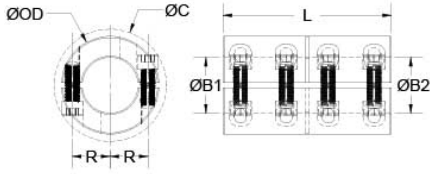




MSPX-15-14-F


Ruland MSPX-15-14-F, 15mm x 14mm Rigid Coupling, Black Oxide Steel, Two-Piece Clamp Style, 34mm OD, 50mm Length



Description

Ruland MSPX-15-14-F is a two-piece rigid coupling with 15mm x 14mm 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. MSPX-15-14-F has opposing hardware for a balanced design. 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 $+0.050\text{mm}/+0.012\text{mm}$ is maintained. MSPX-15-14-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. MSPX-15-14-F is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	15 mm	Small Bore (B2)	14 mm
B1 Max Shaft Penetration	25.0 mm	B2 Max Shaft Penetration	25.0 mm
Outer Diameter (OD)	34 mm	Bore Tolerance	$+0.050\text{ mm} / +0.012\text{ mm}$
Length (L)	50 mm	Recommended Gap	1.60 mm
Recommended Shaft Tolerance	$+0.000\text{ mm} / -0.013\text{ mm}$	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
Number of Screws	8 ea	Rated Torque	200 Nm
Moment of Inertia	$4.476 \times 10^{-5}\text{ kg}\cdot\text{m}^2$	Maximum Speed	4,000 RPM
Full Bearing Support Required?	No	Nypatch® Anti-Vibration Hardware?	Yes
Zero-Backlash?	Yes	Balanced Design	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)	0.575500
UPC	634529017852	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 MSPX-15-14-F two-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 the process for the outside screws, tightening to half the recommended seating torque.
3. Be sure to maintain the gap of 1.60 mm between the two halves during installation.
4. Tighten the screws to the full recommended seating torque of 9.5 Nm following the same pattern,

- starting with the inside screws first.
5. For optimum results do not exceed the shaft penetration length of 25.0 mm.
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