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## Fafeicy SG25

# Fafeicy SG25 U Groove Track Guide Bearing Instruction Manual

Model: SG25

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## 1. PRODUCT OVERVIEW

The Fafeicy SG25 U Groove Track Guide Bearing is designed for applications requiring precise linear motion and guidance. Constructed from high carbon chrome steel, this bearing offers durability and smooth operation. Its spherical raceway design is suitable for various industrial and mechanical systems.



Figure 1: Top view of the SG25 U Groove Track Guide Bearing, showing the central bore and outer ring.



Figure 2: Side view of the SG25 U Groove Track Guide Bearing, highlighting the U-groove profile.

## 2. SPECIFICATIONS

The following table details the key specifications for the SG25 U Groove Track Guide Bearing:

Feature	Detail
Model Number	SG25
Inner Diameter	8 mm (0.31 inches)
Outer Diameter	30 mm (1.18 inches)
Thickness	14 mm (0.55 inches)
Material	High Carbon Chrome Steel
Roller Guide Type	Spherical Raceway

Feature	Detail
Bearing Type	Deep Groove Ball Bearing



Figure 3: Diagram illustrating the inner diameter, outer diameter, and thickness of the SG25 bearing.

### 3. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of the SG25 U Groove Track Guide Bearing. Follow these general guidelines:

1. **Preparation:** Ensure the mounting surface and track are clean, free from debris, and properly aligned. Any misalignment can lead to premature wear or failure.
2. **Lubrication:** Apply a suitable lubricant to the bearing and track before installation, if not pre-lubricated. Consult your system's lubrication requirements.
3. **Mounting:** Carefully slide the bearing onto its shaft or secure it within its housing. Use appropriate tools to apply even pressure during installation to avoid damaging the bearing races or seals. Do not use excessive force or

strike the bearing directly.

- 4. Alignment:** Verify that the U-groove of the bearing is correctly aligned with its corresponding track. Misalignment can cause binding and increased friction.
- 5. Securing:** Secure the bearing or its assembly according to the design specifications of your application. Ensure all fasteners are tightened to the recommended torque.

*Note:* Always refer to the specific design and assembly instructions of the equipment in which this bearing is being installed.

## 4. OPERATION GUIDELINES

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Once installed, the SG25 bearing is designed for smooth and efficient operation. Adhere to the following guidelines to ensure reliable performance:

- Load Capacity:** Do not exceed the specified load capacity for the bearing. Overloading can lead to premature failure.
- Operating Environment:** Ensure the bearing operates within its intended temperature and environmental conditions. Extreme temperatures or corrosive environments may require specialized lubrication or protection.
- Smooth Movement:** The bearing should move smoothly along its track without excessive friction, noise, or vibration. Any irregularities should be investigated promptly.
- Regular Checks:** Periodically observe the bearing during operation for any signs of wear, damage, or unusual behavior.

## 5. MAINTENANCE

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Regular maintenance extends the lifespan and ensures consistent performance of the SG25 bearing. Establish a maintenance schedule based on your application's operating conditions.

- Cleaning:** Keep the bearing and its track clean from dust, dirt, and other contaminants. Contaminants can cause abrasive wear and reduce bearing life.
- Lubrication:** Re-lubricate the bearing as needed, using the recommended type and amount of lubricant. Over-lubrication can also be detrimental.
- Inspection:** Regularly inspect the bearing for signs of wear, such as pitting, discoloration, or excessive play. Check the integrity of seals, if present.
- Track Condition:** Inspect the track for wear, damage, or obstructions that could affect bearing movement.
- Replacement:** Replace bearings that show significant signs of wear or damage to prevent system failure.

## 6. TROUBLESHOOTING

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This section provides guidance for common issues that may arise with U-groove track guide bearings.

Problem	Possible Cause	Solution
<b>Excessive Noise/Vibration</b>	Lack of lubrication, contamination, misalignment, worn bearing, damaged track.	Check lubrication, clean bearing/track, verify alignment, inspect for wear and replace if necessary.

Problem	Possible Cause	Solution
<b>Rough Movement/Binding</b>	Misalignment, track obstruction, insufficient lubrication, damaged bearing.	Re-align components, clear track, apply lubricant, inspect and replace bearing.
<b>Premature Wear</b>	Overloading, contamination, improper lubrication, misalignment, excessive speed.	Review load/speed limits, improve sealing, ensure proper lubrication, correct alignment.
<b>Overheating</b>	Insufficient lubrication, excessive load, high speed, tight fit.	Check lubrication, reduce load/speed, verify fit tolerances.

## 7. WARRANTY AND SUPPORT

For specific warranty information regarding your Fafeicy SG25 U Groove Track Guide Bearing, please refer to the documentation provided at the time of purchase or contact Fafeicy customer support directly.

### Customer Support:

- For technical assistance, product inquiries, or warranty claims, please visit the official Fafeicy store or contact their support channels.
- Official Fafeicy Store: [Fafeicy Store on Amazon](#)