to the recommended seating torque of 4.6 Nm using a 3.0 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 18.2 mm.