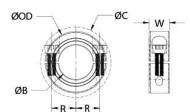




MSP-23-ST

Ruland MSP-23-ST, 23mm Two-Piece Shaft Collar, 316 Stainless Steel, Clamp Style, 45mm OD, 15mm Width





Description

Ruland MSP-23-ST is a two-piece shaft collar with a 23mm bore, 45mm OD, and 15mm width. The clamp style design does not mar the shaft, is easy to remove, and is indefinitely adjustable. It is commonly used for guiding, spacing, stopping, mounting, and component alignment. Equipment manufacturers benefit from the tightly controlled face to bore perpendicularity of Ruland shaft collars, TIR of ? 05mm. Perpendicularity is critical for alignment when the shaft collar is used as a load bearing face, mechanical stop, or for mounting components such as gears or bearings. Proprietary processes have been developed by Ruland to maintain superior fit, finish, and holding power. MSP-23-ST is stamped with the Ruland name and bore size for ease of identification. Halves are mated throughout the manufacturing process for proper fit and alignment. Forged screws test beyond DIN 912 12.9 standards to ensure maximum holding power. MSP-23-ST is manufactured from solid bar stock sourced from select North American mills and machined to a fine burr free finish. Ruland uses 316 stainless steel with hardware of like material for consistent corrosion resistance. Stainless steel hardware undergoes a proprietary surface treatment process to prevent galling. MSP-23-ST is RoHS3 and REACH compliant and manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Temperature -40°F to 350°F (-40°C to 1° Weight (Ibs) 0.286600 UPC 634529128909 Tariff Code 8483.60.8000 UNSPC 31162811 Note 1 Performance ratings are for guidance only. The user must determine suitability for a particular applied	r roduct opecifications			
Width (W)15 mmWidth Tolerance+0.076 mm / -0.254 mmRecommended Gap1.59 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmForged Clamp ScrewM6 x 16Screw Material316 Stainless SteelHex Wrench Size5.0 mmScrew FinishBrightSeating Torque9.6 NmScrew Location (R)17.50 mmNumber of Screws2 eaMaterial SpecificationType 316L Austenitic, Non Magnetic BarFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSATemperature-40°F to 350°F (-40°C to 1°Weight (Ibs)0.286600UPC634529128909Tariff Code8483.60.8000UNSPC31162811Note 1Performance ratings are for guidance only. The user must determine suitability for a particular applicProp 65★WARNING This product can expose you to the chemical Nickel (metallic), known to the State of	Bore (B)	23 mm	Bore Tolerance	+0.050 mm / +0.012 mm
Recommended Gap1.59 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmForged Clamp ScrewM6 x 16Screw Material316 Stainless SteelHex Wrench Size5.0 mmScrew FinishBrightSeating Torque9.6 NmScrew Location (R)17.50 mmNumber of Screws2 eaMaterial SpecificationType 316L Austenitic, Non Magnetic BarFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSATemperature-40°F to 350°F (-40°C to 1°Weight (lbs)0.286600UPC634529128909Tariff Code8483.60.8000UNSPC31162811Note 1Performance ratings are for guidance only. The user must determine suitability for a particular applicProp 65WARNING This product can expose you to the chemical Nickel (metallic), known to the State of	Outer Diameter (OD)	45 mm	Clearance Diameter (C) MAX	52.1 mm
Forged Clamp Screw M6 x 16 Screw Material 316 Stainless Steel Hex Wrench Size 5.0 mm Screw Finish Bright Seating Torque 9.6 Nm Screw Location (R) 17.50 mm Number of Screws 2 ea Material Specification Type 316L Austenitic, Non Magnetic Bar Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Temperature -40°F to 350°F (-40°C to 1° Weight (Ibs) 0.286600 UPC 634529128909 Tariff Code 8483.60.8000 UNSPC 31162811 Note 1 Performance ratings are for guidance only. The user must determine suitability for a particular applic	Width (W)	15 mm	Width Tolerance	+0.076 mm / -0.254 mm
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Number of Screws2 eaMaterial SpecificationType 316L Austenitic, Non Magnetic BarFinish SpecificationBright, No PlatingManufacturerRuland ManufacturingCountry of OriginUSATemperature-40°F to 350°F (-40°C to 1°Weight (lbs)0.286600UPC634529128909Tariff Code8483.60.8000UNSPC31162811Note 1Performance ratings are for guidance only. The user must determine suitability for a particular applicProp 65▲WARNING This product can expose you to the chemical Nickel (metallic), known to the State of	Hex Wrench Size	5.0 mm	Screw Finish	Bright
Finish Specification Bright, No Plating Manufacturer Ruland Manufacturing Country of Origin USA Temperature -40°F to 350°F (-40°C to 1') Weight (lbs) 0.286600 UPC 634529128909 Tariff Code 8483.60.8000 UNSPC 31162811 Note 1 Performance ratings are for guidance only. The user must determine suitability for a particular applied Prop 65 WARNING This product can expose you to the chemical Nickel (metallic), known to the State of	Seating Torque	9.6 Nm	Screw Location (R)	17.50 mm
Country of OriginUSATemperature-40°F to 350°F (-40°C to 1°C to	Number of Screws	2 ea	Material Specification	Type 316L Austenitic, Non- Magnetic Bar
Weight (lbs) 0.286600 UPC 634529128909 Tariff Code 8483.60.8000 UNSPC 31162811 Note 1 Performance ratings are for guidance only. The user must determine suitability for a particular applic Prop 65 ▲WARNING This product can expose you to the chemical Nickel (metallic), known to the State of	Finish Specification	Bright, No Plating	Manufacturer	Ruland Manufacturing
Tariff Code 8483.60.8000 UNSPC 31162811 Note 1 Performance ratings are for guidance only. The user must determine suitability for a particular applied Prop 65 ✓ WARNING This product can expose you to the chemical Nickel (metallic), known to the State of the chemical Nickel (metallic) is the chemical Nickel (metallic) in the state of the chemical Nickel (metallic) is the chemical Nickel (metallic) in the state of the chemical Nickel (metallic) is the chemical Nickel (metallic) in the state of the chemical Nickel (metallic) is the chemical Nickel (metallic) in the state of the chemical Nickel (metallic) is the chemical Nickel (metallic) in the state of the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nickel (metallic) is the chemical Nickel (metallic) in the chemical Nick	Country of Origin	USA	Temperature	-40°F to 350°F (-40°C to 176°C)
Note 1 Performance ratings are for guidance only. The user must determine suitability for a particular applic Prop 65 ▲WARNING This product can expose you to the chemical Nickel (metallic), known to the State of	Weight (lbs)	0.286600	UPC	634529128909
Prop 65	Tariff Code	8483.60.8000	UNSPC	31162811
	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. Use the MSP-23-ST two-piece shaft collar as it is received.
- 2. Wipe the bore clean.
- 3. Apply a thin coat of light oil to the shaft.
- 4. Place the collar onto the desired shaft location with the groove side as the work surface. Tighten the collar using a 5.0 mm hex wrench until a slight resistance is felt.
- 5. Be sure to maintain the gap of 1.59 mm between the two halves of the collar during installation.
- 6. Wring collar into its final position and tighten the screw to the full recommended seating torque of 9.6 Nm using a 5.0 mm torque wrench.