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NMD SCE88 OH

NMD SCE88 OH Needle Roller Bearing User Manual

Model: SCE88 OH | Brand: NMD

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your NMD SCE88 OH Needle Roller Bearing. Adhering to these guidelines will ensure optimal performance and extend the lifespan of the bearing. Please read this manual thoroughly before using the product.

PRODUCT OVERVIEW

The NMD SCE88 OH is a premium quality needle roller bearing designed for applications requiring high load capacity within a compact radial space. It features an oil hole for efficient lubrication, contributing to its durability and smooth operation. This bearing is constructed from alloy steel, ensuring robust performance in demanding industrial environments.



Figure 1: An image showing the NMD SCE88 OH Needle Roller Bearing, a cylindrical component with a small oil hole on its side and visible needle rollers inside. The bearing is made of metallic material.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of the needle roller bearing. Follow these general guidelines:

1. **Preparation:** Ensure the shaft and housing bores are clean, free from burrs, and within specified tolerances.
2. **Lubrication:** Apply a thin film of the recommended lubricant (oil) to the bearing surfaces and the shaft/housing before installation.
3. **Mounting:** Use appropriate tools for mounting to avoid damaging the bearing. Press the bearing into place using even pressure on the end face of the outer ring. Never strike the inner ring or rollers directly.
4. **Alignment:** Ensure the bearing is properly aligned with the shaft and housing to prevent uneven load distribution and premature wear.
5. **Post-Installation Check:** After installation, manually rotate the shaft to check for smooth operation and any signs of binding.

For specific application requirements, consult engineering diagrams or professional guidance.

OPERATING PRINCIPLES

Needle roller bearings are designed to carry radial loads and reduce friction in rotating assemblies. The SCE88 OH bearing utilizes small-diameter cylindrical rollers (needles) that are guided by a cage or retained by the outer ring. This design allows for a high load capacity in a small cross-section, making it suitable for

applications where space is limited.

The oil hole facilitates the introduction of lubricant directly to the rolling elements, ensuring continuous lubrication during operation. Proper lubrication is vital for dissipating heat, preventing wear, and maintaining the bearing's efficiency.

MAINTENANCE

Regular maintenance is essential to maximize the life and performance of your NMD needle roller bearing.

- **Lubrication:** The SCE88 OH bearing is designed for oil lubrication. Ensure a consistent supply of the compatible lubricant (oil) through the designated oil hole. Follow the equipment manufacturer's recommendations for lubrication intervals and type.
- **Inspection:** Periodically inspect the bearing for signs of wear, corrosion, or damage. Listen for unusual noises during operation, which may indicate a problem.
- **Cleaning:** Keep the bearing environment clean to prevent contaminants from entering the bearing, which can cause premature wear.
- **Storage:** If storing bearings, keep them in their original packaging in a dry, clean environment to prevent rust and contamination.

TROUBLESHOOTING

Below are common issues that may arise with needle roller bearings and general troubleshooting steps:

- **Excessive Noise:**
 - *Cause:* Insufficient lubrication, contamination, improper installation, or wear.
 - *Solution:* Check lubrication, inspect for contaminants, verify installation, or consider replacement if worn.
- **Overheating:**
 - *Cause:* Over-lubrication, under-lubrication, excessive load, misalignment, or tight fits.
 - *Solution:* Adjust lubrication, reduce load if possible, check alignment, or re-evaluate fits.
- **Premature Wear:**
 - *Cause:* Contamination, inadequate lubrication, excessive vibration, or improper loading.
 - *Solution:* Improve sealing, ensure proper lubrication, address vibration sources, or verify load conditions.

If issues persist, consult a qualified technician or the equipment manufacturer.

SPECIFICATIONS

Attribute	Value
Brand	NMD
Model	SCE88 OH
Inside Diameter	1/2"
Outside Diameter	11/16"

Attribute	Value
Width	1/2"
Material	Alloy Steel
Bearing Type	Roller Bearing
Compatible Lubricant	Oil
Manufacturer	NMD
ASIN	B084Z51VRR
UPC	638563102253

WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your NMD SCE88 OH Needle Roller Bearing, please contact the original seller or the manufacturer directly. Keep your purchase receipt or proof of purchase as it may be required for warranty claims.

Manufacturer: NMD