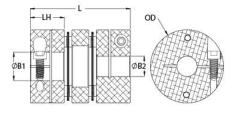




MDCDE19-6-4-A

Ruland MDCDE19-6-4-A, 6mm x 4mm Double Disc Coupling, Aluminum, Clamp Style, Electrically Isolating, 19.1mm OD, 30.2mm Length





Description

Ruland MDCDE19-6-4-A is an electrically isolating clamp double disc coupling with 6mm x 4mm bores, 19.1mm OD, and 30.2mm 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. MDCDE19-6-4-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 MDCDE19-6-4-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. MDCDE19-6-4-A is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

B1 Max Shaft Penetration 14.6 mm B2 Max Shaft Penetration 14.6 mm Outer Diameter (OD) 19.1 mm Bore Tolerance +0.03 mm /-0.00 mm Length (L) 30.2 mm Hub Width (LH) 10.6 mm Recommended Shaft Tolerance +0.000 mm /-0.013 mm Forged Clamp Screw M2.5 Screw Material Alloy Steel Hex Wrench Size 2.0 mm Number of Screws 2 ea Dynamic Torque Reversing 0.70 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 1.40 Nm Parallel Misalignment 0.10 mm Static Torque 2.8 Nm Axial Motion 0.20 mm Torsional Stiffness 5.8 Nm/Deg Moment of Inertia 8.788 x 10 ⁻⁷ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Metric: Hex Keys Material Specification Hub:: 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 A	Froduct Specifications			
Outer Diameter (OD) 19.1 mm Bore Tolerance +0.03 mm / -0.00 mm Length (L) 30.2 mm Hub Width (LH) 10.6 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M2.5 Screw Material Alloy Steel Hex Wrench Size 2.0 mm Screw Finish Black Oxide Seating Torque 1.21 Nm Number of Screws 2 ea Dynamic Torque Reversing 0.70 Nm Angular Misalignment 0.0° Dynamic Torque Non-Reversing 1.40 Nm Parallel Misalignment 0.10 mm Static Torque 2.8 Nm Axial Motion 0.20 mm Torsional Stiffness 5.8 Nm/Deg Moment of Inertia 8.788 x 10 ⁻⁷ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Torque Wrench TW:BT-tR-1/4-10.7 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 Maufacturer Ruland Manufacturing Country of Origin USA	Bore (B1)	6 mm	Small Bore (B2)	4 mm
Length (L) 30.2 mm Hub Width (LH) 10.6 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M2.5 Screw Material Alloy Steel Hex Wrench Size 2.0 mm Screw Finish Black Oxide Seating Torque 1.21 Nm Number of Screws 2 ea Dynamic Torque Reversing 0.70 Nm Angular Misalignment 2.0° Dynamic Torque Reversing 1.40 Nm Parallel Misalignment 0.10 mm Static Torque Non-Reversing 1.40 Nm Axial Motion 0.20 mm Torsional Stiffness 5.8 Nm/Deg Moment of Inertia 8.788 x 10 ⁻⁷ Kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys Material Specification Twp: 30.2 Stainless Steel, Center Temperature -10°F to 150°F (-23°C to 65°C) Finish Specification Sulfuric Anodized MIL-A-8625 Type Black Anodize Matufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.	B1 Max Shaft Penetration	14.6 mm	B2 Max Shaft Penetration	14.6 mm
Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M2.5 Screw Material Alloy Steel Hex Wrench Size 2.0 mm Screw Finish Black Oxide Seating Torque 1.21 Nm Number of Screws 2 ea Dynamic Torque Reversing 0.70 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 1.40 Nm Parallel Misalignment 0.10 mm Static Torque 2.8 Nm Axial Motion 0.20 mm Torsional Stiffness 5.8 Nm/Deg Moment of Inertia 8.788 x 10' ⁷ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW/BT-1R-1/4-10.7 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Bar, Disc Springs Type 302 Stainless Steel, Center Spacer: Accetal Temperature -10°F to 150°F (-23°C to 65°C) Finish Specification Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM E580 Type B Black Anodize Manufacturer Ruland Manufacturing Country of Origin USA Weight (Ibs) 0.040000 UPC 634529089	Outer Diameter (OD)	19.1 mm	Bore Tolerance	+0.03 mm / -0.00 mm
Screw Material Alloy Steel Hex Wrench Size 2.0 mm Screw Finish Black Oxide Seating Torque 1.21 Nm Number of Screws 2 ea Dynamic Torque Reversing 0.70 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 1.40 Nm Parallel Misalignment 0.10 mm Static Torque 2.8 Nm Axial Motion 0.20 mm Torsional Stiffness 5.8 Nm/Deg Moment of Inertia 8.788 × 10 ⁻⁷ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW/BT-1R-1/4-10.7 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 Maufacturer Ruland Manufacturing Country of Origin USA Weight (lbs) 0.040000 UPC 634529089279 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1	Length (L)	30.2 mm	Hub Width (LH)	10.6 mm
Screw Finish Black Oxide Seating Torque 1.21 Nm Number of Screws 2 ea Dynamic Torque Reversing 0.70 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 1.40 Nm Parallel Misalignment 0.10 mm Stait Torque 2.8 Nm Axial Motion 0.20 mm Torsional Stiffness 5.8 Nm/Deg Moment of Inertia 8.788 x 10 ⁻⁷ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 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 (Ibs) 0.040000 UPC 634529089279 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	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Clamp Screw	M2.5
Number of Screws 2 ea Dynamic Torque Reversing 0.70 Nm Angular Misalignment 2.0° Dynamic Torque Non-Reversing 1.40 Nm Parallel Misalignment 0.10 mm Static Torque 2.8 Nm Axial Motion 0.20 mm Torsional Stiffness 5.8 Nm/Deg Moment of Inertia 8.788 x 10 ⁻⁷ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-IR-1/4-10.7 Recommended Hex Key Metric Hex Keys Material Specification Hubs: 2024-T351 Bar, Disc Springs Type 302 Stainless Steel, Center Spacer: Accetal 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) 0.04000 UPC 634529089279 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	Screw Material	Alloy Steel	Hex Wrench Size	2.0 mm
Angular Misalignment 2.0° Dynamic Torque Non-Reversing 1.40 Nm Parallel Misalignment 0.10 mm Static Torque 2.8 Nm Axial Motion 0.20 mm Torsional Stiffness 5.8 Nm/Deg Moment of Inertia 8.788 x 10 ⁻⁷ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 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) 0.04000 UPC 634529089279 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 c	Screw Finish	Black Oxide	Seating Torque	1.21 Nm
Parallel Misalignment 0.10 mm Static Torque 2.8 Nm Axial Motion 0.20 mm Torsional Stiffness 5.8 Nm/Deg Moment of Inertia 8.788 x 10 ⁻⁷ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-IR-1/4-10.7 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) 0.040000 UPC 634529089279 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. 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 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	Number of Screws	2 ea	Dynamic Torque Reversing	0.70 Nm
Axial Motion 0.20 mm Torsional Stiffness 5.8 Nm/Deg Moment of Inertia 8.788 x 10 ⁻⁷ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 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) 0.040000 UPC 634529089279 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 unders	Angular Misalignment	2.0°	Dynamic Torque Non-Reversing	1.40 Nm
Moment of Inertia 8.788 x 10 ⁻⁷ kg-m ² Maximum Speed 10,000 RPM Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Torque Wrench TW:BT-1R-1/4-10.7 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) 0.04000 UPC 634529089279 Tariff Code 8483.60.8000 UNSPC 31163008 Note 1 Stainless steel hubs are available upon request. Note 2 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	0.10 mm	Static Torque	2.8 Nm
Full Bearing Support Required?YesZero-Backlash?YesBalanced DesignYesTorque WrenchTW:BT-1R-1/4-10.7Recommended 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)0.040000UPC634529089279Tariff Code8483.60.8000UNSPC31163008Note 1Stainless steel hubs are available upon request.Stainless steel hubs are available upon request.Note 2Torque ratings are at maximum misalignment.Torque 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		Torsional Stiffness	5.8 Nm/Deg
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Type 302 Stainless Steel, Center Spacer: AcetalTemperature-10°F to 150°F (-23°C to 65°C)Finish SpecificationSulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black AnodizeManufacturerRuland ManufacturingCountry of OriginUSAWeight (lbs)0.040000UPC634529089279Tariff 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. 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-1R-1/4-10.7</u>
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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)	0.040000	UPC	634529089279
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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 MDCDE19-6-4-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> 0.10 mm, <i>Axial Motion:</i> 0.20 mm) Fully tighten the M2.5 screw on the first hub to the recommended seating torque of 1.21 Nm using a 2.0 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 14.6 mm. 			