

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

https://marketpublishers.com/r/X6F0C0FF2CE3EN.html

Date: September 2023

Pages: 138

Price: US\$ 2,499.00 (Single User License)

ID: X6F0C0FF2CE3EN

Abstracts

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.

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:

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?



Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.10bjectives of the Study
- 2.2Stakeholders
- 2.3Data Sources
 - 2.3.1Primary Sources
 - 2.3.2Secondary Sources
- 2.4Market Estimation
 - 2.4.1Bottom-Up Approach
 - 2.4.2Top-Down Approach
- 2.5Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.10verview
- 4.2Key Industry Trends

5 GLOBAL X-BY-WIRE SYSTEMS MARKET

- 5.1Market Overview
- 5.2Market Performance
- 5.3Impact of COVID-19
- 5.4Market Forecast

6 MARKET BREAKUP BY TYPE

- 6.1Throttle-by-Wire System
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2Brake-by-Wire System
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3Steer-by-Wire System



- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4Park-by-Wire System
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 6.5Shift-by-Wire System
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast

7 MARKET BREAKUP BY VEHICLE TYPE

- 7.1Passenger Cars
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2Commercial Vehicles
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast

8 MARKET BREAKUP BY REGION

- 8.1North 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
- 8.2Asia-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
- 8.3Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 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
- 8.4Latin 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
- 8.5Middle East and Africa
 - 8.5.1 Market Trends
 - 8.5.2 Market Breakup by Country
 - 8.5.3 Market Forecast

9 SWOT ANALYSIS

- 9.10verview
- 9.2Strengths
- 9.3Weaknesses
- 9.4Opportunities
- 9.5Threats

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

- 11.10verview
- 11.2Bargaining Power of Buyers
- 11.3Bargaining Power of Suppliers
- 11.4Degree of Competition
- 11.5Threat of New Entrants
- 11.6Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

- 13.1Market Structure
- 13.2Key Players
- 13.3Profiles of Key Players
 - 13.3.1AB SKF
 - 13.3.1.1 Company Overview
 - 13.3.1.2 Product Portfolio
 - 13.3.1.3 Financials
 - 13.3.2Continental AG



- 13.3.2.1 Company Overview
- 13.3.2.2 Product Portfolio
- 13.3.2.3 Financials
- 13.3.2.4 SWOT Analysis
- 13.3.3Curtiss-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
- 13.3.4Infineon 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
- 13.3.5JTEKT Corporation
 - 13.3.5.1 Company Overview
 - 13.3.5.2 Product Portfolio
 - 13.3.5.3 Financials
- 13.3.6ME Mobil Elektronik GmbH
 - 13.3.6.1 Company Overview
 - 13.3.6.2 Product Portfolio
- 13.3.7Nexteer Automotive
 - 13.3.7.1 Company Overview
 - 13.3.7.2 Product Portfolio
- 13.3.8Orscheln Products L.L.C
 - 13.3.8.1 Company Overview
 - 13.3.8.2 Product Portfolio
- 13.3.9Parker 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
- 13.3.10Robert Bosch GmbH
 - 13.3.10.1 Company Overview
 - 13.3.10.2 Product Portfolio
 - 13.3.10.3 SWOT Analysis
- 13.3.11Tata Motors Limited
 - 13.3.11.1 Company Overview
 - 13.3.11.2 Product Portfolio



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



List Of Tables

LIST OF TABLES

Table 1: Global: X-by-Wire Systems Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: X-by-Wire Systems Market Forecast: Breakup by Type (in Million US\$),

2023-2028

Table 3: Global: X-by-Wire Systems Market Forecast: Breakup by Vehicle Type (in

Million US\$), 2023-2028

Table 4: Global: X-by-Wire Systems Market Forecast: Breakup by Region (in Million

US\$), 2023-2028

Table 5: Global: X-by-Wire Systems Market: Competitive Structure

Table 6: Global: X-by-Wire Systems Market: Key Players



List Of Figures

LIST OF FIGURES

Figure 1: Global: X-by-Wire Systems Market: Major Drivers and Challenges

Figure 2: Global: X-by-Wire Systems Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: X-by-Wire Systems Market Forecast: Sales Value (in Billion US\$),

2023-2028

Figure 4: Global: X-by-Wire Systems Market: Breakup by Type (in %), 2022

Figure 5: Global: X-by-Wire Systems Market: Breakup by Vehicle Type (in %), 2022

Figure 6: Global: X-by-Wire Systems Market: Breakup by Region (in %), 2022

Figure 7: Global: X-by-Wire Systems (Throttle-by-Wire System) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 8: Global: X-by-Wire Systems (Throttle-by-Wire System) Market Forecast: Sales

Value (in Million US\$), 2023-2028

Figure 9: Global: X-by-Wire Systems (Brake-by-Wire System) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 10: Global: X-by-Wire Systems (Brake-by-Wire System) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 11: Global: X-by-Wire Systems (Steer-by-Wire System) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: X-by-Wire Systems (Steer-by-Wire System) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: X-by-Wire Systems (Park-by-Wire System) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: X-by-Wire Systems (Park-by-Wire System) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: X-by-Wire Systems (Shift-by-Wire System) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: X-by-Wire Systems (Shift-by-Wire System) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: X-by-Wire Systems (Passenger Cars) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: X-by-Wire Systems (Passenger Cars) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: X-by-Wire Systems (Commercial Vehicles) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: X-by-Wire Systems (Commercial Vehicles) Market Forecast: Sales Value (in Million US\$), 2023-2028



Figure 21: North America: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: North America: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: United States: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: United States: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Canada: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Canada: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Asia-Pacific: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Asia-Pacific: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: China: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: China: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Japan: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Japan: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: India: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022 Figure 34: India: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 35: South Korea: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: South Korea: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Australia: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Australia: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: Indonesia: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: Indonesia: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028



Figure 41: Others: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: Others: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: Europe: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: Europe: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: Germany: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: Germany: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: France: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: France: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: United Kingdom: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: United Kingdom: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: Italy: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022 Figure 52: Italy: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 53: Spain: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022 Figure 54: Spain: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Russia: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: Russia: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: Others: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: Others: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: Latin America: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: Latin America: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Brazil: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022



Figure 62: Brazil: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Mexico: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Mexico: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: Others: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: Others: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: Middle East and Africa: X-by-Wire Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: Middle East and Africa: X-by-Wire Systems Market: Breakup by Country (in %), 2022

Figure 69: Middle East and Africa: X-by-Wire Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 70: Global: X-by-Wire Systems Industry: SWOT Analysis

Figure 71: Global: X-by-Wire Systems Industry: Value Chain Analysis

Figure 72: Global: X-by-Wire Systems Industry: Porter's Five Forces Analysis



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