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- > [uxcell](#) /
- > Instruction Manual for uxcell MF63-2RS Flanged Ball Bearings

uxcell MF63-2RS

Instruction Manual

UXCELL MF63-2RS FLANGED BALL BEARINGS

1. Product Overview

The uxcell MF63-2RS Flanged Ball Bearings are precision-engineered components designed for various industrial and mechanical applications. These bearings feature a double-sealed design for enhanced protection and are constructed from durable chrome steel (GCr15) to ensure high hardness and wear resistance, contributing to a long service life. The integrated flange allows for easier mounting and precise positioning in specific applications.



Image: A set of four uxcell MF63-2RS flanged ball bearings, showcasing the product packaging and quantity.



Image: Two MF63-2RS bearings held in a hand, illustrating their compact size and scale.

2. Key Features

- **Size:** MF63-2RS ABEC1 Bearings with an Inner Diameter (I.D.) of 3mm, Outer Diameter (O.D.) of 6mm, and Thickness of 2.5mm. The flange has a diameter of 7mm and a thickness of 0.6mm.
- **Durability:** Constructed with Chrome Steel (GCr15) races, providing high hardness and excellent wear resistance for extended service life.
- **Maintenance:** Equipped with rubber seals on both sides, making them resistant to oil and liquids. They feature a Z1 noise level, suitable for most general applications.
- **Versatile Application:** Ideal for use in various industrial equipment, small rotary motors, office equipment, power tools, lawnmowers, tractors, printers, gearboxes, reducers, and textile machinery.
- **Material Quality:** Chromium Steel (GCr15) races ensure high hardness and great wear resistance, low noise, and long service life.
- **Sealing:** Single-row, pre-lubricated bearings primarily designed to accommodate radial loads.

Model: MF63-2RS

Double Sealed



Chrome Steel (GCr15)

Image: A detailed view of an MF63-2RS bearing, highlighting its double-sealed design and chrome steel construction.

3. Specifications

Product Technical Specifications

Attribute	Value
Bearing Number	MF63-2RS
Inner Diameter (I.D.)	3mm
Outer Diameter (O.D.)	6mm
Thickness	2.5mm
Flange Diameter	7mm

Attribute	Value
Flange Thickness	0.6mm
Material	Chrome Steel (GCr15)
Sealing Type	Double Sealed (2RS)
ABEC Rating	ABEC 1
Noise Level	Z1



Image: Technical diagram illustrating the precise dimensions of the MF63-2RS flanged ball bearing.

4. Setup and Installation

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

1. **Preparation:** Ensure that the shaft and housing bores are clean, free from burrs, and within specified tolerances.
2. **Mounting:** Apply even pressure to the bearing ring that is being pressed onto the shaft or into the housing. Never apply force through the rolling elements or seals. Use a bearing press or a soft-faced hammer with a mounting sleeve.
3. **Alignment:** Ensure the bearing is seated squarely and fully. Misalignment can lead to premature wear and failure.
4. **Lubrication:** These bearings are pre-lubricated. Avoid excessive external lubrication unless specified for your application, as it can attract contaminants.
5. **Sealing:** Verify that the rubber seals are intact and properly seated after installation to maintain protection against dust and moisture.

5. Operating Conditions

While these bearings are designed for durability, their performance and lifespan are influenced by operating conditions:

- **Load:** These bearings are primarily designed to accommodate radial loads. Avoid excessive axial loads beyond their rated capacity.
- **Speed:** Operate within the recommended speed limits for the bearing size and type. Excessive speeds can generate heat and reduce lifespan.
- **Temperature:** Ensure the operating temperature remains within the bearing's specified range. Extreme temperatures can degrade lubrication and material properties.
- **Environment:** Protect bearings from harsh environments, including excessive dust, moisture, and corrosive substances, even with sealed designs.

6. Maintenance

Regular inspection and proper maintenance can significantly extend the life of your bearings:

- **Inspection:** Periodically check for signs of wear, corrosion, or damage to the outer surfaces and seals. Listen for unusual noises during operation.
- **Cleaning:** If bearings are exposed to contaminants, gently clean the exterior. Avoid using harsh solvents that could damage the seals or internal lubrication.
- **Re-lubrication:** For sealed bearings like the MF63-2RS, re-lubrication is generally not required under normal operating conditions. If the application demands it, consult a bearing specialist for appropriate lubricant type and quantity.
- **Storage:** Store spare bearings in a clean, dry environment, ideally in their original packaging, to prevent contamination and corrosion.

7. Troubleshooting

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

Problem	Possible Cause(s)	Solution(s)
Excessive Noise	Contamination, insufficient lubrication, improper installation, excessive load, worn bearing.	Inspect for debris, check lubrication (if applicable), verify installation, reduce load, replace bearing.
Overheating	Excessive speed, insufficient lubrication, misalignment, over-tightening.	Reduce speed, check lubrication, correct alignment, ensure proper torque.

Problem	Possible Cause(s)	Solution(s)
Premature Wear	Contamination, improper load, misalignment, vibration, material fatigue.	Improve sealing, adjust load, correct alignment, mitigate vibration, replace bearing.
Bearing Seizing	Lack of lubrication, severe contamination, extreme overload, material failure.	Replace bearing immediately, identify and address root cause (e.g., lubrication system failure, excessive load).

Note: For complex issues or if solutions are not effective, consult a qualified technician or the manufacturer.

8. Warranty Information

Specific warranty terms for uxcell products are typically provided by the seller or manufacturer at the time of purchase. Please retain your proof of purchase for any warranty claims.

For detailed warranty information, please refer to the documentation included with your product or contact uxcell directly through their official channels.

9. Customer Support

For further assistance, technical inquiries, or to explore other products, please visit the official uxcell store or contact their customer service.

Online Store: [Visit the uxcell Store on Amazon](#)

When contacting support, please have your product model (MF63-2RS) and purchase details ready.

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