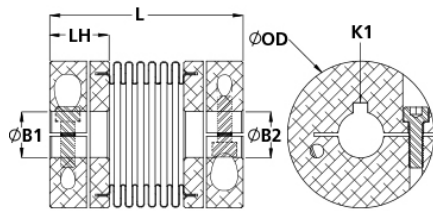




MBCLK41-15-10-A

Ruland MBCLK41-15-10-A, 15mm x 10mm Bellows Coupling with Keyways, Increased Misalignment, Aluminum, 41.3mm, OD 58.8 mm length



Description

Ruland MBCLK41-15-10-A is a bellows coupling with increased misalignment with 15mm x 10mm bores, 41.3mm OD, 58.8 mm length, and 5mm x 3mm keyways. It has more convolutions than comparably sized high stiffness styles allowing for increased misalignment for high-performance applications where shaft misalignment is harder to control. MBCLK41-15-10-A is comprised of two anodized aluminum hubs and a stainless steel bellows for lightweight and low inertia. It is also engineered with a balanced design for reduced vibration at high speeds up to 10,000 RPM. The thin walls of the bellows are able to flex while remaining rigid under torsional loads allowing for the accommodation of all forms of misalignment. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. MBCLK41-15-10-A is machined from meticulously selected bar stock that is sourced exclusively from North American mills. It is carefully made in our ISO 9001:2015 advanced manufacturing facility in Marlborough, MA under strict controls using proprietary processes. MBCLK41-15-10-A is RoHS3, REACH, and Conflict Minerals compliant.

Product Specifications

Bore (B1)	15 mm	Small Bore (B2)	10 mm
Keyway (K1)	5 mm	Keyway (K2)	3 mm
B1 Max Shaft Penetration	24.0 mm	B2 Max Shaft Penetration	24.0 mm
Outer Diameter (OD)	1.625 in (41.3 mm)	Bore Tolerance	+0.03 mm / -0.00 mm
Length (L)	2.316 in (58.8 mm)	Length Tolerance	+/- 0.76 mm
Hub Width (LH)	18.05 mm	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm
Key Width (K1)	5 mm	Key Width (K2)	3 mm
Key Height (K1)	5 mm	Key Height (K2)	3 mm
Keyway 1 Height (T1)	17.3 mm	Keyway 2 Height (T2)	11.4 mm
Keyway 1 Width Tolerance	+0.015 mm / -0.015 mm	Keyway 1 Height Tolerance	+0.1 mm / 0 mm
Keyway 2 Width Tolerance	+0.012 mm / -0.012 mm	Keyway 2 Height Tolerance	+0.1 mm / 0 mm
Forged Clamp Screw	M4	Screw Material	Alloy Steel
Hex Wrench Size	3.0 mm	Screw Finish	Black Oxide
Seating Torque	4.6 Nm	Number of Screws	2 ea
Dynamic Torque Reversing	7.00 Nm	Angular Misalignment	3.0°
Dynamic Torque Non-Reversing	14.00 Nm	Parallel Misalignment	0.38 mm
Static Torque	28.0 Nm	Axial Motion	0.76 mm
Torsional Stiffness	39.4 Nm/Deg	Moment of Inertia	3.280x10 ⁻⁵ kg-m ²
Maximum Speed	10,000 RPM	Full Bearing Support Required?	Yes
Zero-Backlash?	Yes	Balanced Design	Yes
Material Specification	Hubs: 2024-T351 Aluminum Bar Bellows: Type 321 Stainless Steel	Temperature	-40°F to 200°F (-40°C to 93°C)
Finish Specification	Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize	Bellows Attachment Method	Epoxy
Manufacturer	Ruland Manufacturing	Country of Origin	USA

Weight (lbs)	0.301984	UPC	63452941716
Tariff Code	8483.60.8000	UNSPC	31163018
Note 1	Stainless steel hubs are available upon request.		
Note 2	Torque ratings are at maximum misalignment.		
Note 3	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
Note 4	Torque ratings for the couplings are based on the physical limitations/failure point of the metal bellows. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the metal bellows. Please consult technical support for more assistance.		