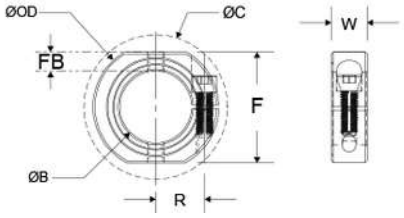
OF-MCL-12-AN

Ruland OF-MCL-12-AN, 12mm Shaft Collar With OD Flats And Holes, Black Anodized Aluminum, One-Piece Clamp Style, 28mm OD, 11mm Width





Description

Ruland OF-MCL-12-AN is a one-piece shaft collar with a 12mm bore, 28mm OD, and 11mm width. It has OD flats and tapped holes for mounting shaft collars to each other or adjacent components. The clamp style design does not mar the shaft, is easy to remove, and is indefinitely adjustable. OF-MCL-12-AN is commonly used for guiding, spacing, stopping, mounting, and component alignment. Equipment manufacturers benefit from the tightly controlled face to bore perpendicularity (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. OF-MCL-12-AN is stamped with the Ruland name and bore size for ease of identification. Forged screws test beyond DIN 912 12.9 standards to ensure maximum holding power. OF-MCL-12-AN 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 with an anodized finish for increased screw seating torque. OF-MCL-12-AN is RoHS3 and REACH compliant and manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Bore (B1)	12 mm	**Bore Tolerance**	+0.050 mm / +0.012 mm
Outer Diameter (OD)	28 mm	**Clearance Diameter (C) MAX**	32.0 mm
Width (W)	11 mm	**Width Tolerance**	+0.076 mm / -0.254 mm
Threaded Mounting Hole	M4	**Distance Across Flats (F)**	24 mm
Flat to Bore FB	6 mm	**Recommended Shaft Tolerance**	+0.000 mm / -0.013 mm
Forged Clamp Screw	M4 x 12	**Screw Material**	18-8 300 Series Stainless Steel
Hex Wrench Size	3.0 mm	**Screw Finish**	Bright
Seating Torque	4.6 Nm	**Screw Location (R)**	10.01 mm
Number of Screws	1 ea	**Material Specification**	2024-T351 Aluminum Bar
Temperature	-40°F to 200°F (-40°C to 93°C)	**Finish Specification**	Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize
Manufacturer	Ruland Manufacturing	**Country of Origin**	USA
Weight (lbs)	0.031100	**UPC**	634529306246
Tariff Code	8483.60.8000	**UNSPC**	31162811
Note 1	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
Note 2	Additional mounting hardware not included.		
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 OF-MCL-12-AN one-piece 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 3.0 mm hex wrench until a slight resistance is felt.

5. Wring collar into its final position and tighten the screw to the full recommended seating torque of 4.6 Nm using a 3.0 mm torque wrench.