

# **Europe Drive by Wire Market Size study, by Application (Throttle by Wire, Shift by Wire, Brake by Wire, Park by Wire, Steer by Wire) by Vehicle Type (Passenger Car, Commercial Vehicle, Electric Vehicle, Off-highway Vehicles) by Component (Actuator, Electronic Control Unit (ECU), Engine Control Module (ECM), Electronic Throttle Control Module (ETCM), Electronic Transmission Control Unit (ETCU), Feedback Motor, Parking Pawl, Sensors, Others) and Country Forecasts 2022-2032**

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## **Abstracts**

Europe Drive by Wire Market is valued approximately USD 4.45 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.63% over the forecast period 2024-2032. Drive by wire technology replaces traditional mechanical linkages with electronic controls, allowing for the electronic management of various vehicle functions such as steering, braking, and throttle control. The Europe Drive by Wire market focused on the development, production, and adoption of drive by wire systems in vehicles across European countries. The market encompasses a wide range of stakeholders including automotive manufacturers, suppliers of drive by wire components and systems, technology companies specializing in automotive electronics, regulatory bodies setting standards for vehicle safety and emissions, as well as consumers and end-users of vehicles equipped with drive by wire technology. Trend such as increasing adoption of electric and hybrid vehicles in Europe was providing opportunities for drive by wire systems. These systems are integral to the operation of electric powertrains and regenerative braking systems, which are key features of

electric and hybrid vehicles.

Stringent safety regulations and standards in Europe are pivotal drivers propelling the demand for the EU Drive by Wire Market. European regulatory bodies enforce rigorous safety standards across the automotive industry. These standards mandate the integration of advanced safety features in vehicles to mitigate risks and ensure passenger and pedestrian safety. For instance, Europe announced that it has created a special certification program for the steering-by-wire system, which eliminates the requirement for mechanical relationships between steering wheels and wheels, a pre-existing requirement. Furthermore, drive by wire technology facilitates the implementation of crucial safety systems like electronic stability control (ESC), adaptive cruise control (ACC), and collision avoidance systems. By electronically controlling vehicle functions such as steering, braking, and acceleration, drive by wire systems enhance responsiveness and precision, contributing to accident prevention and overall vehicle safety. For instance, in September 2023, Titan, UK-based technology and engineering company launched its new steer-by-wire system designed for bespoke and lower-volume manufacturers. The steer-by-wire system provides electronic control system and bespoke electric motor, biased to 48-volt and allow infinite tuneability and optimum performance. These features further drive demand for the Europe Drive by Wire Market. However, developing reliable and secure software to control drive-by-wire systems is critical and requires ongoing updates & improvements and a cybersecurity concern associated with drive by wire systems can stifle market growth during the forecast period 2024-2032.

The key countries considered for the Europe Drive by Wire market study includes UK, Germany, France, Italy, Spain, and Rest of Europe. In 2023, Germany was the largest market in terms of revenue. Germany consists one of the leading automotive manufacturers and suppliers. Companies such as BMW, Volkswagen, Daimler (Mercedes-Benz), and Bosch are at the forefront of drive by wire technology development and adoption. Their investment in research and development drives innovation and shapes the German drive by wire market. For instance, in June 2023, Bosch collaborated with Arnold NextG, on steer-by-wire systems. The objective of the collaboration is to quicken the extensive production of steer-by-wire solutions. The market in UK, on the other hand, is expected to grow at the fastest rate over the forecast period.

Major market player included in this report are:

Robert Bosch GmbH

Kongsberg Automotive

Ficosa Corporation SA  
Continental AG  
ZF Friedrichshafen AG  
Company 6  
Company 7  
Company 8  
Company 9  
Company 10

The detailed segments and sub-segment of the market are explained below:

By Application  
Throttle by Wire  
Shift by Wire  
Brake by Wire  
Park by Wire  
Steer by Wire

By Vehicle Type  
Passenger Car  
Commercial Vehicle  
Electric Vehicle  
Off-highway Vehicles

By Component  
Actuator  
Electronic Control Unit (ECU)  
Engine Control Module (ECM)  
Electronic Throttle Control Module (ETCM)  
Electronic Transmission Control Unit (ETCU)  
Feedback Motor  
Parking Pawl  
Sensors  
Others  
By Region:  
Europe  
UK  
Germany  
France  
Spain

Italy  
ROE

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and Country level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis.

Competitive landscape with information on major players in the market.

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

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

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