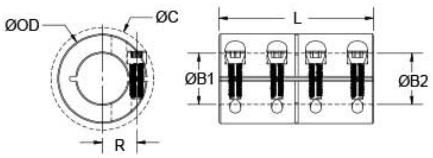
MCLX-6-6-A

Ruland MCLX-6-6-A, 6mm x 6mm Rigid Coupling, Aluminum, One-Piece Clamp Style, 18mm OD, 30mm Length





Description

Ruland MCLX-6-6-A is a one-piece rigid coupling with 6mm x 6mm bores, 18mm OD, and 30mm 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 appliactions 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 +.050mm/+.012mm is maintained. MCLX-6-6-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-6-6-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	6 mm	**Small Bore (B2)**	6 mm
B1 Max Shaft Penetration	15.0 mm	**B2 Max Shaft Penetration**	15.0 mm
Outer Diameter (OD)	18 mm	**Bore Tolerance**	+0.050 mm / +0.012 mm
Length (L)	30 mm	**Clearance Diameter (C) MAX**	21.5 mm
Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	**Forged Clamp Screw**	M3
Screw Material	Alloy Steel with Nypatch®	**Hex Wrench Size**	2.5 mm
Screw Finish	Black Oxide	**Seating Torque**	2.1 Nm
Screw Location (R)	5.9 mm	**Number of Screws**	4 ea
Rated Torque	30 Nm	**Moment of Inertia**	8.823 x 10^{-7} kg-m^2
Maximum Speed	4,000 RPM	**Full Bearing Support Required?**	No
Nypatch® Anti-Vibration Hardware?	Yes	**Precision Honed Bores?**	Yes
Zero-Backlash?	Yes	**Material Specification**	2024-T351 Aluminum Bar
Temperature	-40°F to 225°F (-40°C to 107°C)	**Finish Specification**	Bright, No Plating
Manufacturer	Ruland Manufacturing	**Country of Origin**	USA
Weight (lbs)	0.042500	**UPC**	634529014561
Tariff Code	8483.60.8000	**UNSPC**	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.		

Installation Instructions

1. Align the MCLX-6-6-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.

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Ruland Manufacturing:

MRSC13-5-5-A ENSP20-10MM-A MSPC-16-16-F MOCT19-5-A MJC57-25-A MSP-22-F MSPX-8-8-F MTCL-12-1.75-F MOCT57-25-A FHD-MCL-30-SS MRSC25-5-5-A FHD-MCL-25-F MSP-6-SS MSPX-12-12-F MWC30-10-10-SS OCT12-4-A OD36/57-AT OF-MSP-20-F ENSP30-12MM-A FSMR32-13-12-A MSP-12-P LV-MSP-25-SS MJS33-12-A MRLC16-8-8-A MSPX-16-16-F ENCL20-6MM-A FHD-MCL-35-AN MCL-4-F MJS25-8-A MQCL-8-A