



MCLX-15-15-F


Ruland MCLX-15-15-F, 15mm x 15mm Rigid Coupling, Black Oxide Steel, One-Piece Clamp Style, 34mm OD, 50mm Length



Description

Ruland MCLX-15-15-F is a one-piece rigid coupling with 15mm x 15mm bores, 34mm OD, and 50mm 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 +.050mm/+0.012mm is maintained. MCLX-15-15-F is made from 1215 lead-free steel with a proprietary black oxide finish that produces a fine glossy finish while increasing holding power and resisting corrosion. It is machined from solid bar stock that is sourced exclusively from North American mills and is RoHS3 and REACH compliant. MCLX-15-15-F is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	15 mm	Small Bore (B2)	15 mm
B1 Max Shaft Penetration	25.0 mm	B2 Max Shaft Penetration	25.0 mm
Outer Diameter (OD)	34 mm	Bore Tolerance	+0.050 mm / +0.012 mm
Length (L)	50 mm	Clearance Diameter (C) MAX	39.4 mm
Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M5
Screw Material	Alloy Steel with Nypatch®	Hex Wrench Size	4.0 mm
Screw Finish	Black Oxide	Seating Torque	9.5 Nm
Screw Location (R)	12.0 mm	Number of Screws	4 ea
Rated Torque	200 Nm	Moment of Inertia	4.630 x 10 ⁻⁵ 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	1215 Carbon Steel Bar
Temperature	-40°F to 350°F (-40°C to 176°C)	Finish Specification	Hot Process Black Oxide, Impregnated with Naphthenic Oil, Centrifugally Dried
Manufacturer	Ruland Manufacturing	Country of Origin	USA
Weight (lbs)	0.589600	UPC	634529013854
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-15-15-F 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 4.0 mm torque wrench, tighten the inside screws to 4.75 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 9.5 Nm following the same pattern, starting with the inside screws first.

