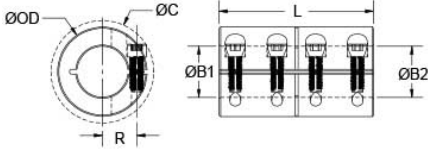




## MCLX-8-8-A

Ruland MCLX-8-8-A, 8mm x 8mm Rigid Coupling, Aluminum, One-Piece Clamp Style, 24mm OD, 35mm Length




### Description

Ruland MCLX-8-8-A is a one-piece rigid coupling with 8mm x 8mm bores, 24mm OD, and 35mm length. It has precision honed bores to ensure they are collinear and do not introduce misalignment or vibration into the system making it suitable for high precision servo applications as well as shaft to shaft connections. Proprietary Nypatch® anti-vibration coating on hardware allows for even seating of the screw, repeated screw installations, prevents galling, and maintains high holding power. It eliminates the need to treat screws upon receipt greatly reducing installation time. Forged screws test beyond DIN 912 12.9 standards to ensure maximum holding power. Tightly controlled bore tolerance of  $\pm 0.050\text{mm}/\pm 0.012\text{mm}$  is maintained. MCLX-8-8-A is made from high grade 2024 aluminum for lightweight and increased screw seating torque. It is machined from solid bar stock that is sourced exclusively from North American mills and is RoHS3 and REACH compliant. MCLX-8-8-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

### Product Specifications

<b>Bore (B1)</b>	8 mm	<b>Small Bore (B2)</b>	8 mm
<b>B1 Max Shaft Penetration</b>	17.5 mm	<b>B2 Max Shaft Penetration</b>	17.5 mm
<b>Outer Diameter (OD)</b>	24 mm	<b>Bore Tolerance</b>	$\pm 0.050\text{ mm} / \pm 0.012\text{ mm}$
<b>Length (L)</b>	35 mm	<b>Clearance Diameter (C) MAX</b>	27.1 mm
<b>Recommended Shaft Tolerance</b>	$\pm 0.000\text{ mm} / -0.013\text{ mm}$	<b>Forged Clamp Screw</b>	M3
<b>Screw Material</b>	Alloy Steel with <a href="#">Nypatch®</a>	<b>Hex Wrench Size</b>	2.5 mm
<b>Screw Finish</b>	Black Oxide	<b>Seating Torque</b>	2.1 Nm
<b>Screw Location (R)</b>	9.0 mm	<b>Number of Screws</b>	4 ea
<b>Rated Torque</b>	45 Nm	<b>Moment of Inertia</b>	$3.161 \times 10^{-6}\text{ kg}\cdot\text{m}^2$
<b>Maximum Speed</b>	4,000 RPM	<b>Full Bearing Support Required?</b>	No
<b>Nypatch® Anti-Vibration Hardware?</b>	Yes	<b>Precision Honed Bores?</b>	Yes
<b>Zero-Backlash?</b>	Yes	<b>Material Specification</b>	2024-T351 Aluminum Bar
<b>Temperature</b>	$-40^{\circ}\text{F}$ to $225^{\circ}\text{F}$ ( $-40^{\circ}\text{C}$ to $107^{\circ}\text{C}$ )	<b>Finish Specification</b>	Bright, No Plating
<b>Manufacturer</b>	Ruland Manufacturing	<b>Country of Origin</b>	USA
<b>Weight (lbs)</b>	0.085900	<b>UPC</b>	634529014714
<b>Tariff Code</b>	8483.60.8000	<b>UNSPC</b>	31163009

**Note 1** Performance ratings are for guidance only. The user must determine suitability for a particular application.

**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 [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### Installation Instructions

1. Align the MCLX-8-8-A one-piece rigid coupling on the two shafts to be connected. There should be no misalignment.
2. Tighten the Nypatch® screws in two stages, starting with the inside screws. Using a 2.5 mm torque wrench, tighten the inside screws to 1.05 Nm which is half the recommended seating torque. Repeat for the outside screws, again tightening to half of the recommended seating torque.
3. Tighten the screws to the full recommended seating torque of 2.1 Nm following the same pattern, starting with the inside screws first.