

X-by-Wire Systems Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Market Report | 2023-09-04 | 138 pages | IMARC Group

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Report description:

Market Overview:

The global X-by-wire systems market size reached US\$ 20.4 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 29.8 Billion by 2028, exhibiting a growth rate (CAGR) of 6.4% during 2023-2028.

X-by-wire systems refer to the replacement of mechanical or hydraulic systems with electronic control systems. Brake-by-wire, steer-by-wire, shift-by-wire, park-by-wire, and throttle-by-wire are some of the commonly used types of X-by-wire systems. These systems are equipped with electronically assisted control mechanisms that aid in eliminating the mechanical linkages involved in the system. X-by-wire systems assist in eliminating the use of various traditional components, such as intermediate shafts, hoses, pumps, vacuum servos, master cylinders, steering columns, and belts. These systems aid in reducing the overall weight of the vehicles and emission levels, increasing fuel efficiency and safety, and improving the response time. The X-by-wire systems replace the conventional mechanical control systems by using human-machine interfaces and electromechanical actuators.

X-by-Wire Systems Market Trends:

The increasing demand for electric vehicles (EVs) across the globe is one of the key factors driving the growth of the market. EVs are widely adopted due to numerous advantages, such as reduced emissions and fuel consumption. In line with this, various autonomous car manufacturers are introducing electronic control units and sensors, which is positively impacting the market growth. Moreover, various technological advancements, such as the introduction of the lithium-ion capacitor and modular valve that increases the intelligence by enabling tailor steering performance, are significantly providing an impetus to the market growth. Additionally, the rapid adoption of X-by-Wire systems on account of the rising demand for lightweight vehicles with improved efficiency is favoring the market growth. Other factors, such as the significant expansion in the automotive industry, increasing disposable income levels of the masses, and implementation of various government initiatives on lowering the carbon footprint, are creating a positive outlook for the market.

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Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global X-by-wire systems market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type and vehicle type.

Breakup by Type:

- Throttle-by-Wire System
- Brake-by-Wire System
- Steer-by-Wire System
- Park-by-Wire System
- Shift-by-Wire System

Breakup by Vehicle Type:

- Passenger Cars
- Commercial Vehicles

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
 - Australia
 - Indonesia
 - Others
- Europe
 - Germany
 - France
 - United Kingdom
 - Italy
 - Spain
 - Russia
 - Others
- Latin America
 - Brazil
 - Mexico
 - Others
- Middle East and Africa

Competitive Landscape:

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The competitive landscape of the industry has also been examined along with the profiles of the key players being AB SKF, Continental AG, Curtiss-Wright Corporation, Infineon Technologies AG, JTEKT Corporation, ME Mobil Elektronik GmbH, Nexteer Automotive, Orscheln Products L.L.C, Parker Hannifin Corporation, Robert Bosch GmbH, Tata Motors Limited, Volkswagen AG and ZF Friedrichshafen AG.

Key Questions Answered in This Report:

How has the global X-by-wire systems market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global X-by-wire systems market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the vehicle type?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global X-by-wire systems market and who are the key players?

What is the degree of competition in the industry?

Table of Contents:

- 1 Preface
- 2 Scope and Methodology
 - 2.1 Objectives of the Study
 - 2.2 Stakeholders
 - 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
 - 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
 - 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction
 - 4.1 Overview
 - 4.2 Key Industry Trends
- 5 Global X-by-Wire Systems Market
 - 5.1 Market Overview
 - 5.2 Market Performance
 - 5.3 Impact of COVID-19
 - 5.4 Market Forecast
- 6 Market Breakup by Type
 - 6.1 Throttle-by-Wire System
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
 - 6.2 Brake-by-Wire System
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
 - 6.3 Steer-by-Wire System
 - 6.3.1 Market Trends

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- 6.3.2 Market Forecast
- 6.4 Park-by-Wire System
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 6.5 Shift-by-Wire System
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast
- 7 Market Breakup by Vehicle Type
 - 7.1 Passenger Cars
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
 - 7.2 Commercial Vehicles
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 8 Market Breakup by Region
 - 8.1 North America
 - 8.1.1 United States
 - 8.1.1.1 Market Trends
 - 8.1.1.2 Market Forecast
 - 8.1.2 Canada
 - 8.1.2.1 Market Trends
 - 8.1.2.2 Market Forecast
 - 8.2 Asia-Pacific
 - 8.2.1 China
 - 8.2.1.1 Market Trends
 - 8.2.1.2 Market Forecast
 - 8.2.2 Japan
 - 8.2.2.1 Market Trends
 - 8.2.2.2 Market Forecast
 - 8.2.3 India
 - 8.2.3.1 Market Trends
 - 8.2.3.2 Market Forecast
 - 8.2.4 South Korea
 - 8.2.4.1 Market Trends
 - 8.2.4.2 Market Forecast
 - 8.2.5 Australia
 - 8.2.5.1 Market Trends
 - 8.2.5.2 Market Forecast
 - 8.2.6 Indonesia
 - 8.2.6.1 Market Trends
 - 8.2.6.2 Market Forecast
 - 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
 - 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends

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- 8.3.1.2 Market Forecast
- 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
- 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
- 8.3.4 Italy
 - 8.3.4.1 Market Trends
 - 8.3.4.2 Market Forecast
- 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
- 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
- 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast
- 8.4 Latin America
 - 8.4.1 Brazil
 - 8.4.1.1 Market Trends
 - 8.4.1.2 Market Forecast
 - 8.4.2 Mexico
 - 8.4.2.1 Market Trends
 - 8.4.2.2 Market Forecast
 - 8.4.3 Others
 - 8.4.3.1 Market Trends
 - 8.4.3.2 Market Forecast
- 8.5 Middle East and Africa
 - 8.5.1 Market Trends
 - 8.5.2 Market Breakup by Country
 - 8.5.3 Market Forecast
- 9 SWOT Analysis
 - 9.1 Overview
 - 9.2 Strengths
 - 9.3 Weaknesses
 - 9.4 Opportunities
 - 9.5 Threats
- 10 Value Chain Analysis
- 11 Porters Five Forces Analysis
 - 11.1 Overview
 - 11.2 Bargaining Power of Buyers
 - 11.3 Bargaining Power of Suppliers
 - 11.4 Degree of Competition
 - 11.5 Threat of New Entrants
 - 11.6 Threat of Substitutes

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- 12 Price Analysis
- 13 Competitive Landscape
 - 13.1 Market Structure
 - 13.2 Key Players
 - 13.3 Profiles of Key Players
 - 13.3.1 AB SKF
 - 13.3.1.1 Company Overview
 - 13.3.1.2 Product Portfolio
 - 13.3.1.3 Financials
 - 13.3.2 Continental AG
 - 13.3.2.1 Company Overview
 - 13.3.2.2 Product Portfolio
 - 13.3.2.3 Financials
 - 13.3.2.4 SWOT Analysis
 - 13.3.3 Curtiss-Wright Corporation
 - 13.3.3.1 Company Overview
 - 13.3.3.2 Product Portfolio
 - 13.3.3.3 Financials
 - 13.3.3.4 SWOT Analysis
 - 13.3.4 Infineon Technologies AG
 - 13.3.4.1 Company Overview
 - 13.3.4.2 Product Portfolio
 - 13.3.4.3 Financials
 - 13.3.4.4 SWOT Analysis
 - 13.3.5 JTEKT Corporation
 - 13.3.5.1 Company Overview
 - 13.3.5.2 Product Portfolio
 - 13.3.5.3 Financials
 - 13.3.6 ME Mobil Elektronik GmbH
 - 13.3.6.1 Company Overview
 - 13.3.6.2 Product Portfolio
 - 13.3.7 Nexteer Automotive
 - 13.3.7.1 Company Overview
 - 13.3.7.2 Product Portfolio
 - 13.3.8 Orscheln Products L.L.C
 - 13.3.8.1 Company Overview
 - 13.3.8.2 Product Portfolio
 - 13.3.9 Parker Hannifin Corporation
 - 13.3.9.1 Company Overview
 - 13.3.9.2 Product Portfolio
 - 13.3.9.3 Financials
 - 13.3.9.4 SWOT Analysis
 - 13.3.10 Robert Bosch GmbH
 - 13.3.10.1 Company Overview
 - 13.3.10.2 Product Portfolio
 - 13.3.10.3 SWOT Analysis
 - 13.3.11 Tata Motors Limited

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- 13.3.11.1 Company Overview
- 13.3.11.2 Product Portfolio
- 13.3.11.3 Financials
- 13.3.11.4 SWOT Analysis
- 13.3.12 Volkswagen AG
 - 13.3.12.1 Company Overview
 - 13.3.12.2 Product Portfolio
 - 13.3.12.3 Financials
 - 13.3.12.4 SWOT Analysis
- 13.3.13 ZF Friedrichshafen AG
 - 13.3.13.1 Company Overview
 - 13.3.13.2 Product Portfolio
 - 13.3.13.3 SWOT Analysis

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