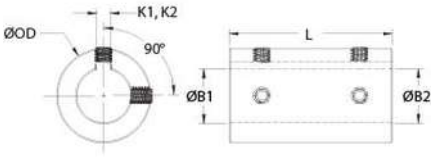
MSCC-12-12-SS

Ruland MSCC-12-12-SS, 12mm x 12mm Rigid Coupling, 303 Stainless Steel, Set Screw Style with Keyway, 29mm OD, 45mm Length







Description

Ruland MSCC-12-12-SS is a set screw rigid coupling with 12mm x 12mm bores, 29mm OD, 45mm length, and 4mm x 4mm 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 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. MSCC-12-12-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. MSCC-12-12-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	12 mm	**Small Bore (B2)**	12 mm
Keyway (K1)	4 mm	**Keyway (K2)**	4 mm
B1 Max Shaft Penetration	22.5 mm	**B2 Max Shaft Penetration**	22.5 mm
Bore Tolerance	+0.050 mm / +0.012 mm	**Outer Diameter (OD)**	29 mm
Length (L)	45 mm	**Recommended Shaft Tolerance**	+0.000 mm / -0.013 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**	2.387 x 10^{-5} 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)**	0.424100
UPC	634529076866	**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 MSCC-12-12-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.