RULAND
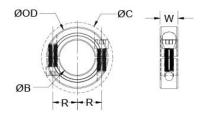### Carefully Made Shaft Collars and Couplings

MSPB-4-A

Ruland MSPB-4-A, 4mm Balanced Shaft Collar, Aluminum, Two-Piece Clamp Style, 16mm OD, 9mm Width

Description

Ruland MSPB-4-A is a two-piece shaft collar with a 4mm bore, 16mm OD, and 9mm 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. MSPB-4-A 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. MSPB-4-A 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. MSPB-4-A is manufactured from solid bar stock sourced from select North American mills and machined to a fine burr free finish. Ruland uses high grade 2024 aluminum for increased screw seating torque. MSPB-4-A is RoHS3 and REACH compliant and manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B)	4 mm	Bore Tolerance	+0.050 mm / +0.012 mm
Outer Diameter (OD)	16 mm	Clearance Diameter (C) MAX	20.8 mm
Width (W)	9 mm	Width Tolerance	+0.076 mm / -0.254 mm
Recommended Gap	1.20 mm	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm
Forged Clamp Screw	M3 x 8	Screw Material	Alloy Steel
Hex Wrench Size	2.5 mm	Screw Finish	Black Oxide
Seating Torque	2.1 Nm	Screw Location (R)	5.51 mm
Number of Screws	2 ea	Material Specification	2024-T351 Aluminum Bar
Finish Specification	Bright, No Plating	Manufacturer	Ruland Manufacturing
Country of Origin	USA	Temperature	-40°F to 225°F (-40°C to 107°C)
Weight (lbs)	0.011300	UPC	634529211885
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 Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.		

Installation Instructions

1. Use the MSPB-4-A 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 2.5 mm hex wrench until a slight resistance is felt.
5. Be sure to maintain the gap of 1.20 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 2.1 Nm using a 2.5 mm torque wrench.

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