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Global Testing Equipment for Automotive Brake-by-Wire Systems Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Testing Equipment for Automotive Brake-by-Wire Systems market size was valued at US$ 319 million in 2025 and is forecast to a readjusted size of US$ 599 million by 2032 with a CAGR of 9.0% during review period.

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

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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.

This report is a detailed and comprehensive analysis for global Testing Equipment for Automotive Brake-by-Wire Systems market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across

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many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Testing Equipment for Automotive Brake-by-Wire Systems market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Testing Equipment for Automotive Brake-by-Wire Systems market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Testing Equipment for Automotive Brake-by-Wire Systems market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Testing Equipment for Automotive Brake-by-Wire Systems market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Testing Equipment for Automotive Brake-by-Wire Systems

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Testing Equipment for Automotive Brake-by-Wire Systems market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ZF Friedrichshafen AG, HORIBA, Ltd., AVL List GmbH, D?rr AG, dSPACE GmbH, Vector

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Informatik GmbH, Link Engineering Company, National Instruments, ETAS GmbH, IPG Automotive GmbH, etc.

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

Market Segmentation

Testing Equipment for Automotive Brake-by-Wire Systems market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Brake HIL System

Brake-in-the-Loop System

Brake Test Bench

Brake Dynamometer

Other

Market segment by Brake Technology Route

Electro-hydraulic Braking

Electro-mechanical Braking

Other

Market segment by Tested Object

Brake ECU / Controller

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Hydraulic Brake Components

Other

Market segment by Test Stage

Model and Software Validation

ECU and Hardware Validation

System Integration Testing

Other

Market segment by Application

R&D Validation

Control Algorithm Testing

Functional Safety Testing

Performance & Durability Testing

Homologation Testing

Production Quality Inspection

Major players covered

ZF Friedrichshafen AG

HORIBA, Ltd.

AVL List GmbH

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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.

Market segment by region, regional analysis covers

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North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Testing Equipment for Automotive Brake-by-Wire Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Testing Equipment for Automotive Brake-by-Wire Systems, with price, sales quantity, revenue, and global market share of Testing Equipment for Automotive Brake-by-Wire Systems from 2021 to 2026.

Chapter 3, the Testing Equipment for Automotive Brake-by-Wire Systems competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Testing Equipment for Automotive Brake-by-Wire Systems breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Testing Equipment for Automotive Brake-by-Wire Systems market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

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Chapter 13, the key raw materials and key suppliers, and industry chain of Testing Equipment for Automotive Brake-by-Wire Systems.

Chapter 14 and 15, to describe Testing Equipment for Automotive Brake-by-Wire Systems sales channel, distributors, customers, research findings and conclusion.

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