

# Automotive Balance Shaft Market to Surpass USD 29.36 Billion by 2035, Driven by Engine Modified & Hybrid Vehicle Demand

The automotive balance shaft market is expanding as automakers aim to reduce engine vibrations and enhance driving comfort in modern internal combustion engines

NEWARK, DE, UNITED STATES, May 22, 2025 /EINPresswire.com/ -- The global automotive balance shaft market is poised for sustained expansion, projected to grow at a compound annual growth rate (CAGR) of 5.8% from USD 16,710 million in 2025 to exceed USD 29,365.1 million by 2035. This growth is supported by the



increasing demand for smoother engine performance, enhanced ride comfort, and reduced vibration in vehicles powered by internal combustion engines (ICE) and hybrid systems. The continued adoption of balance shafts in mid- and high-range vehicles is being driven by the automotive industry's focus on performance optimization and noise, vibration, and harshness

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Balance shafts play a pivotal role in refining engine smoothness, making them essential components in today's pursuit of quieter, more efficient vehicles."

Nikhil Kaitwade

(NVH) reduction. Moreover, the market's resilience is supported by strong demand in segments like hybrid vehicles and commercial fleets, where electrification is expected to take a relatively longer route. These vehicle categories will continue to depend on refined ICE components, thereby extending the relevance of balance shafts well into the coming decade.

Adoption of balance shafts is being further propelled by technological advancements such as the use of lightweight

materials, integration with variable valve timing (VVT) systems, and modular engine architectures that allow greater design flexibility. Automakers are embracing modularity to achieve platform consolidation and production efficiency, which is providing ample room for the adoption of

balance shafts across various engine configurations. Additionally, the move towards downsized turbocharged engines has increased the use of balance shafts to counteract the inherent imbalance in three- and four-cylinder powertrains. As stringent emission norms push automakers to explore more fuel-efficient solutions, balance shafts are proving to be a crucial component in maintaining refinement without compromising on engine efficiency.

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Key Takeaways from the Automotive Balance Shaft Market:

The market is forecast to grow significantly, at a CAGR of 5.8% between 2025 and 2035, driven by the need to enhance vehicle performance and comfort. Hybrid powertrains and ICE-powered commercial fleets are expected to anchor long-term demand. Asia Pacific will continue to dominate the market owing to a high concentration of vehicle production and a growing middle-class population with increasing disposable income. The aftermarket segment is expected to experience steady growth, especially in regions with aging vehicle fleets. Product innovation in balance shaft materials and compact designs will help manufacturers meet stricter performance and emissions targets.

Emerging Trends in the Global Automotive Balance Shaft Market:

One of the key trends shaping the automotive balance shaft market is the use of lightweight materials such as aluminum alloys and composites, which reduce overall engine weight while preserving structural integrity and performance. These innovations align with global efforts to improve fuel economy and reduce vehicular emissions. Another notable trend is the increasing integration of balance shafts with electronically controlled VVT systems, which allow more precise engine timing and enhanced responsiveness. This synergy between engine components supports better fuel economy and lower NVH levels.

Engine downsizing, particularly among passenger cars, is another significant trend. Smaller engines inherently suffer from vibration and balance issues, particularly in three-cylinder configurations. To counter this, manufacturers are equipping these powertrains with balance shafts to provide a smoother driving experience. Additionally, modular engine design is becoming mainstream, allowing OEMs to use standardized components—including balance shafts—across various models and brands, thus achieving cost efficiencies and simplifying production.

Significant Developments in the Global Sector: Trends and Opportunities in the Market:

Across the automotive sector, OEMs are channeling investments into the development of advanced engine components that meet evolving regulatory and performance demands. In the balance shaft domain, there is growing focus on compact, integrated systems that offer high

performance without adding excessive weight or complexity. Suppliers are also exploring additive manufacturing techniques to produce custom-shaped balance shafts that optimize engine balance and packaging.

Opportunities lie in emerging markets such as Southeast Asia, Latin America, and parts of Eastern Europe, where vehicle production is growing steadily and ICE-powered models remain dominant. The medium-term outlook is especially positive in markets where hybrid vehicle penetration is increasing, but full electrification remains distant due to infrastructure or cost constraints. Additionally, there's increasing focus on aftermarket opportunities, especially in regions with a high population of older vehicles requiring regular engine overhauls or component replacements.

### Recent Developments in the Market:

The last few years have witnessed notable advancements and strategic initiatives in the automotive balance shaft space. Key players have launched new product lines featuring improved geometry and enhanced damping performance. Several companies have invested in expanding their R&D capabilities to develop balance shafts compatible with hybrid engines. Additionally, global manufacturers are setting up production facilities closer to emerging markets to reduce costs and meet regional demand efficiently. Strategic collaborations between OEMs and tier-1 suppliers are increasingly common, aimed at co-developing next-generation balance shaft systems that align with future emission standards and vehicle architectures.

Detailed Market Study: Full Report and Analysis <a href="https://www.futuremarketinsights.com/reports/automotive-balance-shaft-market">https://www.futuremarketinsights.com/reports/automotive-balance-shaft-market</a>

## Competition Outlook:

The automotive balance shaft market is moderately consolidated, with leading players focusing on product innovation, capacity expansion, and cost-effective manufacturing. Companies are competing on the basis of technological advancement, durability, and integration capabilities with modern engine architectures. The market is witnessing rising competition in Asia and Latin America, where local manufacturers are increasingly offering competitive products to meet regional demand.

# **Key Players**

Some of the major players operating in the global automotive balance shaft market include INA (Schaeffler Group), Metaldyne (American Axle & Manufacturing), Sansera Engineering, LACO Automotive, Musashi Seimitsu Industry Co., Ltd., Otics Corporation, TFO Corporation, Mitec-Jebsen Automotive Systems, and Engine Power Components, Inc. These companies are actively engaged in expanding their product portfolios, optimizing production techniques, and forming strategic alliances to strengthen their global footprint.

### Key segmentations

The key segmentations in the market include manufacturing method (forged balance shafts and cast balance shafts), engine type (inline-3, inline-4, inline-5), vehicle type (passenger vehicles, light commercial vehicles, heavy commercial vehicles), and sales channel (OEM and aftermarket). Among these, the inline-4 segment is expected to maintain dominance due to its widespread application in mass-market passenger vehicles. OEM sales will continue to represent the largest share, while the aftermarket will experience growing traction in regions with high rates of vehicle aging and component replacement.

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