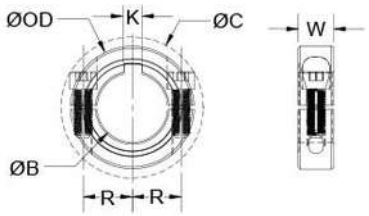
MSPK-12-A

Ruland MSPK-12-A, 12mm Two-Piece Shaft Collar, Aluminum, Clamp Style With Keyway, 28mm OD, 11mm Width







Description

Ruland MSPK-12-A is a two-piece shaft collar with a 12mm bore, 28mm OD, 11mm width, and 4mm keyway. 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. The keyway prevents slippage on the shaft when the shaft collar is used for positive drive. Equipment manufacturers benefit from the tightly controlled face to bore perpendicularity of Ruland shaft collars, TIR of ? 0.05mm. 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. MSPK-12-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. MSPK-12-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. MSPK-12-A 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
Keyway (K)	4 mm	**Width (W)**	11 mm
Outer Diameter (OD)	28 mm	**Width Tolerance**	+0.076 mm / -0.254 mm
Clearance Diameter (C) MAX	32.0 mm	**Recommended Gap**	1.59 mm
Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	**Forged Clamp Screw**	M4 x 12
Screw Material	Alloy Steel	**Hex Wrench Size**	3.0 mm
Screw Finish	Black Oxide	**Seating Torque**	4.6 Nm
Screw Location (R)	10.01 mm	**Number of Screws**	2 ea
Material Specification	2024-T351 Aluminum Bar	**Temperature**	-40°F to 225°F (-40°C to 107°C)
Finish Specification	Bright, No Plating	**Manufacturer**	Ruland Manufacturing
Country of Origin	USA	**Weight (lbs)**	0.035000
UPC	634529216682	**UNSPC**	31162811
Tariff Code	8483.60.8000		
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 MSPK-12-A two-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 with the groove side as the work surface. Tighten the collar using a 3.0 mm hex wrench until a slight resistance is felt.
5. Be sure to maintain the gap of 1.59 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 4.6

Nm using a 3.0 mm torque wrench.