



Steel Single Row Slewing Bearing Bolted Mounting Type Ideal for Rotating Platforms Cranes and Wind Turbines Applications

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: ZHUOLI
- Certification: ISO9001
- Model Number: RKS. 062.20.0414



Product Specification

- Load Capacity: High
- Rotational Speed: High
- Mounting Type: Bolted
- Bearing Type: Slewing Bearing
- Trademark: Neutral/OEM/According To Customized
- Operating Temperature: -40°C To 80°C
- Material: Steel
- Size: Customizable
- Highlight: **Steel single row slewing bearing,
Slewing bearing for rotating platforms,
Bolted mounting slewing bearing**

Product Description:

The Single Row Slewing Bearing is a high-precision bearing designed to meet the demanding requirements of various heavy-duty applications. Engineered to provide exceptional performance and reliability, this bearing is an essential component in machinery requiring smooth rotational movement and robust load-bearing capabilities. With its advanced design and superior sealing features, the Single Row Slewing Bearing offers enhanced durability and operational efficiency in even the most challenging environments.

One of the standout features of this bearing is its high precision. Manufactured with meticulous attention to detail, the Single Row Slewing Bearing ensures minimal runout and consistent rotational accuracy. This precision is critical for applications where exact positioning and smooth motion are paramount, such as in crane turntables, wind turbines, and industrial robots. The high accuracy of the bearing reduces wear and tear on associated components, extending the service life of the equipment and minimizing maintenance requirements.

Specifically designed for slewing applications, the Single Row Slewing Bearing supports axial, radial, and moment loads, making it versatile and reliable for a wide range of industrial uses. In excavators, for example, the Excavator Slewing Bearing plays a crucial role in enabling the upper structure to rotate smoothly around the undercarriage. This functionality is vital for operational flexibility and productivity in construction, mining, and material handling operations. The bearing's robust construction and load capacity ensure it can withstand the heavy stresses and harsh conditions typically encountered in such environments.

Sealing is a critical aspect of bearing performance, especially in applications exposed to dust, dirt, moisture, and other contaminants. The Single Row Slewing Bearing comes with a fully sealed design that effectively protects the internal components from environmental ingress. This sealing enhances the bearing's longevity by preventing contamination that could lead to premature wear or failure. Additionally, the sealed design helps retain lubrication within the bearing, ensuring consistent performance over extended periods without the need for frequent maintenance.

Lubrication is provided through grease, which is the preferred medium for slewing bearings due to its ability to stay in place under heavy loads and slow rotational speeds. The grease lubrication system in the Single Row Slewing Bearing ensures smooth operation, reduces friction, and minimizes heat generation during use. This contributes to improved efficiency and reliability, making the bearing suitable for continuous operation in demanding conditions. Furthermore, grease lubrication simplifies maintenance procedures by allowing for easy re-lubrication when necessary, further enhancing the bearing's service life.

Beyond traditional steel components, the Single Row Slewing Bearing also integrates advanced materials such as ceramic elements in certain configurations, known as Ceramic Sliding Bearings. These ceramic components provide superior wear resistance, lower friction coefficients, and excellent corrosion resistance compared to conventional steel bearings. The incorporation of ceramic sliding elements enhances the overall performance and durability of the bearing, particularly in applications where extreme conditions or high speeds are involved.

The Single Row Slewing Bearing is also an ideal solution for Center Driveshaft Support Bearing applications, where it supports the driveshaft while allowing rotational movement with minimal friction. This makes it indispensable in machinery where precise alignment and smooth rotational support are required. Its ability to handle combined loads effectively makes it a versatile choice for various mechanical systems beyond just slewing operations.

In summary, the Single Row Slewing Bearing offers a high-precision, sealed, and grease-lubricated solution for a broad spectrum of slewing and rotational applications. Its robust design, combined with advanced sealing and lubrication technologies, ensures long-lasting performance and reliability. Whether serving as an Excavator Slewing Bearing, a Center Driveshaft Support Bearing, or incorporating Ceramic Sliding Bearing technology, this bearing meets the stringent demands of modern industrial machinery, delivering exceptional value and operational excellence.

Technical Parameters:

Lubrication	Grease
Type	Single Row
Precision	High
Rotational Speed	High
Warranty	1 Year
Application	Slewing
Mounting Type	Bolted
Load Capacity	High
Material	Steel
Operating Temperature	-40°C To 80°C

Applications:

The ZHUOLI Single Row Slewing Bearing, model number RKS. 062.20.0414, is a high-precision component manufactured in China with ISO9001 certification, ensuring superior quality and reliability. This single row slewing bearing is designed to provide exceptional performance in various industrial and mechanical applications, particularly where rotational movement and load-bearing capabilities are critical. Its corrosion resistance and grease lubrication system make it ideal for use in harsh environments, extending the service life and maintaining smooth operation under demanding conditions.

One of the primary application occasions for the ZHUOLI Single Row Slewing Bearing is in heavy machinery such as excavators. The excavator slewing bearing is a crucial part that enables the upper structure to rotate smoothly while supporting heavy loads, contributing to the machine's operational efficiency and durability. Thanks to its high precision and robust construction, this bearing ensures stable and reliable rotation, reducing downtime and maintenance costs.

In addition to excavators, the ZHUOLI single row slewing bearing is widely used as a drive shaft center bearing in various automotive and

industrial applications. The drive shaft center bearing plays a vital role in supporting the drive shaft and ensuring smooth power transmission within the drivetrain. The bearing's corrosion resistance and grease lubrication features help maintain optimal performance even in challenging environments where exposure to moisture and contaminants is common. Moreover, the ZHUOLI bearing incorporates advanced ceramic sliding bearing technology, enhancing its wear resistance and operational smoothness. Ceramic sliding bearings are known for their low friction and high durability, making this slewing bearing suitable for precision machinery and equipment requiring minimal maintenance and long-lasting performance. With a warranty of 1 year, the ZHUOLI Single Row Slewing Bearing guarantees customer confidence in its durability and quality. Its versatile design and reliable features make it a preferred choice for industries such as construction, automotive, robotics, and manufacturing. Whether used as an excavator slewing bearing, a drive shaft center bearing, or incorporating ceramic sliding bearing elements, this product delivers excellent performance across diverse application scenarios.

Customization:

ZHUOLI offers comprehensive product customization services for the Single Row Slewing Bearing, model number RKS. 062.20.0414. Manufactured in CHINA and certified with ISO9001, this slewing bearing is designed for optimal performance in slewing applications. Our Single Row type slewing bearing features a bolted mounting type, ensuring secure and reliable installation. We provide flexible trademark options including Neutral, OEM, or fully customized branding to meet your specific requirements. The bearing is engineered to operate efficiently within a temperature range of -40°C to 80°C, making it suitable for various industrial environments. In addition to Single Row slewing bearings, ZHUOLI specializes in related products such as Dual Axis Slew Drive systems, Center Driveshaft Support Bearings, and Double Row Cylindrical Roller Bearings. Our customization capabilities allow you to tailor these products to your precise technical and application needs, ensuring seamless integration and enhanced performance. Trust ZHUOLI for high-quality, customizable slewing solutions that deliver durability, precision, and reliability across diverse applications.

Support and Services:

Our Single Row Slewing Bearings are designed to provide reliable and efficient rotational support for a variety of heavy-duty applications. To ensure optimal performance and longevity of your slewing bearing, we offer comprehensive technical support and services tailored to your needs.

Technical Support:

Our experienced engineering team is available to assist with product selection, installation guidance, and troubleshooting. We provide detailed technical documentation, including load ratings, mounting instructions, and maintenance guidelines to help you maximize the bearing's performance.

Installation Services:

Proper installation is critical for the durability and functionality of the slewing bearing. We offer expert installation services to ensure correct fitting, alignment, and preloading. Our technicians follow industry best practices to minimize risks and extend the service life of the bearing.

Maintenance and Inspection:

Regular maintenance is essential to prevent premature wear and failure. We provide maintenance schedules, lubrication recommendations, and inspection procedures. Our team can also perform on-site inspections to assess bearing condition and recommend necessary repairs or replacements.

Repair and Replacement:

In the event of damage or wear, we offer repair services including reconditioning and component replacement. If a replacement is required, we ensure prompt delivery of high-quality slewing bearings manufactured to original specifications.

Customization and Engineering Support:

For unique applications, we provide customized slewing bearing solutions and engineering support. Our design team collaborates with you to develop bearings that meet specific load, size, and environmental requirements.

By choosing our Single Row Slewing Bearing products, you benefit from dedicated technical support and a full range of services designed to ensure your equipment operates smoothly and efficiently throughout its service life.



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