

Global Testing Equipment for Automotive Brake-by-Wire Systems Market Growth 2026-2032

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Abstracts

The global Testing Equipment for Automotive Brake-by-Wire Systems market size is predicted to grow from US\$ 303 million in 2025 to US\$ 587 million in 2032; it is expected to grow at a CAGR of 9.5% from 2026 to 2032.

Testing equipment for automotive brake-by-wire systems refers to specialized test benches, HIL systems, semi-physical rigs, brake-in-the-loop platforms, dynamometers, actuator test stands, brake robots, measurement systems, EOL inspection systems and automation software used to develop, validate and inspect electronic braking architectures. The equipment is designed for electro-hydraulic braking, electro-mechanical braking, integrated brake control, ESC/ABS/IBC functions, decoupled brake pedals, regenerative braking coordination and chassis-domain longitudinal control. By combining real-time vehicle simulation, physical brake components, hydraulic or pneumatic load simulation, motorized actuators, pedal-force and pressure measurement, wheel-speed and sensor emulation, and automated test execution, these systems reproduce normal, limit, fault, regulatory and automated-driving-related braking scenarios in laboratories, proving grounds and production lines. The research scope focuses on professional equipment and platforms used for system-level validation, functional safety assessment, control calibration, durability testing, NVH evaluation, brake response measurement and end-of-line verification of automotive brake-by-wire systems.

Based on our research, the market for testing equipment for automotive brake-by-wire systems should be understood as a specialized validation infrastructure market rather than an extension of conventional vehicle inspection equipment. As braking architectures shift from mechanical and hydraulic actuation to electronically controlled, software-intensive and redundant systems, the test requirements expand from basic

brake force or stopping-distance measurement to ECU logic validation, actuator dynamics, pressure build-up, pedal-feel simulation, fault injection, functional safety, regenerative braking coordination and closed-loop vehicle dynamics. This creates demand for integrated platforms that combine real hardware, real-time simulation, HIL, brake-in-the-loop architectures, automated test execution, load simulation and regulatory test procedures. The narrow market scope is therefore focused on equipment and systems used for development, validation and production verification of EHB, EMB, IBC, ESC and brake-by-wire functions.

Demand growth is being driven by three structural forces. First, electrification increases the complexity of blending regenerative braking with friction braking, which requires more repeatable and data-rich calibration environments. Second, ADAS and automated driving functions increase the need to validate braking under rare, extreme and safety-critical conditions that cannot be efficiently or safely reproduced only on proving grounds. Third, the transition toward EMB and electrical transmission braking requires higher levels of redundancy, failure-mode coverage and functional-safety validation. China's GB 21670-2025 standard will be implemented on January 1, 2026, and the national standard plan for electro-mechanical braking performance requirements further supports the view that China will become one of the most active incremental markets for brake-by-wire test equipment over the next several years.

The product roadmap is shifting from standalone benches to integrated validation environments combining physical brake hardware, high-fidelity vehicle models, automated test management, fault injection, data analytics and digital-twin workflows. Conventional brake dynamometers will remain important, particularly for NVH, durability, thermal behavior and brake emissions, but the faster-growing segments will be brake HIL, brake-in-the-loop, chassis-domain joint HIL, EMB actuator benches, EOL inspection systems and brake robots. Competitive advantage will increasingly depend on the ability to support multiple brake architectures, integrate with mainstream simulation toolchains, reproduce nonlinear hydraulic or electromechanical behavior, and shorten the V-cycle from software design to system validation and production release.

LP Information, Inc. (LPI) ' newest research report, the "Testing Equipment for Automotive Brake-by-Wire Systems Industry Forecast" looks at past sales and reviews total world Testing Equipment for Automotive Brake-by-Wire Systems sales in 2025, providing a comprehensive analysis by region and market sector of projected Testing Equipment for Automotive Brake-by-Wire Systems sales for 2026 through 2032. With Testing Equipment for Automotive Brake-by-Wire Systems sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$

millions of the world Testing Equipment for Automotive Brake-by-Wire Systems industry.

This Insight Report provides a comprehensive analysis of the global Testing Equipment for Automotive Brake-by-Wire Systems landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Testing Equipment for Automotive Brake-by-Wire Systems portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Testing Equipment for Automotive Brake-by-Wire Systems market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Testing Equipment for Automotive Brake-by-Wire Systems and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Testing Equipment for Automotive Brake-by-Wire Systems.

This report presents a comprehensive overview, market shares, and growth opportunities of Testing Equipment for Automotive Brake-by-Wire Systems market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Brake HIL System

Brake-in-the-Loop System

Brake Test Bench

Brake Dynamometer

Other

Segmentation by Brake Technology Route:

Electro-hydraulic Braking

Electro-mechanical Braking

Other

Segmentation by Tested Object:

Brake ECU / Controller

Hydraulic Brake Components

Other

Segmentation by Test Stage:

Model and Software Validation

ECU and Hardware Validation

System Integration Testing

Other

Segmentation by Application:

R&D Validation

Control Algorithm Testing

Functional Safety Testing

Performance & Durability Testing

Homologation Testing

Production Quality Inspection

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

ZF Friedrichshafen AG

HORIBA, Ltd.

AVL List GmbH

D?rr AG

dSPACE GmbH

Vector Informatik GmbH

Link Engineering Company

National Instruments

ETAS GmbH

IPG Automotive GmbH

MdynamiX AG

AB Dynamics plc

ROFA Industrial Automation Group

Expert Technologies Group Ltd

Dewesoft d.o.o.

Racelogic Ltd.

Greening Inc.

MB Dynamics Inc.

Beijing Jingwei Hirain Technologies Co., Inc.

TecSA S.r.l.

Shanghai SenseSys Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Testing Equipment for Automotive Brake-by-Wire Systems market?

What factors are driving Testing Equipment for Automotive Brake-by-Wire Systems market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Testing Equipment for Automotive Brake-by-Wire Systems market opportunities vary by end market size?

How does Testing Equipment for Automotive Brake-by-Wire Systems break out by Type, by Application?

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