

# **Ball Bearing Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Type (Self-Aligning Ball Bearings, Deep Groove Ball Bearings, Angular Contact Ball Bearings, and Others), By Application (Automotive, Industrial Machinery, Mining & Construction, Medical, and Others), By Region & Competition, 2020-2030F**

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## **Abstracts**

### Market Overview

The Global Ball Bearing Market was valued at USD 6.57 billion in 2024 and is projected to reach USD 12.31 billion by 2030, growing at a CAGR of 10.87%. Ball bearings are vital mechanical components used to minimize friction and support both radial and axial loads in rotating systems. Comprising a set of steel or ceramic balls positioned between two raceways, these components facilitate smooth and efficient motion in a variety of machinery. Their application spans multiple industries such as automotive, aerospace, industrial machinery, energy, electronics, healthcare, and railways. As demand for high-performance and energy-efficient equipment continues to rise, the role of ball bearings in enhancing operational reliability and equipment lifespan becomes increasingly critical across global markets.

### Key Market Drivers

#### Rapid Growth in Automotive Production and Electric Vehicles

The surging production of automobiles—especially electric vehicles (EVs)—is a major catalyst for the ball bearing market. Bearings are indispensable in automotive systems,

enabling smooth motion and reducing wear in components such as electric motors, wheels, transmissions, and auxiliary systems. With growing emphasis on reducing emissions and adopting green transportation technologies, EV adoption is accelerating globally, particularly in regions like China, the EU, and North America. This has led to increased demand for high-performance, low-noise, and durable bearings. Manufacturers are innovating with lighter and more efficient bearing designs, including hybrid ceramic and angular contact bearings, to meet evolving vehicle architecture requirements. Furthermore, the electrification of public and commercial transport fleets is expanding aftermarket opportunities for specialized bearing products.

## Key Market Challenges

### Intensifying Competition and Pricing Pressure from Low Cost Producers

The global ball bearing industry is experiencing mounting competition, primarily due to the expansion of low-cost manufacturers in regions such as China, India, and Southeast Asia. These producers leverage affordable labor, governmental incentives, and cost-efficient operations to offer competitive pricing. As a result, premium manufacturers in developed markets are under pressure to reduce margins or reposition themselves in niche segments. To stay competitive, these companies are investing in automation, supply chain optimization, and cost-effective raw materials. However, these measures introduce new challenges including high capital investment and quality control risks. Additionally, the influx of counterfeit or substandard bearings in the global supply chain undermines customer trust and further complicates market dynamics.

## Key Market Trends

### Shift Toward Electrification and E-Mobility

The ongoing transition to electric and hybrid vehicles is reshaping the ball bearing market, driving demand for products tailored to high-speed and lightweight applications. Electric motors used in EVs require bearings that offer superior heat resistance, noise reduction, and mechanical efficiency. As such, hybrid ceramic bearings, advanced polymer cages, and silicon nitride elements are gaining prominence. The rise of e-mobility extends beyond automobiles to encompass electric two-wheelers, buses, drones, and even electric aircraft—each necessitating bespoke bearing solutions. Collaborative R&D efforts among OEMs, bearing manufacturers, and material science firms are yielding innovations that support compact designs, motor shaft alignment, and electromagnetic performance across various mobility platforms.

## Key Market Players

SKF Group (Svenska Kullagerfabriken AB)

NSK Ltd.

Schaeffler AG

JTEKT Corporation

Timken Company

NTN Corporation

RBC Bearings Incorporated

MinebeaMitsumi Inc.

C&U Group

Luoyang Huigong Bearing Technology Co., Ltd. (LYC Bearing)

## Report Scope:

In this report, the Global Ball Bearing Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Ball Bearing Market, By Type:

Self-Aligning Ball Bearings

Deep Groove Ball Bearings

Angular Contact Ball Bearings

Others

Ball Bearing Market, By Application:

Automotive

Industrial Machinery

Mining & Construction

Medical

Others

Ball Bearing Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Ball Bearing Market.

Available Customizations:

Global Ball Bearing Market report with the given Market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

#### Company Information

Detailed analysis and profiling of additional Market players (up to five).

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