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Global Automotive Crankshaft Market Size Study & Forecast, by Crankshaft Type (Forged, Cast, Billet), by Vehicle Type (Passenger Vehicles, Commercial Vehicles) and Regional Forecasts 2025-2035

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Abstracts

The Global Automotive Crankshaft Market is valued at approximately USD 4,981.1 million in 2024 and is projected to expand at a steady CAGR of 4.5% throughout the forecast period 2025–2035, with Historical Data covering 2023 and 2024 and the Base Year for Estimation fixed at 2024. A crankshaft stands at the very heart of an internal combustion engine, translating the linear motion of pistons into rotational energy that ultimately propels the vehicle forward. As vehicle architectures evolve and powertrain efficiencies are pushed to higher thresholds, crankshafts are no longer viewed as commodity components but as precision-engineered assets that directly influence engine performance, durability, and fuel economy. Market growth is being underpinned by rising global vehicle production, long-term demand for engine downsizing, and continuous optimization of combustion systems across passenger and commercial vehicles.

The market’s upward momentum is further being carried forward by manufacturing innovation and material science breakthroughs that are reshaping how crankshafts are designed and produced. OEMs are increasingly phasing in lightweight yet high-strength alloys to reduce rotational mass, improve thermal stability, and comply with tightening emission norms. At the same time, advancements in CNC machining, precision forging, and surface finishing technologies are enabling manufacturers to push dimensional accuracy and fatigue resistance to new benchmarks. While electrification presents a structural shift for the automotive sector, the sustained dominance of internal combustion and hybrid vehicles—particularly in emerging economies—continues to prop up crankshaft demand, ensuring relevance well into the forecast window of 2025–2035.

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The detailed segments and sub-segments included in the report are:

By Crankshaft Type:

- Forged Crankshaft
- Cast Crankshaft
- Billet Crankshaft

By Material:

- Steel Alloy
- Cast Iron
- Billet Steel
- Other Materials

By Manufacturing Process:

- Precision Forging
- Casting
- CNC Machining
- Heat Treatment & Surface Finishing

By Vehicle Type:

- Passenger Vehicles
- Commercial Vehicles

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By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Italy
- Spain
- Rest of Europe

Asia Pacific

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

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Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

UAE

South Africa

Rest of Middle East & Africa

Passenger vehicles are expected to dominate the Global Automotive Crankshaft Market, accounting for the largest share over the forecast period. This dominance is largely attributed to the sheer scale of global passenger car production, rising personal mobility needs, and steady replacement demand in both mature and developing markets. As automakers roll out fuel-efficient gasoline and hybrid models, crankshafts optimized for smoother torque delivery and lower vibration are increasingly being engineered into mass-market vehicles. While commercial vehicles contribute significant value, it is the passenger vehicle segment that continues to anchor volume demand and sustain manufacturing scale economies for crankshaft suppliers.

In terms of revenue contribution, forged crankshafts currently lead the market, commanding the lion’s share owing to their superior strength, fatigue resistance, and suitability for high-performance and high-load applications. Forged variants are widely deployed across premium passenger cars and heavy-duty commercial vehicles, where engine reliability is mission-critical. Cast crankshafts, on the other hand, maintain strong penetration in cost-sensitive segments due to lower production costs and adequate performance for moderate engine outputs. Meanwhile, billet crankshafts—though niche—are gaining visibility in motorsports and high-performance customization, reflecting a layered market structure where revenue leadership and growth trajectories

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diverge by application and performance requirement.

The regional landscape of the Global Automotive Crankshaft Market reflects a mix of industrial maturity and emerging opportunity. Asia Pacific stands out as the fastest-growing region, propelled by large-scale automotive manufacturing hubs in China, India, and Japan, along with expanding domestic vehicle consumption. North America remains a significant contributor, supported by technological leadership, strong demand for pickup trucks and SUVs, and a robust aftermarket ecosystem. Europe continues to hold a strategic position, driven by precision engineering expertise and stringent emission regulations that encourage advanced crankshaft designs. Meanwhile, Latin America and the Middle East & Africa are gradually gaining momentum as vehicle ownership rises and localized manufacturing investments take shape.

Major market players included in this report are:

Thyssenkrupp AG

Bharat Forge Limited

Mahindra CIE Automotive India Ltd.

ZF Friedrichshafen AG

Nippon Steel Corporation

Crower Cams & Equipment Co., Inc.

Tupy S.A.

NSI Crankshaft

Riken Corporation

Kellogg Crankshaft Company

Sona BLW Precision Forgings Ltd.

Precision Camshafts Limited

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Scat Enterprises, Inc.

Tianrun Crankshaft Co., Ltd.

Maschek Automotive

Global Automotive Crankshaft Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define and forecast the Global Automotive Crankshaft Market size across key segments and countries, drawing insights from both qualitative assessments and quantitative modeling. By integrating Historical Data from 2023 and 2024 with forward-looking projections through 2035, the report offers a comprehensive view of how manufacturing technologies, material transitions, and vehicle mix evolution will influence demand. It further highlights competitive positioning, strategic investments, and micro-market opportunities, enabling stakeholders to align long-term strategies with shifting dynamics across the global automotive value chain.

Key Takeaways:

Market estimates and forecasts spanning 2025 to 2035

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Annualized revenue analysis at regional and segment levels

In-depth geographical assessment with country-level insights

Competitive landscape profiling of leading market participants

Strategic evaluation of business models and future growth pathways

Analysis of competitive structure alongside demand- and supply-side dynamics

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