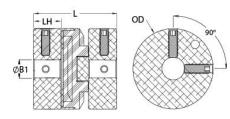




MOST41-14-A

Ruland MOST41-14-A, 14mm Oldham Coupling Hub, Aluminum, Set Screw Style, 41.3mm OD, 18.0mm Length





Description

Ruland MOST41-14-A is a set screw oldham coupling hub with a 14mm bore, 41.3mm OD, and 18.0mm 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. MOST41-14-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. MOST41-14-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

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Angular Misalignment O.5° Parallel Misalignment O.10 in (0.25 mm) Max Parallel Misalignment O.163 in (4.13 mm) Axial Motion O.006 in (0.15 mm) Moment of Inertia 1.560 x 10°5 kg-m² Maximum Speed 4,500 RPM Recommended Inserts OD26/41-AT, OD26/41-NL, OD26/41-NL, OD26/41-PEK Zero-Backlash? Yes Balanced Design Yes Mechanical Fuse? Yes UPC 634529062371 Country of Origin USA Material Specification Sulfuric Anodized Mill-II, Class 2 and ASTM Black Anodize Manufacturer Ruland Manufacturing Temperature Acetal Disk -10°F to 13 to 54°C) PEEK Disk -10°F to 13 to 54°C) PEEK Disk -10°F to 13 to 54°C) PEEK Disk -10°F to 30 to 148°C) Weight (Ibs) UNSPC 31163015 Note 1 "Now available in stainless stee!!" Note 2 "Performance ratings are for guidance only. The user must determine suitability for a particular a Note 3 "Torque ratings for the couplings are based on the physical limitations/failure point of the torque	rioduct opecifications				
Hub Width (LH)	Bore (B1)	14 mm	Outer Diameter (OD)	41.3 mm	
Recommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Set Screw M5 Number of Screws 2 ea 90° apart Screw Material Alloy Steel Screw Finish Black Oxide Seating Torque 4 Nm Hex Wrench Size 2.5 mm Torque Specifications Torque ratings vary wis selection Angular Misalignment 0.5° Parallel Misalignment 0.010 in (0.25 mm) Max Parallel Misalignment 0.163 in (4.13 mm) Axial Motion 0.006 in (0.15 mm) Moment of Inertia 1.560 x 10°5 kg-m² Maximum Speed 4,500 RPM Recommended Inserts OD26/41-AT, OD26/41-NL, OD26/41-NL, OD26/41-PEK Zero-Backlash? Yes Balanced Design Yes Mechanical Fuse? Yes UPC 634529062371 Country of Origin USA Material Specification 2024-T351 Aluminum If, Class 2 and ASTM Black Anodized Finish Black Anodized Finish Specification Sulfuric Anodized MIL-II, Class 2 and ASTM Black Anodize Manufacturer Ruland Manufacturing Temperature Acetal Disk -10°F to 15 to 65°) Nylon Disk -10°F t	B1 Max Shaft Penetration	18.0 mm	Bore Tolerance	+0.03 mm / -0.00 mm	
Number of Screws 2 ea 90° apart Screw Material Alloy Steel	Hub Width (LH)	18.0 mm	Length (L)	50.8 mm	
Screw Finish Black Oxide Seating Torque 4 Nm	Recommended Shaft Tolerance	+0.000 mm / -0.013 mm	Forged Set Screw	M5	
Hex Wrench Size 2.5 mm Torque Specifications Torque ratings vary wis selection Angular Misalignment 0.5° Parallel Misalignment 0.163 in (4.13 mm) Axial Motion 0.006 in (0.15 mm) Moment of Inertia 1.560 x 10°5 kg·m² Maximum Speed 4,500 RPM Recommended Inserts OD26/41-AT, OD26/41-NL, OD26/41-NL, OD26/41-PEK Zero-Backlash? Yes Balanced Design Yes Mechanical Fuse? Yes UPC 634529062371 Country of Origin USA Material Specification Sulfuric Anodized MIL-II, Class 2 and ASTM E Black Anodize Manufacturer Ruland Manufacturing Temperature Acetal Disk -10°F to 13 to 54°C) PEEK Disk -10°F to 30 to 148°C) Weight (lbs) 0.143200 Tariff Code 8483.60.8000 Weight (lbs) Note 1 "Now available in stainless steel!" Note 2 "Performance 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 torque	Number of Screws	2 ea 90° apart	Screw Material	Alloy Steel	
Angular Misalignment O.5° Parallel Misalignment O.10 in (0.25 mm) Max Parallel Misalignment O.163 in (4.13 mm) Axial Motion O.006 in (0.15 mm) Moment of Inertia O.26/41-AT, OD26/41-NL, OD26/41-NL, OD26/41-PEK Zero-Backlash? Yes Balanced Design Yes Mechanical Fuse? Yes UPC O34529062371 Country of Origin USA Material Specification Sulfuric Anodized Mill-II, Class 2 and ASTM Black Anodize Manufacturer Ruland Manufacturing Temperature Acetal Disk -10°F to 13 to 54°C) PEEK Disk -10°F to 13 to 54°C) PEEK Disk -10°F to 30 to 148°C) Weight (Ibs) O.143200 Tariff Code Sulfuric Anodized Sulfuric Anodized Tariff Code Sulfuric Anodized Measurement of 118°C) Weight (Ibs) O.143200 Tariff Code Sulfuric Anodized Sulfuric Anodized Sulfuric Anodized Measurement of 118°C) Weight (Ibs) O.143200 Tariff Code Sulfuric Anodized Sulfuric Anodized Sulfuric Anodized Measurement of 118°C) Weight (Ibs) O.143200 Tariff Code Sulfuric Anodized Sulfuric Anodized Sulfuric Anodized Measurement of 118°C) Weight (Ibs) O.143200 Tariff Code Sulfuric Anodized Sulfuric Anodized Sulfuric Anodized Measurement of 118°C) Weight (Ibs) O.143200 Tariff Code Sulfuric Anodized Sulfuric Anodized Sulfuric Anodized Measurement of 118°C) Weight (Ibs) O.143200 Tariff Code Sulfuric Anodized Sulfuric Anodized Sulfuric Anodized Measurement of 118°C Sulfuric Anodized	Screw Finish	Black Oxide	Seating Torque	4 Nm	
Max Parallel Misalignment 0.163 in (4.13 mm) Axial Motion 0.006 in (0.15 mm) Moment of Inertia 1.560 x 10° kg-m² Maximum Speed 4,500 RPM Recommended Inserts OD26/41-AT, OD26/41-NL, OD26/41-NL, OD26/41-NL, OD26/41-PEK Full Bearing Support Required? Yes Zero-Backlash? Yes Balanced Design Yes Mechanical Fuse? Yes UPC 634529062371 Country of Origin USA Material Specification 2024-T351 Aluminum Finish Black Anodized Finish Specification Sulfuric Anodized MIL-II, Class 2 and ASTM IE Black Anodize Manufacturer Ruland Manufacturing Temperature Acetal Disk -10°F to 18 to 65°) Nylon Disk -10°F to 13 to 54°C) PEEK Disk -10°F to 13 to 65°) Weight (lbs) 0.143200 Tariff Code 8483.60.8000 UNSPC 31163015 Note 1 "Now available in stainless steel!" Note 2 "Performance 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 torque	Hex Wrench Size	2.5 mm	Torque Specifications	Torque ratings vary with insert selection	
Moment of Inertia 1.560 x 10 ⁻⁵ kg·m² Maximum Speed 4,500 RPM Recommended Inserts OD26/41-AT, OD26/41-NL, OD26/41-NL, OD26/41-PEK Zero-Backlash? Yes Balanced Design Yes Mechanical Fuse? Yes Mechanical Fuse? Yes Material Specification USA Material Specification Sulfuric Anodized MIL-II, Class 2 and ASTM E Black Anodize Manufacturer Ruland Manufacturing Temperature Ruland Manufacturing Temperature Ruland Manufacturing Temperature Acetal Disk ·10°F to 18 to 65°) Nylon Disk ·10°F to 18 to 65°) Nylon Disk ·10°F to 30 to 148°C) PEEK Disk ·10°F to 30 to 148°C Weight (Ibs) 0.143200 Tariff Code 3483.60.8000 UNSPC 31163015 Note 1 "Now available in stainless steel!" Note 2 "Performance ratings are for guidance only. The user must determine suitability for a particular a proper to the physical limitations/failure point of the torque Torque ratings for the couplings are based on the physical limitations/failure point of the torque	Angular Misalignment	0.5°	Parallel Misalignment	0.010 in (0.25 mm)	
Recommended Inserts OD26/41-AT, OD26/41-NL, OD26/41-NL, OD26/41-PEK Zero-Backlash? Yes Balanced Design Yes Mechanical Fuse? Yes UPC 634529062371 Country of Origin USA Material Specification Finish Black Anodized Finish Specification Sulfuric Anodized MIL-II, Class 2 and ASTM Black Anodize Manufacturer Ruland Manufacturing Temperature Acetal Disk -10°F to 18 to 65°) Nylon Disk -10°F to 13 to 54°C) PEEK Disk -10°F to 30 to 148°C) Weight (Ibs) 0.143200 Tariff Code 8483.60.8000 UNSPC 31163015 Note 1 "Now available in stainless steel!" Note 2 "Performance ratings are for guidance only. The user must determine suitability for a particular a point of the torque only. The user must determine suitability for a particular a proper of the couplings are based on the physical limitations/failure point of the torque of the couplings are based on the physical limitations/failure point of the torque	Max Parallel Misalignment	0.163 in (4.13 mm)	Axial Motion	0.006 in (0.15 mm)	
OD26/41-PEK	Moment of Inertia	1.560 x 10 ⁻⁵ kg-m ²	Maximum Speed	4,500 RPM	
Mechanical Fuse? Yes UPC 634529062371 Country of Origin USA Material Specification 2024-T351 Aluminum In 2024	Recommended Inserts	· · · · · · · · · · · · · · · · · · ·	Full Bearing Support Required?	Yes	
Country of Origin Finish Black Anodized Finish Specification Black Anodized Finish Specification Sulfuric Anodized MIL-II, Class 2 and ASTM E Black Anodize Manufacturer Ruland Manufacturing Temperature Acetal Disk -10°F to 15 to 65°) Nylon Disk -10°F to 13 to 54°C) PEEK Disk -10°F to 30 to 148°C) Weight (Ibs) 0.143200 Tariff Code 8483.60.8000 UNSPC 31163015 Note 1 "Now available in stainless steel!" Note 2 "Performance ratings are for guidance only. The user must determine suitability for a particular a Note 3 "Torque ratings for the couplings are based on the physical limitations/failure point of the torque	Zero-Backlash?	Yes	Balanced Design	Yes	
Finish Black Anodized Finish Specification Sulfuric Anodized MIL- II, Class 2 and ASTM E Black Anodize Manufacturer Ruland Manufacturing Temperature Acetal Disk -10°F to 15 to 65°) Nylon Disk -10°F to 13 to 54°C) PEEK Disk -10°F to 30 to 148°C) Weight (Ibs) 0.143200 Tariff Code 8483.60.8000 UNSPC 31163015 Note 1 "Now available in stainless steel!" Note 2 "Performance ratings are for guidance only. The user must determine suitability for a particular a Note 3 "Torque ratings for the couplings are based on the physical limitations/failure point of the torque	Mechanical Fuse?	Yes	UPC	634529062371	
Manufacturer Ruland Manufacturing Temperature Acetal Disk -10°F to 15 to 65°) Nylon Disk -10°F to 13 to 54°C) PEEK Disk -10°F to 30 to 148°C) Weight (lbs) 0.143200 Tariff Code 8483.60.8000 UNSPC 31163015 Note 1 "Now available in stainless steel!" Note 2 "Performance ratings are for guidance only. The user must determine suitability for a particular at Note 3 "Torque ratings for the couplings are based on the physical limitations/failure point of the torque	Country of Origin	USA	Material Specification	2024-T351 Aluminum Bar	
to 65°) Nylon Disk -10°F to 13 to 54°C) PEEK Disk -10°F to 30 to 148°C) Weight (lbs) 0.143200 Tariff Code 8483.60.8000 UNSPC 31163015 Note 1 "Now available in stainless steel!" Note 2 "Performance ratings are for guidance only. The user must determine suitability for a particular at the suitability for a particula	Finish	Black Anodized	Finish Specification	Sulfuric Anodized MIL-A-8625 Type II, Class 2 and ASTM B580 Type B Black Anodize	
UNSPC 31163015 Note 1 "Now available in stainless steel!" Note 2 "Performance ratings are for guidance only. The user must determine suitability for a particular at the sui	Manufacturer	Ruland Manufacturing	Temperature	Nylon Disk -10°F to 130°F (-23°C to 54°C) PEEK Disk -10°F to 300°F (-23°C	
Note 1 "Now available in stainless steel!" Note 2 "Performance ratings are for guidance only. The user must determine suitability for a particular a Note 3 "Torque ratings for the couplings are based on the physical limitations/failure point of the torque	Weight (lbs)	0.143200	Tariff Code	8483.60.8000	
Note 2 "Performance ratings are for guidance only. The user must determine suitability for a particular a Note 3 "Torque ratings for the couplings are based on the physical limitations/failure point of the torque	UNSPC	31163015			
Note 3 "Torque ratings for the couplings are based on the physical limitations/failure point of the torque	Note 1	"Now available in stainless steel!"			
	Note 2	"Performance ratings are for guidance only. The user must determine suitability for a particular application."			
	Note 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. 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 disks. Keyways are available to provide additional 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 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

- Align the bores of the MOST41-14-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:* 0.010 in (0.25 mm), *Axial Motion:* 0.006 in (0.15 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 M5 screw(s) on each hub to the recommended seating torque of 4 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.