

Global Dry Brake-by-Wire Systems Market Growth 2026-2032

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Abstracts

The global Dry Brake-by-Wire Systems market size is predicted to grow from US\$ 58.11 million in 2025 to US\$ 104 million in 2032; it is expected to grow at a CAGR of 7.5% from 2026 to 2032.

Dry Brake-by-Wire (BBW) Systems are fully electronic braking systems that eliminate all hydraulic or pneumatic connections between the brake pedal and the wheel brakes, relying instead on sensors, electronic control units (ECUs), and electromechanical actuators to apply braking force. When the driver presses the brake pedal, input data such as pedal force and position are captured by sensors and transmitted as electronic signals to the ECU, which then commands the actuators—typically integrated e-calipers—at each wheel to generate the required braking force. Unlike wet BBW systems, which retain hydraulic components, dry BBW systems are entirely hydraulic-free, offering benefits such as weight reduction, design flexibility, enhanced precision, and seamless integration with advanced driver-assistance systems (ADAS) and autonomous driving technologies.

Key Findings

Global production of dry brake-by-wire systems reached 36,000 sets in 2025, with an average selling price of approximately US\$1,650 per set

Vehicle electrification, advanced autonomous driving and intelligent chassis upgrades are the principal sources of market demand

Electromechanical brake actuators, redundant control, independent wheel-end braking and chassis-domain integration are the main technology directions

New-energy passenger cars, autonomous vehicles, light commercial vehicles and intelligent logistics vehicles are the primary application areas

European, American, Japanese and Korean suppliers have established strengths in system integration and functional safety, while Chinese companies are accelerating product development, vehicle-program nominations and localized supply-chain construction

Market Trends

Dry brake-by-wire systems are moving from technical validation and prototype testing toward low-volume production and vehicle-program nominations. These systems use electromechanical actuators to apply braking force directly at the wheels, eliminating brake fluid, hydraulic pumps and hydraulic lines. Future products will increasingly incorporate independent four-wheel control, dual power supplies, communication redundancy, fail-operational capability and chassis-domain integration, while operating voltage may gradually move toward 48 V and higher-voltage architectures.

Market Dynamics

The market remains at an early stage of commercialization, while conventional hydraulic brakes and electrohydraulic brake-by-wire systems continue to dominate vehicle production. Development is being led by international tier-one suppliers, specialist brake manufacturers and emerging intelligent-chassis companies. Demand for rapid and redundant braking supports technology adoption, while cost, reliability, regulatory certification and large-scale validation remain important market constraints.

Drivers

Advanced autonomous driving requires braking systems to remain operational even when a driver cannot take control, encouraging dual-power, dual-communication and fail-operational architectures. Electric-vehicle requirements for lightweight construction, modularity, regenerative braking and chassis integration, together with the development of software-defined vehicles and chassis-domain controllers, are expanding potential demand.

Restraints

Wheel-end electromechanical actuators must operate reliably under extreme

temperatures, vibration, impact and long-term wear. Eliminating hydraulic backup places greater demands on power, communication, controller and actuator redundancy. Product costs remain high, the supply chain is not fully mature, and functional-safety certification and vehicle validation require lengthy development cycles.

Opportunities

Dedicated electric-vehicle platforms, advanced autonomous vehicles and intelligent-chassis platforms represent important entry markets. As core components become localized, actuator costs decline and vehicle nominations increase, the market could move from low-volume deployment toward large-scale growth. Autonomous taxis, driverless delivery vehicles, intelligent logistics fleets and unmanned vehicles in controlled environments also offer considerable potential.

Challenges

Braking systems are safety-critical, and power interruption, communication failure, controller malfunction or actuator jamming may directly affect vehicle safety. Suppliers must establish comprehensive redundancy, fault diagnosis and degraded-operation strategies. The industry also faces uncertain technical standards, high research expenditure, long production cycles and customer concentration.

Industry Chain Analysis

Upstream suppliers provide electric motors, ball screws or planetary roller screws, reduction mechanisms, power semiconductors, control chips, position sensors, clamp-force sensors, connectors and friction materials. Midstream companies develop wheel-end electromechanical brakes, pedal simulators, central controllers, redundant-control software and complete systems. Downstream customers include passenger-car, commercial-vehicle, autonomous-vehicle and intelligent-mobility-platform manufacturers.

Value Chain Analysis

High-precision electromechanical actuators, functional-safety software, redundant architecture and vehicle calibration are high-value segments of the industry chain. Suppliers combining foundation-brake manufacturing, electronic control and joint vehicle-development capabilities are more likely to establish competitive advantages and generate additional revenue through software upgrades, condition monitoring, fault diagnosis and lifecycle services.

Segment Insights

By control architecture, the market includes centralized and distributed systems; by operating voltage, it includes 12 V, 24 V, and 48 V and above systems; by actuation mechanism, it includes ball-screw, planetary-roller-screw, wedge and gear-reduction systems; by vehicle application, it includes passenger cars, light commercial vehicles, medium and heavy commercial vehicles, and rail vehicles.

Downstream Market Opportunities

New-energy passenger cars represent the most promising downstream market, as automakers can introduce dry brake-by-wire through new electrical architectures, reduce hydraulic components and increase chassis integration. Premium vehicles, advanced autonomous models, autonomous taxis, driverless delivery vehicles, port logistics vehicles and mining vehicles are likely to become early application and commercial-validation markets.

Regional Insights

Europe has a mature braking industry, with major suppliers advancing electromechanical braking development and production programs. North America maintains strong interest in chassis-by-wire technologies due to electric vehicles and autonomous driving. China is accelerating product development, production-line construction and vehicle nominations through its large new-energy vehicle market, while Japanese and Korean suppliers retain strengths in precision electromechanical components, electronic control and functional safety.

Competitive Landscape Analysis

Market participants include established international braking suppliers, diversified chassis companies and emerging chassis-by-wire specialists. International companies benefit from system-integration expertise, foundation-brake manufacturing and global customer relationships, while Chinese suppliers are advancing through rapid development, domestic electric-vehicle demand and localized cost advantages. Competition will increasingly focus on product maturity, functional safety, vehicle-program nominations and mass-production capability.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Dry Brake-by-Wire Systems Industry Forecast” looks at past sales and reviews total world Dry Brake-by-Wire Systems sales in 2025, providing a comprehensive analysis by region and market sector of projected Dry Brake-by-Wire Systems sales for 2026 through 2032. With Dry 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 Dry Brake-by-Wire Systems industry.

This Insight Report provides a comprehensive analysis of the global Dry 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 Dry 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 Dry Brake-by-Wire Systems market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Dry 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 Dry Brake-by-Wire Systems.

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

Market Segmentation

Segmentation by Type:

Centralized Control

Distributed Control

Segmentation by Operating Voltage:

12V Systems

24V Systems

48V and Above Systems

Segmentation by Electromechanical Actuation Mechanism:

Ball Screw Type

Planetary Roller Screw Type

Wedge Type

Gear Reduction Type

Segmentation by Application:

Battery Electric Vehicles (BEVs)

Hybrid Electric Vehicles (HEVs)

Others

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

Bosch

Hitachi Astemo

AUMOVIO

HL Mando

BWI Group

Nexteer Automotive

Brembo

Key Questions Addressed in this Report

What is the 10-year outlook for the global Dry Brake-by-Wire Systems market?

What factors are driving Dry Brake-by-Wire Systems market growth, globally and by region?

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

How do Dry Brake-by-Wire Systems market opportunities vary by end market size?

How does Dry Brake-by-Wire Systems break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Dry Brake-by-Wire Systems Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Dry Brake-by-Wire Systems by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Dry Brake-by-Wire Systems by Country/Region, 2021, 2025 & 2032
- 2.2 Dry Brake-by-Wire Systems Segment by Type
 - 2.2.1 Centralized Control
 - 2.2.2 Distributed Control
 - 2.2.3 Dry Brake-by-Wire Systems Sales by Type
 - 2.2.3.1 Global Dry Brake-by-Wire Systems Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Dry Brake-by-Wire Systems Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Dry Brake-by-Wire Systems Sale Price by Type (2021-2026)
- 2.3 Dry Brake-by-Wire Systems Segment by Operating Voltage
 - 2.3.1 12V Systems
 - 2.3.2 24V Systems
 - 2.3.3 48V and Above Systems
 - 2.3.4 Dry Brake-by-Wire Systems Sales by Operating Voltage
 - 2.3.4.1 Global Dry Brake-by-Wire Systems Sales Market Share by Operating Voltage (2021-2026)
 - 2.3.4.2 Global Dry Brake-by-Wire Systems Revenue and Market Share by Operating Voltage (2021-2026)
 - 2.3.4.3 Global Dry Brake-by-Wire Systems Sale Price by Operating Voltage

(2021-2026)

2.4 Dry Brake-by-Wire Systems Segment by Electromechanical Actuation Mechanism

2.4.1 Ball Screw Type

2.4.2 Planetary Roller Screw Type

2.4.3 Wedge Type

2.4.4 Gear Reduction Type

2.4.5 Dry Brake-by-Wire Systems Sales by Electromechanical Actuation Mechanism

2.4.5.1 Global Dry Brake-by-Wire Systems Sales Market Share by Electromechanical Actuation Mechanism (2021-2026)

2.4.5.2 Global Dry Brake-by-Wire Systems Revenue and Market Share by Electromechanical Actuation Mechanism (2021-2026)

2.4.5.3 Global Dry Brake-by-Wire Systems Sale Price by Electromechanical Actuation Mechanism (2021-2026)

2.5 Dry Brake-by-Wire Systems Segment by Application

2.5.1 Battery Electric Vehicles (BEVs)

2.5.2 Hybrid Electric Vehicles (HEVs)

2.5.3 Others

2.5.4 Dry Brake-by-Wire Systems Sales by Application

2.5.4.1 Global Dry Brake-by-Wire Systems Sale Market Share by Application (2021-2026)

2.5.4.2 Global Dry Brake-by-Wire Systems Revenue and Market Share by Application (2021-2026)

2.5.4.3 Global Dry Brake-by-Wire Systems Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Dry Brake-by-Wire Systems Breakdown Data by Company

3.1.1 Global Dry Brake-by-Wire Systems Annual Sales by Company (2021-2026)

3.1.2 Global Dry Brake-by-Wire Systems Sales Market Share by Company (2021-2026)

3.2 Global Dry Brake-by-Wire Systems Annual Revenue by Company (2021-2026)

3.2.1 Global Dry Brake-by-Wire Systems Revenue by Company (2021-2026)

3.2.2 Global Dry Brake-by-Wire Systems Revenue Market Share by Company (2021-2026)

3.3 Global Dry Brake-by-Wire Systems Sale Price by Company

3.4 Key Manufacturers Dry Brake-by-Wire Systems Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Dry Brake-by-Wire Systems Product Location Distribution

3.4.2 Players Dry Brake-by-Wire Systems Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR DRY BRAKE-BY-WIRE SYSTEMS BY GEOGRAPHIC REGION

4.1 World Historic Dry Brake-by-Wire Systems Market Size by Geographic Region (2021-2026)

4.1.1 Global Dry Brake-by-Wire Systems Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Dry Brake-by-Wire Systems Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Dry Brake-by-Wire Systems Market Size by Country/Region (2021-2026)

4.2.1 Global Dry Brake-by-Wire Systems Annual Sales by Country/Region (2021-2026)

4.2.2 Global Dry Brake-by-Wire Systems Annual Revenue by Country/Region (2021-2026)

4.3 Americas Dry Brake-by-Wire Systems Sales Growth

4.4 APAC Dry Brake-by-Wire Systems Sales Growth

4.5 Europe Dry Brake-by-Wire Systems Sales Growth

4.6 Middle East & Africa Dry Brake-by-Wire Systems Sales Growth

5 AMERICAS

5.1 Americas Dry Brake-by-Wire Systems Sales by Country

5.1.1 Americas Dry Brake-by-Wire Systems Sales by Country (2021-2026)

5.1.2 Americas Dry Brake-by-Wire Systems Revenue by Country (2021-2026)

5.2 Americas Dry Brake-by-Wire Systems Sales by Type (2021-2026)

5.3 Americas Dry Brake-by-Wire Systems Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Dry Brake-by-Wire Systems Sales by Region

6.1.1 APAC Dry Brake-by-Wire Systems Sales by Region (2021-2026)

6.1.2 APAC Dry Brake-by-Wire Systems Revenue by Region (2021-2026)

6.2 APAC Dry Brake-by-Wire Systems Sales by Type (2021-2026)

6.3 APAC Dry Brake-by-Wire Systems Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Dry Brake-by-Wire Systems by Country

7.1.1 Europe Dry Brake-by-Wire Systems Sales by Country (2021-2026)

7.1.2 Europe Dry Brake-by-Wire Systems Revenue by Country (2021-2026)

7.2 Europe Dry Brake-by-Wire Systems Sales by Type (2021-2026)

7.3 Europe Dry Brake-by-Wire Systems Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Dry Brake-by-Wire Systems by Country

8.1.1 Middle East & Africa Dry Brake-by-Wire Systems Sales by Country (2021-2026)

8.1.2 Middle East & Africa Dry Brake-by-Wire Systems Revenue by Country
(2021-2026)

8.2 Middle East & Africa Dry Brake-by-Wire Systems Sales by Type (2021-2026)

8.3 Middle East & Africa Dry Brake-by-Wire Systems Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Dry Brake-by-Wire Systems

10.3 Manufacturing Process Analysis of Dry Brake-by-Wire Systems

10.4 Industry Chain Structure of Dry Brake-by-Wire Systems

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Dry Brake-by-Wire Systems Distributors

11.3 Dry Brake-by-Wire Systems Customer

12 WORLD FORECAST REVIEW FOR DRY BRAKE-BY-WIRE SYSTEMS BY GEOGRAPHIC REGION

12.1 Global Dry Brake-by-Wire Systems Market Size Forecast by Region

12.1.1 Global Dry Brake-by-Wire Systems Forecast by Region (2027-2032)

12.1.2 Global Dry Brake-by-Wire Systems Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Dry Brake-by-Wire Systems Forecast by Type (2027-2032)

12.7 Global Dry Brake-by-Wire Systems Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 ZF

13.1.1 ZF Company Information

13.1.2 ZF Dry Brake-by-Wire Systems Product Portfolios and Specifications

13.1.3 ZF Dry Brake-by-Wire Systems Sales, Revenue, Price and Gross Margin
(2021-2026)

13.1.4 ZF Main Business Overview

13.1.5 ZF Latest Developments

13.2 Bosch

13.2.1 Bosch Company Information

13.2.2 Bosch Dry Brake-by-Wire Systems Product Portfolios and Specifications

13.2.3 Bosch Dry Brake-by-Wire Systems Sales, Revenue, Price and Gross Margin
(2021-2026)

13.2.4 Bosch Main Business Overview

13.2.5 Bosch Latest Developments

13.3 Hitachi Astemo

13.3.1 Hitachi Astemo Company Information

13.3.2 Hitachi Astemo Dry Brake-by-Wire Systems Product Portfolios and
Specifications

13.3.3 Hitachi Astemo Dry Brake-by-Wire Systems Sales, Revenue, Price and Gross
Margin (2021-2026)

13.3.4 Hitachi Astemo Main Business Overview

13.3.5 Hitachi Astemo Latest Developments

13.4 AUMOVIO

13.4.1 AUMOVIO Company Information

13.4.2 AUMOVIO Dry Brake-by-Wire Systems Product Portfolios and Specifications

13.4.3 AUMOVIO Dry Brake-by-Wire Systems Sales, Revenue, Price and Gross
Margin (2021-2026)

13.4.4 AUMOVIO Main Business Overview

13.4.5 AUMOVIO Latest Developments

13.5 HL Mando

13.5.1 HL Mando Company Information

13.5.2 HL Mando Dry Brake-by-Wire Systems Product Portfolios and Specifications

13.5.3 HL Mando Dry Brake-by-Wire Systems Sales, Revenue, Price and Gross
Margin (2021-2026)

13.5.4 HL Mando Main Business Overview

13.5.5 HL Mando Latest Developments

13.6 BWI Group

13.6.1 BWI Group Company Information

13.6.2 BWI Group Dry Brake-by-Wire Systems Product Portfolios and Specifications

13.6.3 BWI Group Dry Brake-by-Wire Systems Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 BWI Group Main Business Overview

13.6.5 BWI Group Latest Developments

13.7 Nexteer Automotive

13.7.1 Nexteer Automotive Company Information

13.7.2 Nexteer Automotive Dry Brake-by-Wire Systems Product Portfolios and Specifications

13.7.3 Nexteer Automotive Dry Brake-by-Wire Systems Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Nexteer Automotive Main Business Overview

13.7.5 Nexteer Automotive Latest Developments

13.8 Brembo

13.8.1 Brembo Company Information

13.8.2 Brembo Dry Brake-by-Wire Systems Product Portfolios and Specifications

13.8.3 Brembo Dry Brake-by-Wire Systems Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Brembo Main Business Overview

13.8.5 Brembo Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Dry Brake-by-Wire Systems Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Dry Brake-by-Wire Systems Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Centralized Control

Table 4. Major Players of Distributed Control

Table 5. Global Dry Brake-by-Wire Systems Sales by Type (2021-2026) & (K Sets)

Table 6. Global Dry Brake-by-Wire Systems Sales Market Share by Type (2021-2026)

Table 7. Global Dry Brake-by-Wire Systems Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Dry Brake-by-Wire Systems Revenue Market Share by Type (2021-2026)

Table 9. Global Dry Brake-by-Wire Systems Sale Price by Type (2021-2026) & (US\$/Set)

Table 10. Major Players of 12V Systems

Table 11. Major Players of 24V Systems

Table 12. Major Players of 48V and Above Systems

Table 13. Global Dry Brake-by-Wire Systems Sales by Operating Voltage (2021-2026) & (K Sets)

Table 14. Global Dry Brake-by-Wire Systems Sales Market Share by Operating Voltage (2021-2026)

Table 15. Global Dry Brake-by-Wire Systems Revenue by Operating Voltage (2021-2026) & (\$ million)

Table 16. Global Dry Brake-by-Wire Systems Revenue Market Share by Operating Voltage (2021-2026)

Table 17. Global Dry Brake-by-Wire Systems Sale Price by Operating Voltage (2021-2026) & (US\$/Set)

Table 18. Major Players of Ball Screw Type

Table 19. Major Players of Planetary Roller Screw Type

Table 20. Major Players of Wedge Type

Table 21. Major Players of Gear Reduction Type

Table 22. Global Dry Brake-by-Wire Systems Sales by Electromechanical Actuation Mechanism (2021-2026) & (K Sets)

Table 23. Global Dry Brake-by-Wire Systems Sales Market Share by Electromechanical Actuation Mechanism (2021-2026)

Table 24. Global Dry Brake-by-Wire Systems Revenue by Electromechanical Actuation

Mechanism (2021-2026) & (\$ million)

Table 25. Global Dry Brake-by-Wire Systems Revenue Market Share by Electromechanical Actuation Mechanism (2021-2026)

Table 26. Global Dry Brake-by-Wire Systems Sale Price by Electromechanical Actuation Mechanism (2021-2026) & (US\$/Set)

Table 27. Global Dry Brake-by-Wire Systems Sale by Application (2021-2026) & (K Sets)

Table 28. Global Dry Brake-by-Wire Systems Sale Market Share by Application (2021-2026)

Table 29. Global Dry Brake-by-Wire Systems Revenue by Application (2021-2026) & (\$ million)

Table 30. Global Dry Brake-by-Wire Systems Revenue Market Share by Application (2021-2026)

Table 31. Global Dry Brake-by-Wire Systems Sale Price by Application (2021-2026) & (US\$/Set)

Table 32. Global Dry Brake-by-Wire Systems Sales by Company (2021-2026) & (K Sets)

Table 33. Global Dry Brake-by-Wire Systems Sales Market Share by Company (2021-2026)

Table 34. Global Dry Brake-by-Wire Systems Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global Dry Brake-by-Wire Systems Revenue Market Share by Company (2021-2026)

Table 36. Global Dry Brake-by-Wire Systems Sale Price by Company (2021-2026) & (US\$/Set)

Table 37. Key Manufacturers Dry Brake-by-Wire Systems Producing Area Distribution and Sales Area

Table 38. Players Dry Brake-by-Wire Systems Products Offered

Table 39. Dry Brake-by-Wire Systems Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global Dry Brake-by-Wire Systems Sales by Geographic Region (2021-2026) & (K Sets)

Table 43. Global Dry Brake-by-Wire Systems Sales Market Share Geographic Region (2021-2026)

Table 44. Global Dry Brake-by-Wire Systems Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Dry Brake-by-Wire Systems Revenue Market Share by Geographic

Region (2021-2026)

Table 46. Global Dry Brake-by-Wire Systems Sales by Country/Region (2021-2026) & (K Sets)

Table 47. Global Dry Brake-by-Wire Systems Sales Market Share by Country/Region (2021-2026)

Table 48. Global Dry Brake-by-Wire Systems Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global Dry Brake-by-Wire Systems Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Dry Brake-by-Wire Systems Sales by Country (2021-2026) & (K Sets)

Table 51. Americas Dry Brake-by-Wire Systems Sales Market Share by Country (2021-2026)

Table 52. Americas Dry Brake-by-Wire Systems Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Dry Brake-by-Wire Systems Sales by Type (2021-2026) & (K Sets)

Table 54. Americas Dry Brake-by-Wire Systems Sales by Application (2021-2026) & (K Sets)

Table 55. APAC Dry Brake-by-Wire Systems Sales by Region (2021-2026) & (K Sets)

Table 56. APAC Dry Brake-by-Wire Systems Sales Market Share by Region (2021-2026)

Table 57. APAC Dry Brake-by-Wire Systems Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Dry Brake-by-Wire Systems Sales by Type (2021-2026) & (K Sets)

Table 59. APAC Dry Brake-by-Wire Systems Sales by Application (2021-2026) & (K Sets)

Table 60. Europe Dry Brake-by-Wire Systems Sales by Country (2021-2026) & (K Sets)

Table 61. Europe Dry Brake-by-Wire Systems Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Dry Brake-by-Wire Systems Sales by Type (2021-2026) & (K Sets)

Table 63. Europe Dry Brake-by-Wire Systems Sales by Application (2021-2026) & (K Sets)

Table 64. Middle East & Africa Dry Brake-by-Wire Systems Sales by Country (2021-2026) & (K Sets)

Table 65. Middle East & Africa Dry Brake-by-Wire Systems Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa Dry Brake-by-Wire Systems Sales by Type (2021-2026) & (K Sets)

Table 67. Middle East & Africa Dry Brake-by-Wire Systems Sales by Application

(2021-2026) & (K Sets)

Table 68. Key Market Drivers & Growth Opportunities of Dry Brake-by-Wire Systems

Table 69. Key Market Challenges & Risks of Dry Brake-by-Wire Systems

Table 70. Key Industry Trends of Dry Brake-by-Wire Systems

Table 71. Dry Brake-by-Wire Systems Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. Dry Brake-by-Wire Systems Distributors List

Table 74. Dry Brake-by-Wire Systems Customer List

Table 75. Global Dry Brake-by-Wire Systems Sales Forecast by Region (2027-2032) & (K Sets)

Table 76. Global Dry Brake-by-Wire Systems Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 77. Americas Dry Brake-by-Wire Systems Sales Forecast by Country (2027-2032) & (K Sets)

Table 78. Americas Dry Brake-by-Wire Systems Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC Dry Brake-by-Wire Systems Sales Forecast by Region (2027-2032) & (K Sets)

Table 80. APAC Dry Brake-by-Wire Systems Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe Dry Brake-by-Wire Systems Sales Forecast by Country (2027-2032) & (K Sets)

Table 82. Europe Dry Brake-by-Wire Systems Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa Dry Brake-by-Wire Systems Sales Forecast by Country (2027-2032) & (K Sets)

Table 84. Middle East & Africa Dry Brake-by-Wire Systems Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global Dry Brake-by-Wire Systems Sales Forecast by Type (2027-2032) & (K Sets)

Table 86. Global Dry Brake-by-Wire Systems Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 87. Global Dry Brake-by-Wire Systems Sales Forecast by Application (2027-2032) & (K Sets)

Table 88. Global Dry Brake-by-Wire Systems Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. ZF Basic Information, Dry Brake-by-Wire Systems Manufacturing Base, Sales Area and Its Competitors

Table 90. ZF Dry Brake-by-Wire Systems Product Portfolios and Specifications

Table 91. ZF Dry Brake-by-Wire Systems Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 92. ZF Main Business

Table 93. ZF Latest Developments

Table 94. Bosch Basic Information, Dry Brake-by-Wire Systems Manufacturing Base, Sales Area and Its Competitors

Table 95. Bosch Dry Brake-by-Wire Systems Product Portfolios and Specifications

Table 96. Bosch Dry Brake-by-Wire Systems Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 97. Bosch Main Business

Table 98. Bosch Latest Developments

Table 99. Hitachi Astemo Basic Information, Dry Brake-by-Wire Systems Manufacturing Base, Sales Area and Its Competitors

Table 100. Hitachi Astemo Dry Brake-by-Wire Systems Product Portfolios and Specifications

Table 101. Hitachi Astemo Dry Brake-by-Wire Systems Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 102. Hitachi Astemo Main Business

Table 103. Hitachi Astemo Latest Developments

Table 104. AUMOVIO Basic Information, Dry Brake-by-Wire Systems Manufacturing Base, Sales Area and Its Competitors

Table 105. AUMOVIO Dry Brake-by-Wire Systems Product Portfolios and Specifications

Table 106. AUMOVIO Dry Brake-by-Wire Systems Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 107. AUMOVIO Main Business

Table 108. AUMOVIO Latest Developments

Table 109. HL Mando Basic Information, Dry Brake-by-Wire Systems Manufacturing Base, Sales Area and Its Competitors

Table 110. HL Mando Dry Brake-by-Wire Systems Product Portfolios and Specifications

Table 111. HL Mando Dry Brake-by-Wire Systems Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 112. HL Mando Main Business

Table 113. HL Mando Latest Developments

Table 114. BWI Group Basic Information, Dry Brake-by-Wire Systems Manufacturing Base, Sales Area and Its Competitors

Table 115. BWI Group Dry Brake-by-Wire Systems Product Portfolios and Specifications

Table 116. BWI Group Dry Brake-by-Wire Systems Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 117. BWI Group Main Business

Table 118. BWI Group Latest Developments

Table 119. Nexteer Automotive Basic Information, Dry Brake-by-Wire Systems Manufacturing Base, Sales Area and Its Competitors

Table 120. Nexteer Automotive Dry Brake-by-Wire Systems Product Portfolios and Specifications

Table 121. Nexteer Automotive Dry Brake-by-Wire Systems Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 122. Nexteer Automotive Main Business

Table 123. Nexteer Automotive Latest Developments

Table 124. Brembo Basic Information, Dry Brake-by-Wire Systems Manufacturing Base, Sales Area and Its Competitors

Table 125. Brembo Dry Brake-by-Wire Systems Product Portfolios and Specifications

Table 126. Brembo Dry Brake-by-Wire Systems Sales (K Sets), Revenue (\$ Million), Price (US\$/Set) and Gross Margin (2021-2026)

Table 127. Brembo Main Business

Table 128. Brembo Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Dry Brake-by-Wire Systems
- Figure 2. Dry Brake-by-Wire Systems Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Dry Brake-by-Wire Systems Sales Growth Rate 2021-2032 (K Sets)
- Figure 7. Global Dry Brake-by-Wire Systems Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Dry Brake-by-Wire Systems Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Dry Brake-by-Wire Systems Sales Market Share by Country/Region (2025)
- Figure 10. Dry Brake-by-Wire Systems Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Centralized Control
- Figure 12. Product Picture of Distributed Control
- Figure 13. Global Dry Brake-by-Wire Systems Sales Market Share by Type in 2026
- Figure 14. Global Dry Brake-by-Wire Systems Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of 12V Systems
- Figure 16. Product Picture of 24V Systems
- Figure 17. Product Picture of 48V and Above Systems
- Figure 18. Global Dry Brake-by-Wire Systems Sales Market Share by Operating Voltage in 2026
- Figure 19. Global Dry Brake-by-Wire Systems Revenue Market Share by Operating Voltage (2021-2026)
- Figure 20. Product Picture of Ball Screw Type
- Figure 21. Product Picture of Planetary Roller Screw Type
- Figure 22. Product Picture of Wedge Type
- Figure 23. Product Picture of Gear Reduction Type
- Figure 24. Global Dry Brake-by-Wire Systems Sales Market Share by Electromechanical Actuation Mechanism in 2026
- Figure 25. Global Dry Brake-by-Wire Systems Revenue Market Share by Electromechanical Actuation Mechanism (2021-2026)
- Figure 26. Dry Brake-by-Wire Systems Consumed in Battery Electric Vehicles (BEVs)
- Figure 27. Global Dry Brake-by-Wire Systems Market: Battery Electric Vehicles (BEVs)

(2021-2026) & (K Sets)

Figure 28. Dry Brake-by-Wire Systems Consumed in Hybrid Electric Vehicles (HEVs)

Figure 29. Global Dry Brake-by-Wire Systems Market: Hybrid Electric Vehicles (HEVs) (2021-2026) & (K Sets)

Figure 30. Dry Brake-by-Wire Systems Consumed in Others

Figure 31. Global Dry Brake-by-Wire Systems Market: Others (2021-2026) & (K Sets)

Figure 32. Global Dry Brake-by-Wire Systems Sale Market Share by Application (2025)

Figure 33. Global Dry Brake-by-Wire Systems Revenue Market Share by Application in 2025

Figure 34. Dry Brake-by-Wire Systems Sales by Company in 2025 (K Sets)

Figure 35. Global Dry Brake-by-Wire Systems Sales Market Share by Company in 2025

Figure 36. Dry Brake-by-Wire Systems Revenue by Company in 2025 (\$ millions)

Figure 37. Global Dry Brake-by-Wire Systems Revenue Market Share by Company in 2025

Figure 38. Global Dry Brake-by-Wire Systems Sales Market Share by Geographic Region (2021-2026)

Figure 39. Global Dry Brake-by-Wire Systems Revenue Market Share by Geographic Region in 2025

Figure 40. Americas Dry Brake-by-Wire Systems Sales 2021-2026 (K Sets)

Figure 41. Americas Dry Brake-by-Wire Systems Revenue 2021-2026 (\$ millions)

Figure 42. APAC Dry Brake-by-Wire Systems Sales 2021-2026 (K Sets)

Figure 43. APAC Dry Brake-by-Wire Systems Revenue 2021-2026 (\$ millions)

Figure 44. Europe Dry Brake-by-Wire Systems Sales 2021-2026 (K Sets)

Figure 45. Europe Dry Brake-by-Wire Systems Revenue 2021-2026 (\$ millions)

Figure 46. Middle East & Africa Dry Brake-by-Wire Systems Sales 2021-2026 (K Sets)

Figure 47. Middle East & Africa Dry Brake-by-Wire Systems Revenue 2021-2026 (\$ millions)

Figure 48. Americas Dry Brake-by-Wire Systems Sales Market Share by Country in 2025

Figure 49. Americas Dry Brake-by-Wire Systems Revenue Market Share by Country (2021-2026)

Figure 50. Americas Dry Brake-by-Wire Systems Sales Market Share by Type (2021-2026)

Figure 51. Americas Dry Brake-by-Wire Systems Sales Market Share by Application (2021-2026)

Figure 52. United States Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 53. Canada Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC Dry Brake-by-Wire Systems Sales Market Share by Region in 2025

Figure 57. APAC Dry Brake-by-Wire Systems Revenue Market Share by Region (2021-2026)

Figure 58. APAC Dry Brake-by-Wire Systems Sales Market Share by Type (2021-2026)

Figure 59. APAC Dry Brake-by-Wire Systems Sales Market Share by Application (2021-2026)

Figure 60. China Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 64. India Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe Dry Brake-by-Wire Systems Sales Market Share by Country in 2025

Figure 68. Europe Dry Brake-by-Wire Systems Revenue Market Share by Country (2021-2026)

Figure 69. Europe Dry Brake-by-Wire Systems Sales Market Share by Type (2021-2026)

Figure 70. Europe Dry Brake-by-Wire Systems Sales Market Share by Application (2021-2026)

Figure 71. Germany Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Dry Brake-by-Wire Systems Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Dry Brake-by-Wire Systems Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Dry Brake-by-Wire Systems Sales Market Share by Application (2021-2026)

Figure 79. Egypt Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$

millions)

Figure 81. Israel Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Dry Brake-by-Wire Systems Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Dry Brake-by-Wire Systems in 2026

Figure 85. Manufacturing Process Analysis of Dry Brake-by-Wire Systems

Figure 86. Industry Chain Structure of Dry Brake-by-Wire Systems

Figure 87. Channels of Distribution

Figure 88. Global Dry Brake-by-Wire Systems Sales Market Forecast by Region (2027-2032)

Figure 89. Global Dry Brake-by-Wire Systems Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Dry Brake-by-Wire Systems Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global Dry Brake-by-Wire Systems Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global Dry Brake-by-Wire Systems Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global Dry Brake-by-Wire Systems Revenue Market Share Forecast by Application (2027-2032)

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