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Automotive Camshaft Market Forecasts to 2030 – Global Analysis By Vehicle Type (Passenger Cars and Commercial Vehicles), Manufacturing Technology (Cast Camshaft, Forged Camshaft and Assembled Camshaft), Material, Sales Channel and By Geography

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Abstracts

According to Stratistics MRC, the Global Automotive Camshaft Market is accounted for $3.1 billion in 2024 and is expected to reach $4.1 billion by 2030 growing at a CAGR of 4.8% during the forecast period. Camshafts are revolving shafts found in internal combustion engines that regulate the valves' opening and closing. As the shaft rotates, its lobes, also known as cams, press against the valves to precisely time the intake of fuel and air as well as the release of exhaust gases. For effective engine operation, power output, and fuel economy, this coordinated action is crucial.

According to IBIS World, The overall automobile engine & parts manufacturing industry revenue reached $41.5 billion in 2024.

Market Dynamics:

Driver:

Growing automotive production

Rising demand for passenger and commercial vehicles, particularly in emerging economies, has led to higher manufacturing volumes. Camshafts, essential for optimizing engine performance and fuel efficiency, are integral to internal combustion engines. With advancements in engine technologies and the growing popularity of SUVs and high-performance vehicles, the need for durable and efficient camshafts

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continues to rise, driving market growth.

Restraint:

Growing automotive production

Unlike internal combustion engines, EVs do not require camshafts, reducing long-term demand for this component. As governments worldwide implement stricter emission regulations and promote EV adoption through subsidies and incentives, the transition away from traditional fuel-powered vehicles accelerates. This shift challenges manufacturers to adapt by exploring new opportunities in hybrid vehicle components or alternative technologies.

Opportunity:

Growing automotive production

Hybrid vehicles combine internal combustion engines with electric powertrains, requiring advanced camshaft technologies to optimize fuel efficiency and performance. Innovations such as lightweight materials and variable valve timing (VVT) systems enhance engine capabilities in hybrids. As global hybrid vehicle sales surge due to stricter emission standards and consumer demand for eco-friendly options, camshaft manufacturers can capitalize on this expanding segment.

Threat:

Development of alternative engine technologies

The development of alternative engine technologies, such as camless engines and advanced valve actuation systems, threatens the traditional automotive camshaft market. These innovations aim to improve fuel efficiency and reduce emissions without relying on conventional camshaft mechanisms. As automakers increasingly explore these alternatives to meet stringent environmental regulations, the demand for traditional camshafts may decline. This trend forces manufacturers to innovate or diversify their product portfolios to remain competitive.

Covid-19 Impact:

The COVID-19 pandemic disrupted the automotive camshaft market due to halted

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vehicle production and supply chain interruptions. Lockdowns led to reduced consumer demand for new vehicles, impacting camshaft sales. However, as economies recovered post-pandemic, vehicle production rebounded, driven by pent-up demand and investments in infrastructure projects. The crisis also accelerated innovation in lightweight and efficient engine components, fostering long-term growth opportunities for the industry.

The cast camshaft segment is expected to be the largest during the forecast period

The cast camshaft segment is expected to account for the largest market share during the forecast period due to its cost-effectiveness and suitability for mass production. Cast camshafts are widely used in passenger cars and commercial vehicles as they offer durability and precision at a lower manufacturing cost compared to forged alternatives. Continuous advancements in casting techniques have further improved their performance and lightweight properties, making them ideal for high-volume applications across diverse vehicle types.

The aftermarket segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the aftermarket segment is predicted to witness the highest growth rate due to increasing demand for replacement parts in aging vehicle fleets. As vehicles age, wear and tear necessitate frequent replacement of critical components like camshafts. The rise of e-commerce platforms offering easy access to aftermarket products boosts this segment’s growth. Additionally, advancements in remanufactured camshafts provide cost-effective solutions for consumers seeking high-quality replacements.

Region with largest share:

During the forecast period, the Europe region is expected to hold the largest market share due to its strong automotive manufacturing base and focus on advanced engine technologies. Countries like Germany lead in producing high-performance vehicles equipped with innovative camshaft designs such as variable valve timing (VVT). Stringent emission regulations in the region further drive demand for efficient engine components that enhance fuel economy while reducing pollutants.

Region with highest CAGR:

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Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR owing to rapid industrialization and increasing vehicle production in countries like China, India, Japan, and South Korea. Rising disposable incomes and urbanization boost demand for passenger cars and commercial vehicles in this region. Additionally, government initiatives supporting domestic automotive manufacturing further strengthen Asia Pacific's position as a key growth region for the automotive camshaft market.

Key players in the market

Some of the key players in Automotive Camshaft Market include MAHLE GmbH, Thyssenkrupp AG, Linamar Corporation, ESTAS Camshaft & Chilled Cast, Precision Camshafts Limited, Engine Power Components Inc., Hirschvogel Holding GmbH, Kautex Textron GmbH & Co. KG, Camshaft Machine Company, COMP Performance Group, Varroc Group, Melling Engine Parts, LACO Camshafts, Sandvik Coromant and Schrick Camshaft.

Key Developments:

In April 2024, MAHLE has developed a new valve train system that supports variable valve timing. MAHLE has integrated functions such as engine braking, exhaust gas temperature management, and reduced compression ratio to lower the combustion temperature and pressure level in the valve train.

Vehicle Types Covered:

- Passenger Cars
- Commercial Vehicles

Manufacturing Technologies Covered:

- Cast Camshaft
- Forged Camshaft
- Assembled Camshaft

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Materials Covered:

- Cast Iron
- Steel

Sales Channels Covered:

- OEM (Original Equipment Manufacturer)
- Aftermarket

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific

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- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar
- South Africa
- Rest of Middle East & Africa

What our report offers:

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- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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