

Automotive Engine Front Module Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Report description:

The Global Automotive Engine Front Module Market was valued at USD 131.1 billion in 2024 and is projected to grow at a CAGR of 4.9% from 2025 to 2034. This growth is largely fueled by the rapid expansion of the electric vehicle (EV) industry, which demands specialized thermal management systems to optimize battery and critical component performance. Additionally, the increasing production of passenger and commercial vehicles continues to drive demand for advanced front-end systems, reflecting the growing need for efficiency and performance in modern automotive design.

Global urbanization and rising disposable incomes are propelling passenger car sales, especially in emerging markets. Simultaneously, the booming e-commerce and logistics sectors are increasing commercial vehicle production. These trends are creating significant demand for robust, technologically advanced engine front modules that meet the evolving needs of the automotive industry.

The market is segmented into composites, metal, and plastics, with metals dominating in 2024 at a 45% market share, generating USD 95 billion by 2034. Steel and aluminum are particularly favored due to their exceptional durability, heat resistance, and mechanical strength. Aluminum's lightweight properties not only enhance fuel efficiency but also ensure structural integrity, aligning with industry trends for improved sustainability and performance.

In terms of vehicle type, passenger vehicles commanded a 73% market share in 2024, driven by their high production and sales volumes worldwide. Factors such as urbanization, increasing disposable incomes, and growing consumer preferences for personal mobility are accelerating demand. Moreover, advancements in lightweight materials and thermal management technologies are being increasingly integrated into passenger vehicles, boosting their fuel efficiency and overall performance.

The Asia Pacific automotive engine front module market captured 40% of the global share in 2024, with projections to generate USD 85 billion by 2034. China stands out as a dominant force, expected to contribute USD 35 billion during this period, owing to

its position as a global hub for automotive manufacturing and consumption. The region's emphasis on electric vehicle production and strict fuel efficiency regulations is further driving the adoption of lightweight materials, enhancing demand for cutting-edge engine front modules.

In conclusion, the automotive engine front module market is poised for robust growth, underpinned by advancements in EV technology, lightweight materials, and rising global vehicle production. These trends not only cater to the evolving needs of the automotive sector but also support its goals of efficiency, performance, and sustainability.

Table of Contents:

Report Content Chapter 1 ☐ Methodology & Scope 1.1 Research design 1.1.1 Research approach 1.1.2 Data collection methods 1.2 Base estimates and calculations 1.2.1 Base year calculation 1.2.2 Key trends for market estimates 1.3 1.4 Primary research & validation 1.4.1 Primary sources 1.4.2 1.5 Market definition Chapter 2 Executive Summary 2.1 Industry 360 synopsis, 2021 - 2034 Chapter 3 Industry Insights 3.1 Industry ecosystem analysis 3.2 Supplier landscape 3.2.1 Raw material suppliers 3.2.2 Component manufacturers 3.2.3 Module assemblers 3.2.4 TIPT Tier-1 suppliers 3.2.5 OEMs (Original Equipment Manufacturers) 3.3 Profit margin analysis 3.4 Cost breakdown analysis 3.5 Technology & innovation landscape 3.6 Key news & initiatives 3.7 Regulatory landscape 3.8 []]] Impact forces 3.8.1 Growth drivers 3.8.1.1 Rising demand for lightweight and sustainable materials 3.8.1.2 The rapid expansion of the EV market 3.8.1.3 Technological integration of smart sensors, active grille shutters, and modular designs 3.8.1.4 Growth in passenger car and commercial vehicle production 3.8.1.5 Focus on crash safety and durability

3.8.2 Industry pitfalls & challenges

3.8.2.1 High initial investment costs 3.8.2.2 Complex supply chain 3.9 Growth potential analysis 3.10 Porter's analysis 3.11 PESTEL analysis Chapter 4 ☐ Competitive Landscape, 2024 4.1 4.2 Company market share analysis 4.3 Competitive positioning matrix 4.4 Chapter 5 Market Estimates & Forecast, By Component, 2021 - 2034 (\$Bn, Units) 5.1 Key trends 5.2 Radiator 5.3 Cooling fan 5.4 []] Air conditioning condenser 5.5 Headlights and grilles 5.6 Others Chapter 6 Market Estimates & Forecast, By Vehicle, 2021 - 2034 (\$Bn, Units) 6.1 Key trends 6.2 Passenger vehicles 6.2.1 Hatchback 6.2.2 Sedan 6.2.3 SUV 6.3 Commercial vehicles 6.3.1 Light Commercial Vehicles (LCV) 6.3.2 Heavy Commercial Vehicles (HCV) Chapter 7 Market Estimates & Forecast, By Material, 2021 - 2034 (\$Bn, Units) 7.1 Key trends 7.2 Metal 7.3 Composites 7.4 Plastics Chapter 8 Market Estimates & Forecast, By Sales Channel, 2021 - 2034 (\$Bn, Units) 8.1 Key trends 8.2 8.3 Aftermarket Chapter 9 Market Estimates & Forecast, By Region, 2021 - 2034 (\$Bn, Units) 9.1 Key trends 9.2 North America 9.2.1 U.S. 9.2.2 Canada 9.3 Europe 9.3.1 UK 9.3.2 Germany 9.3.3 [[]] France 9.3.4 [[]] Spain 9.3.5 [[]] Italy 9.3.6 Russia

9.3.7 Nordics 9.4 9.4.1 China 9.4.2 [[] India 9.4.3 [[]] Japan 9.4.4 South Korea 9.4.5 ANZ 9.4.6 Southeast Asia 9.5 9.5.1 Brazil 9.5.2 Mexico 9.5.3 Argentina 9.6 9.6.1 9.6.2 South Africa 9.6.3 Saudi Arabia Chapter 10 Company Profiles 10.1 Aisin Seiki 10.2 Calsonic Kansei 10.3 Denso 10.4 Eberspacher 10.5 Faurecia 10.6 Grupo Antolin 10.7 10.8 🛄 Hella 10.9 HYUNDAI Mobis 10.10 Magna 10.11 Magneti Marelli 10.12 Mahle GmbH 10.13 III Mitsui Mining & Smelting Co 10.14 Plastic Omnium 10.15 Robert Bosch 10.16 SAS Automotive Systems 10.17 10.18 Sumitomo Riko 10.19 Tata AutoComp Systems 10.20 Valeo



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