

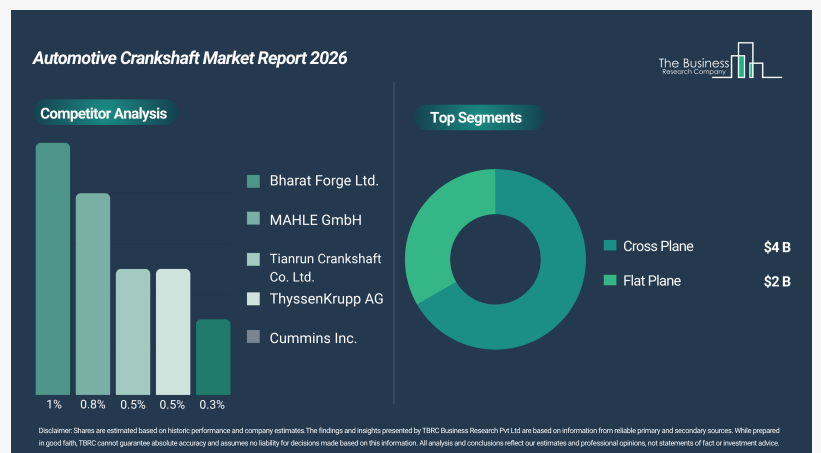
Automotive Crankshaft Market Set to Grow Steadily at a 5% CAGR Until 2030

The Business Research Company's Automotive Crankshaft Market Report 2026 – Market Size, Trends, And Global Forecast 2026-2035

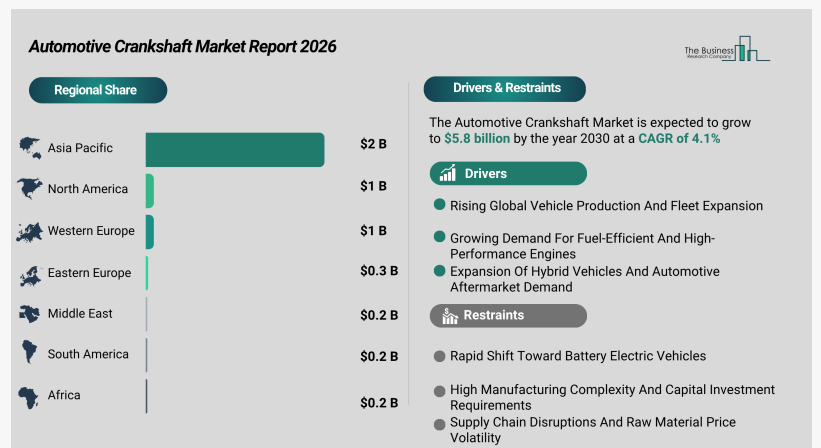
LONDON, GREATER LONDON, UNITED KINGDOM, October 12, 2026 /EINPresswire.com/ -- "The [automotive crankshaft market](#) is carving out a significant niche within the larger transport vehicle components sector, reflecting shifts in vehicle production, technological advancements, and evolving consumer demands. As the automotive industry advances toward higher efficiency and performance, the crankshaft market is expected to experience steady expansion over the coming years. Let's explore the market's size, key growth drivers, segmentation, regional insights, competitive landscape, and emerging trends shaping its future.

Market Size and Forecast for the Automotive Crankshaft Market

By 2030, the automotive crankshaft market is projected to surpass \$6 billion. This segment forms about 1% of the Transport Vehicle Components market, which is anticipated to reach an approximate value of \$1,140 billion the same year. When viewed within the entire Transport industry, forecasted at \$9,400 billion by 2030, automotive crankshafts will account for nearly 0.1% of that total. Key statistics include an expected compound annual growth rate (CAGR) of 4% through 2030, with Asia-Pacific emerging as the largest regional market. Bharat Forge Ltd. leads as the top company in 2025, holding a 1% market share, while the top 10 players collectively represent 5% of the market.



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Primary Factors Propelling Growth in
the Automotive Crankshaft Market
One of the main engines of growth in
this market is the rising global

production of vehicles and the expansion of vehicle fleets. Increasing manufacturing of passenger cars, light and heavy commercial vehicles ensures consistent demand for crankshafts from original equipment manufacturers (OEMs) and replacement parts suppliers. Urbanization trends, expanding freight volumes, infrastructure development, and higher vehicle ownership rates further amplify the need for robust crankshafts, particularly in combustion and hybrid engines. This factor is projected to contribute approximately 2.4% annually to the market's growth.

Another critical driver is the growing emphasis on fuel-efficient and high-performance engines. Automakers are increasingly adopting advanced forged steels, precision machining techniques, and optimized crankshaft designs to enhance engine efficiency, reduce vibrations, and extend durability. These improvements help manufacturers meet stricter fuel economy regulations and emission standards. The demand for lightweight, high-strength components spans passenger, premium, and commercial vehicle segments, contributing around 2.2% annual growth to the market.

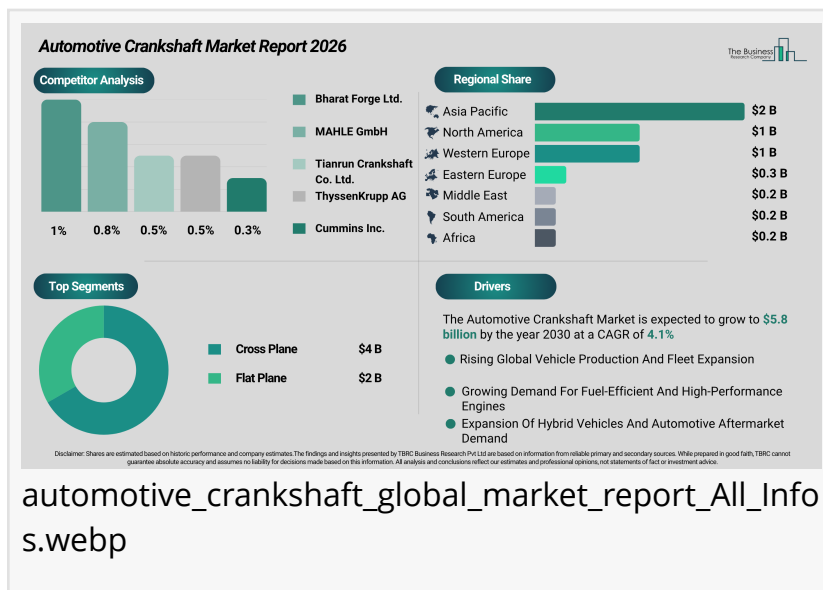
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Expansion of Hybrid Vehicles and Aftermarket Demand Supporting Market Momentum

The rise in hybrid vehicle production is fueling the need for durable, high-performance crankshafts capable of withstanding frequent start-stop engine cycles. Additionally, aging vehicle fleets, longer lifespans, and increased repair and maintenance activities sustain aftermarket demand for crankshaft replacements. This steady aftermarket business adds roughly 2.0% annual growth to the overall market, ensuring manufacturers have reliable long-term revenue streams.

Breakdown of Market Segments with a Focus on Automotive Crankshaft Types



The automotive crankshaft market is categorized mainly by type into flat plane and cross plane crankshafts. Cross plane crankshafts are expected to dominate in 2030, making up about 66% of the market, or \$4 billion in value. This segment's strength lies in its widespread use in V-type engines, favored for smoother engine operation, stronger torque output in passenger and utility vehicles, and superior vibration control. Improved forging and balancing techniques also boost durability and overall engine performance for cross plane crankshafts.

Further segmentation includes materials, divided into forged iron or steel and cast iron or steel varieties. The market is also segmented by vehicle type, covering heavy commercial vehicles, light commercial vehicles, luxury vehicles, passenger vehicles, sport utility vehicles (SUVs), multi-utility vehicles (MUVs), and other types, offering a detailed view of demand across different automotive categories.

Asia-Pacific Positioned as the Leading Regional Market for Automotive Crankshafts

Asia-Pacific is forecasted to maintain its position as the largest market for automotive crankshafts in 2030, with a valuation of \$2.1 billion, up from \$1.7 billion in 2025. This reflects a steady compound annual growth rate of 4%. Growth drivers in this region include increasing vehicle production in emerging economies, demand for durable engine components in commercial and passenger vehicles, ongoing investments in automotive manufacturing facilities, and efforts to localize powertrain component production, all contributing to strengthening regional supply chains.

United States to Lead as the Largest Country Market for Automotive Crankshafts

By 2030, the USA is set to be the largest single-country market in automotive crankshafts, valued at \$1.2 billion, growing from \$1.0 billion in 2025 at a 4% CAGR. This growth is driven by sustained demand for aftermarket replacement parts, ongoing production of high-performance combustion engines, investments in precision machining, and consistent needs for reliable powertrain components in commercial and utility vehicles.

Competitive Dynamics and Industry Players in the [Automotive Crankshaft Industry](#)

The automotive crankshaft market is shaped by a mix of global automotive component manufacturers and specialized engine technology suppliers. Leading companies are focusing on lightweight crankshaft designs, advanced forging and machining processes, high-strength materials, and precision manufacturing techniques to meet evolving demands for engine durability, fuel efficiency, and emissions compliance. Competitive success hinges on innovations that improve performance, reduce weight, and enhance production efficiency.

In 2025, Bharat Forge Ltd. stood out as the market leader with a 1% share, producing forged crankshafts, engine components, and precision-engineered solutions for a range of vehicles including passenger, commercial, and high-performance cars.

Market Fragmentation and Distribution of Market Shares

The automotive crankshaft market is characterized by fragmentation, with the top 10 players

accounting for just 5% of total revenue as of 2025. This low concentration results from numerous regional and global manufacturers competing across diverse vehicle production needs. Manufacturers must adhere to advanced forging, stringent quality standards, and precise engineering to serve passenger, commercial, and high-performance segments effectively. Leading firms maintain their positions through diversified crankshaft portfolios, strong forging and machining capabilities, well-established automaker relationships, global manufacturing sites, and continued innovation. As the push for lightweight components and fuel-efficient powertrains grows, collaborations, technological advancements, and regional expansion strategies will become increasingly important.

Leading Companies and Their Market Shares in 2025

The major players and their respective market shares in 2025 include:

- Bharat Forge Ltd.: 1%
- MAHLE GmbH: 1%
- Tianrun Crankshaft Co. Ltd.: 1%
- ThyssenKrupp AG: 1%
- Cummins Inc.: 0.3%
- Happy Forgings Limited: 0.3%
- Balu Forge Industries Ltd.: 0.3%
- Sandvik AB: 0.2%
- SPR Auto Technologies Ltd: 0.2%
- Cooper Corporation: 0.2%

Innovations and Trends Transforming the Automotive Crankshaft Market

The market is witnessing transformative advances in manufacturing technology focused on increasing crankshaft strength, reducing weight, enhancing durability, and improving engine efficiency. For example, in August 2024, DRiV introduced Wagner sensors—a global range of crankshaft and camshaft position sensors designed for automotive applications. These sensors provide reliable performance, ease of installation, and a comprehensive portfolio that supports efficient vehicle repairs, better engine control, and growing demand for sophisticated automotive components.

Areas Offering Significant Expansion Potential in Automotive Crankshafts

The flat plane and cross plane crankshaft segments present the largest opportunities for growth, expected to collectively generate over \$1 billion additional market value by 2030. Cross plane crankshafts are anticipated to grow by \$0.7 billion, while flat plane crankshafts are projected to increase by \$0.3 billion between 2025 and 2030. Growth drivers include precision forging, advanced machining technologies, demand for lightweight and high-strength materials, investments aimed at optimizing engine performance, and innovations enhancing durability, balance, and fuel efficiency.

Strategic Approaches Driving Competitiveness in the Market

Key competitive strategies within the automotive crankshaft market involve:

- Developing lightweight crankshaft technologies to boost performance and fuel economy
- Utilizing advanced forging and manufacturing techniques for improved strength and precision
- Expanding automotive production capabilities to meet increasing market demand
- Incorporating cutting-edge materials to enhance reliability and resistance to wear

Notable Companies Playing a Role in the Automotive Crankshaft Market

Some of the prominent companies active in this sector include Bharat Forge Ltd., MAHLE GmbH, Tianrun Crankshaft Co. Ltd., ThyssenKrupp AG, Cummins Inc., Happy Forgings Limited, Balu Forge Industries Ltd., Sandvik AB, SPR Auto Technologies Ltd., Cooper Corporation, Arrow Precision Ltd., Maschinenfabrik ALFING Kessler GmbH, Metalyst Forgings Ltd., Kay Jay Forgings Private Limited, Ciguenales Sanz SL, NSI Crankshaft, Crower Cams & Equipment Co. Inc., Bryant Racing Inc., SCAT Enterprises, Winberg Crankshafts, and Sage Crankshaft Industry.

Overview of the Automotive Crankshaft Market Supply Chain and Customers

Key raw material suppliers supporting this market include ArcelorMittal S.A., Nippon Steel Corporation, POSCO Holdings Inc., Tata Steel Limited, JFE Steel Corporation, Thyssenkrupp AG, United States Steel Corporation, Nucor Corporation, SSAB AB, Voestalpine AG, Baosteel Group Corporation Limited, Hyundai Steel Company, JSW Steel Limited, Gerdau S.A., Cleveland-Cliffs Inc., TimkenSteel Corporation, Schmolz + Bickenbach AG, Carpenter Technology Corporation, Kobe Steel Ltd., Steel Authority of India Limited, Ovako AB, Daido Steel Co., Ltd., Hitachi Metals Ltd., Sumitomo Metal Mining Co., Ltd., and Allegheny Technologies Incorporated.

Wholesalers and distributors serving the market include LKQ Corporation, Genuine Parts Company, AutoZone, Inc., O'Reilly Automotive, Inc., Advance Auto Parts, Inc., NAPA Auto Parts (Genuine Parts Company), Parts Authority LLC, Uni-Select Inc., Dorman Products, Inc., WHI Solutions, Inc., U.S. AutoForce, Inc., Alliance Automotive Group, Groupauto International, Mekonomen Group AB, Euro Car Parts Limited, Mister Auto SAS, Trodo AB, Inter Cars S.A., AAG (Alliance Automotive Group) Germany, Autodistribution Group, Schaeffler Automotive Aftermarket Distribution, Bosch Automotive Aftermarket Distribution, ZF Aftermarket Distribution, and Tenneco Aftermarket Distribution.

Prominent end users in the automotive crankshaft market consist of Toyota Motor Corporation, Volkswagen AG, Ford Motor Company, General Motors Company, Stellantis N.V., Honda Motor Co., Ltd., BMW AG, Mercedes-Benz Group AG, Nissan Motor Co., Ltd., Renault Group, Tata Motors Limited, Mahindra & Mahindra Limited, Suzuki Motor Corporation, Mazda Motor Corporation, Subaru Corporation, Geely Automobile Holdings Limited, BYD Company Limited, SAIC Motor Corporation Limited, Changan Automobile Co., Ltd., Great Wall Motor Company Limited, Mitsubishi Motors Corporation, Isuzu Motors Limited, Volvo Car AB, and PACCAR Inc.

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