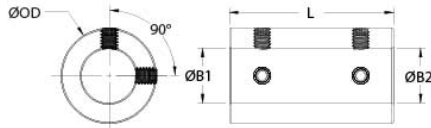




MSCX-20-20-SS

Ruland MSCX-20-20-SS, 20mm x 20mm Rigid Coupling, 303 Stainless Steel, Set Screw Style, 42mm OD, 65mm Length



Description

Ruland MSCX-20-20-SS is a set screw rigid coupling with 20mm x 20mm bores, 42mm OD, and 65mm 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. Forged screws test beyond DIN 912 12.9 standards to ensure maximum holding power. Tightly controlled bore tolerance of $\pm 0.050\text{mm}/\pm 0.012\text{mm}$ is maintained. MSCX-20-20-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-20-20-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	20 mm	Small Bore (B2)	20 mm
B1 Max Shaft Penetration	32.5 mm	B2 Max Shaft Penetration	32.5 mm
Outer Diameter (OD)	42 mm	Bore Tolerance	$\pm 0.050\text{ mm} / \pm 0.012\text{ mm}$
Length (L)	65 mm	Recommended Shaft Tolerance	$\pm 0.000\text{ mm} / -0.013\text{ mm}$
Forged Set Screw	M6	Screw Material	18-8 300 Series Stainless Steel
Hex Wrench Size	3.0 mm	Screw Finish	Bright
Seating Torque	5.76 Nm	Number of Screws	4 ea
Rated Torque	Rating Coming Soon	Moment of Inertia	$1.499 \times 10^{-4}\text{ kg-m}^2$
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)	1.221900
UPC	634529076811	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-20-20-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 3.0 mm torque wrench, tighten the inside set screws to 2.88 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 5.76 Nm following the same pattern, starting with the inside set screws first.