

Global Recirculating Ball Mechanical Steering Gear Market Growth 2026-2032

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Abstracts

The global Recirculating Ball Mechanical Steering Gear market size is predicted to grow from US\$ 535 million in 2025 to US\$ 678 million in 2032; it is expected to grow at a CAGR of 3.5% from 2026 to 2032.

In 2024, global production of recirculating ball mechanical steering gears reached 7.0021 million units, with an average selling price of US\$75 per unit. The annual production capacity of a single production line for recirculating ball mechanical steering gears is approximately 600,000 units, with a gross profit margin of approximately 18.43%. A recirculating ball mechanical steering gear is a component of the automotive steering system, primarily consisting of a screw, nut, steering gear housing, and numerous small steel balls. These small steel balls are placed in a sealed tube between the nut and screw. Their function is to convert the sliding friction between the nut and screw into rolling friction, which provides less resistance. When the steering wheel turns, the screw pushes the nut up and down, which, via gears, drives the steering rocker arm back and forth, thus achieving steering. This design improves transmission efficiency and makes operation easier and more comfortable.

Despite facing challenges in the electrification transition, the recirculating ball mechanical steering market continues to show positive development momentum, primarily reflected in the following aspects:

Stable demand in the commercial vehicle sector: Recirculating ball mechanical steering systems still have a certain market share in the commercial vehicle market. Their high reliability and low cost have led to their continued use in some models, particularly in traditional fuel-powered commercial vehicles. With the increasing demand for energy conservation, emission reduction, and intelligent commercial vehicles, the penetration of

electric recirculating ball steering systems (such as those produced by Zhejiang Shibao) in light commercial vehicles has gradually increased, providing a new direction for upgrading traditional mechanical steering systems.

Technological Optimization and Lightweighting: The industry is improving performance through material innovation and structural optimization. For example, replacing traditional ductile iron housings with lightweight materials such as aluminum alloys reduces both weight and cost. At the same time, improved production processes ensure strength, making recirculating ball steering systems more competitive while meeting safety requirements.

Large Aftermarket Potential: As a large number of vehicles in use still rely on recirculating ball mechanical steering systems, there is continued demand in the aftermarket repair and replacement market. For older models or cost-sensitive users, repairing and replacing traditional mechanical steering systems remains the primary option, providing stable business support for related companies. Demand persists in specific application scenarios: Recirculating ball mechanical steering gears are still widely used in specialized vehicles (such as agricultural and construction vehicles) due to their simple structure and easy maintenance. The stable demand in these market segments provides continued market space for this type of product.

LP Information, Inc. (LPI) ' newest research report, the "Recirculating Ball Mechanical Steering Gear Industry Forecast" looks at past sales and reviews total world Recirculating Ball Mechanical Steering Gear sales in 2025, providing a comprehensive analysis by region and market sector of projected Recirculating Ball Mechanical Steering Gear sales for 2026 through 2032. With Recirculating Ball Mechanical Steering Gear sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Recirculating Ball Mechanical Steering Gear industry.

This Insight Report provides a comprehensive analysis of the global Recirculating Ball Mechanical Steering Gear landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Recirculating Ball Mechanical Steering Gear portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Recirculating Ball Mechanical Steering Gear market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Recirculating Ball Mechanical Steering Gear and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Recirculating Ball Mechanical Steering Gear.

This report presents a comprehensive overview, market shares, and growth opportunities of Recirculating Ball Mechanical Steering Gear market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

- Recirculating Ball-Rack and Pinion Steering Gear

- Recirculating Ball-Crank Pin Steering Gear

Segmentation by Application:

- Commercial Vehicles

- Passenger Vehicles

This report also splits the market by region:

- Americas

 - United States

 - Canada

 - Mexico

 - Brazil

- APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered

from primary experts and analysing the company's coverage, product portfolio, its market penetration.

ZF TRW

Knorr-Bremse

Robert Bosch

Lares Corporation

Rane (Madras)

NSK Steering

CIE bearing brand

ThyssenKrupp

Zhejiang Shibao

Nexteer

SKF

JTEKT Corporation

HUBEI TRI-RING MOTOR STEERING GEAR

HENGLONG

Beijing Autonics Technology

Shaanxi Fast Auto Drive Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global Recirculating Ball Mechanical Steering

Gear market?

What factors are driving Recirculating Ball Mechanical Steering Gear market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Recirculating Ball Mechanical Steering Gear market opportunities vary by end market size?

How does Recirculating Ball Mechanical Steering Gear break out by Type, by Application?

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