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VXPUKALZ 81160M 9160

Instruction Manual

VXPUKALZ FLAT THRUST CYLINDRICAL ROLLER BEARING

Model: 81160M 9160

Product Overview

This manual provides essential information for the proper installation, operation, and maintenance of the VXPUKALZ Flat Thrust Cylindrical Roller Bearing, model 81160M 9160. This bearing is designed for applications requiring high axial load capacity and rigidity.



Image 1: Disassembled view of the VXPUKALZ Flat Thrust Cylindrical Roller Bearing, showing the inner ring, outer ring, and the cylindrical roller assembly.



Image 2: Stacked view of the VXPUKALZ Flat Thrust Cylindrical Roller Bearing components, illustrating how the inner and outer rings sandwich the roller assembly.

Setup and Installation

Proper installation is crucial for the bearing's performance and longevity. Follow these general guidelines:

1. **Preparation:** Ensure the mounting surfaces are clean, dry, and free from burrs or foreign particles. Verify that the shaft and housing tolerances are within specifications.
2. **Lubrication:** Apply a thin layer of appropriate lubricant to the bearing surfaces before installation. Consult your equipment's manual for specific lubricant recommendations.
3. **Mounting:**
 - For press-fit applications, use a hydraulic press or induction heater to mount the bearing. Never strike the bearing directly with a hammer.
 - Ensure the bearing is seated squarely and fully against the shoulder or abutment.
 - Verify that the inner and outer rings are correctly oriented according to the application design.
4. **Alignment:** Confirm proper alignment of the shaft and housing to prevent premature wear and failure.

5. **Sealing:** Install appropriate seals to protect the bearing from contaminants and retain lubricant.

Operating Guidelines

To ensure optimal performance and extend the life of your bearing, adhere to the following operating principles:

- **Load Capacity:** Do not exceed the specified axial load capacity for the 81160M 9160 bearing. Overloading can lead to rapid wear and failure.
- **Speed Limits:** Operate the bearing within its recommended speed limits. Excessive speeds can generate heat and cause damage.
- **Temperature:** Monitor operating temperature. Prolonged exposure to high temperatures can degrade lubricant and bearing materials.
- **Vibration:** Minimize excessive vibration, which can indicate misalignment or damage.
- **Contamination Control:** Protect the bearing from dust, moisture, and other contaminants.

Maintenance

Regular maintenance is essential for the longevity and reliability of the bearing.

- **Lubrication:**

Periodically inspect and replenish lubricant as per the equipment manufacturer's recommendations. Use only compatible lubricants.

Note: Over-lubrication can also be detrimental, leading to excessive heat generation.

- **Inspection:** Regularly inspect the bearing for signs of wear, corrosion, or damage. Check for unusual noises or vibrations during operation.
- **Cleaning:** If the bearing is exposed to contaminants, ensure proper cleaning procedures are followed to prevent ingress into the bearing assembly.
- **Replacement:** Replace the bearing if significant wear, pitting, or damage is observed. Do not attempt to repair severely damaged bearings.

Troubleshooting

This section outlines common issues and potential solutions related to bearing performance.

Symptom	Possible Cause	Solution
Excessive Noise	Lack of lubrication, contamination, misalignment, damage to bearing components.	Check lubrication, inspect for contaminants, verify alignment, replace if damaged.
Overheating	Insufficient lubrication, excessive load/speed, improper installation (too tight), contamination.	Ensure proper lubrication, reduce load/speed if possible, re-install correctly, clean.
Premature Wear	Contamination, inadequate lubrication, overloading, misalignment, vibration.	Improve sealing, ensure proper lubrication, operate within limits, correct alignment, reduce vibration.

Specifications

Key technical specifications for the VXPUKALZ Flat Thrust Cylindrical Roller Bearing 81160M 9160:

Attribute	Value
Inner Diameter	300 mm
Outer Diameter	380 mm
Thickness	62 mm
Item Weight	50 Grams
Manufacturer	VXPUKALZ
ASIN	B0DX77192T
Item Model Number	VXPUKALZ
First Available Date	14 Feb. 2025
Package Dimensions	2.54 x 2.54 x 2.54 cm

Warranty and Support

Specific warranty information for this product is not provided in the available data. Please refer to the point of purchase or the manufacturer's official website for detailed warranty terms and conditions.

For technical support or further inquiries, please contact VXPUKALZ customer service through their official channels. Always provide the model number (81160M 9160) and ASIN (B0DX77192T) when seeking support.