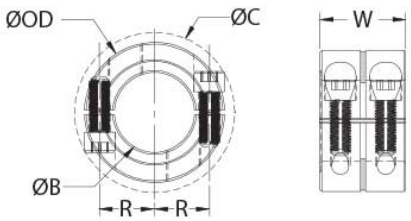
WSP-16-SS

Ruland WSP-16-SS, 1" Double Wide Shaft Collar, 303 Stainless Steel, Two-Piece Clamp Style, 1 3/4" OD, 1 1/16" Width





Description

Ruland WSP-16-SS is a two-piece double wide shaft collar with a 1.0000" bore, 1 3/4" OD, and 1 1/16" 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 (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. WSP-16-SS is stamped with the Ruland name and bore size for ease of identification. This double wide shaft collar has 25% higher axial holding power than a round bore of equivalent size. It can also be used as a short rigid coupling for applications where a traditional rigid coupling is too long. Forged screws test beyond DIN 912 12.9 standards to ensure maximum holding power. Halves are mated throughout the manufacturing process for proper fit and alignment. WSP-16-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. WSP-16-SS is RoHS3 and REACH compliant and manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	1.0000 in	**Small Bore (B2)**	1.0000 in
Outer Diameter (OD)	1 3/4 in	**Bore Tolerance**	+0.0020 in / +0.0005 in
Width (W)	1 1/16 in	**Width Tolerance**	+0.003 in / -0.010 in
Clearance Diameter (C) MAX	2.032 in	**Recommended Gap**	0.063 in
Recommended Shaft Tolerance	+0.0000 in / -0.0005 in	**Forged Clamp Screw**	1/4-28
Screw Material	18-8 300 Series Stainless Steel	**Hex Wrench Size**	3/16 in
Screw Finish	Bright	**Seating Torque**	110 lb-in
Screw Location (R)	0.678 in	**Number of Screws**	4 ea
Material Specification	Type 303 Austenitic, Non-Magnetic Bar	**Temperature**	-40°F to 350°F (-40°C to 176°C)
Finish Specification	Bright, No Plating	**Manufacturer**	Ruland Manufacturing
Country of Origin	USA	**Moment of Inertia**	0.2277 lb-in^2
Weight (lbs)	0.446000	**UPC**	634529076231
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 WSP-16-SS double wide 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 3/16 in hex wrench until a slight resistance is felt.
5. Be sure to maintain the gap of 0.063 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 110 lb-in using a 3/16 in torque wrench.