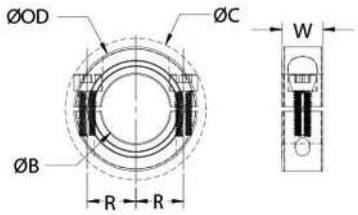
MSP-4-F

Ruland MSP-4-F, 4mm Two-Piece Shaft Collar, Black Oxide Steel, Clamp Style, 16mm OD, 9mm Width





Description

Ruland MSP-4-F is a two-piece shaft collar with a 4mm bore, 16mm OD, and 9mm width. The clamp style design does not mar the shaft, is easy to remove, and is indefinitely adjustable. MSP-4-F 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-4-F 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-4-F is machined from solid bar stock to a fine burr free finish and sourced exclusively from North American mills. Ruland uses 1215 lead-free steel with a proprietary black oxide finish that produces a fine glossy finish while increasing holding power and resisting corrosion. It is RoHS2 and REACH compliant and manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore B	4 mm	**Bore Tolerance**	+.050 mm / +.012 mm
Outer Diameter OD	16 mm	**Clearance Diameter C MAX**	20.8 mm
Width W	9 mm	**Width Tolerance**	+.076 mm / -.254 mm
Forged Clamp Screw	M3x8	**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**	1215 Carbon Steel Bar
Temperature	-40°F to 350°F -40°C to 176°C	**Finish Specification**	Hot Process Black Oxide, Impregnated with Naphthenic Oil, Centrifugally Dried
Country of Origin	USA	**Weight (lbs.)**	0.0300
UPC	63452901598		