

Global Automotive Diagnostics Market to Reach \$109.84 Bn by 2030 Driven by Rising Vehicle Electrification

Advanced automotive diagnostics are essential to support EVs, reduce downtime, and meet stringent emission standards.

WILMINGTON, DE, UNITED STATES, October 8, 2025 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, "Automotive Diagnostics Market Size, Share, Competitive Landscape and Trend Analysis Report, by Type (On-board and Off-board), Device (Hand-held Tools, Mobile-based Tools, PC-based Tools, and Others), and Application (Passengers Cars, Light Commercial Vehicles, Heavy Commercial Vehicles, and Electric Vehicles): Global Opportunity Analysis and Industry Forecast, 2021-2030" The global automotive diagnostics market was valued at \$40.77 billion in 2020, and is projected to reach \$109.84 billion by 2030, registering a CAGR of 10.5% from 2021 to 2030.

The global automotive diagnostics market is witnessing rapid growth driven by the increasing adoption of advanced vehicles equipped with sophisticated electronics and emission control systems. Rising demand for predictive maintenance, stringent government regulations on vehicle emissions, and the integration of IoT and AI-based diagnostics solutions are further propelling the market. The market encompasses diagnostic tools, software, and services that enable real-time monitoring, fault detection, and performance optimization of vehicles.

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Key Market Drivers:

- Growth of Connected and Electric Vehicles

The increasing penetration of connected vehicles and electric vehicles (EVs) is driving demand for advanced diagnostic tools. EVs and hybrid vehicles require specialized diagnostics solutions to monitor battery health, electric drive systems, and onboard electronics, fueling market expansion.

- Stringent Emission and Safety Regulations

Governments worldwide are enforcing strict emission norms and vehicle safety regulations. Compliance with standards such as Euro 7, BS-VI, and CAFE regulations necessitates sophisticated diagnostics solutions to monitor engine performance, exhaust emissions, and onboard safety systems.

- Technological Advancements

Integration of AI, machine learning, and cloud-based platforms in automotive diagnostics is transforming the market. Advanced telematics, predictive maintenance solutions, and real-time monitoring tools are enabling service providers to reduce downtime, enhance vehicle efficiency, and improve customer experience.

- Rising Vehicle Complexity

Modern vehicles are increasingly equipped with electronic control units (ECUs), sensors, and infotainment systems. The complexity of these systems demands more advanced diagnostic solutions for fault detection, software updates, and system calibration, boosting market adoption.

- Aftermarket Growth and Service Demand

The expanding automotive aftermarket is contributing significantly to the diagnostics market. Vehicle owners and fleet operators are investing in diagnostics tools for preventive maintenance, reducing repair costs, and extending vehicle lifespan, especially in commercial vehicle segments.

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Automotive Diagnostics Industry

The [automotive diagnostics industry](#) is segmented by diagnostic tools, software, and services. Tools include handheld scanners, PC-based systems, and wireless devices, while software solutions provide predictive analytics, telematics, and cloud-based diagnostics. Services cover installation, maintenance, and support for automotive workshops and OEMs.

Regional Market Analysis

North America dominates the automotive diagnostics market due to high adoption of connected vehicles, advanced infrastructure, and supportive government initiatives. The U.S. market is particularly strong in telematics-based diagnostics and aftermarket services. Europe is witnessing steady growth, driven by stringent emission regulations and the adoption of EVs. Germany, France, and the U.K. are leading markets, with an emphasis on integrating AI-driven diagnostics into automotive workshops.

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Key Market Players

Key players in the market include Bosch, Continental AG, Denso Corporation, Delphi Technologies, and Texa S.p.A. Companies are focusing on strategic partnerships, product innovation, and expansion into emerging markets to maintain competitiveness. Continuous development of AI-enabled and IoT-based diagnostic solutions is a key differentiator.

The market is moderately consolidated, with established players dominating advanced diagnostic solutions while new entrants focus on cost-effective, mobile-based tools for emerging economies.

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- Growing EV and connected vehicle adoption is driving demand for specialized diagnostics.
- AI and cloud-based solutions are transforming predictive maintenance and real-time monitoring.
- Stringent emission and safety regulations are fueling adoption of advanced tools.
- North America holds the largest market share, followed by Europe and Asia-Pacific.
- Strategic collaborations and product innovations are key strategies among top players.

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