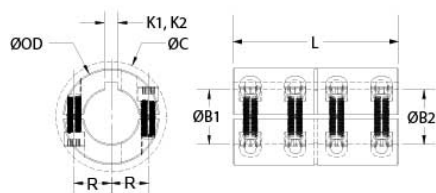




MSPC-40-40-SS

Ruland MSPC-40-40-SS, 40mm x 40mm Rigid Coupling, 303 Stainless Steel, Two-Piece Clamp Style With Keyway, 77mm OD, 108mm Length



Description

Ruland MSPC-40-40-SS is a two-piece rigid coupling with 40mm x 40mm bores, 77mm OD, 108mm length, and 12mm x 12mm keyways. 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. MSPC-40-40-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 $+0.050\text{mm}/+0.012\text{mm}$ is maintained. MSPC-40-40-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. MSPC-40-40-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	40 mm	Small Bore (B2)	40 mm
Keyway (K1)	12 mm	Keyway (K2)	12 mm
B1 Max Shaft Penetration	54.0 mm	B2 Max Shaft Penetration	54.0 mm
Outer Diameter (OD)	77 mm	Bore Tolerance	$+0.050\text{ mm} / +0.012\text{ mm}$
Length (L)	108 mm	Clearance Diameter (C) MAX	84.0 mm
Recommended Gap	2.38 mm	Recommended Shaft Tolerance	$+0.000\text{ mm} / -0.013\text{ mm}$
Forged Clamp Screw	M8	Screw Material	18-8 300 Series Stainless Steel with Nypatch®
Hex Wrench Size	6.0 mm	Screw Finish	Bright
Seating Torque	23 Nm	Screw Location (R)	31.8 mm
Number of Screws	8 ea	Rated Torque	400 Nm
Moment of Inertia	$2.558 \times 10^{-3}\text{ kg}\cdot\text{m}^2$	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)	5.967900	UPC	634529017265
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 MSPC-40-40-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 6.0 mm torque wrench, tighten the inside screws to 11.5 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 2.38 mm between the two halves during installation.
 4. Tighten the screws to the full recommended seating torque of 23 Nm following the same pattern, starting with the inside screws first.
 5. For optimum results do not exceed the shaft penetration length of 54.0 mm.
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