

# Global Automotive Emission Test Equipment Market to Reach USD 6.05 Billion by 2032

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## Abstracts

The Global Automotive Emission Test Equipment Market was valued at approximately USD 4.78 billion in 2023 and is projected to grow at a moderate CAGR of 2.65% over the forecast period from 2024 to 2032. With governments worldwide tightening regulations on vehicular emissions, the demand for advanced emission testing solutions has surged, compelling automotive manufacturers and regulatory bodies to adopt state-of-the-art testing equipment. The rise in pollution control norms and stringent regulatory frameworks such as EPA (Environmental Protection Agency) and CARB (California Air Resources Board) are driving the adoption of emission test technologies across the automotive sector.

Growing environmental concerns and global initiatives to reduce carbon footprints have accelerated the adoption of high-precision gas analyzers, opacity meters, and particle counters to monitor and control harmful vehicle emissions. The integration of sophisticated sensor technologies, coupled with AI-powered diagnostics, is revolutionizing emission testing by providing real-time data accuracy and compliance monitoring. Furthermore, the shift toward hybrid and electric vehicle testing has opened new opportunities for emission test equipment manufacturers, particularly in quality control and R&D applications.

However, challenges such as high equipment costs, evolving regulatory requirements, and the complexity of testing methodologies remain critical roadblocks to widespread market adoption. Additionally, the transition toward electrification in the automotive industry could pose challenges for the traditional emission testing market, necessitating the evolution of test procedures to accommodate hybrid and alternative fuel vehicles. Despite these constraints, increasing investments in emission control research and the growing number of government-mandated testing programs will continue to support

market expansion.

From a regional perspective, North America dominates the market due to its well-established emission control policies, technological advancements, and strong regulatory enforcement by agencies such as the EPA. Europe follows closely, with stringent Euro emission standards compelling automakers to invest in high-end testing solutions. Meanwhile, the Asia-Pacific region is poised to witness the fastest growth, driven by rising automotive production, increasing urbanization, and stricter emission norms enforced in countries like China and India. Latin America and the Middle East & Africa regions are also expected to experience gradual growth, as regulatory frameworks become more structured and automotive industries expand.

#### Major Market Players Included in This Report:

Horiba Ltd.

AVL List GmbH

SGS S.A.

Bosch Automotive Service Solutions

Opus Group AB

Applus+ IDIADA

T?V Rheinland

Ricardo PLC

Intertek Group PLC

Sensors Inc.

Automotive Testing Solutions, Inc.

Nova Analytical Systems

Capelec

AVL DiTEST

Sierra Instruments Inc.

The Detailed Segments and Sub-Segments of the Market are Explained Below:

By Equipment Type:

Dynamometers

Gas Analyzers

Opacity Meters

Particle Counters

Flow Meters

By Fuel Type:

Gasoline

Diesel

Ethanol

Compressed Natural Gas (CNG)

Electric

By Vehicle Type:

Passenger Cars

Commercial Vehicles

Heavy-Duty Vehicles

Motorcycles

By Application:

Regulatory Testing

Research and Development

Quality Control

Maintenance and Repair

By Test Standards:

Environmental Protection Agency (EPA)

California Air Resources Board (CARB)

European Union (EU) Emission Standards

International Organization for Standardization (ISO)

Japanese Industrial Standards (JIS)

By Region:

North America

U.S.

Canada

## Europe

UK

Germany

France

Spain

Italy

Rest of Europe

## Asia-Pacific

China

India

Japan

Australia

South Korea

Rest of Asia-Pacific

## Latin America

Brazil

Mexico

Rest of Latin America

## Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

## Years Considered for the Study:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

## Key Takeaways:

Market estimates and forecasts for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level assessments.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approaches.

Evaluation of the competitive structure of the market.

Demand-side and supply-side analysis of the market.

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