

Slewing Bearing Market Forecasts to 2030 – Global Analysis By Type (Ball Bearings, Roller Bearings, Tapered Bearings, Needle Bearings and Other Types), Material Type, Gear Type, Design, Application, End User and By Geography

<https://marketpublishers.com/r/S10A0BD074FFEN.html>

Date: April 2025

Pages: 150

Price: US\$ 4,150.00 (Single User License)

ID: S10A0BD074FFEN

Abstracts

According to Statistics MRC, the Global Slewing Bearing Market is accounted for \$4.5 billion in 2024 and is expected to reach \$6.5 billion by 2030 growing at a CAGR of 6.3% during the forecast period. A slewing bearing, also known as a turntable bearing, is a large, specialized bearing designed to support rotational movement between two components. It allows a heavy load to rotate with minimal friction, typically in applications requiring slow, controlled movement like cranes, excavators, wind turbines, and radar systems. Slewing bearings consist of an inner and outer ring, rolling elements (such as balls or rollers), and a raceway. Their unique design enables them to handle combined loads, including axial, radial, and moment loads, making them essential for machinery that needs precision and stability during rotation.

According to the International Renewable Energy Agency, Asia Pacific is expected to grow its share of installed capacity for onshore wind from 230 Gigawatt (GW) in 2018 to over 2600 GW by 2050. The region is likely to account for more than 50% of global onshore wind power installations by 2050, followed by North America (23%) and Europe (10%).

Market Dynamics:

Driver:

Increased industrial machinery usage

The increasing use of industrial machinery across sectors like construction, mining, and renewable energy is driving growth in the slewing bearing market. As industries demand more efficient and heavy-duty equipment, slewing bearings provide critical support for machinery that requires precise, stable rotational movement. With applications in cranes, excavators, and wind turbines, the rise in automation and infrastructure development further fuels the demand for these specialized bearings, expanding their market presence.

Restraint:

Environmental concerns

Environmental concerns are negatively impacting the market, as increasing pressure for sustainability drives industries to adopt greener technologies. This results in stricter regulations on manufacturing processes, material sourcing, and waste management. Companies face challenges in balancing performance with eco-friendly practices, leading to higher production costs. Additionally, the growing emphasis on reducing carbon footprints can slow the adoption of slewing bearings in certain sectors, hindering market growth.

Opportunity:

Expansion of infrastructure and construction

The expansion of infrastructure and construction projects globally is significantly boosting the market. As large-scale developments such as bridges, high-rise buildings, and transportation networks grow, the demand for machinery like cranes, excavators, and earth movers increases. Slewing bearings, essential for stable and efficient rotation in these heavy machines, are crucial to these operations. This surge in infrastructure projects accelerates the market growth for slewing bearings, driving innovation and demand.

Threat:

High production costs

High production costs are a significant challenge for the market, as they can lead to increased prices for end-users. Factors such as the cost of raw materials, advanced

manufacturing techniques, and labor contribute to these elevated expenses. As a result, manufacturers may face pressure to balance quality and cost-effectiveness, potentially limiting their competitive edge. This can also deter small and medium-sized enterprises from adopting slewing bearings in their machinery.

Covid-19 Impact:

The COVID-19 pandemic had a considerable impact on the market, disrupting supply chains and halting production in many industries. Reduced demand from sectors like construction, automotive, and renewable energy due to lockdowns and economic slowdowns slowed market growth. Additionally, delays in manufacturing, material shortages, and labor shortages further affected the timely delivery of slewing bearings. However, recovery in infrastructure and industrial sectors is gradually driving market rebound.

The ball bearings segment is expected to be the largest market share during the forecast period

The ball bearings segment is expected to account for the largest market share during the forecast period due to their ability to reduce friction and enable smooth rotational movement. In slewing bearings, ball bearings are used between the inner and outer rings, providing support for axial, radial, and moment loads. Their compact design, high load capacity, and durability make them ideal for heavy machinery applications like cranes, excavators, and wind turbines, contributing significantly to the market's growth.

The industrial equipment segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the industrial equipment segment is predicted to witness the highest growth rate as these bearings are essential for machinery that requires precise, stable rotational movement. Applications in cranes, excavators, and earth movers demand slewing bearings for their ability to handle heavy loads and provide durability. As industries like construction, mining, and material handling expand, the need for reliable slewing bearings in industrial equipment grows, supporting market growth.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share. The region's focus on infrastructure development and automation further

boosts market expansion. Additionally, the growing adoption of wind turbines and advanced industrial equipment requires high-performance slewing bearings. Key manufacturers in the U.S. and Canada are investing in innovation, enhancing the market's competitiveness and growth potential.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. The region's growing renewable energy sector, especially wind energy, is a major driver, as slewing bearings are critical components in wind turbine generators. In addition, the expanding construction and mining sectors, which require heavy machinery for large-scale projects, are also boosting the market's expansion. Additionally, the growing investments in infrastructure and transportation networks in emerging economies are expected to propel the market's growth.

Key players in the market

Some of the key players in Slewing Bearing market include SKF Group, Schaeffler AG, The Timken Company, Kaydon Corporation, Emerson Bearing Company, Liebherr Group, Thyssenkrupp AG, RKB Bearings, SPM Instrument, TGB Group, Rexnord Corporation, IMO Group, NSK Ltd., Potesta & Company, LLC and Galperti Group.

Key Developments:

In October 2024, Thyssenkrupp and TITAN Group today in the Greek capital Athens a Front-End Engineering Design (FEED) contract for the Carbon Capture Project IFESTOS. IFESTOS is one of the largest carbon capture projects in Europe, enabling the production of zero-carbon cement and concrete.

In September 2024, Schaeffler and Alstom signed strategic partnership agreement for further development in area of rail transport. Schaeffler is a partner for rolling bearing technology in the Alstom Alliance™ program. Schaeffler has supplied Alstom for many years with axlebox bearings along with housings, drive bearings for rail vehicle gearboxes and motors, and slewing rings for metro trains and trams.

Types Covered:

Ball Bearings

Roller Bearings

Tapered Bearings

Needle Bearings

Other Types

Material Types Covered:

Steel

Stainless Steel

Polymer

Titanium

Gear Types Covered:

Internal Gear

External Gear

Ungeared

Designs Covered:

Single Row Ball Slewing Bearings

Double Row Ball Slewing Bearings

Four-Point Contact Ball Slewing Bearings

Crossed Roller Slewing Bearings

Triple Row Roller Slewing Bearings

Applications Covered:

Heavy-Duty Machinery

Wind Turbines

Mining Equipment

Robotics Equipment

Medical Diagnostic Equipment

Industrial Equipment

Other Applications

End Users Covered:

Construction

Aerospace and Defense

Mining

Robotics

Military

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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