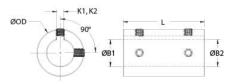




MSCC-35-35-SS

Ruland MSCC-35-35-SS, 35mm x 35mm Rigid Coupling, 303 Stainless Steel, Set Screw Style with Keyway, 67mm OD, 95mm Length





Description

Ruland MSCC-35-35-SS is a set screw rigid coupling with 35mm x 35mm bores, 67mm OD, 95mm length, and 10mm x 10mm 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-35-35-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-35-35-SS is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Hex Wrench Size4.0 mmScrew FinishBrightSeating Torque13.6 NmNumber of Screws4 eaRated TorqueRating Coming SoonMoment of Inertia1.378 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 1° BarFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)4.222100UPC634529107874Tariff Code8483.60.8000UNSPC31163009Performance ratings are for guidance only. The user must determine suitability for a particular applice	r roudet opeenieations			
B1 Max Shaft Penetration47.5 mmB2 Max Shaft Penetration47.5 mmBore Tolerance+0.050 mm / +0.012 mmOuter Diameter (OD)67 mmLength (L)95 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmForged Set ScrewM8Screw Material18-8 300 Series StainlessHex Wrench Size4.0 mmScrew FinishBrightSeating Torque13.6 NmNumber of Screws4 eaRated TorqueRating Coming SoonMoment of Inertia1.378 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 1 BarFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingUPC634529107874Tariff Code8483.60.8000UNSPC31163009Performance ratings are for guidance only. The user must determine suitability for a particular applic	Bore (B1)	35 mm	Small Bore (B2)	35 mm
Bore Tolerance+0.050 mm / +0.012 mmOuter Diameter (OD)67 mmLength (L)95 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmForged Set ScrewM8Screw Material18-8 300 Series StainlessHex Wrench Size4.0 mmScrew FinishBrightSeating Torque13.6 NmNumber of Screws4 eaRated TorqueRating Coming SoonMoment of Inertia1.378 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 1 SarFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)4.222100UPC634529107874Tariff Code8483.60.8000UNSPC31163009Performance ratings are for guidance only. The user must determine suitability for a particular applicit	Keyway (K1)	10 mm	Keyway (K2)	10 mm
Length (L)95 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmForged Set ScrewM8Screw Material18-8 300 Series StainlessHex Wrench Size4.0 mmScrew FinishBrightSeating Torque13.6 NmNumber of Screws4 eaRated TorqueRating Coming SoonMoment of Inertia1.378 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 1 BarFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)4.222100UPC634529107874Tariff Code8483.60.8000UNSPC31163009Performance ratings are for guidance only. The user must determine suitability for a particular applicition	B1 Max Shaft Penetration	47.5 mm	B2 Max Shaft Penetration	47.5 mm
Forged Set ScrewM8Screw Material18-8 300 Series StainlessHex Wrench Size4.0 mmScrew FinishBrightSeating Torque13.6 NmNumber of Screws4 eaRated TorqueRating Coming SoonMoment of Inertia1.378 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 1° BarFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)4.222100UPC634529107874Tariff Code8483.60.8000UNSPC31163009Note 1Performance ratings are for guidance only. The user must determine suitability for a particular applic	Bore Tolerance	+0.050 mm / +0.012 mm	Outer Diameter (OD)	67 mm
Hex Wrench Size4.0 mmScrew FinishBrightSeating Torque13.6 NmNumber of Screws4 eaRated TorqueRating Coming SoonMoment of Inertia1.378 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 1° BarFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)4.222100UPC634529107874Tariff Code8483.60.8000UNSPC31163009Performance ratings are for guidance only. The user must determine suitability for a particular applice	Length (L)	95 mm	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm
Seating Torque13.6 NmNumber of Screws4 eaRated TorqueRating Coming SoonMoment of Inertia1.378 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 Heat and Manufacturer-40°F to 350°F (-40°C to 11° BarFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)4.222100UPC634529107874Tariff Code8483.60.8000UNSPC31163009Austen for guidance only. The user must determine suitability for a particular application	Forged Set Screw	M8	Screw Material	18-8 300 Series Stainless Steel
Rated TorqueRating Coming SoonMoment of Inertia1.378 x 10 ⁻³ kg-m²Maximum Speed4,000 RPMFull Bearing Support Required?NoPrecision Honed Bores?YesZero-Backlash?YesMaterial SpecificationType 303 Austenitic, Non-Magnetic BarTemperature Manufacturer-40°F to 350°F (-40°C to 11° BarFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)4.222100UPC634529107874Tariff Code8483.60.8000UNSPC31163009Note 1Performance ratings are for guidance only. The user must determine suitability for a particular application	Hex Wrench Size	4.0 mm	Screw Finish	Bright
Maximum Speed4,000 RPMFull Bearing Support Required?NoPrecision Honed Bores?YesZero-Backlash?YesMaterial SpecificationType 303 Austenitic, Non-Magnetic BarTemperature emeration-40°F to 350°F (-40°C to 1° BarFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)4.222100UPC634529107874Tariff Code8483.60.8000UNSPC31163009Note 1Performance ratings are for guidance only. The user must determine suitability for a particular application	Seating Torque	13.6 Nm	Number of Screws	4 ea
Precision Honed Bores?YesZero-Backlash?YesMaterial SpecificationType 303 Austenitic, Non-Magnetic BarTemperature Temperature-40°F to 350°F (-40°C to 1 Country of OriginFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)4.222100UPC634529107874Tariff Code8483.60.8000UNSPC31163009Note 1Performance ratings are for guidance only. The user must determine suitability for a particular application	Rated Torque	Rating Coming Soon	Moment of Inertia	1.378 x 10 ⁻³ kg-m ²
Material SpecificationType 303 Austenitic, Non-Magnetic BarTemperature Temperature-40°F to 350°F (-40°C to 1° Country of CriginFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)4.222100UPC634529107874Tariff Code8483.60.8000UNSPC3116300931163009Note 1Performance ratings are for guidance only. The user must determine suitability for a particular application	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) 4.222100 UPC 634529107874 Tariff Code 8483.60.8000 UNSPC 31163009 Note 1 Performance ratings are for guidance only. The user must determine suitability for a particular applied	Precision Honed Bores?	Yes	Zero-Backlash?	Yes
Country of OriginUSAWeight (lbs)4.222100UPC634529107874Tariff Code8483.60.8000UNSPC31163009Note 1Performance ratings are for guidance only. The user must determine suitability for a particular applied	Material Specification		Temperature	-40°F to 350°F (-40°C to 176°C)
UPC 634529107874 Tariff Code 8483.60.8000 UNSPC 31163009 Note 1 Performance ratings are for guidance only. The user must determine suitability for a particular applied	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 applied	Country of Origin	USA	Weight (Ibs)	4.222100
Note 1 Performance ratings are for guidance only. The user must determine suitability for a particular applie	UPC	634529107874	Tariff Code	8483.60.8000
	UNSPC	31163009		
Prop 65	Note 1	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
to cause cancer. For more information go to <u>www.P65Warnings.ca.gov</u> .	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-35-35-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 4.0 mm torque wrench, tighten the inside set screws to 6.8 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 13.6 Nm following the same pattern, starting with the inside set screws first.