

# **Automotive Camless Engine Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Vehicle Type (Passenger Cars, Commercial Vehicles), By Type (Gasoline Engine, Diesel Engine), By Region & Competition, 2020-2030F**

<https://marketpublishers.com/r/A69D25CEAA52EN.html>

Date: May 2025

Pages: 183

Price: US\$ 4,500.00 (Single User License)

ID: A69D25CEAA52EN

## **Abstracts**

### Market Overview

The Global Automotive Camless Engine Market was valued at USD 29.5 Billion in 2024 and is projected to reach USD 66.2 Billion by 2030, growing at a CAGR of 14.4% during the forecast period. This market is gaining momentum due to ongoing advancements in internal combustion engine technologies aimed at improving fuel efficiency and reducing emissions. Camless engine systems provide enhanced control over valve timing, contributing to optimized combustion and reduced mechanical complexity. As the automotive industry shifts toward electrification and hybrid models, camless engines are increasingly being adopted for their potential to improve engine responsiveness and fuel economy. Research into electro-hydraulic and electromagnetic actuation technologies, as well as the integration of artificial intelligence in engine control systems, is driving innovation. Automakers are actively testing camless engine configurations in high-performance and commercial vehicles, with a growing focus on durability, lightweight materials, and long-term reliability to support their widespread adoption.

### Key Market Drivers

#### Advancements in Autonomous Driving Technology

The evolution of autonomous driving technologies is significantly contributing to the growth of the Automotive Camless Engine Market. As vehicles become more

autonomous, there is a heightened need for high-performance powertrains that support complex computing and sensor systems. Camless engines offer the precision and adaptability required for autonomous vehicles, enabling better fuel control and engine responsiveness under dynamic driving conditions. Their compatibility with smart control systems makes them suitable for self-driving vehicles that demand enhanced efficiency, reduced emissions, and real-time adaptability. As autonomous vehicle platforms expand, so does the demand for powertrains capable of supporting their sophisticated requirements.

## Key Market Challenges

### Supply Chain Disruptions

Supply chain volatility presents a major challenge for the Automotive Camless Engine Market. The industry continues to face disruptions in the availability of critical components, particularly semiconductors, which are vital for camless engine actuation systems. These challenges have been intensified by global events such as the COVID-19 pandemic and geopolitical instability. The dependence on just-in-time manufacturing and limited regional sources for key materials has further exposed the vulnerability of the supply network. To ensure consistent production and mitigate future risks, manufacturers are focusing on supply chain diversification and strategic partnerships across multiple geographies.

## Key Market Trends

### Miniaturization of Automotive Camless Engines

The trend of miniaturization is gaining traction in the Automotive Camless Engine Market, driven by the increasing demand for compact, energy-efficient vehicle architectures. Smaller engine formats are particularly appealing for hybrid and electric vehicles, where space optimization and weight reduction are essential. Miniaturized camless engines not only save space but also contribute to lower energy consumption and improved system integration. Manufacturers are exploring advanced engineering approaches to create compact valve control units without compromising performance, ensuring these engines meet the needs of next-generation vehicles while adhering to stringent emission norms and efficiency standards.

## Key Market Players

Camcon AutLtd.

ElringKlinger AG

Freevalve AB

Linamar Corp.

Musashi Seimitsu Industry Co. Ltd.

NEMAK SAB de CV

Parker Hannifin Corp.

Textron Inc.

thyssenkrupp AG.

#### Report Scope:

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

#### · Automotive Camless Engine Market, By Vehicle Type:

Passenger Cars

Commercial Vehicles

#### · Automotive Camless Engine Market, By Type:

Gasoline Engine

Diesel Engine

· Automotive Camless Engine Market, By Region:

North America

United States

Canada

Mexico

Europe & CIS

Germany

France

U.K.

Spain

Italy

Asia-Pacific

China

Japan

India

South Korea

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

South America

Brazil

Argentina

### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Automotive Camless Engine Market.

### Available Customizations:

Global Automotive Camless Engine Market report with the given market data, TechSci Research offers customizations according to the 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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