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Automotive Emission Test Equipment Market Forecasts to 2030 – Global Analysis By Product Type (Opacity Meters, CO and CO? Analyzers, HC and NOx Analyzers, Multi-gas Analyzers, Smoke Meters and Other Product Types), Vehicle Type, Technology, Application and By Geography

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Abstracts

According to Stratistics MRC, the Global Automotive Emission Test Equipment Market is accounted for $826.73 million in 2024 and is expected to reach $1240.70 million by 2030 growing at a CAGR of 7.0% during the forecast period. Automotive emission test equipment refers to specialized tools and systems used to measure and analyze the pollutants emitted by vehicles, including gases like carbon monoxide, nitrogen oxides, and hydrocarbons. These tests help ensure that vehicles comply with environmental regulations and standards for air quality. The equipment typically includes exhaust gas analyzers, dynamometers, and other sensors, which assess a vehicle's emissions performance under different conditions, providing critical data for manufacturers, regulatory agencies, and environmental monitoring.

Market Dynamics:

Driver:

Increasing adoption of electric vehicles (EVs)

Stringent government regulations on emissions, growing environmental awareness among consumers, advancements in EV technology, and the expanding charging infrastructure contribute to this trend. Additionally, the decreasing cost of batteries and increased range of EVs make them more attractive to consumers. As more EVs enter the market, the demand for emission testing equipment to ensure compliance with evolving standards rises. This drive is crucial for manufacturers and regulatory bodies to maintain environmental integrity.

Restraint:

Lack of standardization

The lack of standardization in the automotive emission test equipment market poses a significant restraint. Emission regulations and testing procedures differ between nations and areas, which causes complications and inconsistencies. The development of equipment that can satisfy a variety of regulatory criteria presents difficulties for manufacturers. The effective adoption and application of emission testing systems are hampered by this lack of standardization. In order to solve this problem, international cooperation is needed to standardize standards and simplify regulatory frameworks.

Opportunity:

Rising focus on fuel efficiency

Consumers and regulatory bodies are increasingly prioritizing fuel-efficient vehicles to reduce environmental impact and lower fuel costs. This trend drives the demand for advanced emission testing equipment that can accurately measure and improve fuel efficiency. Innovations in testing technologies, such as real-time monitoring and simulation, support this goal. Capitalizing on this opportunity requires continuous advancements and investments in emission testing solutions.

Threat:

Complexity in integrating new technologies

Rapid advancements in automotive technology, including hybrid and electric powertrains, autonomous driving systems and connectivity features, require sophisticated testing equipment. Ensuring compatibility and accuracy in testing these diverse and complex systems is challenging. Manufacturers must continuously innovate and adapt their equipment to keep pace with technological advancements. This dynamic landscape demands significant investment in research and development.

Covid-19 Impact

The Covid-19 pandemic has had a profound impact on the automotive emission test equipment market. The pandemic disrupted supply chains and manufacturing operations, leading to delays in production and testing activities. However, it also highlighted the importance of sustainable transportation solutions and accelerated the adoption of EVs. Governments and industries are increasingly focusing on green recovery plans, driving demand for emission testing equipment. Despite the challenges, the pandemic has underscored the need for robust and reliable emission testing to ensure environmental standards are met.

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 the high volume of passenger vehicle sales globally. Increasing consumer preference for personal mobility and the growing urban population drive this trend. Additionally, stringent emission regulations for passenger vehicles necessitate comprehensive emission testing. Advancements in automotive technologies, including the adoption of electric and hybrid vehicles, further contribute to the segment's growth.

The research & development centers segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the research & development centers segment is predicted to witness the highest growth rate, due to the increasing focus on innovation and technological advancements in the automotive industry. The demand for state-of-the-art emission testing equipment in these centers is driven by the need to comply with evolving emission standards and regulations. Investment in R&D activities and collaborations with industry stakeholders further boost the segment's growth. The high CAGR reflects the ongoing efforts to enhance emission testing capabilities.

Region with largest share:

During the forecast period, Asia Pacific region is expected to hold the largest market share, due to the region's rapid economic growth and expanding automotive industry. The large population and increasing disposable income drive the demand for vehicles, leading to higher emission testing requirements. Additionally, stringent emission regulations and government initiatives to curb pollution contribute to the market's growth. The presence of major automotive manufacturers and advancements in testing technologies further bolster the market in the region.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to the region's strong focus on environmental sustainability and stringent emission regulations. The increasing adoption of electric and hybrid vehicles in North America drives the demand for advanced emission testing equipment. Additionally, government initiatives and incentives to promote clean energy solutions contribute to market growth. The presence of leading automotive and technology companies in the region further supports the development and adoption of innovative testing solutions.

Key players in the market

Some of the key players profiled in the Automotive Emission Test Equipment Market include ABB, Applus+, AVL List GmbH, CAPELEC, Continental AG, GEMCO Equipment Ltd., HORIBA, Ltd., K.S. Engineers, MAHA Maschinenbau Haldenwang GmbH & Co. KG, Opus Inspection, Robert Bosch GmbH, SGS SA, Siemens AG, Softing Automotive Electronics GmbH, TEXA S.p.A., TUV Nord Group, and Vector Informatik GmbH.

Key Developments:

In February 2025, ABB will launch its previously announced new share buyback program of up to $1.5 billion. Based on the current ABB share price this represents a maximum of approximately 27.6 million shares. The maximum number of shares that may be repurchased under this new program on any given trading day is 663,417.

In February 2025, Continental launches special promotion for contiscoot scooter tires. The ContiScoot portfolio currently includes 32 front and rear wheel sizes from 10 to 16 inches, covering almost all vehicles in the 50 to 350 ccm segment.

Product Types Covered:

Opacity Meters

CO and CO? Analyzers

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HC and NOx Analyzers

Multi-gas Analyzers

Smoke Meters

Other Product Types

Vehicle Types Covered:

Passenger Cars

Commercial Vehicles

Off-Highway Vehicles

Motorcycles & Scooters

Other Vehicle Types

Technologies Covered:

Dynamometer-Based Testing

On-Board Diagnostics (OBD)

Remote Sensing

Portable Emission Measurement Systems (PEMS)

Other Technologies

Applications Covered:

Vehicle Inspection & Maintenance Stations

- Automotive OEMs
- Government Regulatory Agencies
- Research & Development Centers
- Other Applications

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China

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India

Australia

New Zealand

South Korea

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 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

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- 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

Free Customization Offerings:

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

- Company Profiling
  - Comprehensive profiling of additional market players (up to 3)
  - 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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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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