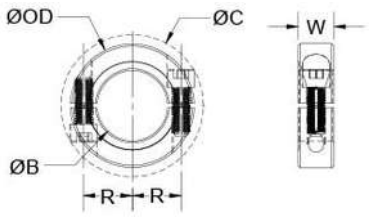
ENSP20-5MM-SS

Ruland ENSP20-5MM-SS, 5mm Thin Line Shaft Collar, 303 Stainless Steel, Two-Piece Clamp Style, 20mm OD, 5.5mm Width





Description

Ruland ENSP20-5MM-SS is a two-piece thin line shaft collar with a 5mm bore, 20mm OD, and 5.5mm width. The narrow profile reduces weight and allows for use in confined spaces. It has the clamp style benefits of not marring the shaft, easy removability, and indefinite adjustability while commonly being used for guiding, spacing, stopping, mounting, and component alignment. Equipment manufacturers benefit from the tightly controlled face to bore perpendicularity (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. ENSP20-5MM-SS is stamped with the Ruland name for ease of identification. Two-piece styles 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. ENSP20-5MM-SS is manufactured from solid bar stock sourced from select North American mills and machined to a fine burr free finish. Ruland uses 303 stainless steel with hardware of like material for consistent corrosion resistance. Stainless steel hardware undergoes a proprietary surface treatment process to prevent galling. ENSP20-5MM-SS is RoHS3 and REACH compliant and manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B)	5 mm	**Bore Tolerance**	+0.05 mm / +0.012 mm
Outer Diameter (OD)	20 mm	**Clearance Diameter (C) MAX**	21.50 mm
Width (W)	5.5 mm	**Width Tolerance**	+0.076 mm / -0.254 mm
Forged Clamp Screw	M2 x 6	**Screw Material**	18-8 300 Series Stainless Steel
Hex Wrench Size	1.5 mm	**Screw Finish**	Bright
Seating Torque	0.36 Nm	**Screw Location (R)**	7.75 mm
Number of Screws	2 ea	**Material Specification**	Type 303 Austenitic, Non-Magnetic Bar
Finish Specification	Bright	**Manufacturer**	Ruland Manufacturing
Country of Origin	USA	**Temperature**	-40°F to 350°F (-40°C to 176°C)
Weight (lbs.)	0.0255	**Recommended Shaft Tolerance**	+0.000 mm / -0.013 mm
Recommended Gap	1.19 mm	**UPC**	63452913889
Tariff Code	8483.60.8000		
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 ENSP20-5MM-SS thin line 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 and tighten it using a 1.5 mm hex wrench until a slight resistance is felt.
5. Be sure to maintain the gap 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 0.36 Nm using a 1.5 mm torque wrench.