

Global Hands Off Detection (HOD) System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hands Off Detection (HOD) System market size is expected to reach \$ 6032 million by 2032, rising at a market growth of 12.5% CAGR during the forecast period (2026-2032).

Hands-Off Detection (HOD) system is a safety monitoring device used in vehicle automated driving assistance (Level 2+ ADAS) or semi-autonomous driving systems. It detects in real time whether the driver is holding the steering wheel. If the system detects the driver's hands off the steering wheel for an extended period, it issues a warning or triggers automatic control logic to ensure driving safety. HOD systems are typically integrated into the steering wheel using capacitive sensors, pressure sensors, or other contact/non-contact technologies. Some high-end models also incorporate steering wheel heating or multi-function electronic modules.

In the HOD system supply chain, the upstream suppliers primarily include sensor chip manufacturers, control module suppliers, and steering wheel structure and material providers. The downstream suppliers primarily include original equipment manufacturers (OEMs), including Mercedes-Benz, BMW, Tesla, and Volvo. The systems become part of automated driving or driver assistance features through integration into steering wheel assemblies or ADAS electronic modules. They may also be packaged and delivered to OEMs through Tier 1 suppliers.

In 2025, global Hands Off Detection (HOD) System production reached 20.05 million units, with an average global market price of around US\$ 113 per unit.

Gross margin in the HOD system market depends heavily on integration depth and technology selection. Torque-based approaches leveraging existing EPS sensors can be cost-efficient but may suffer from false positives if drivers apply minimal steering torque without proper hand contact. Capacitive HOD offers stronger true hands-on? recognition but introduces additional BOM cost, integration complexity, and validation requirements across diverse steering wheel designs and climate conditions. Suppliers

with mature sensing design, robust anti-interference performance, and proven automotive qualification can sustain healthier margins, while standardized implementations face pricing pressure as HOD becomes a baseline requirement rather than a premium differentiator.

Looking ahead, the HOD market is expected to expand steadily as hands-on monitoring becomes more strictly enforced for L2+ systems and as consumer expectations for safe automated driving rise. Growth will be supported by increased penetration of capacitive steering wheel solutions, tighter coupling with DMS for driver readiness assessment, and higher functional safety requirements in advanced platforms. Key challenges include ensuring reliability under gloves, moisture, and temperature extremes, balancing detection sensitivity against nuisance alerts, and managing system cost for mass-market vehicles. Overall, HOD is transitioning from an optional feature into a standard safety subsystem in modern intelligent vehicles.

This report studies the global Hands Off Detection (HOD) System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hands Off Detection (HOD) System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hands Off Detection (HOD) System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hands Off Detection (HOD) System total production and demand, 2021-2032, (K Units)

Global Hands Off Detection (HOD) System total production value, 2021-2032, (USD Million)

Global Hands Off Detection (HOD) System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Hands Off Detection (HOD) System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Hands Off Detection (HOD) System domestic production, consumption, key domestic manufacturers and share

Global Hands Off Detection (HOD) System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Hands Off Detection (HOD) System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Hands Off Detection (HOD) System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Hands Off Detection (HOD) System market based on the following parameters - company overview, production, value, price, gross

margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bosch, ZF, Valeo, Nexteer, IEE S.A., Keyes Engineering, Autoliv, Marquardt, Joyson Safety Systems, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hands Off Detection (HOD) System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Hands Off Detection (HOD) System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hands Off Detection (HOD) System Market, Segmentation by Type:

Capacitive Sensing

Pressure Sensing

Others

Global Hands Off Detection (HOD) System Market, Segmentation by Installation Location:

Steering Wheel Rim Integrated

Steering Column / EPS Integrated

Others

Global Hands Off Detection (HOD) System Market, Segmentation by System Architecture:

Standalone HOD ECU

Integrated into EPS ECU

Global Hands Off Detection (HOD) System Market, Segmentation by Application:

Passenger Cars

Commercial Vehicles

Companies Profiled:

Bosch

ZF

Valeo

Nexteer

IEE S.A.

Keyes Engineering

Autoliv

Marquardt

Joyson Safety Systems

Key Questions Answered:

1. How big is the global Hands Off Detection (HOD) System market?
2. What is the demand of the global Hands Off Detection (HOD) System market?
3. What is the year over year growth of the global Hands Off Detection (HOD) System market?
4. What is the production and production value of the global Hands Off Detection (HOD) System market?
5. Who are the key producers in the global Hands Off Detection (HOD) System market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Hands Off Detection (HOD) System Introduction
- 1.2 World Hands Off Detection (HOD) System Supply & Forecast
 - 1.2.1 World Hands Off Detection (HOD) System Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Hands Off Detection (HOD) System Production (2021-2032)
 - 1.2.3 World Hands Off Detection (HOD) System Pricing Trends (2021-2032)
- 1.3 World Hands Off Detection (HOD) System Production by Region (Based on Production Site)
 - 1.3.1 World Hands Off Detection (HOD) System Production Value by Region (2021-2032)
 - 1.3.2 World Hands Off Detection (HOD) System Production by Region (2021-2032)
 - 1.3.3 World Hands Off Detection (HOD) System Average Price by Region (2021-2032)
 - 1.3.4 North America Hands Off Detection (HOD) System Production (2021-2032)
 - 1.3.5 Europe Hands Off Detection (HOD) System Production (2021-2032)
 - 1.3.6 China Hands Off Detection (HOD) System Production (2021-2032)
 - 1.3.7 Japan Hands Off Detection (HOD) System Production (2021-2032)
 - 1.3.8 South Korea Hands Off Detection (HOD) System Production (2021-2032)
 - 1.3.9 India Hands Off Detection (HOD) System Production (2021-2032)
 - 1.3.10 Mexico Hands Off Detection (HOD) System Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Hands Off Detection (HOD) System Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Hands Off Detection (HOD) System Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Hands Off Detection (HOD) System Demand (2021-2032)
- 2.2 World Hands Off Detection (HOD) System Consumption by Region
 - 2.2.1 World Hands Off Detection (HOD) System Consumption by Region (2021-2026)
 - 2.2.2 World Hands Off Detection (HOD) System Consumption Forecast by Region (2027-2032)
- 2.3 United States Hands Off Detection (HOD) System Consumption (2021-2032)
- 2.4 China Hands Off Detection (HOD) System Consumption (2021-2032)
- 2.5 Europe Hands Off Detection (HOD) System Consumption (2021-2032)
- 2.6 Japan Hands Off Detection (HOD) System Consumption (2021-2032)

- 2.7 South Korea Hands Off Detection (HOD) System Consumption (2021-2032)
- 2.8 ASEAN Hands Off Detection (HOD) System Consumption (2021-2032)
- 2.9 India Hands Off Detection (HOD) System Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Hands Off Detection (HOD) System Production Value by Manufacturer (2021-2026)
- 3.2 World Hands Off Detection (HOD) System Production by Manufacturer (2021-2026)
- 3.3 World Hands Off Detection (HOD) System Average Price by Manufacturer (2021-2026)
- 3.4 Hands Off Detection (HOD) System Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Hands Off Detection (HOD) System Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Hands Off Detection (HOD) System in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Hands Off Detection (HOD) System in 2025
- 3.6 Hands Off Detection (HOD) System Market: Overall Company Footprint Analysis
 - 3.6.1 Hands Off Detection (HOD) System Market: Region Footprint
 - 3.6.2 Hands Off Detection (HOD) System Market: Company Product Type Footprint
 - 3.6.3 Hands Off Detection (HOD) System Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Hands Off Detection (HOD) System Production Value Comparison
 - 4.1.1 United States VS China: Hands Off Detection (HOD) System Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Hands Off Detection (HOD) System Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Hands Off Detection (HOD) System Production Comparison

4.2.1 United States VS China: Hands Off Detection (HOD) System Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Hands Off Detection (HOD) System Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Hands Off Detection (HOD) System Consumption Comparison

4.3.1 United States VS China: Hands Off Detection (HOD) System Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Hands Off Detection (HOD) System Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Hands Off Detection (HOD) System Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Hands Off Detection (HOD) System Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Hands Off Detection (HOD) System Production Value (2021-2026)

4.4.3 United States Based Manufacturers Hands Off Detection (HOD) System Production (2021-2026)

4.5 China Based Hands Off Detection (HOD) System Manufacturers and Market Share

4.5.1 China Based Hands Off Detection (HOD) System Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Hands Off Detection (HOD) System Production Value (2021-2026)

4.5.3 China Based Manufacturers Hands Off Detection (HOD) System Production (2021-2026)

4.6 Rest of World Based Hands Off Detection (HOD) System Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Hands Off Detection (HOD) System Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Hands Off Detection (HOD) System Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Hands Off Detection (HOD) System Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Hands Off Detection (HOD) System Market Size Overview by Type: 2021 VS

2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Capacitive Sensing

5.2.2 Pressure Sensing

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Hands Off Detection (HOD) System Production by Type (2021-2032)

5.3.2 World Hands Off Detection (HOD) System Production Value by Type (2021-2032)

5.3.3 World Hands Off Detection (HOD) System Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY INSTALLATION LOCATION

6.1 World Hands Off Detection (HOD) System Market Size Overview by Installation Location: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Installation Location

6.2.1 Steering Wheel Rim Integrated

6.2.2 Steering Column / EPS Integrated

6.2.3 Others

6.3 Market Segment by Installation Location

6.3.1 World Hands Off Detection (HOD) System Production by Installation Location (2021-2032)

6.3.2 World Hands Off Detection (HOD) System Production Value by Installation Location (2021-2032)

6.3.3 World Hands Off Detection (HOD) System Average Price by Installation Location (2021-2032)

7 MARKET ANALYSIS BY SYSTEM ARCHITECTURE

7.1 World Hands Off Detection (HOD) System Market Size Overview by System Architecture: 2021 VS 2025 VS 2032

7.2 Segment Introduction by System Architecture

7.2.1 Standalone HOD ECU

7.2.2 Integrated into EPS ECU

7.3 Market Segment by System Architecture

7.3.1 World Hands Off Detection (HOD) System Production by System Architecture (2021-2032)

7.3.2 World Hands Off Detection (HOD) System Production Value by System Architecture (2021-2032)

7.3.3 World Hands Off Detection (HOD) System Average Price by System Architecture (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Hands Off Detection (HOD) System Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Passenger Cars

8.2.2 Commercial Vehicles

8.3 Market Segment by Application

8.3.1 World Hands Off Detection (HOD) System Production by Application (2021-2032)

8.3.2 World Hands Off Detection (HOD) System Production Value by Application (2021-2032)

8.3.3 World Hands Off Detection (HOD) System Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Bosch

9.1.1 Bosch Details

9.1.2 Bosch Major Business

9.1.3 Bosch Hands Off Detection (HOD) System Product and Services

9.1.4 Bosch Hands Off Detection (HOD) System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Bosch Recent Developments/Updates

9.1.6 Bosch Competitive Strengths & Weaknesses

9.2 ZF

9.2.1 ZF Details

9.2.2 ZF Major Business

9.2.3 ZF Hands Off Detection (HOD) System Product and Services

9.2.4 ZF Hands Off Detection (HOD) System Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 ZF Recent Developments/Updates

9.2.6 ZF Competitive Strengths & Weaknesses

9.3 Valeo

9.3.1 Valeo Details

9.3.2 Valeo Major Business

- 9.3.3 Valeo Hands Off Detection (HOD) System Product and Services
- 9.3.4 Valeo Hands Off Detection (HOD) System Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 Valeo Recent Developments/Updates
- 9.3.6 Valeo Competitive Strengths & Weaknesses
- 9.4 Nexteer
 - 9.4.1 Nexteer Details
 - 9.4.2 Nexteer Major Business
 - 9.4.3 Nexteer Hands Off Detection (HOD) System Product and Services
 - 9.4.4 Nexteer Hands Off Detection (HOD) System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Nexteer Recent Developments/Updates
 - 9.4.6 Nexteer Competitive Strengths & Weaknesses
- 9.5 IEE S.A.
 - 9.5.1 IEE S.A. Details
 - 9.5.2 IEE S.A. Major Business
 - 9.5.3 IEE S.A. Hands Off Detection (HOD) System Product and Services
 - 9.5.4 IEE S.A. Hands Off Detection (HOD) System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 IEE S.A. Recent Developments/Updates
 - 9.5.6 IEE S.A. Competitive Strengths & Weaknesses
- 9.6 Keyes Engineering
 - 9.6.1 Keyes Engineering Details
 - 9.6.2 Keyes Engineering Major Business
 - 9.6.3 Keyes Engineering Hands Off Detection (HOD) System Product and Services
 - 9.6.4 Keyes Engineering Hands Off Detection (HOD) System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Keyes Engineering Recent Developments/Updates
 - 9.6.6 Keyes Engineering Competitive Strengths & Weaknesses
- 9.7 Autoliv
 - 9.7.1 Autoliv Details
 - 9.7.2 Autoliv Major Business
 - 9.7.3 Autoliv Hands Off Detection (HOD) System Product and Services
 - 9.7.4 Autoliv Hands Off Detection (HOD) System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Autoliv Recent Developments/Updates
 - 9.7.6 Autoliv Competitive Strengths & Weaknesses
- 9.8 Marquardt
 - 9.8.1 Marquardt Details

- 9.8.2 Marquardt Major Business
- 9.8.3 Marquardt Hands Off Detection (HOD) System Product and Services
- 9.8.4 Marquardt Hands Off Detection (HOD) System Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.8.5 Marquardt Recent Developments/Updates
- 9.8.6 Marquardt Competitive Strengths & Weaknesses
- 9.9 Joyson Safety Systems
 - 9.9.1 Joyson Safety Systems Details
 - 9.9.2 Joyson Safety Systems Major Business
 - 9.9.3 Joyson Safety Systems Hands Off Detection (HOD) System Product and Services
 - 9.9.4 Joyson Safety Systems Hands Off Detection (HOD) System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Joyson Safety Systems Recent Developments/Updates
 - 9.9.6 Joyson Safety Systems Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Hands Off Detection (HOD) System Industry Chain
- 10.2 Hands Off Detection (HOD) System Upstream Analysis
 - 10.2.1 Hands Off Detection (HOD) System Core Raw Materials
 - 10.2.2 Main Manufacturers of Hands Off Detection (HOD) System Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Hands Off Detection (HOD) System Production Mode
- 10.6 Hands Off Detection (HOD) System Procurement Model
- 10.7 Hands Off Detection (HOD) System Industry Sales Model and Sales Channels
 - 10.7.1 Hands Off Detection (HOD) System Sales Model
 - 10.7.2 Hands Off Detection (HOD) System Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Hands Off Detection (HOD) System Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Hands Off Detection (HOD) System Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Hands Off Detection (HOD) System Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Hands Off Detection (HOD) System Production Value Market Share by Region (2021-2026)
- Table 5. World Hands Off Detection (HOD) System Production Value Market Share by Region (2027-2032)
- Table 6. World Hands Off Detection (HOD) System Production by Region (2021-2026) & (K Units)
- Table 7. World Hands Off Detection (HOD) System Production by Region (2027-2032) & (K Units)
- Table 8. World Hands Off Detection (HOD) System Production Market Share by Region (2021-2026)
- Table 9. World Hands Off Detection (HOD) System Production Market Share by Region (2027-2032)
- Table 10. World Hands Off Detection (HOD) System Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Hands Off Detection (HOD) System Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Hands Off Detection (HOD) System Major Market Trends
- Table 13. World Hands Off Detection (HOD) System Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Hands Off Detection (HOD) System Consumption by Region (2021-2026) & (K Units)
- Table 15. World Hands Off Detection (HOD) System Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Hands Off Detection (HOD) System Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Hands Off Detection (HOD) System Producers in 2025
- Table 18. World Hands Off Detection (HOD) System Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Hands Off Detection (HOD) System Producers in 2025

Table 20. World Hands Off Detection (HOD) System Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Hands Off Detection (HOD) System Company Evaluation Quadrant

Table 22. World Hands Off Detection (HOD) System Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Hands Off Detection (HOD) System Production Site of Key Manufacturer

Table 24. Hands Off Detection (HOD) System Market: Company Product Type Footprint

Table 25. Hands Off Detection (HOD) System Market: Company Product Application Footprint

Table 26. Hands Off Detection (HOD) System Competitive Factors

Table 27. Hands Off Detection (HOD) System New Entrant and Capacity Expansion Plans

Table 28. Hands Off Detection (HOD) System Mergers & Acquisitions Activity

Table 29. United States VS China Hands Off Detection (HOD) System Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Hands Off Detection (HOD) System Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Hands Off Detection (HOD) System Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Hands Off Detection (HOD) System Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Hands Off Detection (HOD) System Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Hands Off Detection (HOD) System Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Hands Off Detection (HOD) System Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Hands Off Detection (HOD) System Production Market Share (2021-2026)

Table 37. China Based Hands Off Detection (HOD) System Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Hands Off Detection (HOD) System Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Hands Off Detection (HOD) System Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Hands Off Detection (HOD) System Production,

(2021-2026) & (K Units)

Table 41. China Based Manufacturers Hands Off Detection (HOD) System Production Market Share (2021-2026)

Table 42. Rest of World Based Hands Off Detection (HOD) System Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Hands Off Detection (HOD) System Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Hands Off Detection (HOD) System Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Hands Off Detection (HOD) System Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Hands Off Detection (HOD) System Production Market Share (2021-2026)

Table 47. World Hands Off Detection (HOD) System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Hands Off Detection (HOD) System Production by Type (2021-2026) & (K Units)

Table 49. World Hands Off Detection (HOD) System Production by Type (2027-2032) & (K Units)

Table 50. World Hands Off Detection (HOD) System Production Value by Type (2021-2026) & (USD Million)

Table 51. World Hands Off Detection (HOD) System Production Value by Type (2027-2032) & (USD Million)

Table 52. World Hands Off Detection (HOD) System Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Hands Off Detection (HOD) System Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Hands Off Detection (HOD) System Production Value by Installation Location, (USD Million), 2021 & 2025 & 2032

Table 55. World Hands Off Detection (HOD) System Production by Installation Location (2021-2026) & (K Units)

Table 56. World Hands Off Detection (HOD) System Production by Installation Location (2027-2032) & (K Units)

Table 57. World Hands Off Detection (HOD) System Production Value by Installation Location (2021-2026) & (USD Million)

Table 58. World Hands Off Detection (HOD) System Production Value by Installation Location (2027-2032) & (USD Million)

Table 59. World Hands Off Detection (HOD) System Average Price by Installation Location (2021-2026) & (US\$/Unit)

Table 60. World Hands Off Detection (HOD) System Average Price by Installation Location (2027-2032) & (US\$/Unit)

Table 61. World Hands Off Detection (HOD) System Production Value by System Architecture, (USD Million), 2021 & 2025 & 2032

Table 62. World Hands Off Detection (HOD) System Production by System Architecture (2021-2026) & (K Units)

Table 63. World Hands Off Detection (HOD) System Production by System Architecture (2027-2032) & (K Units)

Table 64. World Hands Off Detection (HOD) System Production Value by System Architecture (2021-2026) & (USD Million)

Table 65. World Hands Off Detection (HOD) System Production Value by System Architecture (2027-2032) & (USD Million)

Table 66. World Hands Off Detection (HOD) System Average Price by System Architecture (2021-2026) & (US\$/Unit)

Table 67. World Hands Off Detection (HOD) System Average Price by System Architecture (2027-2032) & (US\$/Unit)

Table 68. World Hands Off Detection (HOD) System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Hands Off Detection (HOD) System Production by Application (2021-2026) & (K Units)

Table 70. World Hands Off Detection (HOD) System Production by Application (2027-2032) & (K Units)

Table 71. World Hands Off Detection (HOD) System Production Value by Application (2021-2026) & (USD Million)

Table 72. World Hands Off Detection (HOD) System Production Value by Application (2027-2032) & (USD Million)

Table 73. World Hands Off Detection (HOD) System Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Hands Off Detection (HOD) System Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Bosch Basic Information, Manufacturing Base and Competitors

Table 76. Bosch Major Business

Table 77. Bosch Hands Off Detection (HOD) System Product and Services

Table 78. Bosch Hands Off Detection (HOD) System Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Bosch Recent Developments/Updates

Table 80. Bosch Competitive Strengths & Weaknesses

Table 81. ZF Basic Information, Manufacturing Base and Competitors

Table 82. ZF Major Business

Table 83. ZF Hands Off Detection (HOD) System Product and Services

Table 84. ZF Hands Off Detection (HOD) System Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. ZF Recent Developments/Updates

Table 86. ZF Competitive Strengths & Weaknesses

Table 87. Valeo Basic Information, Manufacturing Base and Competitors

Table 88. Valeo Major Business

Table 89. Valeo Hands Off Detection (HOD) System Product and Services

Table 90. Valeo Hands Off Detection (HOD) System Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Valeo Recent Developments/Updates

Table 92. Valeo Competitive Strengths & Weaknesses

Table 93. Nexteer Basic Information, Manufacturing Base and Competitors

Table 94. Nexteer Major Business

Table 95. Nexteer Hands Off Detection (HOD) System Product and Services

Table 96. Nexteer Hands Off Detection (HOD) System Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Nexteer Recent Developments/Updates

Table 98. Nexteer Competitive Strengths & Weaknesses

Table 99. IEE S.A. Basic Information, Manufacturing Base and Competitors

Table 100. IEE S.A. Major Business

Table 101. IEE S.A. Hands Off Detection (HOD) System Product and Services

Table 102. IEE S.A. Hands Off Detection (HOD) System Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. IEE S.A. Recent Developments/Updates

Table 104. IEE S.A. Competitive Strengths & Weaknesses

Table 105. Keyes Engineering Basic Information, Manufacturing Base and Competitors

Table 106. Keyes Engineering Major Business

Table 107. Keyes Engineering Hands Off Detection (HOD) System Product and Services

Table 108. Keyes Engineering Hands Off Detection (HOD) System Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Keyes Engineering Recent Developments/Updates

- Table 110. Keyes Engineering Competitive Strengths & Weaknesses
- Table 111. Autoliv Basic Information, Manufacturing Base and Competitors
- Table 112. Autoliv Major Business
- Table 113. Autoliv Hands Off Detection (HOD) System Product and Services
- Table 114. Autoliv Hands Off Detection (HOD) System Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Autoliv Recent Developments/Updates
- Table 116. Autoliv Competitive Strengths & Weaknesses
- Table 117. Marquardt Basic Information, Manufacturing Base and Competitors
- Table 118. Marquardt Major Business
- Table 119. Marquardt Hands Off Detection (HOD) System Product and Services
- Table 120. Marquardt Hands Off Detection (HOD) System Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Marquardt Recent Developments/Updates
- Table 122. Marquardt Competitive Strengths & Weaknesses
- Table 123. Joyson Safety Systems Basic Information, Manufacturing Base and Competitors
- Table 124. Joyson Safety Systems Major Business
- Table 125. Joyson Safety Systems Hands Off Detection (HOD) System Product and Services
- Table 126. Joyson Safety Systems Hands Off Detection (HOD) System Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Joyson Safety Systems Recent Developments/Updates
- Table 128. Joyson Safety Systems Competitive Strengths & Weaknesses
- Table 129. Global Key Players of Hands Off Detection (HOD) System Upstream (Raw Materials)
- Table 130. Global Hands Off Detection (HOD) System Typical Customers
- Table 131. Hands Off Detection (HOD) System Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Hands Off Detection (HOD) System Picture
- Figure 2. World Hands Off Detection (HOD) System Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Hands Off Detection (HOD) System Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Hands Off Detection (HOD) System Production (2021-2032) & (K Units)
- Figure 5. World Hands Off Detection (HOD) System Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Hands Off Detection (HOD) System Production Value Market Share by Region (2021-2032)
- Figure 7. World Hands Off Detection (HOD) System Production Market Share by Region (2021-2032)
- Figure 8. North America Hands Off Detection (HOD) System Production (2021-2032) & (K Units)
- Figure 9. Europe Hands Off Detection (HOD) System Production (2021-2032) & (K Units)
- Figure 10. China Hands Off Detection (HOD) System Production (2021-2032) & (K Units)
- Figure 11. Japan Hands Off Detection (HOD) System Production (2021-2032) & (K Units)
- Figure 12. South Korea Hands Off Detection (HOD) System Production (2021-2032) & (K Units)
- Figure 13. India Hands Off Detection (HOD) System Production (2021-2032) & (K Units)
- Figure 14. Mexico Hands Off Detection (HOD) System Production (2021-2032) & (K Units)
- Figure 15. Hands Off Detection (HOD) System Market Drivers
- Figure 16. Factors Affecting Demand
- Figure 17. World Hands Off Detection (HOD) System Consumption (2021-2032) & (K Units)
- Figure 18. World Hands Off Detection (HOD) System Consumption Market Share by Region (2021-2032)
- Figure 19. United States Hands Off Detection (HOD) System Consumption (2021-2032) & (K Units)
- Figure 20. China Hands Off Detection (HOD) System Consumption (2021-2032) & (K Units)

Figure 21. Europe Hands Off Detection (HOD) System Consumption (2021-2032) & (K Units)

Figure 22. Japan Hands Off Detection (HOD) System Consumption (2021-2032) & (K Units)

Figure 23. South Korea Hands Off Detection (HOD) System Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Hands Off Detection (HOD) System Consumption (2021-2032) & (K Units)

Figure 25. India Hands Off Detection (HOD) System Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Hands Off Detection (HOD) System by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Hands Off Detection (HOD) System Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Hands Off Detection (HOD) System Markets in 2025

Figure 29. United States VS China: Hands Off Detection (HOD) System Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Hands Off Detection (HOD) System Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Hands Off Detection (HOD) System Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Hands Off Detection (HOD) System Production Market Share 2025

Figure 33. China Based Manufacturers Hands Off Detection (HOD) System Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Hands Off Detection (HOD) System Production Market Share 2025

Figure 35. World Hands Off Detection (HOD) System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Hands Off Detection (HOD) System Production Value Market Share by Type in 2025

Figure 37. Capacitive Sensing

Figure 38. Pressure Sensing

Figure 39. Others

Figure 40. World Hands Off Detection (HOD) System Production Market Share by Type (2021-2032)

Figure 41. World Hands Off Detection (HOD) System Production Value Market Share by Type (2021-2032)

- Figure 42. World Hands Off Detection (HOD) System Average Price by Type (2021-2032) & (US\$/Unit)
- Figure 43. World Hands Off Detection (HOD) System Production Value by Installation Location, (USD Million), 2021 & 2025 & 2032
- Figure 44. World Hands Off Detection (HOD) System Production Value Market Share by Installation Location in 2025
- Figure 45. Steering Wheel Rim Integrated
- Figure 46. Steering Column / EPS Integrated
- Figure 47. Others
- Figure 48. World Hands Off Detection (HOD) System Production Market Share by Installation Location (2021-2032)
- Figure 49. World Hands Off Detection (HOD) System Production Value Market Share by Installation Location (2021-2032)
- Figure 50. World Hands Off Detection (HOD) System Average Price by Installation Location (2021-2032) & (US\$/Unit)
- Figure 51. World Hands Off Detection (HOD) System Production Value by System Architecture, (USD Million), 2021 & 2025 & 2032
- Figure 52. World Hands Off Detection (HOD) System Production Value Market Share by System Architecture in 2025
- Figure 53. Standalone HOD ECU
- Figure 54. Integrated into EPS ECU
- Figure 55. World Hands Off Detection (HOD) System Production Market Share by System Architecture (2021-2032)
- Figure 56. World Hands Off Detection (HOD) System Production Value Market Share by System Architecture (2021-2032)
- Figure 57. World Hands Off Detection (HOD) System Average Price by System Architecture (2021-2032) & (US\$/Unit)
- Figure 58. World Hands Off Detection (HOD) System Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 59. World Hands Off Detection (HOD) System Production Value Market Share by Application in 2025
- Figure 60. Passenger Cars
- Figure 61. Commercial Vehicles
- Figure 62. World Hands Off Detection (HOD) System Production Market Share by Application (2021-2032)
- Figure 63. World Hands Off Detection (HOD) System Production Value Market Share by Application (2021-2032)
- Figure 64. World Hands Off Detection (HOD) System Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Hands Off Detection (HOD) System Industry Chain

Figure 66. Hands Off Detection (HOD) System Procurement Model

Figure 67. Hands Off Detection (HOD) System Sales Model

Figure 68. Hands Off Detection (HOD) System Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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