MDCS41-20-11-A

ØB2

Ruland MDCS41-20-11-A, 20mm x 11mm Single Disc Coupling, Aluminum, Clamp Style, 41.3mm OD, 39.7mm Length

OD

-LH

ØB1

Description

Ruland MDCS41-20-11-A is a clamp single disc coupling with 20mm x 11mm bores, 41.3mm OD, and 39.7mm length. It is zero-backlash and has a balanced design for reduced vibration at high speeds. The single disc design is comprised of two anodized aluminum hubs and two sets of thin stainless steel disc springs which can accommodate angular misalignment and axial motion, however does not allow for any parallel misa are is m ally rigid nd test a СН com

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Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc spring cases, especially when the smallest standard bores are used or where shafts are undersized, slip				
Outer Diameter (OD) 41.3 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 39.7 mm Hub Width (LH) 18.05 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M4 Screw Katerial 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 5.08 Nm Angular Misalignment 1.0° Dynamic Torque Reversing 10.15 Nm Parallel Misalignment 0.00 mm Static Torque 20.3 Nm Axial Motion 0.25 mm Torsional Stiffness 70.6 Nm/Deg Moment of Inertia 2.771 x 10 ⁵ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-41.0 Recommended Hex Key Metric Hex Keys Material Specification Ill: Class 2 and ASTM Bg Manufacturer Ruland Manufacturing Country of Origin USA Metright (Ibs) 0.249600 UPC 634529151921	20 mm			
Length (L)39.7 mmHub Width (LH)18.05 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmForged Clamp ScrewM4Screw MaterialAlloy SteelHex Wrench Size3.0 mmScrew FinishBlack OxideSeating Torque4.6 NmNumber of Screws2 eaDynamic Torque Reversing5.08 NmAngular Misalignment1.0°Dynamic Torque Non-Reversing10.15 NmParallel Misalignment0.00 mmStatic Torque20.3 NmAxial Motion0.25 mmTorsional Stiffness70.6 Nm/DegMoment of Inertia2.771 x 10 ⁻⁵ kg-m ² Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-IR-1/4-41.0Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Alumin Disc Springs: Type 302 SteelTemperature-40°F to 200°F (-40°C to 93°C)Finish SpecificationUSAWeight (Ibs)0.249600UPC634529151921Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular apNote 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc spring cases, especially when the smallest standard bores are used or where shafts are undersized, slip	19.2 mm			
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Note 4 Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc spring cases, especially when the smallest standard bores are used or where shafts are undersized, slip	Torque ratings are at maximum misalignment.			
normal/typical conditions the hubs are capable of holding up to the rated torque of the disc spring cases, especially when the smallest standard bores are used or where shafts are undersized, slip	Performance ratings are for guidance only. The user must determine suitability for a particular application.			
torque capacity in the shaft/hub connection when required. Please consult technical support for m assistance.	normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the disc springs. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more			

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alignment. MDCS41-20-11-A is	lightweight and has low inertia making	lignment and axial motion, howeving it well suited for applications with ue capabilities. Ruland manufacture	speeds up to 10,000 RPM. Hardwar	
		ons commonly found in semiconduc		
		is sourced exclusively from North Ar		
		actory under strict controls using prop		
oduct Specifications				
re (B1)	20 mm	Small Bore (B2)	11 mm	
Max Shaft Penetration	19.2 mm	B2 Max Shaft Penetration	19.2 mm	
ter Diameter (OD)	41.3 mm	Bore Tolerance	+0.03 mm / -0.00 mm	
ngth (L)	39.7 mm	Hub Width (LH)	18.05 mm	
commended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M4	
rew Material	Alloy Steel	Hex Wrench Size	3.0 mm	
rew Finish	Black Oxide	Seating Torque	4.6 Nm	
mber of Screws	2 ea	Dynamic Torque Reversing	5.08 Nm	
gular Misalignment	1.0°	Dynamic Torque Non-Reversing	10.15 Nm	
allel Misalignment	0.00 mm	Static Torque	20.3 Nm	
al Motion	0.25 mm	Torsional Stiffness	70.6 Nm/Deg	
ment of Inertia	2.771 x 10 ⁻⁵ kg-m ²	Maximum Speed	10,000 RPM	
I Bearing Support Required?	Yes	Zero-Backlash?	Yes	
anced Design	Yes	Torque Wrench	<u>TW:BT-1R-1/4-41.0</u>	
commended Hex Key	Metric Hex Keys	Material Specification	Hubs: 2024-T351 Aluminum Bar, Disc Springs: Type 302 Stainless Steel	
nperature	-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	
nufacturer	Ruland Manufacturing	Country of Origin	USA	
ight (lbs)	0.249600	UPC	634529151921	
iff Code	8483.60.8000	UNSPC	31163008	
te 1	Stainless steel hubs are available upon request.			
te 2	Torque ratings are at maximum misalignment.			
te 3	Performance ratings are for guidance only. The user must determine suitability for a particular application.			
te 4	Torque ratings for the couplings are based on the physical limitations/failure point of the disc springs. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the disc springs. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the rated torque of the disc springs. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance.			
and Manufacturing Co., Inc.			1	







WARNING This product can expose you to chemicals including Ethylene Thiourea and Nickel (metallic), known to the State of California to cause cancer, and Ethylene Thiourea known to the State of California to cause birth defects or other reproductive harm. For more information go to <u>www.P65Warnings.ca.gov</u>.

Installation Instructions

- Align the bores of the MDCS41-20-11-A single disc coupling on the shafts that are to be joined and determine if the misalignment parameters are within the limits of the coupling. (*Angular Misialignment:* 1.0°, *Parallel Misalignment:* 0.00 mm, *Axial Motion:* 0.25 mm)
- 2. Fully tighten the M4 screw on the first hub to the recommended seating torque of 4.6 Nm using a 3.0 mm hex torque wrench.
- 3. Before tightening the screw on the second hub, rotate the coupling by hand to allow it to reach its free length.
- Tighten the screw on the second hub to the recommended seating torque. Make sure the coupling remains axially relaxed and the misalignment angle remains centered along the length of the coupling.
- 5. The shafts may extend into the relieved portion of the bore as long as it does not exceed the shaft penetration length of 19.2 mm.