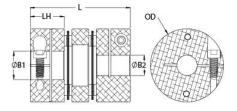




DCDE32-12-10-A

Ruland DCDE32-12-10-A, 3/4" x 5/8" Double Disc Coupling, Aluminum, Clamp Style, Electrically Isolating, 2.000" OD, 2.519" Length





Description

Ruland DCDE32-12-10-A is an electrically isolating clamp double disc coupling with 0.7500" x 0.6250" bores, 2.000" OD, and 2.519" 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. DCDE32-12-10-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 DCDE32-12-10-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. DCDE32-12-10-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

B1 Max Shaft Penetration 1.192 in B2 Max Shaft Penetration 1.192 in Outer Diameter (OD) 2.000 in Bore Tolerance +0.001 in /-0.000 in Length (L) 2.519 in Hub Width (LH) 0.810 in Recommended Shaft Tolerance +0.0000 in /-0.0005 in 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 87.5 lb-in Angular Misalignment 0.012 in Static Torque 350 lb-in Axial Motion 0.025 in Torsional Stiffness 595 lb-in/Deg Moment of Inertia 0.3125 lb-in ² 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, Disc Springs Type 302 Stainless Steel, Center Space:: Acetal Temperature -10°F to 150°F (-23°C to 65°C) Finish Specification Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B500	Froduct Specifications			
Outer Diameter (OD) 2.000 in Bore Tolerance +0.001 in / -0.000 in Length (L) 2.519 in Hub Width (LH) 0.810 in Recommended Shaft Tolerance +0.0000 in / -0.0005 in 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 87.5 lb-in Angular Misalignment 0.02 in Static Torque Non-Reversing 175 lb-in Parallel Misalignment 0.012 in Static Torque Non-Reversing 175 lb-in Axial Motion 0.025 in Torsional Stiffness 595 lb-in/Deg Moment of Inertia 0.3125 lb-in ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Torque Wrench TW:BT-4C-3/8-86 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Bar, Disc Springs Type 302 Stainless Steel, Center Space: Acetal Temperature -10°F to 150°F (-23°C to 65°C) Finish Specification Sulfuric Anodized MIL-A-8625 Type Black Anodize Maufacturer Ruland Manufacturing Country of Origin<	Bore (B1)	0.7500 in	Small Bore (B2)	0.6250 in
Length (L) 2.519 in Hub Width (LH) 0.810 in Recommended Shaft Tolerance +0.0000 in /-0.0005 in 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 87.5 lb-in Angular Misalignment 2.0° Dynamic Torque Non-Reversing 175 lb-in Parallel Misalignment 0.012 in Static Torque 350 lb-in/Deg Moment of Inertia 0.3125 lb-in ² 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, Disc Springs Type 302 Stainless Steel, Center Spacer: Acetal Temperature -10°F to 150°F (-23°C to 65°C) Finish Specification Sulfuric Anodized MIL-A-8625 Type Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.597100 UPC 634529088449 Ta	B1 Max Shaft Penetration	1.192 in	B2 Max Shaft Penetration	1.192 in
Recommended Shaft Tolerance +0.0000 in / -0.0005 in 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 87.5 lb-in Angular Misalignment 2.0° Dynamic Torque Non-Reversing 175 lb-in Parallel Misalignment 0.012 in Static Torque 350 lb-in Axial Motion 0.025 in Torsional Stiffness 595 lb-in/Deg Moment of Inertia 0.3125 lb-in ² Maximus 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 Hubs: 2024-T351 Bar, Disc Springs Type 302 Stainless Steel, Center Spacer: Acetal 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 Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.597100 UPC 63452	Outer Diameter (OD)	2.000 in	Bore Tolerance	+0.001 in / -0.000 in
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 87.5 lb-in Angular Misalignment 2.0° Dynamic Torque Non-Reversing 175 lb-in Parallel Misalignment 0.012 in Static Torque 350 lb-in Axial Motion 0.025 in Torsional Stiffness 595 lb-in/Deg Moment of Inertia 0.3125 lb-in ² 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, Disc Springs Type 302 Stainless Steel, Center Spacer: Acetal 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 Maufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.597100 UPC 634529088449 Tariff Code 8483.60.8000 UNSPC 31163008	Length (L)	2.519 in	Hub Width (LH)	0.810 in
Screw Finish Black Oxide Seating Torque 9.5 Nm Number of Screws 2 ea Dynamic Torque Reversing 87.5 lb-in Angular Misalignment 2.0° Dynamic Torque Reversing 175 lb-in Parallel Misalignment 0.012 in Static Torque 350 lb-in/ Axial Motion 0.025 in Torsional Stiffness 595 lb-in/Deg Moment of Inertia 0.3125 lb-in ² 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, Disc Springs 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 Maufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.597100 UPC 634529088449 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 3 Performance ratings are for guidance only. The user must determine suitability fo	Recommended Shaft Tolerance	+0.0000 in / -0.0005 in	Forged Clamp Screw	M5
Number of Screws2 eaDynamic Torque Reversing87.5 lb-inAngular Misalignment2.0°Dynamic Torque Non-Reversing175 lb-inParallel Misalignment0.012 inStatic Torque350 lb-inAxial Motion0.025 inTorsional Stiffness595 lb-in/DegMoment of Inertia0.3125 lb-in²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Bar, Disc Springs Type 302 Stainless Steel, Center Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized MIL-A-8625 Type B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (Ibs)0.597100UPC634529088449Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 1Note 3Performance ratings are at maximum misalignment.Note 4Torque ratings are for guidance only. The user must determine suitability for a particular application.Note 4Torque ratings for the couplings are based on the physical limitations/failure point 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	Screw Material	Alloy Steel	Hex Wrench Size	4.0 mm
Angular Misalignment 2.0° Dynamic Torque Non-Reversing 175 lb-in Parallel Misalignment 0.012 in Static Torque 350 lb-in Axial Motion 0.025 in Torsional Stiffness 595 lb-in/Deg Moment of Inertia 0.3125 lb-in ² 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, Disc Springs Type 302 Stainless Steel, Center Spacer: Acetal Temperature -10°F to 150°F (-23°C to 65°C) Finish Specification Sulfuric Anodized MIL-A-8625 Type Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.597100 UPC 634529088449 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. 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 disc springs. In some cases, especially when the small	Screw Finish	Black Oxide	Seating Torque	9.5 Nm
Parallel Misalignment0.012 inStatic Torque350 lb-inAxial Motion0.025 inTorsional Stiffness595 lb-in/DegMoment of Inertia0.3125 lb-in²Maximum Speed10,000 RPMFull Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Bar, Disc Springs Type 302 Stainless Steel, Center Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized MIL-A-8625 Type Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.597100UPC634529088449Tariff 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 application.Note 4Torque 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. 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	Number of Screws	2 ea	Dynamic Torque Reversing	87.5 lb-in
Axial Motion 0.025 in Torsional Stiffness 595 lb-in/Deg Moment of Inertia 0.3125 lb-in ² 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, Disc Springs Type 302 Stainless Steel, Center Spacer: Acetal 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 Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.597100 UPC 634529088449 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. 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 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,	Angular Misalignment	2.0°	Dynamic Torque Non-Reversing	175 lb-in
Moment of Inertia 0.3125 lb-in² 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, Disc Springs Type 302 Stainless Steel, Center Space: Acetal 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 Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.597100 UPC 634529088449 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. 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 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	Parallel Misalignment	0.012 in	Static Torque	350 lb-in
Full Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-4C-3/8-86Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Bar, Disc Springs Type 302 Stainless Steel, Center Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized MIL-A-8625 Type Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.597100UPC634529088449Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Torque ratings are at maximum misalignment.Note 2Torque ratings are for guidance only. The user must determine suitability for a particular application.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular application.Note 4Torque ratings for the couplings are based on the physical limitations/failure point 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	Axial Motion	0.025 in	Torsional Stiffness	595 lb-in/Deg
Balanced Design Yes Torque Wrench TW:BT-4C-3/8-86 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Bar, Disc Springs Type 302 Stainless Steel, Center Spacer: Acetal 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 Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.597100 UPC 634529088449 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. 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 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	Moment of Inertia	0.3125 lb-in ²	Maximum Speed	10,000 RPM
Recommended Hex KeyMetric Hex KeysMaterial SpecificationHubs: 2024-T351 Bar, Disc Springs Type 302 Stainless Steel, Center Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized MIL-A-8625 Type I, Class 2 and ASTM B580 Type B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.597100UPC634529088449Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Vote 2Note 2Torque ratings are at maximum misalignment.Vote application.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular application.Note 4Torque ratings for the couplings are based on the physical limitations/failure point 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	Full Bearing Support Required?	Yes	Zero-Backlash?	Yes
Type 302 Stainless Steel, Center Spacer: Acetal 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 Manufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.597100 UPC 634529088449 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Torque ratings are at maximum misalignment. Note 2 Torque ratings are for guidance only. The user must determine suitability for a particular application. 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 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	Balanced Design	Yes	Torque Wrench	<u>TW:BT-4C-3/8-86</u>
II, Class 2 and ASTM B580 Type B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.597100UPC634529088449Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Note 2Note 2Torque ratings are at maximum misalignment.Note 3Performance ratings are for guidance only. The user must determine suitability for a particular application.Note 4Torque 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 	Recommended Hex Key	<u>Metric Hex Keys</u>	Material Specification	51
Weight (lbs)0.597100UPC634529088449Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.31163008Note 2Torque ratings are at maximum misalignment.9000000000000000000000000000000000000	Temperature	-10°F to 150°F (-23°C to 65°C)	Finish Specification	
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 application.Note 4Torque 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	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 application. Note 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	Weight (Ibs)	0.597100	UPC	634529088449
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 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	Tariff Code	8483.60.8000	UNSPC	31163008
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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	Note 3	Performance ratings are for guidance only. The user must determine suitability for a particular application.		
	Note 4	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		

assistance.		
AWARNING 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> .		
 Align the bores of the DCDE32-12-10-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 Misialignment:</i> 2.0°, <i>Parallel Misalignment:</i> 0.012 in, <i>Axial Motion:</i> 0.025 in) 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 1.192 in. 		