

Sliding Bearing Market Outlook 2026-2034: Market Share, and Growth Analysis By Application (Engine, Brakes, Bogie, Interior, Exterior), By Bearing (Linear, Thrust, Radial, Angular contact, Others), By Material, By Railway

<https://marketpublishers.com/r/S0D950C20B3CEN.html>

Date: November 2025

Pages: 160

Price: US\$ 3,950.00 (Single User License)

ID: S0D950C20B3CEN

Abstracts

The Sliding Bearing Market is valued at USD 1.41 billion in 2025 and is projected to grow at a CAGR of 6.7% to reach USD 2.53 billion by 2034.

Sliding Bearing Market

The sliding bearing market (also called plain bearings, bushings, journal and thrust bearings without rolling elements) serves a wide span of equipment - industrial machinery, construction and mining equipment, agricultural machines, automotive and commercial vehicles, marine and energy assets, as well as infrastructure such as bridges and hydropower plants. Sliding bearings are chosen wherever high load, oscillating or slow-speed motion, shock loads, misalignment or contaminated environments make rolling bearings less suitable. The market is supported by steady capital expenditure in process industries, fleet renewal in off-highway and material-handling equipment, and the long service life and replacement cycles in installed plants. Technology development focuses on self-lubricating and solid-lubricant bearings, metal-polymer and polymer-composite bushes, improved tribology surfaces, lead-free and RoHS-compliant materials, and designs that reduce or eliminate grease points to lower maintenance. On the supply side, the landscape ranges from global bearing groups and engineered polymer specialists to regional foundries and bushing makers serving replacement demand. Key challenges include volatile metal prices (bronze, copper alloys), the push to remove lead and other restricted substances, and the need to deliver reliable products that work with thinner lubricants and higher temperatures in

compact, modern machines. Suppliers that can offer application engineering, life prediction, and retrofitting of existing machines from greased to maintenance-free bearings are positioned to capture both OEM and aftermarket business.

Sliding Bearing Market Key Insights

Load and motion profile favor sliding bearings. Heavy loads, oscillating and pivoting motions, and dirty or shock-prone environments make plain bearings a safer, longer-life choice than rolling bearings.

Shift to maintenance-free solutions. OEMs and plant operators want PTFE-lined, polymer-composite or solid-lube bearings to cut greasing points, reduce downtime and support remote or hard-to-access installations.

Material innovation is central. Bronze, bi-metal, aluminum-tin, and steel-backed PTFE continue to dominate, but fiber-reinforced and thermoplastic bushes are gaining where weight, corrosion resistance and low friction are needed.

Regulatory pressure on lead. Environmental and health regulations are pushing the industry toward lead-free bearing materials and compliant overlays without sacrificing embeddability and run-in behavior.

Aftermarket is large and sticky. Construction, mining, ports, steel mills and marine applications consume replacement bushes and wear parts on predictable intervals; exact-fit, quick-delivery suppliers win here.

Customization and application engineering add value. Bearings tailored for misalignment, edge loading, high temperature or dry-running conditions help OEMs shrink housings and simplify designs.

Energy and infrastructure keep baseline demand. Hydropower, wind yaw/pitch systems, bridge bearings and water-management gates all rely on plain bearings for slow, heavy, reliable movement.

Cost and material volatility management. Fluctuations in copper/bronze push suppliers to offer alternative alloys and to optimize wall thickness and backing materials.

Digital and condition-based maintenance. Some high-value assets are adopting

sensors or monitoring around critical bearings to extend life and schedule replacements more accurately.

Regionalization of supply. Because many bearings are heavy and application-specific, local machining and finishing capacity close to OEMs and MROs helps reduce lead times and logistics costs.

Sliding Bearing Market Regional Analysis

North America

Demand is anchored in construction and mining equipment, agriculture machinery, material-handling, steel and paper mills, and marine/port equipment. Users value maintenance-free or extended-interval bushes that reduce labor, plus local stocking for MRO. OEMs increasingly specify lead-free and RoHS-aligned materials and ask for engineering support to replace greased joints.

Europe

Strong machinery, off-highway and industrial bases, combined with strict environmental and worker-safety rules, drive adoption of lead-free, low-friction, and sealed/maintenance-free plain bearings. Engineering houses and OEMs emphasize life calculation, traceability and documentation. Energy and infrastructure projects - bridges, hydro, water - add steady, project-based volumes.

Asia-Pacific

The volume center due to large-scale manufacturing, construction, mining, shipbuilding and agricultural equipment production in China, India, Japan and Southeast Asia. Price-performance is critical, so standard bronze and bi-metal bushes are widespread, but export-oriented OEMs also demand higher-spec composite and PTFE-lined products. Rapid industrialization sustains a large replacement market.

Middle East & Africa

Oil and gas, mining, construction and port/logistics equipment are the main users. Harsh environments, dust, and limited maintenance windows make self-lubricating and corrosion-resistant bearings attractive. Many products are imported, so distributors that

carry broad sizes and metric/inch interchangeables gain share.

South & Central America

Mining, agriculture, construction and power/water infrastructure create stable demand. Equipment fleets often operate in dusty and humid conditions, so robust, easy-to-replace bushes are preferred. Local machining and re-babbiting services complement imported standard bearings, and cost-effective, lead-free options are gaining attention as regulations tighten.

Sliding Bearing Market Segmentation

By Application

Engine

Brakes

Bogie

Interior

Exterior

By Bearing

Linear

Thrust

Radial

Angular contact

Others

By Material

Metallic

Non-metallic

Market for Railway

By Railway

Locomotive

Diesel Multiple Unit (DMU)

Electric Multiple Unit (EMU)

Coach

Wagon

Light and Metro rail

High-speed train

Key Market players

SKF Group, Schaeffler Technologies AG & Co. KG, The Timken Company, NSK Ltd., NTN Corporation, THK Co. Ltd., GGB Bearing Technology (GGB), RBC Bearings Inc., Oiles Corporation, igus GmbH, Saint-Gobain Performance Plastics, PBC Linear (Pacific Bearing), JTEKT Corporation (Koyo), Waukesha Bearings, PACAMOR KUBAR BEARINGS (PKB)

Sliding Bearing Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modelling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behaviour are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Sliding Bearing Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption. Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Sliding Bearing market data and outlook to 2034

United States

Canada

Mexico

Europe — Sliding Bearing market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Sliding Bearing market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Sliding Bearing market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Sliding Bearing market data and outlook to 2034

Brazil

Argentina

Chile

Peru

* We can include data and analysis of additional countries on demand.

Research Methodology

This study combines primary inputs from industry experts across the Sliding Bearing value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Sliding Bearing industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Sliding Bearing Market Report

Global Sliding Bearing market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Sliding Bearing trade, costs, and supply chains

Sliding Bearing market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Sliding Bearing market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Sliding Bearing market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Sliding Bearing supply chain analysis

Sliding Bearing trade analysis, Sliding Bearing market price analysis, and Sliding Bearing supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Sliding Bearing market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

* The updated report will be delivered within 3 working days

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