

# Global Automotive High Temperature Bearing Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Automotive High Temperature Bearing market size is expected to reach \$ 4679 million by 2032, rising at a market growth of 3.9% CAGR during the forecast period (2026-2032).

Automotive high-temperature bearings are designed for high-temperature environments such as engine compartments, turbochargers, electric drive/generators, and exhaust systems. They utilize heat-resistant bearing steel/stainless steel or ceramic rolling elements, high-temperature cages, and high-temperature grease/solid lubricant coatings to maintain low friction, low wear, and reliable lifespan at high temperatures.

Upstream: Specialty bearing steel/stainless steel, ceramic (Si<sub>3</sub>N<sub>4</sub>, etc.) rolling elements, copper alloy/polyimide/PEEK cage materials, high-temperature greases and additives, coating materials (DLC/solid lubricants), heat treatment and grinding consumables.

Downstream: OEMs, powertrain and turbocharger manufacturers, electric drive system and generator/air conditioning compressor suppliers, aftermarket repair channels.

In 2025, the global average price of automotive high-temperature bearings was \$16 per unit, with sales reaching 217.12 million units. Global single-line annual production capacity was 15 million units, and the industry profit margin was 25-30%.

Global Market Future Development Trends:

Expanding High-Temperature Operating Conditions: Emission regulations and engine downsizing are driving the widespread adoption of turbocharging. Higher turbine temperatures and faster speeds place greater demands on bearing heat resistance and fatigue resistance. Simultaneously, the start-stop and frequent thermal cycling of hybrid/range-extended vehicles exacerbate thermal shock, shifting the demand for high-temperature bearings from 'high-end models' to 'mainstream platforms.'

Materials and Lubrication Upgrades: Improved cleanliness of heat-resistant steel and expanded application of ceramic hybrid bearings (steel rings + ceramic balls), coupled with low-friction coatings such as DLC to reduce heat generation and wear; high-

temperature greases are iterating towards higher dropping points, lower volatility, and stronger oxidation resistance, with solid lubrication or optimized sealing structures used in some extreme areas to extend lifespan.

**Electrification Creates New Tracks:** The high speeds of electric drives and improvements in NVH and efficiency are driving the development of bearings with a focus on low friction, low noise, resistance to electrical corrosion, and high temperature resistance. Simultaneously, the use of high-temperature bearings in thermal management systems (electric pumps/compressors) is increasing. The supply side will place greater emphasis on simulation verification, reliability data, and modular supply, with leading manufacturers consolidating their market share through platform integration and after-sales systems.

This report studies the global Automotive High Temperature Bearing production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive High Temperature Bearing and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive High Temperature Bearing that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Automotive High Temperature Bearing total production and demand, 2021-2032, (K Units)

Global Automotive High Temperature Bearing total production value, 2021-2032, (USD Million)

Global Automotive High Temperature Bearing production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive High Temperature Bearing consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive High Temperature Bearing domestic production, consumption, key domestic manufacturers and share

Global Automotive High Temperature Bearing production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive High Temperature Bearing production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive High Temperature Bearing production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive High Temperature Bearing market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key

companies covered as a part of this study include NSK, JTEKT, SKF, NTN, Schunk Group, C and U, AVIC, LILY BEARING, TIMEKN, WANXIANG QIANCHAO, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive High Temperature Bearing market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive High Temperature Bearing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive High Temperature Bearing Market, Segmentation by Type:

200°C~500°C

500°C~800°C

800°C~1400°C

## Global Automotive High Temperature Bearing Market, Segmentation by Bearing Structure:

Deep Groove Ball Bearing

Cylindrical Roller Bearing

Thrust Bearing

## Global Automotive High Temperature Bearing Market, Segmentation by Materials:

Stainless Steel

Hybrid Ceramic

Other

## Global Automotive High Temperature Bearing Market, Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

## Companies Profiled:

NSK

JTEKT

SKF

NTN

Schunk Group

C and U

AVIC

LILY BEARING

TIMEKN

WANXIANG QIANCHAO

ZWZ

LYC

HRB

HXB

HAYO

UTE

Schaeffler

**Key Questions Answered:**

1. How big is the global Automotive High Temperature Bearing market?
2. What is the demand of the global Automotive High Temperature Bearing market?
3. What is the year over year growth of the global Automotive High Temperature Bearing market?
4. What is the production and production value of the global Automotive High Temperature Bearing market?
5. Who are the key producers in the global Automotive High Temperature Bearing market?
6. What are the growth factors driving the market demand?

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