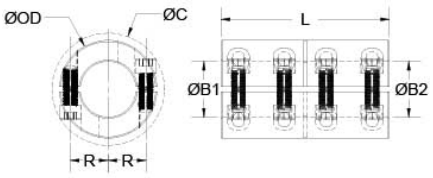
MSPX-14-14-SS

Ruland MSPX-14-14-SS, 14mm x 14mm Rigid Coupling, 303 Stainless Steel, Two-Piece Clamp Style, 34mm OD, 50mm Length





Description

Ruland MSPX-14-14-SS is a two-piece rigid coupling with 14mm 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 appliactions as well as shaft to shaft connections. MSPX-14-14-SS 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 +.050mm/+.012mm is maintained. MSPX-14-14-SS is made from 303 stainless steel with hardware of like material for consistent corrosion resistance. It is machined from solid bar stock that is sourced exclusively from North American mills and is RoHS3 and REACH compliant. MSPX-14-14-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	14 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 mm / +0.012 mm
Length (L)	50 mm	**Clearance Diameter (C) MAX**	39.4 mm
Recommended Gap	1.60 mm	**Recommended Shaft Tolerance**	+0.000 mm / -0.013 mm
Forged Clamp Screw	M5	**Screw Material**	18-8 300 Series Stainless Steel with Nypatch®
Hex Wrench Size	4.0 mm	**Screw Finish**	Bright
Seating Torque	5.4 Nm	**Screw Location (R)**	12.0 mm
Number of Screws	8 ea	**Rated Torque**	60 Nm
Moment of Inertia	4.521 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
Balanced Design	Yes	**Material Specification**	Type 303 Austenitic, Non-Magnetic Bar
Temperature	-40°F to 350°F (-40°C to 176°C)	**Finish Specification**	Bright, No Plating
Manufacturer	Ruland Manufacturing	**Country of Origin**	USA
Weight (lbs)	0.600400	**UPC**	634529017845
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 Nickel (metallic), known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.		

Installation Instructions

1. Align the MSPX-14-14-SS 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 2.7 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 5.4 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.