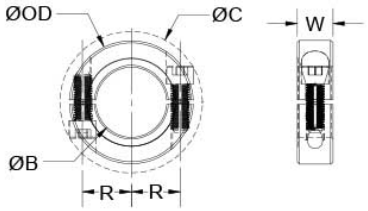
SPB-4-ST

Ruland SPB-4-ST, 1/4" Balanced Shaft Collar, 316 Stainless Steel, Two-Piece Clamp Style, 5/8" OD, 0.281" Width





Description

Ruland SPB-4-ST is a two-piece shaft collar with a 0.2500" bore, 5/8" OD, and 0.281" width. It has a balanced design with opposing screws for use in high RPM applications such as those found in motors and gearboxes. The clamp style design does not mar the shaft, is easy to remove, and is indefinitely adjustable. SPB-4-ST is commonly used for guiding, spacing, stopping, mounting, and component alignment. Equipment manufacturers benefit from the tightly controlled face to bore perpendicularity (TIR of ? .002"). 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. SPB-4-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 ANSI standards to ensure maximum holding power. SPB-4-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. SPB-4-ST is RoHS3 and REACH compliant and manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	0.2500 in	**Bore Tolerance**	+0.0020 in / +0.0005 in
Outer Diameter (OD)	5/8 in	**Clearance Diameter (C) MAX**	0.773 in
Width (W)	0.281 in	**Width Tolerance**	+0.003 in / -0.010 in
Recommended Gap	0.047 in	**Recommended Shaft Tolerance**	+0.0000 in / -0.0005 in
Forged Clamp Screw	#4-40	**Screw Material**	316 Stainless Steel
Hex Wrench Size	3/32 in	**Screw Finish**	Bright
Seating Torque	8 lb-in	**Screw Location (R)**	0.210 in
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 176°C)
Weight (lbs)	0.018200	**UPC**	634529215784
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 SPB-4-ST balanced 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 3/32 in hex wrench until a slight resistance is felt.
5. Be sure to maintain the gap of 0.047 in 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 8 lb-in using a 3/32 in torque wrench.