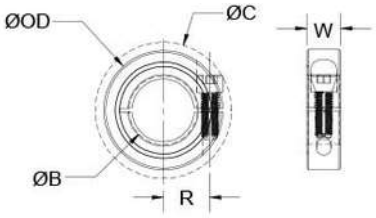
MTCL-24-3-SS

Ruland MTCL-24-3-SS, M24 x 3 Threaded Shaft Collar, 303 Stainless Steel, One-Piece Clamp Style, 45mm OD, 15mm Width







Description

Ruland MTCL-24-3-SS is a threaded one-piece shaft collar with a M24 x 3 bore, 45mm OD, and 15mm width. It has higher axial holding power than round bore shaft collars of similar size. Ruland double taps threads to ensure a precise and burr-free finish allowing for easy installation and removal, proper fit, and extended shaft life. The clamp style design will not mar the shaft. MTCL-24-3-SS 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. MTCL-24-3-SS 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. It 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. MTCL-24-3-SS is RoHS3 and REACH compliant and manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Threaded Bore (B1)	M24 x 3	**Thread Class**	6H
Outer Diameter (OD)	45 mm	**Width (W)**	15 mm
Clearance Diameter (C) MAX	52.1 mm	**Width Tolerance**	+0.076 mm / -0.254 mm
Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	**Forged Clamp Screw**	M6 x 16
Screw Material	18-8 300 Series Stainless Steel	**Hex Wrench Size**	5.0 mm
Screw Finish	Bright	**Seating Torque**	9.6 Nm
Screw Location (R)	17.50 mm	**Number of Screws**	1 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	**Weight (lbs)**	0.299400
UPC	634529060407	**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 MTCL-24-3-SS right threaded 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 5.0 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 9.6 Nm using a 5.0 mm torque wrench.