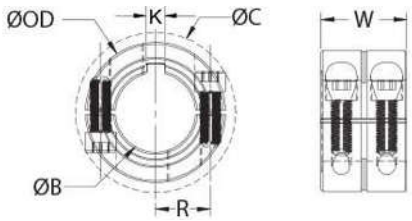
# MWSPK-10-F

Ruland MWSPK-10-F, 10mm Double Wide Shaft Collar, Black Oxide Steel, Two-Piece Clamp Style with Keyway, 24mm OD, 19.6mm Width










## Description

Ruland MWSPK-10-F is a two-piece shaft collar with a 10mm bore, 3mm keyway, 24mm OD, and 19.6mm 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 (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. MWSPK-10-F is stamped with the Ruland name and bore size for ease of identification. This double wide shaft collar has 25% higher axial holding power than a round bore of equivalent size. It can also be used as a short rigid coupling for applications where a traditional rigid coupling is too long. Forged screws test beyond DIN 912 12.9 standards to ensure maximum holding power. Halves are mated throughout the manufacturing process for proper fit and alignment. MWSPK-10-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 RoHS3 and REACH compliant and manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

## Product Specifications

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|---|---|---|---|
| **Bore (B1)** | 10 mm | **Small Bore (B2)** | 10 mm |
| **Keyway (K1)** | 3 mm | **Keyway (K2)** | 3 mm |
| **Outer Diameter (OD)** | 24 mm | **Bore Tolerance** | +0.050 mm / +0.012 mm |
| **Width (W)** | 19.6 mm | **Clearance Diameter (C) MAX** | 26.3 mm |
| **Recommended Gap** | 1.59 mm | **Recommended Shaft Tolerance** | +0.000 mm / -0.013 mm |
| **Forged Clamp Screw** | M3 | **Screw Material** | Alloy Steel |
| **Hex Wrench Size** | 2.5 mm | **Screw Finish** | Black Oxide |
| **Seating Torque** | 2.1 Nm | **Screw Location (R)** | 8.51 mm |
| **Number of Screws** | 4 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 |
| **Manufacturer** | Ruland Manufacturing | **Country of Origin** | USA |
| **Moment of Inertia** | 0.0139 lb-in$^2$ | **Weight (lbs)** | 0.105600 |
| **UPC** | 634529305614 | **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 | | |

**Installation Instructions**

1. Use the MWSPK-10-F double wide shaft collar as it is received.
2. Wipe the bore clean.
3. Apply a thin coat of light oil to the shaft.
4. Tighten the screws in two stages, starting with the inside screws. Using a torque wrench with 2.5 mm bit, tighten the inside screws to 1.05 Nm which is half the recommended seating torque. Repeat for the outside screws, again tightening to half of the recommended seating torque.
5. On two-piece couplings be sure to maintain the gap between the two halves during installation.
6. Tighten the screws to the full recommended seating torque of 2.1 Nm following the same pattern, starting with the inside screws first.