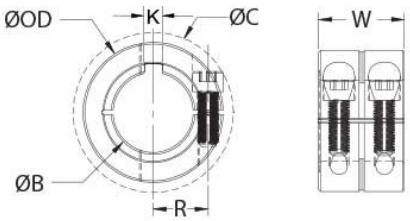
WCLK-16-F

Ruland WCL-16-F, 1" Double Wide Shaft Collar, Black Oxide Steel, One-Piece Clamp Style With Keyway, 1 3/4" OD, 1 1/16" Width





Description

Ruland WCLK-16-F is a one-piece shaft collar with a 1.0000" bore, 1/4" keyway, 1 3/4" OD, and 1 1/16" 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 ? .002"). 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. WCLK-16-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. WCLK-16-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

Bore (B1)	1.0000 in	**Small Bore (B2)**	1.0000 in
Keyway (K1)	1/4 in	**Keyway (K2)**	1/4 in
Outer Diameter (OD)	1 3/4 in	**Bore Tolerance**	+0.0020 in / +0.0005 in
Width (W)	1 1/16 in	**Clearance Diameter (C) MAX**	2.032 in
Recommended Shaft Tolerance	+0.0000 in / -0.0005 in	**Forged Clamp Screw**	1/4-28
Screw Material	Alloy Steel	**Hex Wrench Size**	3/16 in
Screw Finish	Black Oxide	**Seating Torque**	170 lb-in
Screw Location (R)	0.678 in	**Number of Screws**	2 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**	6.577 x 10^{-6} kg-m^2
Weight (lbs)	0.439100	**UPC**	634529305799
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 WCLK-16-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 3/16" bit, tighten the inside screws to 85 lb-in which is half the recommended seating torque. Repeat for the outside screws, again tightening to half of the recommended seating torque.
5. Tighten the screws to the full recommended seating torque of 170 lb-in following the same pattern, starting with the inside screws first.