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› uxcell Deep Groove Ball Bearing 688Z Double Shield User Manual

uxcell 688ZZ

User Manual

uxcell Deep Groove Ball Bearing 688Z Double Shield

INTRODUCTION

This manual provides essential information for the proper use, installation, and maintenance of your uxcell Deep Groove Ball Bearing 688Z Double Shield. Please read this manual thoroughly before use to ensure optimal performance and longevity of the product.

The uxcell 688Z Deep Groove Ball Bearing is a widely used rolling bearing designed to accommodate both radial and axial loads. Its double shield design helps protect against dirt and debris, making it suitable for various industrial applications.

PRODUCT OVERVIEW



Figure 1: uxcell 688Z Deep Groove Ball Bearing, showing its overall appearance.

Chromium Steel



Double Shield

Figure 2: Key features of the bearing, highlighting the Chromium Steel construction and Double Shield design.

What's in the Box

- Deep Groove Ball Bearing (Quantity as per purchase)

SETUP AND INSTALLATION

Proper installation is crucial for the performance and lifespan of the bearing. Ensure the mounting surface is clean and free of burrs or debris.

General Guidelines:

- **Cleanliness:** Always work in a clean environment to prevent contaminants from entering the bearing.
- **Tools:** Use appropriate tools for installation. Avoid direct hammering on the bearing races or shields.
- **Alignment:** Ensure proper alignment during installation to prevent uneven load distribution.
- **Lubrication:** The bearing is pre-lubricated. Do not wash out the original grease unless specified for a particular application.

Installation Steps:

1. Inspect the bearing for any visible damage before installation.
2. Clean the shaft and housing bore thoroughly.
3. For press-fit applications, apply even pressure to the inner or outer ring, depending on which component is being fitted. Never apply force through the balls or shields.
4. Ensure the bearing seats squarely and fully.
5. Verify smooth rotation after installation.

OPERATING PRINCIPLES

The uxcell 688Z Deep Groove Ball Bearing is designed for applications requiring low friction and high-limit speed. It is suitable for accommodating both radial and axial loads.

Key Characteristics:

- **Load Capacity:** Designed to handle radial and moderate axial loads in both directions.
- **Speed:** Suitable for high-speed operation due to its low friction design.
- **Shields:** Double shields (ZZ designation) protect the internal components from dust and debris, extending bearing life in contaminated environments.
- **Material:** Constructed from Chromium Steel (GCr15) for high hardness, wear resistance, and durability.

MAINTENANCE

The uxcell 688Z bearing is designed for low maintenance. As it is pre-lubricated and double-shielded, it generally does not require re-lubrication under normal operating conditions.

General Maintenance Tips:

- **Inspection:** Periodically inspect the bearing for signs of wear, unusual noise, or excessive heat.
- **Cleaning:** Keep the area around the bearing clean to prevent contamination.
- **Storage:** Store bearings in a dry, clean environment to prevent corrosion before installation.
- **Replacement:** Replace bearings showing signs of damage, excessive play, or rough operation.

TROUBLESHOOTING

This section addresses common issues that may arise with ball bearings.

Problem	Possible Cause	Solution
Excessive Noise	Contamination, improper installation, insufficient lubrication (unlikely for pre-lubricated), bearing damage.	Check for contaminants. Re-install correctly. Replace damaged bearing.
Overheating	Overload, misalignment, excessive speed, insufficient clearance.	Reduce load. Correct alignment. Verify operating speed is within limits. Ensure proper fit.
Short Bearing Life	Improper installation, contamination, overloading, vibration, corrosion.	Review installation procedures. Maintain clean environment. Operate within load limits. Address vibration sources. Store properly.

SPECIFICATIONS

Detailed technical specifications for the uxcell 688ZZ Deep Groove Ball Bearing.



Figure 3: Dimensions of the bearing, indicating 8mm inner diameter and 16mm outer diameter.



Figure 4: Thickness of the bearing, measured at 5mm.

Attribute	Value
Model	688ZZ
Shield Type	Double Shield
Cage Material	Stamping Steel
Inner Diameter (d)	8 mm
Outer Diameter (D)	16 mm
Thickness (B)	5 mm
Accuracy Class	P0 (ABEC1)
Noise Level	Z2

Attribute	Value
Material	Chromium Steel (GCr15)
Item Weight	6 Grams

WARRANTY INFORMATION

Specific warranty details for uxcell products are typically provided at the point of purchase or on the official uxcell website. Please retain your proof of purchase for any warranty claims.

For detailed warranty terms and conditions, please refer to the official uxcell support channels or the documentation included with your original purchase.

SUPPORT AND CONTACT

For technical assistance, product inquiries, or support, please contact uxcell customer service through their official channels.

- **Online Support:** Visit the official uxcell website for FAQs, product information, and contact forms.
- **Amazon Store:** You can also visit the [uxcell Store on Amazon](#) for product listings and seller information.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

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Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

