

# Global Automotive Virtual Testing Software Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Automotive Virtual Testing Software market size is expected to reach \$ 10485 million by 2032, rising at a market growth of 11.1% CAGR during the forecast period (2026-2032).

Automotive virtual testing software is a software tool based on digital models and simulation algorithms that performs virtual operating condition testing on vehicles and their systems during the design, development, and verification phases. It aims to replace or reduce real-vehicle testing, covering performance, safety, durability, and compliance verification.

Upstream providers include those providing simulation algorithms, physical models, CAE kernels, computing platforms (CPU/GPU), and basic software tools. Downstream providers encompass OEMs, autonomous driving and smart cockpit companies, component suppliers, testing and certification bodies, and engineering service providers.

Global Market Future Development Trends:

With the increasing levels of electrification, intelligence, and autonomous driving, vehicle system complexity is rising significantly, posing bottlenecks to traditional real-vehicle testing in terms of cost, cycle time, and safety. Stricter requirements for autonomous driving functional safety, cybersecurity, and software compliance in various countries are prompting OEMs to move more verification processes to virtual environments, transforming virtual testing from an 'auxiliary tool' to a 'core verification method.'

The integration of high-fidelity physical models, scenario libraries, and AI-generated scenarios significantly improves simulation accuracy and coverage. Cloud computing and high-performance computing lower the computational barrier, making large-scale parallel simulation commonplace. Simultaneously, integrated virtual-real processes (SiL/HiL/ViL) are maturing, driving virtual testing throughout the entire vehicle lifecycle.

Software is evolving from single-point tools to platform-based and subscription-based models, deeply integrating with PLM, ALM, and DevOps to support the continuous iteration of 'software-defined vehicles.' Regionally, Europe and the US lead in algorithms and standards, while the Asia-Pacific region is growing faster in application implementation and scaling. The overall market will maintain medium-to-high-speed growth, with virtual testing penetration continuing to increase.

This report studies the global Automotive Virtual Testing Software demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Virtual Testing Software, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Virtual Testing Software that contribute to its increasing demand across many markets.

## **Highlights and key features of the study**

Global Automotive Virtual Testing Software total market, 2021-2032, (USD Million)

Global Automotive Virtual Testing Software total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Automotive Virtual Testing Software total market, key domestic companies, and share, (USD Million)

Global Automotive Virtual Testing Software revenue by player, revenue and market share 2021-2026, (USD Million)

Global Automotive Virtual Testing Software total market by Type, CAGR, 2021-2032, (USD Million)

Global Automotive Virtual Testing Software total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Automotive Virtual Testing Software market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Humanetics, Continental Engineering Services, Tracetrionic, HBK, MTS, Virtual Dynamics, Vector, VI-Grade, AVL List, IPG-Automotive, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Automotive Virtual Testing Software market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive Virtual Testing Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Virtual Testing Software Market, Segmentation by Type:

Cloud Based

On-Premises

Global Automotive Virtual Testing Software Market, Segmentation by Test Objects:

Vehicle-level Virtual Testing

System-level Testing

Component-level Testing

Software Functional-level Testing

Global Automotive Virtual Testing Software Market, Segmentation by Testing Technology Roadmap:

Model-in-the-Loop (MiL)

Software-in-the-Loop (SiL)

Hardware-in-the-Loop (HiL)

Vehicle-in-the-Loop (ViL)

Virtual-Real Fusion Joint Testing

Global Automotive Virtual Testing Software Market, Segmentation by Application:

Automobile OEM

Auto Parts Supplier

Others

Companies Profiled:

Humanetics

Continental Engineering Services

Tracetronic

HBK

MTS

Virtual Dynamics

Vector

VI-Grade

AVL List

IPG-Automotive

rFpro

MathWorks

PanoSim

Mechanical Simulation Corporation

Ansys

3DCAT

Siemens

TUVSUD

Hiran

Synopsys

### Key Questions Answered

1. How big is the global Automotive Virtual Testing Software market?
2. What is the demand of the global Automotive Virtual Testing Software market?
3. What is the year over year growth of the global Automotive Virtual Testing Software market?
4. What is the total value of the global Automotive Virtual Testing Software market?
5. Who are the Major Players in the global Automotive Virtual Testing Software market?
6. What are the growth factors driving the market demand?

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