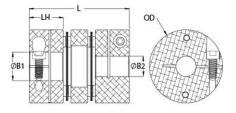




MDCDE51-15-12-A

Ruland MDCDE51-15-12-A, 15mm x 12mm Double Disc Coupling, Aluminum, Clamp Style, Electrically Isolating, 50.8mm OD, 64.0mm Length





Description

Ruland MDCDE51-15-12-A is an electrically isolating clamp double disc coupling with 15mm x 12mm bores, 50.8mm OD, and 64.0mm length. It is zero-backlash and has a balanced design for reduced vibration at high speeds. The double disc design is comprised of two anodized aluminum hubs, two sets of thin stainless steel disc springs, and an acetal center spacer allowing each disc to bend individually and accommodate all types of misalignment. The acetal center spacer isolates the two hubs preventing the incidental transfer of current from the motor to the driven component or vice versa. MDCDE51-15-12-A is lightweight and has low inertia making it well suited for applications with speeds up to 10,000 RPM. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. Ruland manufactures MDCDE51-15-12-A to be torisionally rigid and an excellent fit for precise positioning stepper servo applications commonly found in semiconductor, solar, printing, machine tool, and test and measurement systems. It is machined from solid bar stock that is sourced exclusively from North American mills and RoHS3 and REACH compliant. MDCDE51-15-12-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

Type 302 Stainless Ste Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized MIL- II, Class 2 and ASTM E Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.572200UPC634529089897Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.31163008Note 2Torque ratings are at maximum misalignment.Vergen constraints of a particular and the sulfacturing are for guidance only. The user must determine suitability for a particular and the sulfacturing are sulfactured on the sulfacturing are sulfactured on the sulfacture only. The user must determine sulfability for a particular and the sulfacture only. The user must determine sulfability for a particular and the sulfacture on the sulfacture only. The user must determine sulfability for a particular and the sulfacture only. The user must determine sulfability for a particular and the sulfacture only. The user must determine sulfability for a particular and the sulfacture only. The user must determine sulfability for a particular and the sulfacture only.	r roddor opconnoationis			
Outer Diameter (OD) 50.8 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 64.0 mm Hub Width (LH) 20.6 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M5 Screw Material Alloy Steel Hex Wrench Size 4.0 mm Screw Finish Black Oxide Seating Torque 9.5 Nm Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm Angular Misalignment 2.0° Dynamic Torque Roversing 19.80 Nm Axial Motion 0.64 mm Torsional Stiffness 67.2 Nm/Deg Moment of Inertia 9.209 x 10 ⁻⁵ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TV/:BT-4C-3/8-86 Recommended Hex Key Metric Hex Keys Material Specification Sulfuric Anodized MIL-II, Class 2 and ASTM E Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.572200 UPC 634529089897 Tariff Code 8483.60.8000 UNSPC 31163008 <th>Bore (B1)</th> <th>15 mm</th> <th>Small Bore (B2)</th> <th>12 mm</th>	Bore (B1)	15 mm	Small Bore (B2)	12 mm
Length (L)64.0 mmHub Width (LH)20.6 mmRecommended Shaft Tolerance+0.000 mm / -0.013 mmForged Clamp ScrewM5Screw MaterialAlloy SteelHex Wrench Size4.0 mmScrew FinishBlack OxideSeating Torque9.5 NmNumber of Screws2 eaDynamic Torque Reversing9.90 NmAngular Misalignment2.0°Dynamic Torque Non-Reversing19.80 NmParallel Misalignment0.30 mmStatic Torque39.6 NmAxial Motion0.64 mmTorsional Stiffness67.2 Nm/DegMoment of Inertia9.209 x 10 ⁵ kg-m ² Maxium Speed10.000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTUV:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Bar, Type 302 Stainless Ste Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodize MIL- II, Class 2 and ASTM E Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.572200UPC634529089897Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 2Torque ratings are at maximum misalignment.Torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the east of the di	B1 Max Shaft Penetration	30.3 mm	B2 Max Shaft Penetration	30.3 mm
Recommended Shaft Tolerance+0.000 mm / -0.013 mmForged Clamp ScrewM5Screw MaterialAlloy SteelHex Wrench Size4.0 mmScrew FinishBlack OxideSeating Torque9.5 NmNumber of Screws2 eaDynamic Torque Reversing9.90 NmAngular Misalignment2.0°Dynamic Torque Non-Reversing19.80 NmParallel Misalignment0.30 mmStatic Torque39.6 NmAxial Motion0.64 mmTorsional Stiffness67.2 Nm/DegMoment of Inertia9.209 x 10 ⁻⁵ kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Bar, Type 302 Stainless Ste Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized MIL- II, Class 2 and ASTM E Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.572200UPC634529089897Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular a Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprin crease, sepecially when the smallest standard bores are used or where shafts are undersized, si <td>Outer Diameter (OD)</td> <td>50.8 mm</td> <td>Bore Tolerance</td> <td>+0.03 mm / -0.00 mm</td>	Outer Diameter (OD)	50.8 mm	Bore Tolerance	+0.03 mm / -0.00 mm
Screw Material Alloy Steel Hex Wrench Size 4.0 mm Screw Finish Black Oxide Seating Torque 9.5 Nm Number of Screws 2 ea Dynamic Torque Reversing 9.90 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 19.80 Nm Parallel Misalignment 0.30 mm Static Torque 39.6 Nm Axial Motion 0.64 mm Torsional Stiffness 67.2 Nm/Deg Moment of Inertia 9.209 x 10°5 kg-m² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-4C-3/8-86 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Bar, Type 302 Stainless Stee Temperature -10°F to 150°F (-23°C to 65°C) Finish Specification Sulfuric Anodized MIL-II, Class 2 and ASTM E Black Anodize Meight (Ibs) 0.572200 UPC 634529089897 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Torque ratings are for guidance only. The user must determine suitability for a particular anoralytypical con	Length (L)	64.0 mm	Hub Width (LH)	20.6 mm
Screw FinishBlack OxideSeating Torque9.5 NmNumber of Screws2 eaDynamic Torque Reversing9.90 NmAngular Misalignment2.0°Dynamic Torque Non-Reversing19.80 NmParallel Misalignment0.30 mmStatic Torque39.6 NmAxial Motion0.64 mmTorsional Stiffness67.2 Nm/DegMoment of Inertia9.20 x 10 ⁻⁵ kg-m ² Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Bar, Type 302 Stainless Ste Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized MIL- II, Class 2 and ASTM E Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.572200UPC634529089897Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Stainless steel hubs are available upon request.Note 3Performance ratings are at maximum misalignment.Note 4Torque ratings for the couplings are based on the physical limitations/failure point of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, si	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M5
Number of Screws2 eaDynamic Torque Reversing9.90 NmAngular Misalignment2.0°Dynamic Torque Non-Reversing19.80 NmParallel Misalignment0.30 mmStatic Torque39.6 NmAxial Motion0.64 mmTorsional Stiffness67.2 Nm/DegMoment of Inertia9.209 x 10° kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3R-86Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Bar, Type 302 Stainless Ste Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized MIL- II, Class 2 and ASTM E Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.572200UPC634529089897Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 3Performance ratings are at maximum misalignment.Yea particular application for the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Screw Material	Alloy Steel	Hex Wrench Size	4.0 mm
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Parallel Misalignment0.30 mmStatic Torque39.6 NmAxial Motion0.64 mmTorsional Stiffness67.2 Nm/DegMoment of Inertia9.209 x 10 ⁻⁵ kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Bar, Type 302 Stainless Ste Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized MIL- II, Class 2 and ASTM E Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.572200UPC634529089897Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular an normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin orages, especially when the smallest standard bores are used or where shafts are undersized, sl	Number of Screws	2 ea	Dynamic Torque Reversing	9.90 Nm
Axial Motion0.64 mmTorsional Stiffness67.2 Nm/DegMoment of Inertia9.209 x 10 ⁵ kg-m²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Bar, Type 302 Stainless Ste Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized MIL- II, Class 2 and ASTM E Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.572200UPC634529089897Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular a normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin ncases, especially when the smallest standard bores are used or where shafts are undersized, sl	Angular Misalignment	2.0°	Dynamic Torque Non-Reversing	19.80 Nm
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Full Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Bar, Type 302 Stainless Ste Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized MIL- II, Class 2 and ASTM E Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.572200UPC634529089897Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.VerNote 2Torque ratings are at maximum misalignment.VerNote 3Performance ratings are for guidance only. The user must determine suitability for a particular a normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin normal/typical condit	Axial Motion	0.64 mm	Torsional Stiffness	67.2 Nm/Deg
Balanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Bar, Type 302 Stainless Ste Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized MIL- II, Class 2 and ASTM E Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.572200UPC634529089897Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular a normal/typical conditions the hubs are capable of holding up to the rated torque of the disc sprin ormal/typical conditions the hubs are used or where shafts are undersized, sl	Moment of Inertia	9.209 x 10 ⁻⁵ kg-m ²	Maximum Speed	10,000 RPM
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Weight (lbs)0.572200UPC634529089897Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 2Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular at more 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 sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Temperature	-10°F to 150°F (-23°C to 65°C)	Finish Specification	Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize
Tariff 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 a 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 sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Manufacturer	Ruland Manufacturing	Country of Origin	USA
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 a 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 sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Weight (Ibs)	0.572200	UPC	634529089897
Note 2 Torque ratings are at maximum misalignment. Note 3 Performance ratings are for guidance only. The user must determine suitability for a particular a 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 sprin cases, especially when the smallest standard bores are used or where shafts are undersized, sl	Tariff Code	8483.60.8000	UNSPC	31163008
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shall is possible below the fated torque of the disc springs. Keyways are available to provide ad	Note 4	normal/typical conditions the hubs cases, especially when the smalles	are capable of holding up to the rated st standard bores are used or where s	d torque of the disc springs. In some shafts are undersized, slippage on th

	torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance.			
Prop 65	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 MDCDE51-15-12-A double disc coupling on the shafts that are to be joined and determine if the misalignment parameters are within the limits of the coupling. (<i>Angular</i> <i>Misialignment:</i> 2.0°, <i>Parallel Misalignment:</i> 0.30 mm, <i>Axial Motion:</i> 0.64 mm) Fully tighten the M5 screw on the first hub to the recommended seating torque of 9.5 Nm using a 4.0 mm hex torque wrench. 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. The shafts may extend into the relieved portion of the bore as long as it does not exceed the shaft penetration length of 30.3 mm. 			