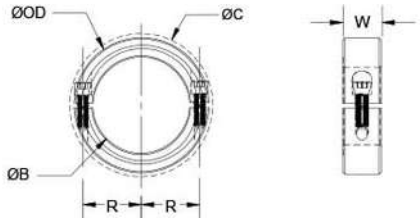
MSPH-100-F

Ruland MSPH-100-F, 100mm Heavy Duty Shaft Collar, Black Oxide Steel, Two-Piece Clamp Style, 140mm OD, 32mm Width





Description

Ruland MSPH-100-F is a two-piece heavy duty shaft collar with a 100mm bore, 140mm OD, and 32mm 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 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. MSPH-100-F is stamped with the Ruland name and bore size for ease of identification. This heavy duty shaft collars have larger ODs and screws for higher holding power. 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. MSPH-100-F is manufactured from solid bar stock sourced from select North American mills and machined to a fine burr free finish. 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. MSPH-100-F is RoHS3 and REACH compliant and manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	100 mm	**Bore Tolerance**	+0.102 mm / -0.000 mm
Outer Diameter (OD)	140 mm	**Clearance Diameter (C) MAX**	149.9 mm
Width (W)	32 mm	**Width Tolerance**	+0.076 mm / -0.254 mm
Recommended Gap	3.18 mm	**Recommended Shaft Tolerance**	+0.000 mm / -0.025 mm
Forged Clamp Screw	M12 x 40	**Screw Material**	Alloy Steel
Hex Wrench Size	10.0 mm	**Screw Finish**	Black Oxide
Seating Torque	135 Nm	**Screw Location (R)**	61.50 mm
Number of Screws	2 ea	**Axial Load**	88950 N
Material Specification	1215 Bar or A519 Hot Finished 1026 Carbon Steel	**Finish Specification**	Hot Process Black Oxide, Impregnated with Naphthenic Oil, Centrifugally Dried
Manufacturer	Ruland Manufacturing	**Country of Origin**	USA
Temperature	-40°F to 350°F (-40°C to 176°C)	**Weight (lbs)**	3.899100
UPC	634529133279	**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 MSPH-100-F heavy duty 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 10.0 mm hex wrench until a

slight resistance is felt.

5. Be sure to maintain the gap of 3.18 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 135 Nm using a 10.0 mm torque wrench.