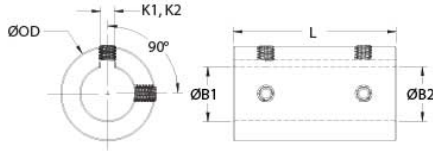




## MSCC-14-14-F


Ruland MSCC-14-14-F, 14mm x 14mm Rigid Coupling, Black Oxide Steel, Set Screw Style with Keyway, 34mm OD, 50mm Length



### Description

Ruland MSCC-14-14-F is a set screw rigid coupling with 14mm x 14mm bores, 34mm OD, 50mm length, and 5mm x 5mm keyways. It has precision honed bores to ensure they are collinear and do not introduce misalignment or vibration into the system making it suitable for high precision servo applications as well as shaft to shaft connections. Forged screws test beyond DIN 912 12.9 standards to ensure maximum holding power. Tightly controlled bore tolerance of  $\pm 0.050\text{mm}/\pm 0.012\text{mm}$  is maintained. MSCC-14-14-F is made from 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 machined from solid bar stock that is sourced exclusively from North American mills and is RoHS3 and REACH compliant. MSCC-14-14-F is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

### Product Specifications

<b>Bore (B1)</b>	14 mm	<b>Small Bore (B2)</b>	14 mm
<b>Keyway (K1)</b>	5 mm	<b>Keyway (K2)</b>	5 mm
<b>B1 Max Shaft Penetration</b>	25.0 mm	<b>B2 Max Shaft Penetration</b>	25.0 mm
<b>Bore Tolerance</b>	$\pm 0.050\text{ mm} / \pm 0.012\text{ mm}$	<b>Outer Diameter (OD)</b>	34 mm
<b>Length (L)</b>	50 mm	<b>Recommended Shaft Tolerance</b>	$\pm 0.000\text{ mm} / -0.013\text{ mm}$
<b>Forged Set Screw</b>	M6	<b>Screw Material</b>	Alloy Steel
<b>Hex Wrench Size</b>	3.0 mm	<b>Screw Finish</b>	Black Oxide
<b>Seating Torque</b>	7.2 Nm	<b>Number of Screws</b>	4 ea
<b>Rated Torque</b>	Rating Coming Soon	<b>Moment of Inertia</b>	$4.913 \times 10^{-5}\text{ kg}\cdot\text{m}^2$
<b>Maximum Speed</b>	4,000 RPM	<b>Full Bearing Support Required?</b>	No
<b>Precision Honed Bores?</b>	Yes	<b>Zero-Backlash?</b>	Yes
<b>Material Specification</b>	1215 Carbon Steel Bar	<b>Temperature</b>	-40°F to 350°F (-40°C to 176°C)
<b>Finish Specification</b>	Hot Process Black Oxide, Impregnated with Naphthenic Oil, Centrifugally Dried	<b>Manufacturer</b>	Ruland Manufacturing
<b>Country of Origin</b>	USA	<b>Weight (lbs)</b>	0.633700
<b>UPC</b>	634529076538	<b>Tariff Code</b>	8483.60.8000
<b>UNSPC</b>	31163009		
<b>Note 1</b>	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
<b>Prop 65</b>	 <b>WARNING</b> 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .		

### Installation Instructions

1. Align the MSCC-14-14-F set screw rigid coupling on the two shafts to be connected. There should be no misalignment.
2. Tighten the set screws in two stages, starting with the inside set screws. Using a 3.0 mm torque wrench, tighten the inside set screws to 3.6 Nm which is half the recommended seating torque. Repeat for the outside set screws, again tightening to half of the recommended seating torque.
3. Tighten the screws to the full recommended seating torque of 7.2 Nm following the same pattern, starting with the inside set screws first.