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Automotive Steering Knuckle Market Forecasts to 2032 – Global Analysis By Vehicle Type (Passenger Cars, Commercial Vehicles and Other Vehicle Types), Material Type (Cast Iron, Steel, Aluminum, Magnesium and Other Material Types), Manufacturing Process, Sales Channel and By Geography

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Abstracts

According to Stratistics MRC, the Global Automotive Steering Knuckle Market is accounted for $7.3 billion in 2025 and is expected to reach $9.8 billion by 2032 growing at a CAGR of 4.4% during the forecast period. Automotive steering knuckle is a critical suspension component that connects the wheel hub to the vehicle's steering and suspension systems. It facilitates wheel rotation while supporting braking and load-bearing functions. Designed to accommodate control arms, tie rods, and struts, the knuckle plays a pivotal role in maintaining directional stability and handling performance. Its geometry and material composition are engineered to withstand dynamic forces, making it essential for safe and responsive vehicle operation across varying road conditions.

Market Dynamics:

Driver:

Adoption of advanced driver assistance systems (ADAS) and autonomous vehicles

The increasing integration of ADAS and autonomous driving technologies is significantly influencing the demand for high-performance steering knuckles. These components must now accommodate sensors, actuators, and lightweight materials to support

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enhanced vehicle control and safety. The shift toward modular vehicle architectures and steer-by-wire systems is also accelerating innovation in knuckle design. This trend is particularly evident in premium and electric vehicle segments, where precision and durability are critical.

Restraint:

Design and manufacturing complexity

Manufacturers must balance strength, weight, and compatibility with suspension and braking systems, often requiring advanced simulation and prototyping tools. The use of multi-material assemblies and precision casting or forging techniques adds to production costs and lead times. Additionally, ensuring dimensional accuracy and fatigue resistance under dynamic loads demands rigorous quality control. These complexities can deter smaller suppliers and limit scalability across vehicle platforms.

Opportunity:

Growing demand for off-road and all-terrain vehicles

The rising popularity of off-road and utility vehicles is creating new avenues for steering knuckle manufacturers. These vehicles require robust, corrosion-resistant knuckles capable of withstanding extreme terrain and high-impact conditions. As adventure tourism and recreational driving gain traction globally, OEMs are expanding their off-road portfolios, prompting demand for reinforced suspension components. Moreover, the agricultural and defense sectors are investing in specialized vehicles, further boosting the need for durable steering knuckles.

Threat:

Stringent regulations and standards

Global automotive safety and emissions regulations are placing pressure on component manufacturers to meet evolving compliance benchmarks. Steering knuckles must adhere to crashworthiness, material traceability, and environmental standards, which vary across regions. Regulatory bodies are increasingly mandating lifecycle assessments and recyclability metrics, complicating material selection and design processes. Non-compliance can lead to recalls, reputational damage, and financial penalties, especially in export-driven markets.

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Covid-19 Impact:

The COVID-19 pandemic disrupted the automotive supply chain, affecting raw material availability and manufacturing schedules for steering knuckles. Lockdowns and labor shortages led to production delays, while reduced vehicle sales impacted short-term demand. However, the crisis also accelerated digital transformation and automation in manufacturing, prompting investments in smart factories and predictive maintenance. As economies reopened, pent-up demand for personal mobility and commercial transport revived market momentum.

The passenger cars segment is expected to be the largest during the forecast period

The passenger cars segment is expected to account for the largest market share during the forecast period due to their high production volumes and continuous design evolution. These vehicles demand lightweight yet structurally sound knuckles to enhance fuel efficiency and ride comfort. With growing consumer preference for safety features and advanced suspension systems, manufacturers are innovating knuckle geometries to support multi-link setups and adaptive damping. The proliferation of electric and hybrid cars also necessitates integration with regenerative braking and electronic steering modules, reinforcing the market growth.

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

Over the forecast period, the aluminum segment is predicted to witness the highest growth rate owing to their superior strength-to-weight ratio and corrosion resistance. As automakers pursue aggressive weight reduction strategies to meet fuel economy and emission targets, aluminum is emerging as the material of choice. Advancements in casting and heat treatment technologies have enabled the production of complex aluminum knuckles with enhanced fatigue life. Additionally, aluminum’s recyclability aligns with sustainability goals, making it attractive for OEMs focused on circular manufacturing practices increased adoption in electric and luxury vehicles.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share driven by its mature automotive industry and strong demand for high-performance vehicles. The region hosts several leading OEMs and Tier-1 suppliers

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investing in advanced suspension technologies and lightweight components. Regulatory emphasis on vehicle safety and emission control is prompting innovation in steering knuckle design. Moreover, the popularity of SUVs and pickup trucks, which require robust steering assemblies, is further propelling market growth.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR due to rapid urbanization, rising vehicle ownership, and expanding manufacturing capabilities. Countries like China, India, and South Korea are experiencing a surge in automotive production, supported by favorable government policies and infrastructure development. The region’s cost-effective labor and material availability are attracting global players to set up local manufacturing units. Additionally, the growing penetration of electric vehicles and smart mobility solutions is driving demand for technologically advanced steering knuckles.

Key players in the market

Some of the key players in Automotive Steering Knuckle Market include ZF Friedrichshafen AG, Magna International Inc., Thyssenkrupp AG, Bharat Forge Ltd., American Axle & Manufacturing Holdings Inc., Hitachi Astemo Ltd., Fawer Automotive Parts Limited Company, JTEKT Corporation, Mevotech LP, Teksid S.p.A., Neapco Holdings LLC, Waupaca Foundry Inc., Fagor Ederlan Group, Sundaram Clayton Limited, Wanxiang Group Corporation, NSK Ltd., and Dana Incorporated.

Key Developments:

In May 2025, Magna International Inc. announced Euro and U.S. senior notes offerings (bond issuances) intended for general corporate purposes and potential debt refinancing. The offering documents specify expected closing dates and coupon details for the Euro and U.S. dollar notes.

In May 2025, Bharat Forge Independent coverage reported collaboration/technology developments with DRDO on light-weight small arms and other defence projects

In May 2025, ZF Aftermarket launched a Software Update Management solution and simplified software-update processes for trailer OEMs to improve OTA capabilities and reduce service complexity. The product aims to streamline firmware/software distribution across fleets and reduce downtime for trailer operators.

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Vehicle Types Covered:

- Passenger Cars
- Commercial Vehicles
- Other Vehicle Types

Material Types Covered:

- Cast Iron
- Steel
- Aluminum
- Magnesium
- Other Material Types

Manufacturing Processes Covered:

- Casting
- Forging
- Machining
- Other Manufacturing Processes

Sales Channels Covered:

- Original Equipment Manufacturer (OEM)
- Aftermarket

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Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea

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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:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- 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

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

- Company Profiling
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  - 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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11.10 Teksid S.p.A.
11.11 Neapco Holdings LLC
11.12 Waupaca Foundry Inc.
11.13 Fagor Ederlan Group
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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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