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Commercial Vehicle Camshaft Market - Global Industry Size, Share, Trends Opportunity, and Forecast, Segmented By Vehicle Type (LCV, M&HCV), By Manufacturing Technology (Cast Camshaft, Forged Camshaft, Assembled Camshaft), By Fuel Type (Gasoline, Diesel), By Region & Competition, and By Competition, 2021-2031F

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Abstracts

The Global Commercial Vehicle Camshaft Market is projected to expand from USD 4.54 Billion in 2025 to USD 7.08 Billion by 2031, reflecting a CAGR of 7.69%. As a critical mechanical element within internal combustion engines, the camshaft regulates the specific timing and lift of intake and exhaust valves to guarantee peak engine functionality. This market growth is chiefly bolstered by the rising need for freight transport and logistics services, which creates a demand for dependable heavy commercial fleets, while strict international emission standards force original equipment manufacturers to implement advanced camshaft solutions that improve combustion stability and fuel efficiency.

Nevertheless, the market encounters significant headwinds from the rapid global shift toward electric mobility, which obviates the necessity for conventional powertrain components. As electric truck adoption rises, the long-term dependence on internal combustion engines is waning, a structural instability mirrored in recent industrial metrics. For instance, the European Automobile Manufacturers Association reported an 8.3 percent decrease in global truck production in 2024. This decline highlights the substantial difficulties legacy automotive manufacturing faces as alternative propulsion technologies gain prominence.

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Market Driver

Increasing construction activities and infrastructure projects are elevating the demand for heavy-duty vehicles, particularly in the public transportation realm, thereby establishing a steady revenue stream for component suppliers. As municipal authorities focus on modernizing transit systems to accommodate urban growth, the acquisition of buses necessitates durable engine assemblies designed for high-frequency usage. This continued funding for public mobility acts as a buffer against wider market slumps, securing a foundational demand for camshafts in heavy commercial sectors. As noted in the 'New commercial vehicle registrations: vans, trucks and buses' report by the European Automobile Manufacturers Association in October 2025, new EU bus registrations recovered by 3.6 percent during the first three quarters of 2025, underscoring the segment's expansion despite economic difficulties.

Simultaneously, the enforcement of rigorous emission standards and fuel efficiency requirements is hastening the uptake of cutting-edge camshaft technologies. Instead of entirely eliminating internal combustion engines, these rules are encouraging a transition to hybrid commercial vehicles, which employ complex valve timing to refine fuel combustion and lower emissions. This evolution maintains the importance of precision camshafts within electrified powertrains, evidenced by the European Automobile Manufacturers Association's July 2025 report showing a 7.1 percent rise in hybrid van registrations in the first half of the year. Moreover, global dependence on conventional combustion remains extensive; the China Association of Automobile Manufacturers reported in January 2025 that exports of traditional fuel vehicles from China surged by 23.5 percent to 4.57 million units in 2024, verifying the enduring industrial magnitude of internal combustion engine manufacturing.

Market Challenge

The rapid global move toward electric mobility poses a core threat to the commercial vehicle camshaft sector by progressively reducing the requirement for internal combustion engine parts. In contrast to conventional gasoline or diesel engines, electric trucks depend on battery-operated motors that function without valve trains or camshafts. As original equipment manufacturers reallocate their capital investments toward electric powertrain advancements, the total available market for mechanical engine components unavoidably contracts, creating a constrained landscape for traditional suppliers who confront dwindling order quantities despite growth in the wider logistics industry.

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This reduction in conventional automotive manufacturing is already influencing key industrial results, indicating lowered demand for powertrain accessories. Data from the China Association of Automobile Manufacturers reveals that annual commercial vehicle production decreased by 5.8 percent in 2024, dropping to 3.805 million units. This recession in the world's primary manufacturing hub demonstrates how the transition away from traditional propulsion methods is directly impeding camshaft procurement, compelling the industry to adapt to structurally reduced production needs.

Market Trends

The broad acceptance of hollow shaft technology is redefining manufacturing approaches as OEMs focus on reducing weight. In contrast to solid cast iron parts, these assembled camshafts employ a modular architecture that decreases rotational mass while maintaining structural soundness. This shift facilitates the use of high-strength steel while lowering material density, a commercial trend supported by recent procurement figures. For instance, a July 2024 press release from Thyssenkrupp Automotive Technology regarding their Chemnitz site confirmed a multi-million euro contract to deliver 200,000 efficient drivetrain components annually, validating the expansion of advanced shaft designs.

At the same time, the incorporation of Variable Valve Timing (VVT) into heavy-duty diesel engines is increasing to satisfy thermal management requirements. By actively modifying valve lift, these systems allow for cylinder deactivation, maintaining ideal exhaust temperatures for aftertreatment systems during low-load scenarios. This technology reduces pumping losses and improves thermodynamic efficiency, with operational advantages proven in actual logistics settings. As reported by DieselNet in a July 2024 article, standardized highway tests of a heavy-duty truck utilizing cylinder deactivation technology showed a 2.76 percent decrease in fuel usage, highlighting the economic benefits fueling this adoption.

Key Market Players

Melling Engine Parts

LACO camshafts

JBM Industries

MAHLE GmbH

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Newman Cams

Meritor

Piper RS Ltd

Kautex Textron

ThyssenKrupp

Estas Camshaft

Report Scope

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

Commercial Vehicle Camshaft Market, By Vehicle Type

LCV

M&HCV

Commercial Vehicle Camshaft Market, By Manufacturing Technology

Cast Camshaft

Forged Camshaft

Assembled Camshaft

Commercial Vehicle Camshaft Market, By Fuel Type

Gasoline

Diesel

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Commercial Vehicle Camshaft Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

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Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

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

Available Customizations:

Global Commercial Vehicle 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).

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