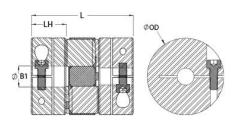




MJC41-12-A

Ruland MJC41-12-A, 12mm Jaw Coupling Hub, Aluminum, Clamp Style, 41.3mm OD, 18.0mm Length





Description

Ruland MJC41-12-A is a clamp zero-backlash jaw coupling hub with a 12mm bore, 41.3mm OD, and 18.0mm length. It is a component in a three-piece design consisiting of two aluminum hubs and an elastomeric insert called the spider creating a lightweight low inertia coupling capable of speeds up to 8,000 RPM. 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. Spiders are available in three durometers allowing the user to tailor coupling performance to their application. Ruland jaw couplings have a balanced design for reduced vibration at high speeds. Hardware is metric and tests beyond DIN 912 12.9 standards for maximum torque capabilities. MJC41-12-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

| Later Diameter (OD) 1.625 in (41.3 mm) 1.625 in (41 | r roudet opecifications | | | |
|--|------------------------------|---|--------------------------------|--------------------------------|
| Length (L) 18.05 mm Length (L) 2.086 in (53.0 mm) Alloy Steel Al | Bore (B1) | 12 mm | B1 Max Shaft Penetration | 18.0 mm |
| accommended Shaft Tolerance +0.000 mm / -0.013 mm Forged Clamp Screw M4 Lamber of Screws 1 ea Screw Material Alloy Steel Larew Finish Black Oxide Hex Wrench Size 3.0 mm Lating Torque 4.6 Nm Torque Specifications Torque ratings vary with insert selection Lating Torque Misalignment ratings vary with insert selection Lating Torque Specifications Torque ratings vary with insert selection Lating Torque Specifications Torque ratings vary with insert selection Lating Torque Specifications Specifications Torque ratings vary with insert selection Lating Torque Specifications Lating Support Required? Yes Lating Support Support | Outer Diameter (OD) | 1.625 in (41.3 mm) | Bore Tolerance | +0.03 mm / -0.00 mm |
| timber of Screws 1 ea Screw Material Alloy Steel Screw Finish Black Oxide Hex Wrench Size 3.0 mm | Hub Width (LH) | 18.05 mm | Length (L) | 2.086 in (53.0 mm) |
| Black Oxide Hex Wrench Size 3.0 mm Torque Specifications Torque ratings vary with insert selection | Recommended Shaft Tolerance | +0.000 mm / -0.013 mm | Forged Clamp Screw | M4 |
| A.6 Nm Torque Specifications Torque ratings vary with insert selection Misalignment ratings vary with insert selection Misalignment ratings vary with insert selection Dement of Inertia 1.637 × 10 ⁻⁵ kg-m ² Full Bearing Support Required? Yes Decommended Inserts JD26/41-98R, JD26/41-92Y Zero-Backlash? Yes Palanced Design Yes Fail Safe? Yes Peight (lbs) 0.149700 Temperature -10°F to 180°F (-23°C to 82°C) Attential Specification 2024-T351 Aluminum Bar Finish Bright Decommended Gap Between 0.050 in (1.25 mm) Country of Origin USA Decommended Gap Between O.050 in (1.25 mm) Country of Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin USA Decommended Gap Between O.050 in (1.25 mm) Temperature Origin | Number of Screws | 1 ea | Screw Material | Alloy Steel |
| selection Misalignment ratings vary with insert selection Maximum Speed 8,000 RPM Pull Bearing Support Required? Yes Secommended Inserts JD26/41-98R, JD26/41-92Y Zero-Backlash? Yes Palanced Design Yes Fail Safe? Yes Peling Specification 2024-T351 Aluminum Bar Finish Bright Properties Bright, No Plating Manufacturer Ruland Manufacturing Decommended Gap Between Jobs PC 634529067826 UNSPC 31163011 Stainless steel hubs are available upon request. Dete 1 Stainless steel hubs are available upon request. Dete 2 Performance ratings are for guidance only. The user must determine suitability for a particular application are capses. Performance ratings are capable of holding up to the nominal torque of the spiders. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage or shaft is possible below the nominal torque of the spiders. Keyways are available to provide additional torcapacity in the shaft/hub connection when required. Please consult technical support for more assistance of California to cause cancer and birth defects or other reproductive harm. For more information go to | Screw Finish | Black Oxide | Hex Wrench Size | 3.0 mm |
| insert selection Insert I | Seating Torque | 4.6 Nm | Torque Specifications | , , |
| alanced Design Yes Fail Safe? Yes eight (lbs) 0.149700 Temperature -10°F to 180°F (-23°C to 82°C) aterial Specification Dish Specification Prinish Dish Specification Bright, No Plating Manufacturer Ruland Manufacturing Dish Country of Origin USA 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 | Misalignment | | Maximum Speed | 8,000 RPM |
| Alanced Design Yes Fail Safe? Yes eight (lbs) 0.149700 Temperature -10°F to 180°F (-23°C to 82°C) aterial Specification 2024-T351 Aluminum Bar Finish Bright Ruland Manufacturing Country of Origin USA UNSPC 31163011 Stainless steel hubs are available upon request. Determination Torque ratings for the couplings are based on the physical limitations/failure point of the spiders. Under normal/typical conditions the hubs are capable of holding up to the nominal torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. Keyways are available to provide additional torque of the spiders. For more information go to the control of the spiders of the spiders. | Moment of Inertia | 1.637 x 10 ⁻⁵ kg-m ² | Full Bearing Support Required? | Yes |
| eight (Ibs) 0.149700 Temperature -10°F to 180°F (-23°C to 82°C) aterial Specification 2024-T351 Aluminum Bar Finish Bright Ruland Manufacturing Country of Origin USA Country of Origin USA Country of Origin Bright, No Plating Country of Origin USA Country of Origin Country | Recommended Inserts | JD26/41-98R, JD26/41-92Y | Zero-Backlash? | Yes |
| Acterial Specification Dish Specification Bright, No Plating Country of Origin Dish Country of Origin DISA DISH | Balanced Design | Yes | Fail Safe? | Yes |
| Process and the specification and the specification and the specification are commended Gap Between and the specification and the specification and the specification and the specification are specification and the specification are specification and the specification and the specification are specification and the specification and the specification are specification and the specification are specification and the specification and the specification and the specification are specification and the specificat | Weight (lbs) | 0.149700 | Temperature | -10°F to 180°F (-23°C to 82°C) |
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| PC 634529067826 UNSPC 31163011 Ariff Code 8483.60.8000 Stainless steel hubs are available upon request. Performance ratings are for guidance only. The user must determine suitability for a particular application of the 3 Torque ratings for the couplings are based on the physical limitations/failure point of the spiders. Under normal/typical conditions the hubs are capable of holding up to the nominal torque of the spiders. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage or shaft is possible below the nominal torque of the spiders. Keyways are available to provide additional torce capacity in the shaft/hub connection when required. Please consult technical support for more assistance of California to cause cancer and birth defects or other reproductive harm. For more information go to | Finish Specification | Bright, No Plating | Manufacturer | Ruland Manufacturing |
| Stainless steel hubs are available upon request. Performance ratings are for guidance only. The user must determine suitability for a particular application of the spiders. Under normal/typical conditions the hubs are capable of holding up to the nominal torque of the spiders. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage or shaft is possible below the nominal torque of the spiders. Keyways are available to provide additional torce capacity in the shaft/hub connection when required. Please consult technical support for more assistance of California to cause cancer and birth defects or other reproductive harm. For more information go to | Recommended Gap Between Hubs | 0.050 in (1.25 mm) | Country of Origin | USA |
| Stainless steel hubs are available upon request. Performance ratings are for guidance only. The user must determine suitability for a particular application onto a case, especially when the smallest standard bores are used or where shafts are undersized, slippage or shaft is possible below the nominal torque of the spiders. Keyways are available to provide additional torque of the shaft/hub connection when required. Please consult technical support for more assistance cape 65 MARNING 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 | UPC | 634529067826 | UNSPC | 31163011 |
| 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 spiders. Under normal/typical conditions the hubs are capable of holding up to the nominal torque of the spiders. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage or shaft is possible below the nominal torque of the spiders. Keyways are available to provide additional torque apacity in the shaft/hub connection when required. Please consult technical support for more assistance AWARNING 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 | Tariff Code | 8483.60.8000 | | |
| Torque ratings for the couplings are based on the physical limitations/failure point of the spiders. Under normal/typical conditions the hubs are capable of holding up to the nominal torque of the spiders. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage or shaft is possible below the nominal torque of the spiders. Keyways are available to provide additional torque of the spiders. For more assistance capacity in the shaft/hub connection when required. Please consult technical support for more assistance was a specially 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 | Note 1 | Stainless steel hubs are available upon request. | | |
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| op 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 | Note 3 | Torque ratings for the couplings are based on the physical limitations/failure point of the spiders. Under normal/typical conditions the hubs are capable of holding up to the nominal torque of the spiders. In some cases, especially when the smallest standard bores are used or where shafts are undersized, slippage on the shaft is possible below the nominal torque of the spiders. Keyways are available to provide additional torque capacity in the shaft/hub connection when required. Please consult technical support for more assistance. | | |
| | Prop 65 | California to cause cancer and birth defects or other reproductive harm. For more information go to | | |

Installation Instructions

1. Align the bores of the MJC41-12-A jaw coupling hubs on the shafts that are to be joined and

- determine if the misalignment parameters are within the limits of the coupling. (See spider for misalignment parameters.)
- 2. Fully tighten the M4 screw(s) on the first hub to the recommended seating torque of 4.6 Nm using a 3.0 mm hex torque wrench.
- 3. Insert a spider into the jaws of one hub until the raised points contact the base of the hub.
- 4. Insert the jaws of the second hub into the spider openings until the raised points contact the base of the second hub. Some force will be required to insert the second hub. This is normal.
- 5. Assure that a gap is maintained between the two hubs so there is no metal to metal contact. Fully tighten the screw(s) on the second hub to the recommended seating torque.