+357 96 030922
info@marketpublishers.com

Automotive Camshaft Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Vehicle Type (Passenger Car, Commercial Vehicle), By Manufacturing Technology (Cast Camshaft, Forged Camshaft, Assembled Camshaft), By Demand Category (OEM, Aftermarket), By Region & Competition, 2021-2031F

https://marketpublishers.com/r/A5C5CA06B79CEN.html
Date: January 2026
Pages: 181
Price: US$ 4,500.00 (Single User License)
ID: A5C5CA06B79CEN

Abstracts

The Global Automotive Camshaft Market is projected to expand from a valuation of USD 3.91 Billion in 2025 to USD 5.08 Billion by 2031, achieving a Compound Annual Growth Rate (CAGR) of 4.46%. An automotive camshaft is defined as a cylindrical rod equipped with lobes that manage the timing of intake and exhaust valves within internal combustion engines, a function critical for maximizing engine performance and fuel efficiency through precise air-fuel mixture control. This market expansion is primarily driven by the continuous production of commercial and passenger vehicles, particularly in developing nations with growing mobility demands, alongside the implementation of stricter emission standards that require advanced variable valve timing systems and high-precision camshafts.

Conversely, the rapid transition toward battery electric vehicles poses a substantial challenge, as these powertrains operate without internal combustion engines, thereby eliminating the need for traditional valve train components. Although this technological shift narrows the long-term addressable market, the conventional sector remains extensive and continues to command significant demand. Data from the International Organization of Motor Vehicle Manufacturers (OICA) indicates that global motor vehicle production reached approximately 92.5 million units in 2024, demonstrating the persistent volume of internal combustion engine vehicles that continue to underpin the

+357 96 030922
info@marketpublishers.com

global camshaft industry.

Market Driver

The increasing global production of passenger and commercial vehicles serves as the primary engine for market growth, especially within developing economies where transportation infrastructure is rapidly maturing. As manufacturers accelerate assembly operations to satisfy consumer needs, the inherent requirement for internal combustion engines guarantees a steady stream of orders for precision-engineered camshafts, a trend that is particularly evident in major manufacturing hubs supplying both local and international markets. Highlighting this volume, the China Association of Automobile Manufacturers reported in its 'August 2024 Automobile Industry Economic Operation' that automobile output in China totaled 2.492 million units for that month alone, reflecting the massive scale of components needed to support such production levels.

At the same time, the rising adoption of Hybrid Electric Vehicle (HEV) powertrains is sustaining demand for advanced valve train components, effectively counterbalancing the potential decline caused by pure electric mobility. Hybrids integrate internal combustion engines with electric motors, often utilizing complex variable valve timing systems to optimize efficiency and lower emissions, ensuring camshafts remain a vital part of modern automotive design. According to a July 2024 press release by the European Automobile Manufacturers? Association, hybrid-electric vehicle registrations grew by 26.4% to capture a 29.5% market share in the European Union in June 2024; supporting this trend, Toyota Motor North America announced a $282 million investment in 2024 at its Huntsville, Alabama facility to expand engine production lines.

Market Challenge

The most significant obstacle impeding the growth of the global automotive camshaft market is the accelerating shift toward battery electric vehicles (BEVs). Because BEVs utilize electric propulsion systems rather than internal combustion engines, they operate without intake or exhaust valves, rendering camshafts entirely unnecessary. As automotive original equipment manufacturers increasingly redirect capital and production capacity toward electric drive units, the total addressable market for traditional valve train components faces a structural decline, meaning that every unit of market share gained by pure electric platforms represents a permanent loss of volume for camshaft suppliers, decoupling their growth from the broader automotive sector.

The magnitude of this displacement is illustrated by the increasing market penetration of

+357 96 030922
info@marketpublishers.com

non-combustion vehicles in key regions. Data from the European Automobile Manufacturers' Association (ACEA) reveals that during the first eleven months of 2025, battery-electric cars secured 16.9% of the total market share within the European Union. This substantial percentage indicates that a material segment of new vehicle demand now completely bypasses the camshaft market, forcing suppliers to contend with a shrinking customer base in the passenger vehicle segment even as overall global vehicle production numbers continue to rise.

Market Trends

The automotive industry is increasingly favoring the adoption of assembled camshaft technology over traditional cast iron methods to meet stringent fuel efficiency mandates. This manufacturing technique involves mounting high-strength steel lobes onto a hollow tubular shaft, which significantly lowers the rotational mass and overall weight of the valve train assembly while allowing manufacturers to optimize material selection for specific component properties. This shift is supported by raw material trends; the World Steel Association?s 'April 2024 Short Range Outlook' projects a 1.7% rebound in global steel demand for 2024, largely driven by the automotive sector's requirement for advanced high-strength steels essential for lightweight powertrain architectures.

In parallel, the implementation of advanced surface coating technologies has become critical for ensuring component durability in modern, high-stress engines. Manufacturers are applying Diamond-Like Carbon (DLC) coatings to camshaft lobes to reduce friction coefficients and withstand the intense pressures associated with downsized, turbocharged powertrains, a treatment that is particularly vital for hybrid applications where frequent start-stop cycles increase wear on valve train interfaces. The commercial impact of this technology is reflected in supplier performance; Oerlikon?s 'Full-Year 2023 Results' media release in February 2024 noted a 7.3% organic sales increase in its Surface Solutions division, explicitly attributing this growth to the strong uptake of functional coatings within the automotive market.

Key Market Players

Melling

Varroc Group

JBM Group

+357 96 030922
info@marketpublishers.com

MAHLE GmbH

David Newman (Camshaft) & Co

Cummins Inc.

Piper RS Ltd

Kautex Textron GmbH & Co. KG

ThyssenKrupp AG

FERROFOSS Machinery & Foundry Co., Ltd

Report Scope

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

Automotive Camshaft Market, By Vehicle Type

Passenger Car

Commercial Vehicle

Automotive Camshaft Market, By Manufacturing Technology

Cast Camshaft

Forged Camshaft

Assembled Camshaft

Automotive Camshaft Market, By Demand Category

OEM

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

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

Available Customizations:

Global Automotive Camshaft Market report with the given market data, TechSci 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).

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

6. NORTH AMERICA AUTOMOTIVE CAMSHAFT MARKET OUTLOOK

7. EUROPE AUTOMOTIVE CAMSHAFT MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

8. ASIA PACIFIC AUTOMOTIVE CAMSHAFT MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

9. MIDDLE EAST & AFRICA AUTOMOTIVE CAMSHAFT MARKET OUTLOOK

+357 96 030922
info@marketpublishers.com

10. SOUTH AMERICA AUTOMOTIVE CAMSHAFT MARKET OUTLOOK

11. MARKET DYNAMICS

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Automotive Camshaft Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Vehicle Type (Passenger Car, Commercial Vehicle), By Manufacturing Technology (Cast Camshaft, Forged Camshaft, Assembled Camshaft), By Demand Category (OEM, Aftermarket), By Region & Competition, 2021-2031F

Product link: https://marketpublishers.com/r/A5C5CA06B79CEN.html

Price: US$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/A5C5CA06B79CEN.html