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Automotive Fasteners Market Size, Share & Trends Analysis Report By Product Type (Threaded Fasteners, Non-threaded Fasteners), By Material (Metal, Plastic/Composite), By Application (Powertrain & Chassis), By Vehicle Type, By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

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Automotive Fasteners Market Summary

The global automotive fasteners market size was estimated at USD 21.61 billion in 2024 and is projected to reach USD 35.73 billion by 2033, growing at a CAGR of 5.8% from 2025 to 2033. The automotive fasteners industry is gaining momentum, driven by increasing electric vehicle (EV) production and the growing use of plastics and composites in vehicle interiors and electrical systems.

Expanding vehicle production in Asia Pacific and re-shoring trends in North America are further supporting demand. The rising adoption of modular vehicle architectures is also contributing to the increased need for advanced fastening solutions. The development of smart and self-locking fasteners tailored for autonomous and connected vehicles presents significant opportunities for manufacturers to innovate and differentiate. However, maintaining fastening integrity in multi-material vehicle designs remains a key challenge due to varying thermal and mechanical properties.

According to the India Brand Equity Foundation, the Indian EV battery market is projected to grow from USD 16.77 billion in 2023 to USD 27.70 billion by 2028,

underscoring the scale of electrification in the country. India has outlined aggressive EV adoption targets by 2030, including 30% penetration in private cars and up to 80% in two-wheelers and three-wheelers. This shift is being accelerated by the 'Make in India' initiative, which promotes full-scale domestic EV production.

As OEMs worldwide prepare to launch a diverse range of EV models in 2025, the automotive fasteners segment is expected to witness rising demand for application-specific solutions. EVs require more fasteners per vehicle due to modular battery packs, thermal management systems, and high-voltage wiring assemblies. Moreover, the push for lightweighting to offset battery weight is increasing the adoption of advanced materials such as aluminum and composites, driving demand for compatible fasteners with enhanced corrosion resistance, mechanical integrity, and electrical insulation properties.

As automakers shift toward lightweight, durable, and aesthetically versatile materials to improve fuel efficiency and design flexibility, traditional metal fasteners are often unsuitable. This has led to the growing adoption of engineered fasteners designed specifically for plastic and composite assemblies, offering controlled installation torque, thermal expansion compatibility, and vibration resistance. For instance, interior components such as instrument panels, center consoles, and seat structures are now predominantly built using glass fiber-reinforced plastics (GFRP) and polymer blends, requiring fasteners that prevent cracking or loosening under thermal cycling. Similarly, electronic housings and connectors demand non-conductive, high-precision fastening to ensure reliability and safety.

In APAC, countries including China, India, and Southeast Asian nations are experiencing robust growth in automotive manufacturing due to rising domestic demand, supportive government policies, and expanding EV infrastructure. For example, India’s vehicle production exceeded 26 million units in FY2023-24, supported by investments from global OEMs and component suppliers. Meanwhile, North America is witnessing a strong re-shoring movement, with automakers and Tier-1 suppliers expanding local production to mitigate supply chain risks and comply with USMCA regional content rules. These shifts are creating higher demand for locally sourced, high-performance fasteners tailored for diverse vehicle platforms, including EVs and hybrid models.

The development of smart and self-locking fasteners presents a significant opportunity in the market, particularly with the rise of autonomous and connected vehicles. These advanced fasteners are equipped with features such as embedded sensors, torque

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monitoring, and remote locking capabilities, enabling real-time diagnostics, predictive maintenance, and enhanced safety. As vehicle electronics and Advanced Driver Assistance Systems (ADAS) become more complex, the reliability of mechanical joints becomes critical. Smart fasteners can alert systems to loosening or failure risks, reducing maintenance costs and enhancing overall system integrity. For instance, companies are investing in sensor-enabled bolting solutions that support vehicle-to-infrastructure (V2I) communication, aligning with the broader shift toward intelligent transportation systems.

Maintaining fastening integrity in multi-material vehicle designs poses a major challenge in the automotive fasteners market. As OEMs increasingly adopt lightweight materials such as aluminum, carbon fiber, magnesium alloys, and advanced plastics to improve fuel efficiency and reduce emissions, ensuring reliable fastening becomes more complex. Different thermal expansion rates, surface hardness, and galvanic corrosion risks between dissimilar materials can lead to joint failure, loosening, or stress concentration. Traditional fasteners may not provide sufficient clamping force or may degrade the integrity of softer substrates. This challenge necessitates the development of application-specific fastening solutions with features including differential thread profiles, thermal compensation, and insulating coatings to preserve joint reliability across dynamic operating conditions.

Global Automotive Fasteners Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global automotive fasteners market report based on product type, material, application, vehicle type, and region:

Product Type Outlook (Revenue, USD Million, 2021 - 2033)

Threaded Fasteners

Non-threaded Fasteners

Material Outlook (Revenue, USD Million, 2021 - 2033)

Metal

Plastic/Composite

Hybrid

Application Outlook (Revenue, USD Million, 2021 - 2033)

Powertrain & Chassis

Body & Trim

Electrical & Fluid Connectors

Vehicle Type Outlook (Revenue, USD Million, 2021 - 2033)

ICE & Commercial Vehicles

EV & Lightweight Vehicles

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

- U.S.
- Canada
- Mexico

Europe

- UK
- Germany
- France

Asia Pacific

- China

India

Japan

Australia

South Korea

Latin America

Brazil

Middle East & Africa (MEA)

UAE

Kingdom of Saudi Arabia (KSA)

South Africa

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