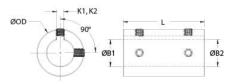




MSCC-40-40-F

Ruland MSCC-40-40-F, 40mm x 40mm Rigid Coupling, Black Oxide Steel, Set Screw Style with Keyway, 77mm OD, 108mm Length





Description

Ruland MSCC-40-40-F is a set screw 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 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-40-40-F is made from 1215 lead-free steel with a proprietary black oxide finish that produces a fine glossy finish while increasing holding power and resisting corrosion. It is machined from solid bar stock that is sourced exclusively from North American mills and is RoHS3 and REACH compliant. MSCC-40-40-F is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

40 mm	Small Bore (B2)	40 mm
12 mm	Keyway (K2)	12 mm
54.0 mm	B2 Max Shaft Penetration	54.0 mm
+0.050 mm / +0.012 mm	Outer Diameter (OD)	77 mm
108 mm	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm
M10	Screw Material	Alloy Steel
5.0 mm	Screw Finish	Black Oxide
33 Nm	Number of Screws	4 ea
Rating Coming Soon	Moment of Inertia	2.670 x 10 ⁻³ kg-m ²
4,000 RPM	Full Bearing Support Required?	No
Yes	Zero-Backlash?	Yes
1215 Carbon Steel Bar	Temperature	-40°F to 350°F (-40°C to 176°C
Hot Process Black Oxide, Impregnated with Naphthenic Oil, Centrifugally Dried	Manufacturer	Ruland Manufacturing
USA	Weight (Ibs)	6.198800
634529107898	Tariff Code	8483.60.8000
31163009		
Performance ratings are for guidance only. The user must determine suitability for a particular application		
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	12 mm 54.0 mm +0.050 mm / +0.012 mm 108 mm M10 5.0 mm 33 Nm Rating Coming Soon 4,000 RPM Yes 1215 Carbon Steel Bar Hot Process Black Oxide, Impregnated with Naphthenic Oil, Centrifugally Dried USA 634529107898 31163009 Performance ratings are for guidan ▲WARNING This product can exp California to cause cancer and birth	12 mmKeyway (K2)12 mmB2 Max Shaft Penetration+0.050 mm / +0.012 mmOuter Diameter (OD)108 mmRecommended Shaft ToleranceM10Screw Material5.0 mmScrew Finish33 NmNumber of ScrewsRating Coming SoonMoment of Inertia4,000 RPMFull Bearing Support Required?YesZero-Backlash?1215 Carbon Steel BarTemperatureHot Process Black Oxide, Impregnated with Naphthenic Oil, Centrifugally DriedManufacturerUSAWeight (lbs)634529107898Tariff Code31163009Performance ratings are for guidance only. The user must determine suMARNING This product can expose you to the chemical Ethylene Th California to cause cancer and birth defects or other reproductive harm.

1. Align the MSCC-40-40-F set screw rigid coupling on the two shafts to be connected. There should be no misalignment.

- 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 16.5 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 33 Nm following the same pattern, starting with the inside set screws first.