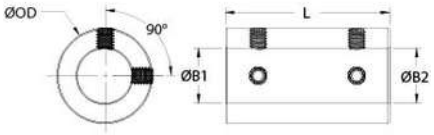
MSCX-50-50-SS

Ruland MSCX-50-50-SS, 50mm x 50mm Rigid Coupling, 303 Stainless Steel, Set Screw Style, 85mm OD, 124mm Length









Description

Ruland MSCX-50-50-SS is a set screw rigid coupling with 50mm x 50mm bores, 85mm OD, and 124mm 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. Forged screws test beyond DIN 912 12.9 standards to ensure maximum holding power. Tightly controlled bore tolerance of +.050mm/+.012mm is maintained. MSCX-50-50-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. MSCX-50-50-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	50 mm	**Small Bore (B2)**	50 mm
B1 Max Shaft Penetration	62.0 mm	**B2 Max Shaft Penetration**	62.0 mm
Outer Diameter (OD)	85 mm	**Bore Tolerance**	+0.050 mm / +0.012 mm
Length (L)	124 mm	**Recommended Shaft Tolerance**	+0.000 mm / -0.013 mm
Forged Set Screw	M10	**Screw Material**	18-8 300 Series Stainless Steel
Hex Wrench Size	5.0 mm	**Screw Finish**	Bright
Seating Torque	26.4 Nm	**Number of Screws**	4 ea
Rated Torque	Rating Coming Soon	**Moment of Inertia**	4.462 x 10^{-3} kg-m^2
Maximum Speed	4,000 RPM	**Full Bearing Support Required?**	No
Precision Honed Bores?	Yes	**Zero-Backlash?**	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)**	8.089900
UPC	634529117002	**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 MSCX-50-50-SS set screw rigid coupling on the two shafts to be connected. There should be no misalignment.
2. Tighten the set screws in two stages, starting with the inside set screws. Using a 5.0 mm torque wrench, tighten the inside set screws to 13.2 Nm which is half the recommended seating torque. Repeat for the outside set screws, again tightening to half of the recommended seating torque.
3. Tighten the screws to the full recommended seating torque of 26.4 Nm following the same pattern, starting with the inside set screws first.