



RSS10-4-3-A

Ruland RSS10-4-3-A, 0.250" x 0.188" Short Slit Coupling, Aluminum, Set Screw Style, 0.630" OD, 0.778" length



Description

Ruland RSS10-4-3-A is a set screw style slit coupling with 0.2500" x 0.1875" bores, 0.630" OD, and 0.778" 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. RSS10-4-3-A is commonly used in precise positioning applications found in semiconductor, medical, and test and measurement 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 accommodation for parallel misalignment. RSS10-4-3-A is zero-backlash, has a balanced design for reduced vibration at speeds up to 25,000 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. RSS10-4-3-A is inventoried by Ruland and RoHS3 and REACH compliant.

Product Specifications

Bore (B1)	0.2500 in	Small Bore (B2)	0.1875 in
B1 Max Shaft Penetration	0.311 in	B2 Max Shaft Penetration	0.311 in
Outer Diameter (OD)	0.630 in	Bore Tolerance	+0.001 in / -0.000 in
Length (L)	0.778 in	Forged Set Screw	M3
Screw Material	18-8 300 Series Stainless Steel	Hex Wrench Size	1.5 mm
Screw Finish	Bright	Seating Torque	0.73 Nm
Number of Screws	4	Dynamic Torque Reversing	6.6 lb-in
Angular Misalignment	2.5°	Dynamic Torque Non-Reversing	10.2 lb-in
Parallel Misalignment	0.004 in	Peak Torque	16.8 in-lb
Axial Motion	0.016 in	Torsional Stiffness	10.6 lb-in/Deg
Moment of Inertia	0.0010006 lb-in ²	Maximum Speed	25,000 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)	0.017500	UPC	634529298398
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.