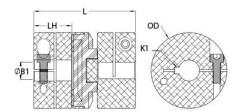




MOCC25-12-A

Ruland MOCC25-12-A, 12mm Oldham Coupling Hub, Aluminum, Clamp Style With Keyway, 25.4mm OD, 11.9mm Length





Description

Ruland MOCC25-12-A is a clamp oldham coupling hub with a 12mm bore, 4mm keyway, 25.4mm OD, and 11.9mm length. It is a component of a three-piece design consisiting of two anodized aluminum hubs press fit onto a center disk. This three-piece design allows for a highly customizable coupling that easily combines clamp or set screw hubs with inch, metric, keyed, and keyless bores. Disks are available in three materials allowing the user to tailor coupling performance to their application. MOCC25-12-A can accommodate all forms of misalignment and is especially useful in applications with high parallel misalignment (up to 10% of the OD). It operates with low bearing loads protecting sensitive system components such as bearings and has a balanced design for reduced vibration at speeds up to 6,000 RPM. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. MOCC25-12-A is machined from bar stock that is sourced exclusively from North American mills and is RoHS3 and REACH compliant. It is manufactured in our Marlborough, MA factory under strict controls using proprietary processes.

Product Specifications

B1 Max Shaft Penetration 11.9 mm 11.85 mm 11.85 mm Recommended Shaft Tolerance +0.03 mm / -0.00 mm Hub Width (LH) 11.85 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm Recommended Shaft Tolerance +0.000 mm / -0.013 mm +0.000 mm / -0.000 mm / -0.	Product opecifications			
ore Tolerance +0.03 mm / -0.00 mm	Bore (B1)	12 mm	Keyway (K)	4 mm
Personal Content of Co	Outer Diameter (OD)	25.4 mm	B1 Max Shaft Penetration	11.9 mm
Driged Clamp Screw M3 Number of Screws 1 ea Crew Material Alloy Steel Screw Finish Black Oxide Bating Torque 2.1 Nm Hex Wrench Size 2.5 mm Corque Specifications Torque ratings vary with insert selection Torque ratings vary with insert selection Angular Misalignment 0.00 in (0.20 mm) Max Parallel Misalignment 0.100 in (2.54 mm) Angular Misalignment 0.004 in (0.10 mm) Moment of Inertia 1.294 x 10 ⁻⁶ kg-m² Aximum Speed 4,500 RPM Recommended Inserts OD16/25-AT. OD16/25-NL., OD16/25-PEK Aguil Bearing Support Required? Yes Zero-Backlash? Yes Alalanced Design Yes Mechanical Fuse? Yes PC 634529116579 Country of Origin USA aterial Specification 2024-T351 Aluminum Bar Finish Black Anodized Il, Class 2 and ASTM B580 Type B Black Anodize Black Anodize Acetal Disk -10°F to 150°F (-23°C to 54°C) PEEK Disk -10°F to 1300°F (-23°C to 148°C) Ariff Code 8483.60.8000 UNSPC 31163015 Torque ratings for the couplings are based on the physical limitations/failure point of the torque disks. Under of a mormal/typical conditions the hubs are capable of holding up to the rated torque of the disks. Please consult of the corpulation of the torque disks. Under Corpus Andread Corpus Co	Bore Tolerance	+0.03 mm / -0.00 mm	Hub Width (LH)	11.85 mm
Alloy Steel Screw Finish Black Oxide aating Torque 2.1 Nm Hex Wrench Size 2.5 mm orque Specifications Torque ratings vary with insert selection arallel Misalignment 0.008 in (0.20 mm) Max Parallel Misalignment 0.100 in (2.54 mm) xial Motion 0.004 in (0.10 mm) Moment of Inertia 1.294 x 10.6 kg-m² aximum Speed 4,500 RPM Recommended Inserts OD16/25-AT, OD16/25-NL, OD16/25-PEK till Bearing Support Required? Yes Zero-Backlash? Yes alanced Design Yes Mechanical Fuse? Yes PC 634529116579 Country of Origin USA aterial Specification 2024-T351 Aluminum Bar Finish Black Anodized mish Specification Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize pmperature Acetal Disk -10°F to 150°F (-23°C to 54°C)	Length (L)	31.8 mm	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm
Parting Torque 2.1 Nm Hex Wrench Size 2.5 mm Torque Specifications Torque ratings vary with insert selection Torque Specifications Torque ratings vary with insert selection Torque ratings vary with insert selection Torque ratings vary with insert selection Max Parallel Misalignment 0.008 in (0.20 mm) Max Parallel Misalignment 0.100 in (2.54 mm) Axial Motion 0.004 in (0.10 mm) Moment of Inertia 1.294 x 10 ⁻⁶ kg-m ² OD16/25-AT, OD16/25-NL, OD16/25-NL, OD16/25-PEK Accommended Inserts OD16/25-PEK Wes PC G34529116579 Country of Origin USA Atterial Specification Sulfuric Anodized MIL-A-8625 Type Manufacturer II, Class 2 and ASTM B580 Type B Black Anodize Black Anodize Acetal Disk -10°F to 150°F (-23°C to 54°C) PEEK Disk -10°F to 130°F (-23°C to 148°C) PEEK Disk -10°F to 300°F (-23°C to 148°C) PEEK Disk -10°F to 300°F (-23°C to 148°C) PEFK Disk -10°F to 300°F (-23°C to 148°C) PEFF ODE Torque ratings for the couplings are based on the physical limitations/failure point of the torque disks. Under ormal/typical conditions the hubs are capable of holding up to the rated torque of the disks. Please consult	Forged Clamp Screw	M3	Number of Screws	1 ea
Torque ratings vary with insert selection Torque ratings vary with insert selection Angular Misalignment 0.008 in (0.20 mm) Max Parallel Misalignment 0.100 in (2.54 mm) Angular Misalignment 0.100 in (2.54 mm) Moment of Inertia 1.294 x 10°6 kg-m² 2ximum Speed 4,500 RPM Recommended Inserts OD16/25-AT, OD16/25-NL, OD16/25-NL, OD16/25-PEK Wes alanced Design Yes PC 634529116579 Country of Origin USA Alterial Specification Sulfuric Anodized MIL-A-8625 Type Manufacturer II, Class 2 and ASTM B580 Type B Black Anodize Angular Misalignment 0.100 in (2.54 mm) Moment of Inertia 1.294 x 10°6 kg-m² OD16/25-AT, OD16/25-NL, OD16/25-NL, OD16/25-NL, OD16/25-NL, OD16/25-NL, OD16/25-PEK Ves Actional Fuse Wes Angular Misalignment 0.100 in (2.54 mm) 1.294 x 10°6 kg-m² Angular Misalignment 0.100 in (2.54 mm) Max Parallel Misalignment 0.100 in (2.54 mm) 1.294 x 10°6 kg-m² Ves Angular Misalignment 0.100 in (2.54 mm) Max Parallel Misalignment 0.100 in (2.54 mm) 1.294 x 10°6 kg-m² Ves Angular Misalignment 0.100 in (2.54 mm) Max Parallel Misalignment 0.100 in (2.54 mm) 1.294 x 10°6 kg-m² Ves Angular Misalignment 0.100 in (2.54 mm) Moment of Inertia 1.294 x 10°6 kg-m² Ves Country of Origin USA Black Anodized Willand Manufacturing Ruland Manufacturing Weight (lbs) 0.027800 0.027800 UNSPC 31163015 Ote 1 "Now available in stainless steel!" Ote 2 "Performance ratings are for guidance only. The user must determine suitability for a particular application." "Torque ratings for the couplings are based on the physical limitations/failure point of the torque disks. Under orter of the disks. Please consult of the orque of the disks. Please of the disks. Please of the disks. Please of the di	Screw Material	Alloy Steel	Screw Finish	Black Oxide
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Actal Disk -10°F to 150°F (-23°C to 148°C) PEK Difference Ass. 843.60.8000 Will Bearing Support Required? Yes Zero-Backlash? Yes Mechanical Fuse? Yes Country of Origin USA Black Anodized Black Anodized Black Anodized MilA-8625 Type Manufacturer II, Class 2 and ASTM B580 Type B Black Anodize Weight (Ibs) 0.027800 0.027800 Weight (Ibs) Oit 54°C) PEEK Disk -10°F to 300°F (-23°C to 148°C) Vision Disk -10°F to 300°F (-23°C to 148°C) To wavailable in stainless steel!" Oite 3 "Torque ratings for the couplings are based on the physical limitations/failure point of the torque disks. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the disks. Please consult	Axial Motion	0.004 in (0.10 mm)	Moment of Inertia	1.294 x 10 ⁻⁶ kg-m ²
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Acetal Disk -10°F to 130°F (-23°C to 148°C) PEK Disk -10°F to 300°F (-23°C to 148°C) PEK Disk -10°F to 300°F (-23°C to 148°C) PET DISK -10°F to 130°F (-23°C to 148°C) PET DISK -10°F to 130°F (-23°C to 148°C) PET DISK -10°F to 130°F (-23°C to 150°F (Full Bearing Support Required?	Yes	Zero-Backlash?	Yes
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ote 2 "Performance ratings are for guidance only. The user must determine suitability for a particular application." ote 3 "Torque ratings for the couplings are based on the physical limitations/failure point of the torque disks. Under normal/typical conditions the hubs are capable of holding up to the rated torque of the disks. Please consult	Tariff Code	8483.60.8000	UNSPC	31163015
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normal/typical conditions the hubs are capable of holding up to the rated torque of the disks. Please consult	Note 2	"Performance ratings are for guidan	ce only. The user must determine so	uitability for a particular application."
	Note 3	normal/typical conditions the hubs are capable of holding up to the rated torque of the disks. Please consult		

Prop 65

▲ WARNING This product can expose you to the chemical Ethylene Thiourea, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Installation Instructions

- 1. Align the bores of the MOCC25-12-A oldham coupling hubs on the shafts that are to be joined and determine if the misalignment parameters are within the limits of the coupling. (*Angular Misalignment:* 0.5° *Parallel Misalignment:* 0.008 in (0.20 mm), *Axial Motion:* 0.004 in (0.10 mm))
- 2. Rotate the hubs on the shaft so the drive tenons are located 90° from each other.
- 3. Place a torque disk so one groove fits over the drive tenons of a hub and center the disk by hand.
- 4. Insert a shim with the thickness of the coupling's axial motion rating into the groove of the torque disk.
- 5. Slide the tenons of the second hub into the mating groove in the disk until it touches the shim stock.
- 6. Fully tighten the M3 screw(s) on each hub to the recommended seating torque of 2.1 Nm using a 2.5 mm hex torque wrench.
- 7. Remove the shim stock to leave a small gap between the top of the drive tenons and the torque disk to allow for axial movement.