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ASHATA UCP205 25mm Self-Aligning Pillow Block Bearing Instruction Manual

Model: UCP205

1. PRODUCT OVERVIEW

The ASHATA UCP205 is a self-aligning pillow block bearing designed for various machinery applications. This bearing features a 25mm inner diameter and a 52mm outer diameter, constructed from premium bearing steel with a durable cast iron housing. It is engineered to correct its own alignment during operation, ensuring smooth performance and extended lifespan.

Key Features:

- Widely used in various machinery.
- Self-aligning capability to correct alignment during rotation.
- Two sealed rubber rings to prevent ingress of dirt, water, and foreign matter.
- Cast iron housing for increased bearing lifespan.
- Made from premium bearing steel for durability and reliability.



Image 1.1: A pair of ASHATA UCP205 self-aligning pillow block bearings, showcasing their robust design and integrated grease fittings.

2. INSTALLATION AND SETUP

Proper installation is crucial for the optimal performance and longevity of your ASHATA UCP205 pillow block bearings. Follow these general guidelines:

- 1. Preparation:** Ensure the mounting surface is clean, flat, and free from burrs or debris. Verify that the shaft diameter matches the bearing's inner diameter (25mm).
- 2. Mounting:** Slide the bearing onto the shaft. Position the pillow block housing on the mounting surface, aligning the bolt holes.
- 3. Securing:** Insert appropriate bolts through the housing and into the mounting surface. Gradually tighten the bolts in a cross-pattern to ensure even pressure. Do not overtighten initially.
- 4. Shaft Alignment:** The self-aligning feature allows for minor angular misalignment. Ensure the shaft rotates freely without binding after initial tightening.
- 5. Final Tightening:** Once the shaft is properly aligned and rotates freely, fully tighten the mounting bolts to the manufacturer's recommended torque specifications (if available for your specific application).

6. **Lubrication:** Before initial operation, ensure the bearing is adequately lubricated. The UCP205 bearings are typically pre-lubricated, but additional grease may be required depending on the application and operating conditions. Use a suitable grease gun with the integrated grease fitting.



Image 2.1: ASHATA UCP205 bearing illustrating its inner diameter of 25mm and outer diameter of 52mm, critical for proper shaft fitment.

3. OPERATION GUIDELINES

Once installed, the ASHATA UCP205 bearings are designed for reliable operation. Observe the following guidelines:

- **Initial Run-in:** During the first few hours of operation, monitor the bearings for any unusual noise, vibration, or excessive heat.
- **Load Capacity:** Do not exceed the specified radial and axial load capacities for the UCP205 bearing. Refer to technical data sheets for specific load ratings relevant to your application.
- **Speed Limits:** Operate within the recommended speed limits to prevent premature wear and overheating.
- **Environmental Conditions:** While the sealed design offers protection, avoid exposing the bearings to

extreme temperatures, corrosive chemicals, or excessive moisture beyond their design limits.

- This bearing is a self-aligning pillow block bearing which can correct its own alignment once it begins to rotate.
- Two rubber rings sealed to prevent ingress of dirt, water and foreign matter
- Cast iron housing increases life of the bearing
- Made from premium bearing steel, durable and reliable



Image 3.1: Detailed view of the ASHATA UCP205 bearing, emphasizing its self-aligning feature, sealed rubber rings, and robust cast iron housing.

4. MAINTENANCE

Regular maintenance extends the life and ensures the efficiency of your ASHATA UCP205 bearings.

- **Lubrication:** Periodically re-lubricate the bearings using a high-quality lithium-based grease suitable for industrial bearings. The frequency of lubrication depends on operating speed, load, temperature, and environmental conditions. Use the grease fitting provided on the housing.
- **Inspection:** Regularly inspect the bearings for signs of wear, damage, or contamination. Check for unusual noise, vibration, or excessive heat.
- **Cleaning:** Keep the area around the bearings clean to prevent dirt and debris from entering the seals.
- **Tightness Check:** Periodically check the tightness of the mounting bolts to ensure they remain secure.

5. TROUBLESHOOTING

If you encounter issues with your ASHATA UCP205 bearings, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Excessive Noise	Lack of lubrication, contamination, misalignment, worn bearing.	Add grease, clean area, check alignment, replace bearing if worn.
Overheating	Insufficient lubrication, excessive load, high speed, improper fit.	Add grease, reduce load/speed, check shaft fit.
Vibration	Misalignment, unbalanced shaft, worn bearing, loose mounting.	Check alignment, balance shaft, replace bearing, tighten mounting bolts.
Premature Wear	Contamination, inadequate lubrication, excessive load, improper installation.	Ensure clean environment, proper lubrication, verify load, re-install correctly.

6. TECHNICAL SPECIFICATIONS

The following specifications apply to the ASHATA UCP205 pillow block bearings:

- **Type:** UCP205
- **Material:** Bearing steel (for the bearing), Iron (for the housing)
- **Inner Diameter:** 25 mm (0.98 inches)
- **Outer Diameter:** 52 mm (2.05 inches)
- **Product Dimensions (L x W x H):** 15 x 10 x 4 cm (5.9 x 3.9 x 1.6 inches)
- **Weight:** Approximately 1050 g (1.05 kg or 2.31 lbs) per pair
- **Manufacturer:** ASHATA
- **ASIN:** B08XQNJG47
- **Manufacturer Reference:** ASHATAz8ey1umop363
- **Country of Origin:** China

7. WARRANTY INFORMATION

ASHATA products are manufactured to high-quality standards. This product is covered by the standard manufacturer's warranty against defects in materials and workmanship. Please refer to your purchase documentation or contact ASHATA customer support for specific warranty terms and conditions.

8. CUSTOMER SUPPORT

For technical assistance, replacement parts, or any questions regarding the ASHATA UCP205 pillow block bearings, please contact your retailer or the ASHATA customer support team. When contacting support, please have your product model (UCP205) and purchase details readily available.