

Global VCM Driver Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global VCM Driver market size is expected to reach \$ 174 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

A VCM Driver, or Voice Coil Motor Driver IC, is a dedicated analog or mixed signal device positioned between the camera controller and the lens actuator. Its core role is to provide current drive, displacement control, ringing suppression, and position adjustment for voice coil motors or other micro actuators under low voltage, compact size, and high precision constraints, thereby enabling autofocus and, in more advanced solutions, closed loop correction and optical image stabilization control. Based on the validated official product pages of relevant suppliers, this category has evolved from early open loop autofocus drivers into more complex control platforms featuring bidirectional drive, DAC integration, current control, programmable I2C interfaces, EEPROM parameter storage, Hall feedback closed loop control, temperature compensation, and even MCU, DSP, PID algorithm, and OIS integration on a single chip. The objective is to improve focus speed, stability, power efficiency, anti shake performance, and module consistency under the industry trend toward multi camera systems, smaller form factors, and higher image quality. Typical applications now cover smartphones, tablets, digital still cameras, camcorders, web cameras, action cameras, IP cameras, and other imaging devices, while the main customers include camera module makers, end device brands, solution providers, and visual equipment manufacturers. Common delivery formats include standard AF VCM Driver ICs, micro actuator drivers compatible with VCM, piezo, and SMA actuators, as well as higher end single chip controllers that integrate both AF and OIS. Commercially, the market is primarily driven by chip sales, reference design support, and coordinated design in programs with camera modules.

The value of VCM Driver ICs is evolving from that of a traditional lens current driver into that of a precision motion control hub inside the imaging module. Earlier products were primarily focused on open loop AF applications, using DACs, current output, and I2C interfaces to deliver basic autofocus control. However, as shown on the official product pages of Renesas and ZINITIX, higher end solutions now integrate Hall signal processing, closed loop position correction, temperature compensation, PID algorithms, OIS control, and even MCU and DSP functions on a single chip. This means that a VCM Driver is no longer just a simple peripheral driver, but an important control device responsible for image stabilization, focus accuracy, and module consistency under the trends of multi camera systems, smaller form factors, and higher image quality. At the same time, product pages from Awinic, TI, and Fitipower all highlight low voltage operation, low quiescent current, ultra small packages, and fast programmable control as core selling points. This shows that competition in the category now spans four layers at once, namely control precision, power constraints, package size, and module manufacturability. For camera module makers and device brands, the importance of these chips is not merely to move the lens, but to make autofocus faster, more stable, and more power efficient in tighter spaces, while also supporting multi camera coexistence, coordination across different focal length modules, and increasingly complex imaging algorithms.

From the perspective of industry competition, the market has already formed a dual structure in which platform oriented analog suppliers and camera specific driver suppliers coexist. On one side, companies such as TI, ADI, Renesas, and ROHM have long accumulated strengths in product definition, interface standardization, package capability, and standardized device portfolios, allowing them to provide solutions ranging from basic AF drivers and historically mature part numbers to integrated AF and OIS control products. On the other side, suppliers such as Dongwoon Anatech, ZINITIX, Awinic, Halo, and Giantec are more tightly aligned with smartphone camera and imaging module scenarios, and continue to deepen their presence in AF Driver ICs, OIS Controller ICs, VCM Drivers, and Camera Lens Management. The repeated appearance of terms such as smartphone, tablet, camera module, video devices, imaging equipment, IP CAM, and security camera on official pages also indicates that although this category originated in smartphone imaging, it is now extending into a broader range of visual end devices. It is especially important to note that the market is not following a single technology route. Open loop solutions, bidirectional drive solutions, closed loop AF solutions, integrated AF plus OIS solutions, and general micro actuator driver solutions all coexist. This multi route situation means that customers choose differently based on cost, performance, size, tuning flexibility, and lifecycle status. As a result, competition in this industry is layered rather than winner takes all.

Looking ahead, the most promising growth driver for the VCM Driver market remains the rise in control complexity brought by higher quality visual requirements, rather than simple dependence on terminal shipment growth. In its official annual report, onsemi explicitly links the importance of autofocus, image stabilization, and high quality visual imagery to broader demand from AI driven applications, automotive systems, and factory automation. This suggests that the value potential of driver ICs may expand from being a single component in consumer electronics into a broader role within the visual sensing chain. At the same time, the capabilities highlighted on official product pages, including bidirectional drive, closed loop control, temperature compensation, I2C Auto Switching, multi axis drive, and compatibility with VCM and piezo actuators, indicate that future growth will increasingly come from per chip capability upgrades, higher value per device, and expansion into new application scenarios, rather than only from incremental demand for traditional single camera AF. In addition, since the market still contains products in Active, Production, Obsolete, and Last Time Buy stages at the same time, the industry is effectively in a transitional phase where legacy part numbers continue while new platforms replace them. For suppliers that can simultaneously master low power small package design, algorithm integration, module adaptation, and multi scenario customer expansion, the outlook remains relatively optimistic, especially as multi camera, AI imaging, stable capture, and visual terminal upgrades continue to advance.

This report studies the global VCM Driver production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for VCM Driver 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 VCM Driver that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global VCM Driver total production and demand, 2021-2032, (K Units)

Global VCM Driver total production value, 2021-2032, (USD Million)

Global VCM Driver production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global VCM Driver consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: VCM Driver domestic production, consumption, key domestic manufacturers and share

Global VCM Driver production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global VCM Driver production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global VCM Driver production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global VCM Driver 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 Shanghai Awinic Technology Co., Ltd., Giantec Semiconductor Corporation, Halo Microelectronics Co., Ltd., Fitipower Integrated Technology Inc., Texas Instruments Incorporated, Analog Devices, Inc., ON Semiconductor Corporation, ROHM Co., Ltd., Renesas Electronics Corporation, Dongwoon Anatech Co., Ltd., 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 VCM Driver 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 VCM Driver Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global VCM Driver Market, Segmentation by Type:

Open Loop VCM Driver IC

Close Loop VCM Driver IC

OIS VCM Driver IC

Global VCM Driver Market, Segmentation by Control Architecture:

AF Driver

Integrated AF And OIS Driver

General Micro-Actuator Driver

Global VCM Driver Market, Segmentation by Motion Directionality:

Uni-Directional Drive

Bi-Directional Drive

Multi-Axis Or Multi-Channel Integrated

Global VCM Driver Market, Segmentation by Application:

IOS System

Android System

Other System

Companies Profiled:

Shanghai Awinic Technology Co., Ltd.

Giantec Semiconductor Corporation

Halo Microelectronics Co., Ltd.

Fitipower Integrated Technology Inc.

Texas Instruments Incorporated

Analog Devices, Inc.

ON Semiconductor Corporation

ROHM Co., Ltd.

Renesas Electronics Corporation

Dongwoon Anatech Co., Ltd.

ZINITIX Co., Ltd.

Key Questions Answered:

1. How big is the global VCM Driver market?
2. What is the demand of the global VCM Driver market?
3. What is the year over year growth of the global VCM Driver market?
4. What is the production and production value of the global VCM Driver market?
5. Who are the key producers in the global VCM Driver market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World VCM Driver Demand (2021-2032)
- 2.2 World VCM Driver Consumption by Region
 - 2.2.1 World VCM Driver Consumption by Region (2021-2026)
 - 2.2.2 World VCM Driver Consumption Forecast by Region (2027-2032)
- 2.3 United States VCM Driver Consumption (2021-2032)
- 2.4 China VCM Driver Consumption (2021-2032)
- 2.5 Europe VCM Driver Consumption (2021-2032)
- 2.6 Japan VCM Driver Consumption (2021-2032)
- 2.7 South Korea VCM Driver Consumption (2021-2032)
- 2.8 ASEAN VCM Driver Consumption (2021-2032)
- 2.9 India VCM Driver Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World VCM Driver Production Value by Manufacturer (2021-2026)
- 3.2 World VCM Driver Production by Manufacturer (2021-2026)
- 3.3 World VCM Driver Average Price by Manufacturer (2021-2026)
- 3.4 VCM Driver Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global VCM Driver Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for VCM Driver in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for VCM Driver in 2025
- 3.6 VCM Driver Market: Overall Company Footprint Analysis
 - 3.6.1 VCM Driver Market: Region Footprint
 - 3.6.2 VCM Driver Market: Company Product Type Footprint
 - 3.6.3 VCM Driver 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: VCM Driver Production Value Comparison
 - 4.1.1 United States VS China: VCM Driver Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: VCM Driver Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: VCM Driver Production Comparison
 - 4.2.1 United States VS China: VCM Driver Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: VCM Driver Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: VCM Driver Consumption Comparison
 - 4.3.1 United States VS China: VCM Driver Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: VCM Driver Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based VCM Driver Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based VCM Driver Manufacturers, Headquarters and Production

Site (States, Country)

4.4.2 United States Based Manufacturers VCM Driver Production Value (2021-2026)

4.4.3 United States Based Manufacturers VCM Driver Production (2021-2026)

4.5 China Based VCM Driver Manufacturers and Market Share

4.5.1 China Based VCM Driver Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers VCM Driver Production Value (2021-2026)

4.5.3 China Based Manufacturers VCM Driver Production (2021-2026)

4.6 Rest of World Based VCM Driver Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based VCM Driver Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers VCM Driver Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers VCM Driver Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World VCM Driver Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Open Loop VCM Driver IC

5.2.2 Close Loop VCM Driver IC

5.2.3 OIS VCM Driver IC

5.3 Market Segment by Type

5.3.1 World VCM Driver Production by Type (2021-2032)

5.3.2 World VCM Driver Production Value by Type (2021-2032)

5.3.3 World VCM Driver Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY CONTROL ARCHITECTURE

6.1 World VCM Driver Market Size Overview by Control Architecture: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Control Architecture

6.2.1 AF Driver

6.2.2 Integrated AF And OIS Driver

6.2.3 General Micro-Actuator Driver

6.3 Market Segment by Control Architecture

6.3.1 World VCM Driver Production by Control Architecture (2021-2032)

6.3.2 World VCM Driver Production Value by Control Architecture (2021-2032)

6.3.3 World VCM Driver Average Price by Control Architecture (2021-2032)

7 MARKET ANALYSIS BY MOTION DIRECTIONALITY

7.1 World VCM Driver Market Size Overview by Motion Directionality: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Motion Directionality

7.2.1 Uni-Directional Drive

7.2.2 Bi-Directional Drive

7.2.3 Multi-Axis Or Multi-Channel Integrated

7.3 Market Segment by Motion Directionality

7.3.1 World VCM Driver Production by Motion Directionality (2021-2032)

7.3.2 World VCM Driver Production Value by Motion Directionality (2021-2032)

7.3.3 World VCM Driver Average Price by Motion Directionality (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World VCM Driver Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 IOS System

8.2.2 Android System

8.2.3 Other System

8.3 Market Segment by Application

8.3.1 World VCM Driver Production by Application (2021-2032)

8.3.2 World VCM Driver Production Value by Application (2021-2032)

8.3.3 World VCM Driver Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Shanghai Awinic Technology Co., Ltd.

9.1.1 Shanghai Awinic Technology Co., Ltd. Details

9.1.2 Shanghai Awinic Technology Co., Ltd. Major Business

9.1.3 Shanghai Awinic Technology Co., Ltd. VCM Driver Product and Services

9.1.4 Shanghai Awinic Technology Co., Ltd. VCM Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Shanghai Awinic Technology Co., Ltd. Recent Developments/Updates

9.1.6 Shanghai Awinic Technology Co., Ltd. Competitive Strengths & Weaknesses

9.2 Giantec Semiconductor Corporation

9.2.1 Giantec Semiconductor Corporation Details

9.2.2 Giantec Semiconductor Corporation Major Business

9.2.3 Giantec Semiconductor Corporation VCM Driver Product and Services

- 9.2.4 Giantec Semiconductor Corporation VCM Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Giantec Semiconductor Corporation Recent Developments/Updates
- 9.2.6 Giantec Semiconductor Corporation Competitive Strengths & Weaknesses
- 9.3 Halo Microelectronics Co., Ltd.
- 9.3.1 Halo Microelectronics Co., Ltd. Details
- 9.3.2 Halo Microelectronics Co., Ltd. Major Business
- 9.3.3 Halo Microelectronics Co., Ltd. VCM Driver Product and Services
- 9.3.4 Halo Microelectronics Co., Ltd. VCM Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 Halo Microelectronics Co., Ltd. Recent Developments/Updates
- 9.3.6 Halo Microelectronics Co., Ltd. Competitive Strengths & Weaknesses
- 9.4 Fitipower Integrated Technology Inc.
- 9.4.1 Fitipower Integrated Technology Inc. Details
- 9.4.2 Fitipower Integrated Technology Inc. Major Business
- 9.4.3 Fitipower Integrated Technology Inc. VCM Driver Product and Services
- 9.4.4 Fitipower Integrated Technology Inc. VCM Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Fitipower Integrated Technology Inc. Recent Developments/Updates
- 9.4.6 Fitipower Integrated Technology Inc. Competitive Strengths & Weaknesses
- 9.5 Texas Instruments Incorporated
- 9.5.1 Texas Instruments Incorporated Details
- 9.5.2 Texas Instruments Incorporated Major Business
- 9.5.3 Texas Instruments Incorporated VCM Driver Product and Services
- 9.5.4 Texas Instruments Incorporated VCM Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 Texas Instruments Incorporated Recent Developments/Updates
- 9.5.6 Texas Instruments Incorporated Competitive Strengths & Weaknesses
- 9.6 Analog Devices, Inc.
- 9.6.1 Analog Devices, Inc. Details
- 9.6.2 Analog Devices, Inc. Major Business
- 9.6.3 Analog Devices, Inc. VCM Driver Product and Services
- 9.6.4 Analog Devices, Inc. VCM Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Analog Devices, Inc. Recent Developments/Updates
- 9.6.6 Analog Devices, Inc. Competitive Strengths & Weaknesses
- 9.7 ON Semiconductor Corporation
- 9.7.1 ON Semiconductor Corporation Details
- 9.7.2 ON Semiconductor Corporation Major Business

- 9.7.3 ON Semiconductor Corporation VCM Driver Product and Services
- 9.7.4 ON Semiconductor Corporation VCM Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 ON Semiconductor Corporation Recent Developments/Updates
- 9.7.6 ON Semiconductor Corporation Competitive Strengths & Weaknesses
- 9.8 ROHM Co., Ltd.
- 9.8.1 ROHM Co., Ltd. Details
- 9.8.2 ROHM Co., Ltd. Major Business
- 9.8.3 ROHM Co., Ltd. VCM Driver Product and Services
- 9.8.4 ROHM Co., Ltd. VCM Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.8.5 ROHM Co., Ltd. Recent Developments/Updates
- 9.8.6 ROHM Co., Ltd. Competitive Strengths & Weaknesses
- 9.9 Renesas Electronics Corporation
- 9.9.1 Renesas Electronics Corporation Details
- 9.9.2 Renesas Electronics Corporation Major Business
- 9.9.3 Renesas Electronics Corporation VCM Driver Product and Services
- 9.9.4 Renesas Electronics Corporation VCM Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 Renesas Electronics Corporation Recent Developments/Updates
- 9.9.6 Renesas Electronics Corporation Competitive Strengths & Weaknesses
- 9.10 Dongwoon Anatech Co., Ltd.
- 9.10.1 Dongwoon Anatech Co., Ltd. Details
- 9.10.2 Dongwoon Anatech Co., Ltd. Major Business
- 9.10.3 Dongwoon Anatech Co., Ltd. VCM Driver Product and Services
- 9.10.4 Dongwoon Anatech Co., Ltd. VCM Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 Dongwoon Anatech Co., Ltd. Recent Developments/Updates
- 9.10.6 Dongwoon Anatech Co., Ltd. Competitive Strengths & Weaknesses
- 9.11 ZINITIX Co., Ltd.
- 9.11.1 ZINITIX Co., Ltd. Details
- 9.11.2 ZINITIX Co., Ltd. Major Business
- 9.11.3 ZINITIX Co., Ltd. VCM Driver Product and Services
- 9.11.4 ZINITIX Co., Ltd. VCM Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 ZINITIX Co., Ltd. Recent Developments/Updates
- 9.11.6 ZINITIX Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 VCM Driver Industry Chain
- 10.2 VCM Driver Upstream Analysis
 - 10.2.1 VCM Driver Core Raw Materials
 - 10.2.2 Main Manufacturers of VCM Driver Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 VCM Driver Production Mode
- 10.6 VCM Driver Procurement Model
- 10.7 VCM Driver Industry Sales Model and Sales Channels
 - 10.7.1 VCM Driver Sales Model
 - 10.7.2 VCM Driver 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 VCM Driver Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World VCM Driver Production Value by Region (2021-2026) & (USD Million)

Table 3. World VCM Driver Production Value by Region (2027-2032) & (USD Million)

Table 4. World VCM Driver Production Value Market Share by Region (2021-2026)

Table 5. World VCM Driver Production Value Market Share by Region (2027-2032)

Table 6. World VCM Driver Production by Region (2021-2026) & (K Units)

Table 7. World VCM Driver Production by Region (2027-2032) & (K Units)

Table 8. World VCM Driver Production Market Share by Region (2021-2026)

Table 9. World VCM Driver Production Market Share by Region (2027-2032)

Table 10. World VCM Driver Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World VCM Driver Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. VCM Driver Major Market Trends

Table 13. World VCM Driver Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World VCM Driver Consumption by Region (2021-2026) & (K Units)

Table 15. World VCM Driver Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World VCM Driver Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key VCM Driver Producers in 2025

Table 18. World VCM Driver Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key VCM Driver Producers in 2025

Table 20. World VCM Driver Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global VCM Driver Company Evaluation Quadrant

Table 22. World VCM Driver Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and VCM Driver Production Site of Key Manufacturer

Table 24. VCM Driver Market: Company Product Type Footprint

Table 25. VCM Driver Market: Company Product Application Footprint

Table 26. VCM Driver Competitive Factors

Table 27. VCM Driver New Entrant and Capacity Expansion Plans

Table 28. VCM Driver Mergers & Acquisitions Activity

Table 29. United States VS China VCM Driver Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China VCM Driver Production Comparison, (2021 & 2025 &

2032) & (K Units)

Table 31. United States VS China VCM Driver Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based VCM Driver Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers VCM Driver Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers VCM Driver Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers VCM Driver Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers VCM Driver Production Market Share (2021-2026)

Table 37. China Based VCM Driver Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers VCM Driver Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers VCM Driver Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers VCM Driver Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers VCM Driver Production Market Share (2021-2026)

Table 42. Rest of World Based VCM Driver Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers VCM Driver Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers VCM Driver Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers VCM Driver Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers VCM Driver Production Market Share (2021-2026)

Table 47. World VCM Driver Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World VCM Driver Production by Type (2021-2026) & (K Units)

Table 49. World VCM Driver Production by Type (2027-2032) & (K Units)

Table 50. World VCM Driver Production Value by Type (2021-2026) & (USD Million)

Table 51. World VCM Driver Production Value by Type (2027-2032) & (USD Million)

Table 52. World VCM Driver Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World VCM Driver Average Price by Type (2027-2032) & (US\$/Unit)
Table 54. World VCM Driver Production Value by Control Architecture, (USD Million), 2021 & 2025 & 2032
Table 55. World VCM Driver Production by Control Architecture (2021-2026) & (K Units)
Table 56. World VCM Driver Production by Control Architecture (2027-2032) & (K Units)
Table 57. World VCM Driver Production Value by Control Architecture (2021-2026) & (USD Million)
Table 58. World VCM Driver Production Value by Control Architecture (2027-2032) & (USD Million)
Table 59. World VCM Driver Average Price by Control Architecture (2021-2026) & (US\$/Unit)
Table 60. World VCM Driver Average Price by Control Architecture (2027-2032) & (US\$/Unit)
Table 61. World VCM Driver Production Value by Motion Directionality, (USD Million), 2021 & 2025 & 2032
Table 62. World VCM Driver Production by Motion Directionality (2021-2026) & (K Units)
Table 63. World VCM Driver Production by Motion Directionality (2027-2032) & (K Units)
Table 64. World VCM Driver Production Value by Motion Directionality (2021-2026) & (USD Million)
Table 65. World VCM Driver Production Value by Motion Directionality (2027-2032) & (USD Million)
Table 66. World VCM Driver Average Price by Motion Directionality (2021-2026) & (US\$/Unit)
Table 67. World VCM Driver Average Price by Motion Directionality (2027-2032) & (US\$/Unit)
Table 68. World VCM Driver Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World VCM Driver Production by Application (2021-2026) & (K Units)
Table 70. World VCM Driver Production by Application (2027-2032) & (K Units)
Table 71. World VCM Driver Production Value by Application (2021-2026) & (USD Million)
Table 72. World VCM Driver Production Value by Application (2027-2032) & (USD Million)
Table 73. World VCM Driver Average Price by Application (2021-2026) & (US\$/Unit)
Table 74. World VCM Driver Average Price by Application (2027-2032) & (US\$/Unit)
Table 75. Shanghai Awinic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 76. Shanghai Awinic Technology Co., Ltd. Major Business
Table 77. Shanghai Awinic Technology Co., Ltd. VCM Driver Product and Services
Table 78. Shanghai Awinic Technology Co., Ltd. VCM Driver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Shanghai Awinic Technology Co., Ltd. Recent Developments/Updates
Table 80. Shanghai Awinic Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 81. Giantec Semiconductor Corporation Basic Information, Manufacturing Base and Competitors
Table 82. Giantec Semiconductor Corporation Major Business
Table 83. Giantec Semiconductor Corporation VCM Driver Product and Services
Table 84. Giantec Semiconductor Corporation VCM Driver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Giantec Semiconductor Corporation Recent Developments/Updates
Table 86. Giantec Semiconductor Corporation Competitive Strengths & Weaknesses
Table 87. Halo Microelectronics Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 88. Halo Microelectronics Co., Ltd. Major Business
Table 89. Halo Microelectronics Co., Ltd. VCM Driver Product and Services
Table 90. Halo Microelectronics Co., Ltd. VCM Driver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Halo Microelectronics Co., Ltd. Recent Developments/Updates
Table 92. Halo Microelectronics Co., Ltd. Competitive Strengths & Weaknesses
Table 93. Fitipower Integrated Technology Inc. Basic Information, Manufacturing Base and Competitors
Table 94. Fitipower Integrated Technology Inc. Major Business
Table 95. Fitipower Integrated Technology Inc. VCM Driver Product and Services
Table 96. Fitipower Integrated Technology Inc. VCM Driver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Fitipower Integrated Technology Inc. Recent Developments/Updates
Table 98. Fitipower Integrated Technology Inc. Competitive Strengths & Weaknesses
Table 99. Texas Instruments Incorporated Basic Information, Manufacturing Base and Competitors
Table 100. Texas Instruments Incorporated Major Business
Table 101. Texas Instruments Incorporated VCM Driver Product and Services
Table 102. Texas Instruments Incorporated VCM Driver Production (K Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Texas Instruments Incorporated Recent Developments/Updates

Table 104. Texas Instruments Incorporated Competitive Strengths & Weaknesses

Table 105. Analog Devices, Inc. Basic Information, Manufacturing Base and Competitors

Table 106. Analog Devices, Inc. Major Business

Table 107. Analog Devices, Inc. VCM Driver Product and Services

Table 108. Analog Devices, Inc. VCM Driver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Analog Devices, Inc. Recent Developments/Updates

Table 110. Analog Devices, Inc. Competitive Strengths & Weaknesses

Table 111. ON Semiconductor Corporation Basic Information, Manufacturing Base and Competitors

Table 112. ON Semiconductor Corporation Major Business

Table 113. ON Semiconductor Corporation VCM Driver Product and Services

Table 114. ON Semiconductor Corporation VCM Driver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. ON Semiconductor Corporation Recent Developments/Updates

Table 116. ON Semiconductor Corporation Competitive Strengths & Weaknesses

Table 117. ROHM Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 118. ROHM Co., Ltd. Major Business

Table 119. ROHM Co., Ltd. VCM Driver Product and Services

Table 120. ROHM Co., Ltd. VCM Driver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. ROHM Co., Ltd. Recent Developments/Updates

Table 122. ROHM Co., Ltd. Competitive Strengths & Weaknesses

Table 123. Renesas Electronics Corporation Basic Information, Manufacturing Base and Competitors

Table 124. Renesas Electronics Corporation Major Business

Table 125. Renesas Electronics Corporation VCM Driver Product and Services

Table 126. Renesas Electronics Corporation VCM Driver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Renesas Electronics Corporation Recent Developments/Updates

Table 128. Renesas Electronics Corporation Competitive Strengths & Weaknesses

Table 129. Dongwoon Anatech Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 130. Dongwoon Anatech Co., Ltd. Major Business
Table 131. Dongwoon Anatech Co., Ltd. VCM Driver Product and Services
Table 132. Dongwoon Anatech Co., Ltd. VCM Driver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Dongwoon Anatech Co., Ltd. Recent Developments/Updates
Table 134. Dongwoon Anatech Co., Ltd. Competitive Strengths & Weaknesses
Table 135. ZINITIX Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 136. ZINITIX Co., Ltd. Major Business
Table 137. ZINITIX Co., Ltd. VCM Driver Product and Services
Table 138. ZINITIX Co., Ltd. VCM Driver Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. ZINITIX Co., Ltd. Recent Developments/Updates
Table 140. ZINITIX Co., Ltd. Competitive Strengths & Weaknesses
Table 141. Global Key Players of VCM Driver Upstream (Raw Materials)
Table 142. Global VCM Driver Typical Customers
Table 143. VCM Driver Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. VCM Driver Picture

Figure 2. World VCM Driver Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World VCM Driver Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World VCM Driver Production (2021-2032) & (K Units)

Figure 5. World VCM Driver Average Price (2021-2032) & (US\$/Unit)

Figure 6. World VCM Driver Production Value Market Share by Region (2021-2032)

Figure 7. World VCM Driver Production Market Share by Region (2021-2032)

Figure 8. North America VCM Driver Production (2021-2032) & (K Units)

Figure 9. Europe VCM Driver Production (2021-2032) & (K Units)

Figure 10. China VCM Driver Production (2021-2032) & (K Units)

Figure 11. Japan VCM Driver Production (2021-2032) & (K Units)

Figure 12. South Korea VCM Driver Production (2021-2032) & (K Units)

Figure 13. China Taiwan VCM Driver Production (2021-2032) & (K Units)

Figure 14. VCM Driver Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World VCM Driver Consumption (2021-2032) & (K Units)

Figure 17. World VCM Driver Consumption Market Share by Region (2021-2032)

Figure 18. United States VCM Driver Consumption (2021-2032) & (K Units)

Figure 19. China VCM Driver Consumption (2021-2032) & (K Units)

Figure 20. Europe VCM Driver Consumption (2021-2032) & (K Units)

Figure 21. Japan VCM Driver Consumption (2021-2032) & (K Units)

Figure 22. South Korea VCM Driver Consumption (2021-2032) & (K Units)

Figure 23. ASEAN VCM Driver Consumption (2021-2032) & (K Units)

Figure 24. India VCM Driver Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of VCM Driver by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for VCM Driver Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for VCM Driver Markets in 2025

Figure 28. United States VS China: VCM Driver Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: VCM Driver Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: VCM Driver Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers VCM Driver Production Market Share 2025

Figure 32. China Based Manufacturers VCM Driver Production Market Share 2025

Figure 33. Rest of World Based Manufacturers VCM Driver Production Market Share 2025

Figure 34. World VCM Driver Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World VCM Driver Production Value Market Share by Type in 2025

Figure 36. Open Loop VCM Driver IC

Figure 37. Close Loop VCM Driver IC

Figure 38. OIS VCM Driver IC

Figure 39. World VCM Driver Production Market Share by Type (2021-2032)

Figure 40. World VCM Driver Production Value Market Share by Type (2021-2032)

Figure 41. World VCM Driver Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World VCM Driver Production Value by Control Architecture, (USD Million), 2021 & 2025 & 2032

Figure 43. World VCM Driver Production Value Market Share by Control Architecture in 2025

Figure 44. AF Driver

Figure 45. Integrated AF And OIS Driver

Figure 46. General Micro-Actuator Driver

Figure 47. World VCM Driver Production Market Share by Control Architecture (2021-2032)

Figure 48. World VCM Driver Production Value Market Share by Control Architecture (2021-2032)

Figure 49. World VCM Driver Average Price by Control Architecture (2021-2032) & (US\$/Unit)

Figure 50. World VCM Driver Production Value by Motion Directionality, (USD Million), 2021 & 2025 & 2032

Figure 51. World VCM Driver Production Value Market Share by Motion Directionality in 2025

Figure 52. Uni-Directional Drive

Figure 53. Bi-Directional Drive

Figure 54. Multi-Axis Or Multi-Channel Integrated

Figure 55. World VCM Driver Production Market Share by Motion Directionality (2021-2032)

Figure 56. World VCM Driver Production Value Market Share by Motion Directionality (2021-2032)

Figure 57. World VCM Driver Average Price by Motion Directionality (2021-2032) &

(US\$/Unit)

Figure 58. World VCM Driver Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World VCM Driver Production Value Market Share by Application in 2025

Figure 60. IOS System

Figure 61. Android System

Figure 62. Other System

Figure 63. World VCM Driver Production Market Share by Application (2021-2032)

Figure 64. World VCM Driver Production Value Market Share by Application (2021-2032)

Figure 65. World VCM Driver Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. VCM Driver Industry Chain

Figure 67. VCM Driver Procurement Model

Figure 68. VCM Driver Sales Model

Figure 69. VCM Driver Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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