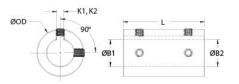




MSCC-40-40-SS

Ruland MSCC-40-40-SS, 40mm x 40mm Rigid Coupling, 303 Stainless Steel, Set Screw Style with Keyway, 77mm OD, 108mm Length





Description

Ruland MSCC-40-40-SS 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-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-40-40-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

| Hex Wrench Size5.0 mmScrew FinishBrightSeating Torque26.4 NmNumber of Screws4 eaRated TorqueRating Coming SoonMoment of Inertia2.739 x 10 ⁻³ kg-m ² Maximum Speed4,000 RPMFull Bearing Support Required?NoPrecision Honed Bores?YesZero-Backlash?YesMaterial SpecificationType 303 Austenitic, Non-Magnetic BarTemperature-40°F to 350°F (-40°C to 176°CFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)6.358200UPC634529107904Tariff Code8483.60.8000UNSPC31163009Sate for guidance only. The user must determine suitability for a particular application | r rouder opeeniedtions | | | |
|---|--------------------------|--|--------------------------------|--|
| B1 Max Shaft Penetration54.0 mmB2 Max Shaft Penetration54.0 mmBore Tolerance+0.050 mm / +0.012 mmOuter Diameter (OD)77 mmLength (L)108 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmForged Set ScrewM10Screw Material18-8 300 Series Stainless SteeHex Wrench Size5.0 mmScrew FinishBrightSeating Torque26.4 NmNumber of Screws4 eaRated TorqueRating Coming SoonMoment of Inertia2.739 x 10 ⁻³ kg-m ² Maximum Speed4,000 RPMFull Bearing Support Required?NoPrecision Honed Bores?YesZero-Backlash?YesMaterial SpecificationType 303 Austenitic, Non-Magnetic BarTemperature Temperature-40°F to 350°F (-40°C to 176°C 6.358200UPC634529107904Tariff Code8483.60.8000UNSPCUNSPC31163009Note 1Performance ratings are for guidance only. The user must determine suitability for a particular application Prop 65Marving This product can expose you to the chemical Nickel (metallic), known to the State of Calif | Bore (B1) | 40 mm | Small Bore (B2) | 40 mm |
| Bore Tolerance+0.050 mm / +0.012 mmOuter Diameter (OD)77 mmLength (L)108 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmForged Set ScrewM10Screw Material18-8 300 Series Stainless SteeHex Wrench Size5.0 mmScrew FinishBrightSeating Torque26.4 NmNumber of Screws4 eaRated TorqueRating Coming SoonMoment of Inertia2.739 x 10°3 kg-m²Maximum Speed4,000 RPMFull Bearing Support Required?NoPrecision Honed Bores?YesZero-Backlash?YesMaterial SpecificationType 303 Austenitic, Non-Magnetic BarTemperature-40°F to 350°F (-40°C to 176°CFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)6.358200UPC634529107904Tariff Code8483.60.8000UNSPC31163009Note 1Performance ratings are for guidance only. The user must determine suitability for a particular applicatioProp 65MARNING This product can expose you to the chemical Nickel (metallic), known to the State of Calif | Keyway (K1) | 12 mm | Keyway (K2) | 12 mm |
| Length (L)108 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmForged Set ScrewM10Screw Material18-8 300 Series Stainless SteeHex Wrench Size5.0 mmScrew FinishBrightSeating Torque26.4 NmNumber of Screws4 eaRated TorqueRating Coming SoonMoment of Inertia2.739 x 10 ⁻³ kg-m ² Maximum Speed4,000 RPMFull Bearing Support Required?NoPrecision Honed Bores?YesZero-Backlash?YesMaterial SpecificationType 303 Austenitic, Non-Magnetic BarTemperature-40°F to 350°F (-40°C to 176°C BarFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)6.358200UPC3116300931163009Note 1Performance ratings are for guidance only. The user must determine suitability for a particular application Prop 65Marcal can expose you to the chemical Nickel (metallic), known to the State of Calif | B1 Max Shaft Penetration | 54.0 mm | B2 Max Shaft Penetration | 54.0 mm |
| Forged Set ScrewM10Screw Material18-8 300 Series Stainless SteeHex Wrench Size5.0 mmScrew FinishBrightSeating Torque26.4 NmNumber of Screws4 eaRated TorqueRating Coming SoonMoment of Inertia2.739 x 10 ⁻³ kg-m ² Maximum Speed4,000 RPMFull Bearing Support Required?NoPrecision Honed Bores?YesZero-Backlash?YesMaterial SpecificationType 303 Austenitic, Non-Magnetic BarTemperature -40°F to 350°F (-40°C to 176°C BarFinish SpecificationBright, No PlatingManufacturerRuland Manufacturing 6.358200UPC634529107904Tariff Code8483.60.8000UNSPC31163009Jif SongJif SongNote 1Performance ratings are for guidance only. The user must determine suitability for a particular applicationProp 65MARNING This product can expose you to the chemical Nickel (metallic), known to the State of Calif | Bore Tolerance | +0.050 mm / +0.012 mm | Outer Diameter (OD) | 77 mm |
| Hex Wrench Size5.0 mmScrew FinishBrightSeating Torque26.4 NmNumber of Screws4 eaRated TorqueRating Coming SoonMoment of Inertia2.739 x 10 ⁻³ kg-m ² Maximum Speed4,000 RPMFull Bearing Support Required?NoPrecision Honed Bores?YesZero-Backlash?YesMaterial SpecificationType 303 Austenitic, Non-Magnetic BarTemperature-40°F to 350°F (-40°C to 176°CFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)6.358200UPC634529107904Tariff Code8483.60.8000UNSPC31163009Note 1Performance ratings are for guidance only. The user must determine suitability for a particular applicationProp 65▲WARNING This product can expose you to the chemical Nickel (metallic), known to the State of Calif | Length (L) | 108 mm | Recommended Shaft Tolerance | +0.000 mm / -0.013 mm |
| Seating Torque26.4 NmNumber of Screws4 eaRated TorqueRating Coming SoonMoment of Inertia2.739 x 10°3 kg-m²Maximum Speed4,000 RPMFull Bearing Support Required?NoPrecision Honed Bores?YesZero-Backlash?YesMaterial SpecificationType 303 Austenitic, Non-Magnetic BarTemperature-40°F to 350°F (-40°C to 176°CFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)6.358200UPC634529107904Tariff Code8483.60.8000UNSPC31163009Note 1Performance ratings are for guidance only. The user must determine suitability for a particular applicationProp 65MARNING This product can expose you to the chemical Nickel (metallic), known to the State of Califf | Forged Set Screw | M10 | Screw Material | 18-8 300 Series Stainless Steel |
| Rated TorqueRating Coming SoonMoment of Inertia2.739 x 10 ⁻³ kg-m²Maximum Speed4,000 RPMFull Bearing Support Required?NoPrecision Honed Bores?YesZero-Backlash?YesMaterial SpecificationType 303 Austenitic, Non-Magnetic BarTemperature Temperature-40°F to 350°F (-40°C to 176°C 0.50°F (-40°C to 176°CFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)6.358200UPC634529107904Tariff Code8483.60.8000UNSPC31163009Note 1Performance ratings are for guidance only. The user must determine suitability for a particular applicationProp 65MARNING This product can expose you to the chemical Nickel (metallic), known to the State of Calif | Hex Wrench Size | 5.0 mm | Screw Finish | Bright |
| Maximum Speed4,000 RPMFull Bearing Support Required?NoPrecision Honed Bores?YesZero-Backlash?YesMaterial SpecificationType 303 Austenitic, Non-Magnetic BarTemperature-40°F to 350°F (-40°C to 176°C BarFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)6.358200UPC634529107904Tariff Code8483.60.8000UNSPC31163009Performance ratings are for guidance only. The user must determine suitability for a particular applicationProp 65MARNING This product can expose you to the chemical Nickel (metallic), known to the State of Calif | Seating Torque | 26.4 Nm | Number of Screws | 4 ea |
| Precision Honed Bores?YesZero-Backlash?YesMaterial SpecificationType 303 Austenitic, Non-Magnetic BarTemperature-40°F to 350°F (-40°C to 176°CFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)6.358200UPC634529107904Tariff Code8483.60.8000UNSPC31163009Since and the subscript of a particular applicationNote 1Performance ratings are for guidance only. The user must determine suitability for a particular applicationProp 65MWARNING This product can expose you to the chemical Nickel (metallic), known to the State of Califf | Rated Torque | Rating Coming Soon | Moment of Inertia | 2.739 x 10 ⁻³ kg-m ² |
| Material Specification Type 303 Austenitic, Non-Magnetic Bar -40°F to 350°F (-40°C to 176°C Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 6.358200 UPC 634529107904 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 Califf | Maximum Speed | 4,000 RPM | Full Bearing Support Required? | No |
| Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 6.358200 UPC 634529107904 Tariff Code 8483.60.8000 UNSPC 31163009 State of guidance only. The user must determine suitability for a particular application Prop 65 MARNING This product can expose you to the chemical Nickel (metallic), known to the State of Calif | Precision Honed Bores? | Yes | Zero-Backlash? | Yes |
| Country of OriginUSAWeight (lbs)6.358200UPC634529107904Tariff Code8483.60.8000UNSPC31163009Note 1Performance ratings are for guidance only. The user must determine suitability for a particular applicationProp 65AWARNING This product can expose you to the chemical Nickel (metallic), known to the State of Califf | Material Specification | | Temperature | -40°F to 350°F (-40°C to 176°C) |
| UPC 634529107904 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 AWARNING This product can expose you to the chemical Nickel (metallic), known to the State of Californian Content of Californ | Finish Specification | Bright, No Plating | Manufacturer | Ruland Manufacturing |
| 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 Calif | Country of Origin | USA | Weight (Ibs) | 6.358200 |
| Note 1Performance ratings are for guidance only. The user must determine suitability for a particular applicationProp 65MWARNING This product can expose you to the chemical Nickel (metallic), known to the State of Calif | UPC | 634529107904 | Tariff Code | 8483.60.8000 |
| Prop 65 | 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 <u>www.P65Warnings.ca.gov</u> . | | |

Installation Instructions

- 1. Align the MSCC-40-40-SS 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 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.