



Manuals.plus /

› FUSHIBEARING /

› FUSHIBEARING 24377 Hybrid Ceramic Bearing Instruction Manual

FUSHIBEARING 24377

FUSHIBEARING 24377 Hybrid Ceramic Bearing Instruction Manual

Model: 24377RS

1. PRODUCT OVERVIEW

The FUSHIBEARING 24377 Hybrid Ceramic Bearing is designed for bicycle hub applications, offering enhanced performance and durability. This bearing combines high-quality steel rings with advanced ceramic balls, providing a low-friction, high-speed solution for demanding cycling conditions.



Image 1.1: FUSHIBEARING 24377 Hybrid Ceramic Bearing, showcasing its design with a yellow seal.



Image 1.2: Angled view of the FUSHIBEARING 24377 bearing, highlighting the 'CERAMIC BALL' inscription on its side.

Key Features:

- **Hybrid Ceramic Construction:** Features 52100 Chrome Steel outer and inner rings combined with Si3N4 Ceramic Balls for superior performance.
- **Premium Quality:** Manufactured to ABEC-3 quality standards, ensuring precision and reliability.
- **Dimensions:** Standard size of 24mm (Inner Diameter) x 37mm (Outer Diameter) x 7mm (Width).
- **Sealed Design:** Equipped with dual removable no-contact rubber seals (2RS) for protection against contaminants while allowing for serviceability.
- **Low Friction:** Incorporates a high-speed, low-noise, low-friction nylon cage, optimized for smooth rotation in bicycle hubs.

2. INSTALLATION (SETUP)

Proper installation is crucial for the longevity and performance of your hybrid ceramic bearing. It is recommended that installation be performed by a qualified bicycle mechanic or an individual with experience in bearing replacement.

Required Tools and Materials:

- Bearing press tool with appropriate drifts for 24x37mm bearings.
- Grease (compatible with bicycle components).
- Clean rags or lint-free cloths.
- Degreaser (if cleaning old hub shell).

Installation Steps:

1. **Preparation:** Ensure the hub shell or bottom bracket shell is clean and free of any old grease, dirt, or debris. Use a degreaser if necessary and wipe thoroughly.
2. **Greasing:** Apply a thin, even layer of grease to the bearing seats within the hub or bottom bracket shell. This aids in smooth installation and corrosion prevention.
3. **Bearing Orientation:** Ensure the bearing is oriented correctly before pressing. The FUSHIBEARING logo or model number should typically face outwards, but consult your specific hub or bottom bracket manufacturer's instructions for any specific requirements.
4. **Pressing the Bearing:**
 - Place the bearing onto the appropriate drift of your bearing press tool.
 - Align the bearing and press tool with the bearing seat.
 - Slowly and steadily apply pressure using the bearing press tool. Ensure the bearing enters the seat squarely and without tilting.
 - Continue pressing until the bearing is fully seated against its stop within the hub or bottom bracket shell. Do not over-press.
5. **Repeat for Second Bearing:** If installing two bearings, repeat the process for the second bearing on the opposite side.
6. **Final Assembly:** Reassemble the hub or bottom bracket components according to the manufacturer's instructions, ensuring all spacers and seals are correctly placed.

Caution: *Never use a hammer or impact tools to install bearings, as this can damage the bearing races and compromise performance. Always use a dedicated bearing press.*

3. OPERATION

Once properly installed, the FUSHIBEARING 24377 Hybrid Ceramic Bearing will facilitate smooth and efficient rotation of your bicycle's wheels or bottom bracket. The ceramic balls contribute to reduced friction and heat buildup, leading to improved power transfer and a more fluid riding experience.

The sealed design protects the internal components from dust, dirt, and moisture, ensuring consistent performance in various riding conditions. You should experience quiet and free-spinning operation.

4. MAINTENANCE

While hybrid ceramic bearings are designed for durability and low maintenance, periodic inspection and care can extend their lifespan and maintain optimal performance.

General Maintenance Tips:

- **Regular Cleaning:** Keep the exterior of your hubs and bottom bracket area clean to prevent dirt and grime from migrating into the bearing seals.
- **Seal Inspection:** Periodically inspect the rubber seals (2RS) for any signs of damage, cracking, or wear. Damaged seals can allow contaminants to enter the bearing.

- **Bearing Service (Advanced):** The 2RS seals are removable, allowing for advanced servicing if necessary.
 - Carefully pry off the rubber seals using a thin, non-marring tool (e.g., a pick or small knife).
 - Inspect the internal components for contamination or wear.
 - If necessary, gently clean the bearing with a suitable bearing cleaner, ensuring all old grease and contaminants are removed. Allow to dry completely.
 - Repack the bearing with high-quality, low-friction bearing grease. Do not overfill.
 - Carefully re-install the rubber seals, ensuring they are properly seated.
- **Avoid High-Pressure Washing:** Do not direct high-pressure water sprays directly at bearing areas, as this can force water past the seals and into the bearing.

5. TROUBLESHOOTING

If you experience issues with your FUSHIBEARING 24377 Hybrid Ceramic Bearing, consult the following common problems and solutions:

Problem	Possible Cause	Solution
Roughness or Grinding Sensation	Contamination (dirt, water), lack of lubrication, bearing damage.	Inspect seals. If serviceable, clean and re-grease. If damage is evident or roughness persists, replace the bearing.
Excessive Play (Wobble)	Improper installation (not fully seated), worn bearing, loose hub/bottom bracket components.	Check if bearing is fully seated. Inspect for wear. Ensure all hub/BB components are tightened to manufacturer specifications. Replace if worn.
Squeaking or Clicking Noise	Lack of lubrication, external component rubbing, improper installation.	Check for proper lubrication. Ensure no other bike components are rubbing. Re-check installation for proper seating.

Note: If troubleshooting steps do not resolve the issue, or if you suspect significant damage, it is recommended to replace the bearing.

6. SPECIFICATIONS

Detailed specifications for the FUSHIBEARING 24377 Hybrid Ceramic Bearing:

Attribute	Value
Model Number	24377RS
Structure	Hybrid Ceramic Ball Bearing
Inner Diameter (ID)	24 mm (0.94 inches)
Outer Diameter (OD)	37 mm (1.46 inches)
Width (B)	7 mm (0.28 inches)
Bearing Material	52100 Chrome Steel Rings + Si3N4 Ceramic Balls
Cage Material	Nylon
Closures	Rubber Sealed (2RS)
Lubrication	Grease
Weight	20 Grams (0.71 ounces)
Quality Standard	ABEC-3



Image 6.1: The FUSHIBEARING 24377 bearing displayed on a digital scale, indicating its precise weight of 20 grams.

7. WARRANTY INFORMATION

Specific warranty terms for the FUSHIBEARING 24377 Hybrid Ceramic Bearing are provided by the manufacturer. Please retain your proof of purchase. For detailed warranty coverage, duration, and claim procedures, refer to the documentation included with your purchase or contact FUSHIBEARING directly through their official channels.

Warranty typically covers defects in materials and workmanship under normal use. It generally does not cover damage resulting from improper installation, misuse, neglect, accidents, or normal wear and tear.

8. CUSTOMER SUPPORT

For technical assistance, product inquiries, or support regarding your FUSHIBEARING 24377 Hybrid Ceramic Bearing, please contact the manufacturer or your point of purchase.

When contacting support, please be prepared to provide the following information:

- Product Model: 24377RS
- Date of Purchase

- Description of the issue
- Proof of purchase (receipt or order number)

You may find additional resources and contact information on the official FUSHIBEARING website or through the retailer where the product was purchased.