

Testing, Inspection, And Certification For The Automotive Industry - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The Testing, Inspection, And Certification Market For The Automotive Industry is expected to grow from USD 8.51 billion in 2024 to USD 11.93 billion by 2029, at a CAGR of 6.97% during the forecast period (2024-2029).

Through inspection/testing services, TIC companies aim to help automotive component and device manufacturers reduce problems and provide a positive end-user experience. They help protect brand reputation and drive consumer confidence and trust by confirming that products perform according to a manufacturer's claims or specified requirements.

The migration toward EVs is accelerating, and from the start of 2022, car manufacturers have been focused on producing even more electric cars fitted with more advanced capabilities. EVs will gain higher market shares in Europe, the United States, and China and outpace ICE vehicle sales.

The United States is one of the significant regions in the EV market and its sales. COX Enterprise reported that sales of battery electric vehicles in the United States reached nearly 258,900 units in the first quarter of 2023. This marked a significant year-over-year growth of approximately 44.9% compared to the sales figures from the same period in 2022. Furthermore, the first quarter of 2023 also outperformed the fourth quarter of 2022, establishing itself as the country's most successful quarter for BEV sales over the past two years.

Moreover, the automotive industry, primarily focused on electric vehicles (EVs), is the most prominent sector, leading to a rise in demand for electrical products

and components. Moreover, sensor adoption is significantly increasing, particularly in the automotive industry. This surge in demand is expected to persist at elevated levels in the coming years, supported by other markets as well. Government initiatives, such as subsidies and efforts to meet carbon emission targets, are anticipated to boost investments in the region's EV sector, consequently expanding growth prospects for the market.

Furthermore, the rising awareness about the importance of ADAS in reducing car accidents is one of the primary factors driving the demand for these systems in recent years. Many countries in Europe, North America, and Asia have introduced regulations to mandate the use of different types of ADAS in the passenger car segment. For instance, since 2018, new vehicles sold in Canada must be equipped with a backup camera and an ADAS feature.

There are challenges faced by the industry related to standards, regulations, and certification due to varying requirements, lack of proper understanding, absence of suitable infrastructure, etc.

The production growth of automotive is expected to slow down in 2024 as weaker demand takes hold of the industry, particularly in advanced economies. However, the growing popularity of EVs in the global market and surging concerns related to dangers associated with them during their evolution phase have played a vital role in rolling back the TIC demand in the automotive market.

TIC Market For The Automotive Industry Trends

Electric Vehicles to Witness Significant Growth

Due to the increasing environmental concerns and adverse effects of traditional vehicles, the market is opening up for alternatives such as electric vehicles.

As the adoption of EVs continues to rise, stringent safety and compliance regulations have been put in place to ensure these vehicles' reliability, performance, and safety. The TIC market plays a crucial role in verifying that EVs meet these regulatory standards, such as battery safety, electromagnetic compatibility, and crash-test requirements. Rigorous testing and certification help build consumer confidence in the safety and quality of EV models.

The core components of an EV, such as the battery pack and electric powertrain, require extensive testing and validation to ensure optimal performance, durability, and longevity. For the widespread adoption of electric vehicles, the rules for testing and homologation of EV batteries are essential to ensure their safety, efficiency, and reliability. The compliance of EV batteries with strict safety and performance standards is verified by testing and homologation procedures. These processes assure manufacturers, regulators, and consumers that the batteries comply with the necessary specifications and can be used in various conditions.

Moreover, modern EVs increasingly rely on complex software and connectivity features, such as advanced driver assistance systems (ADAS) and over-the-air (OTA) updates. The TIC market helps ensure these software-driven EV systems' cybersecurity, data privacy, and functional safety, which are crucial for maintaining customer trust and regulatory compliance.

Furthermore, Germany-based TUV SUD TIC giant expressed interest in setting up an EV battery lab in India in the second phase of its project. These initiatives are expected to drive the market's growth.

Europe to Witness Major Growth

The recovery in automotive manufacturing and trends like electric vehicles and autonomous cars are some of the significant factors driving the demand for TIC in the German automotive industry. Moreover, growth in safety technologies such as advanced driver-assistance systems (ADAS) and vehicles using sensors, cameras, and laser scanners, among others, is expected to create massive growth opportunities for the vendors of the market studied in the coming years.

Germany is a major automotive hub globally due to the presence of major automotive and OEM manufacturing companies such as Robert Bosch GmbH, Volkswagen AG, and Daimler AG. Consistent development of vehicle-to-vehicle, vehicle-to-infrastructure, and in-vehicle entertainment technologies is expected to drive the market studied during the forecast period.

Spain is the second largest automaker in Europe and also the 9th largest in the world. The automotive industry in Spain contributes approximately 10% to the country's GDP and represents approximately 18% of the exports. The Spanish automotive industry is

an attractive destination for foreign investors. Based on insights provided by FDI, it has been the second preferred destination in Europe for new Greenfield Projects by multinational companies in the last few years.

Poland's automotive industry stands as one of the country's most significant manufacturing sectors, accounting for 11.1% of the total production value, second only to the food industry. In recent years, Poland has attracted substantial foreign direct investment in automotive manufacturing, emerging as a major manufacturing hub for cars, car parts, and components in Central and Eastern Europe.

TIC Market For The Automotive Industry Overview

The automotive industry testing, inspection, and certification market is fragmented and has several players. With the growing demand for automobiles, an increasing number of new players are also entering the market, driving the market competition. Established market players focus on further expanding their market presence and service portfolio, establishing partnerships, and making acquisitions to consolidate their market presence further. Some major players operating in the market include DEKRA SE, TUV Rheinland, TUV SUD, Applus Services SA, and TUV Nord, among others.

In February 2024, DEKRA became an official conformity assessment body (CAB) for the SERMI scheme. SERMI offers brand-independent automotive businesses access to vehicle safety-related repair and maintenance information (RMI). As an accredited Conformity Assessment Body (CAB) for SERMI certification, DEKRA conducts approval and authorization inspections.

In December 2023, TUV SUD unveiled its cutting-edge establishment, known as the 'TUV SUD Bengaluru Campus,' in Bengaluru, India. This facility is dedicated to the testing and certifying of electrical and electronic products and medical devices, adhering to national and international standards. Spanning over an impressive 3 acres, the 'TUV SUD Bengaluru Campus' encompasses a total area of 70,000 square feet in its initial phase. This state-of-the-art campus has been meticulously designed to incorporate the latest technology and sustainable building materials, ensuring energy efficiency and environmental sustainability.

Additional Benefits:

The market estimate (ME) sheet in Excel format

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