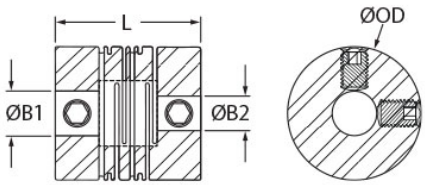
MRSS8-4-4-A

Ruland MRSS8-4-4-A, 4mm x 4mm Short Slit Coupling, Aluminum, Set Screw Style, 8.0mm OD, 11.7mm length



Description

Ruland MRSS8-4-4-A is a set screw style slit coupling with 4mm x 4mm bores, 8.0mm OD, and 11.7mm length. It is manufactured from a single piece of material and has two sets of intermittent slit cuts allowing for a maintenance-free coupling with high torsional stiffness in relation to comparable couplings, such as beam type. MRSS8-4-4-A has small dimensions and is designed to mate with micro motors, ball screws, and lead screws in high precision medical and scientific equipment. This short style slit coupling is ideal for compact installations where the long type may not fit. It is a suitable alternative to comparatively sized disc couplings due to the ability to accommodate all forms of misalignment whereas a single disc coupling has no accomodation for parallel misalignment. MRSS8-4-4-A is zero-backlash, has a balanced design for reduced vibration at speeds up to 40,000 RPM, and can accommodate all forms of misalignment with light bearing loads. It is manufactured by Reliance Precision Ltd. in their County Cork, Ireland factory from 7075 aluminum for lightweight and low inertia. MRSS8-4-4-A is inventoried by Ruland and RoHS3 and REACH compliant.

Product Specifications

Bore (B1)	4 mm	**Small Bore (B2)**	4 mm
B1 Max Shaft Penetration	5.2 mm	**B2 Max Shaft Penetration**	5.2 mm
Outer Diameter (OD)	8 mm	**Bore Tolerance**	+0.010 mm / -0.000 mm
Length (L)	11.7 mm	**Forged Set Screw**	M1.6
Screw Material	18-8 300 Series Stainless Steel	**Hex Wrench Size**	0.7 mm
Screw Finish	Bright	**Number of Screws**	4
Dynamic Torque Reversing	0.20 Nm	**Angular Misalignment**	2.0°
Dynamic Torque Non-Reversing	0.30 Nm	**Parallel Misalignment**	0.05 mm
Peak Torque	0.50 Nm	**Axial Motion**	0.10 mm
Torsional Stiffness	0.2 Nm/Deg	**Moment of Inertia**	0.00003685 lb-in²
Maximum Speed	40,000 RPM	**Full Bearing Support Required?**	Yes
Zero-Backlash?	Yes	**Balanced Design**	Yes
Material Specification	7075-T651 Extruded and Drawn Aluminum Bar	**Temperature**	-110°F to 175°F (-80°C to 80°C)
Finish Specification	SurTec 650	**Manufacturer**	Reliance Precision Limited
Country of Origin	Ireland	**Weight (lbs)**	0.002400
UPC	634529296585	**Tariff Code**	8483.60.8000
UNSPC	31163003		
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.