

Automotive Connecting Rod Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Automotive Connecting Rod Market was valued at USD 40.8 billion in 2024 and is forecasted to grow at a CAGR of 4.5% from 2025 to 2034. This growth is driven by the rising demand for fuel-efficient and high-performance vehicles. Automakers are increasingly adopting lightweight, durable, and high-strength connecting rods to enhance engine efficiency and reliability. These innovations are particularly critical as manufacturers prioritize performance and sustainability.

Technological advancements in materials, including the integration of advanced alloys, are significantly improving the performance of connecting rods. These developments are fostering innovation within the market, creating opportunities for manufacturers to cater to evolving industry requirements. Moreover, the increased focus on vehicle performance continues to stimulate demand for connecting rods designed to meet modern engineering standards.

Electric vehicle (EV) production also plays a pivotal role in the expansion of this market. The need for efficient and lightweight components in EV powertrains has elevated the importance of advanced connecting rods. With the growing adoption of EVs, manufacturers are implementing stricter performance requirements, leading to innovations in both materials and design. As EVs rely on fewer overall components, the durability and quality of connecting rods become even more critical, further driving demand within this segment.

In terms of vehicle type, the market is segmented into passenger and commercial vehicles. The passenger vehicle segment accounted for over 80% of the market share in 2024 and is projected to exceed USD 45 billion by 2034. This dominance is attributed

to the high production volume of passenger cars, which require reliable and efficient components to meet global fuel efficiency standards. As car sales continue to rise, especially in emerging markets, the demand for connecting rods in this segment remains robust.

Based on sales channels, the market is categorized into OEMs and aftermarket. In 2024, OEMs dominated with over 85% of the market share, benefiting from strong partnerships with automakers and the ability to deliver tailored, warranty-backed components. However, the aftermarket segment is gaining traction as older vehicles require cost-effective replacement parts and upgrades, supported by expanding service networks and online availability.

Regionally, China led the market in 2024, contributing 60% of the revenue. Its dominant position stems from its robust automotive manufacturing industry, competitive production capabilities, and investment in advanced technologies, securing its status as a key player in the global market.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Research design
 - 1.1.1 Research approach
 - 1.1.2 Data collection methods
- 1.2 Base estimates and calculations
 - 1.2.1 Base year calculation
 - 1.2.2 Key trends for market estimates
- 1.3 Forecast model
- 1.4 Primary research & validation
 - 1.4.1 Primary sources
 - 1.4.2 Data mining sources
- 1.5 Market definitions

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis, 2021 - 2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Supplier landscape
 - 3.2.1 OEM Automotive connecting rod manufacturers
 - 3.2.2 Aftermarket connecting rod providers
 - 3.2.3 Distributors
 - 3.2.4 End users
- 3.3 Profit margin analysis
- 3.4 Pricing analysis
- 3.5 Patent Landscape
- 3.6 Cost Breakdown of automotive connecting rods
- 3.7 Technology & innovation landscape
- 3.8 Key news & initiatives
- 3.9 Regulatory landscape
- 3.10 Impact forces
 - 3.10.1 Growth drivers

- 3.10.1.1 Increasing demand for high-performance vehicles
- 3.10.1.2 Growth in electric vehicle (EV) production and adoption
- 3.10.1.3 Advancements in materials and manufacturing technologies
- 3.10.1.4 Rising demand for lightweight and fuel-efficient automotive components
- 3.10.2 Industry pitfalls & challenges
 - 3.10.2.1 Fluctuating raw material costs
 - 3.10.2.2 Intense competition from low-cost regional manufacturers
- 3.11 Growth potential analysis
- 3.12 Porter's analysis
- 3.13 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Company market share analysis
- 4.3 Competitive positioning matrix
- 4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY MATERIAL, 2021 - 2034 (\$BN, UNITS)

- 5.1 Key trends
- 5.2 Steel
- 5.3 Aluminum
- 5.4 Titanium
- 5.5 Composite Materials
- 5.6 Others

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY PROCESS, 2021 - 2034 (\$BN, UNITS)

- 6.1 Key trends
- 6.2 Forged connecting rods
- 6.3 Cast connecting rods
- 6.4 Powder-Metal connecting rods

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY VEHICLE, 2021 - 2034 (\$BN, UNITS)

- 7.1 Key trends
- 7.2 Passenger vehicles
 - 7.2.1 Hatchback
 - 7.2.2 Sedan
 - 7.2.3 SUV
- 7.3 Commercial vehicles
 - 7.3.1 Light Commercial Vehicles (LCV)
 - 7.3.2 Heavy Commercial Vehicles (HCV)

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY SALES CHANNEL, 2021 - 2034 (\$BN, UNITS)

- 8.1 Key trends
- 8.2 OEM
- 8.3 Aftermarket

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021 - 2034 (\$BN, UNITS)

- 9.1 Key trends
- 9.2 North America
 - 9.2.1 U.S.
 - 9.2.2 Canada
- 9.3 Europe
 - 9.3.1 UK
 - 9.3.2 Germany
 - 9.3.3 France
 - 9.3.4 Spain
 - 9.3.5 Italy
 - 9.3.6 Russia
 - 9.3.7 Nordics
- 9.4 Asia Pacific
 - 9.4.1 China
 - 9.4.2 India
 - 9.4.3 Japan
 - 9.4.4 South Korea
 - 9.4.5 ANZ
 - 9.4.6 Southeast Asia
- 9.5 Latin America

- 9.5.1 Brazil
- 9.5.2 Mexico
- 9.5.3 Argentina
- 9.6 MEA
 - 9.6.1 UAE
 - 9.6.2 South Africa
 - 9.6.3 Saudi Arabia

CHAPTER 10 COMPANY PROFILES

- 10.1 Aisin Seiki Co
- 10.2 Albon Engineering & Manufacturing
- 10.3 Arrow Precision Engineering
- 10.4 Bharat Forge
- 10.5 CP-Carrillo
- 10.6 Cummins
- 10.7 Federal-Mogul Holdings LLC (DRiV)
- 10.8 Hitachi Metals
- 10.9 ITR Components
- 10.10 Kalyani Technoforge
- 10.11 Linamar Corporation
- 10.12 Mahle GmbH
- 10.13 Pankl Racing Systems
- 10.14 Riken Corporation
- 10.15 Sanyo Special Steel
- 10.16 Shriram Pistons & Rings Ltd.
- 10.17 Thyssenkrupp AG
- 10.18 Tupy S.A.
- 10.19 Wiseco Piston Company
- 10.20 Yasunaga

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