

Global Semiconductor AMR Magnetic Angle Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor AMR Magnetic Angle Sensors market size is expected to reach \$ 189 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

In 2025, global sales of Semiconductor AMR Magnetic Angle Sensor reached approximately 150 million units, with an average market price of about USD 0.8 per unit, an annual production capacity of roughly 210 million units, and an industry-average gross margin of approximately 35%.

A Semiconductor AMR magnetic angle sensor is a type of magnetic position sensor that exploits the anisotropic magnetoresistance (AMR) effect. Using on-chip AMR resistor arrays, it senses changes in the direction of an external magnetic field and converts the relative angle of a rotating magnet (or field) into an analog or digital output representing 0–360° (or a limited angular span). Compared with conventional Hall-based angle sensors, AMR solutions provide higher sensitivity and better angle linearity at moderate field strengths, enabling high-accuracy, non-contact, wear-free angle measurement with small air gaps. Typical applications include steering-angle sensing, pedal and throttle position, motor rotor position, rotary knobs and encoders.

Upstream, Semiconductor AMR magnetic angle sensors depend on foundries (CMOS/BCD processes), AMR thin-film and magnetoresistive material processing, assembly & test houses, and permanent-magnet suppliers, as well as EDA/IP tools and automotive/industrial qualification infrastructure. In the midstream, chip design and manufacturing companies integrate AMR arrays with signal-conditioning circuitry, perform wafer fabrication and packaging, and supply products as bare die, standard IC packages or magnet-integrated modules. Downstream, the sensors are integrated by

automotive electronics manufacturers (steering, pedal, transmission), industrial automation and motor-drive vendors, and appliance/consumer-electronics makers. Actual consumption is tightly linked to vehicle production, shipments of motors and servo drives, and penetration of smart appliances and tools, with the sensors typically installed once per device and consumed rigidly with end-equipment shipments.

This report studies the global Semiconductor AMR Magnetic Angle Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor AMR Magnetic Angle Sensors 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 Semiconductor AMR Magnetic Angle Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor AMR Magnetic Angle Sensors total production and demand, 2021-2032, (Million Units)

Global Semiconductor AMR Magnetic Angle Sensors total production value, 2021-2032, (USD Million)

Global Semiconductor AMR Magnetic Angle Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Semiconductor AMR Magnetic Angle Sensors consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Semiconductor AMR Magnetic Angle Sensors domestic production, consumption, key domestic manufacturers and share

Global Semiconductor AMR Magnetic Angle Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Semiconductor AMR Magnetic Angle Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Semiconductor AMR Magnetic Angle Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Semiconductor AMR Magnetic Angle Sensors 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 Murata

Manufacturing, TI, ADI, TE, Infineon, NXP, MEMSIC, MultiDimension Technology, Suzhou Novosense, 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 Semiconductor AMR Magnetic Angle Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 Semiconductor AMR Magnetic Angle Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor AMR Magnetic Angle Sensors Market, Segmentation by Type:

Single-axis

Multi-axis

Global Semiconductor AMR Magnetic Angle Sensors Market, Segmentation by Output:

Analog

Digital

Global Semiconductor AMR Magnetic Angle Sensors Market, Segmentation by Application:

Automotive Electronics

Industrial Automation

Consumer Electronics

Others

Companies Profiled:

Murata Manufacturing

TI

ADI

TE

Infineon

NXP

MEMSIC

MultiDimension Technology

Suzhou Novosense

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 SoC Chip Customization Services Introduction
- 1.2 World SoC Chip Customization Services Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World SoC Chip Customization Services Total Market by Region (by Headquarter Location)
 - 1.3.1 World SoC Chip Customization Services Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company SoC Chip Customization Services Revenue (2021-2032)
 - 1.3.3 China Based Company SoC Chip Customization Services Revenue (2021-2032)
 - 1.3.4 Europe Based Company SoC Chip Customization Services Revenue (2021-2032)
 - 1.3.5 Japan Based Company SoC Chip Customization Services Revenue (2021-2032)
 - 1.3.6 South Korea Based Company SoC Chip Customization Services Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company SoC Chip Customization Services Revenue (2021-2032)
 - 1.3.8 India Based Company SoC Chip Customization Services Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 SoC Chip Customization Services Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World SoC Chip Customization Services Consumption Value (2021-2032)
- 2.2 World SoC Chip Customization Services Consumption Value by Region
 - 2.2.1 World SoC Chip Customization Services Consumption Value by Region (2021-2026)
 - 2.2.2 World SoC Chip Customization Services Consumption Value Forecast by Region (2027-2032)
- 2.3 United States SoC Chip Customization Services Consumption Value (2021-2032)
- 2.4 China SoC Chip Customization Services Consumption Value (2021-2032)
- 2.5 Europe SoC Chip Customization Services Consumption Value (2021-2032)
- 2.6 Japan SoC Chip Customization Services Consumption Value (2021-2032)

- 2.7 South Korea SoC Chip Customization Services Consumption Value (2021-2032)
- 2.8 ASEAN SoC Chip Customization Services Consumption Value (2021-2032)
- 2.9 India SoC Chip Customization Services Consumption Value (2021-2032)

3 WORLD SOC CHIP CUSTOMIZATION SERVICES COMPANIES COMPETITIVE ANALYSIS

- 3.1 World SoC Chip Customization Services Revenue by Player (2021-2026)
- 3.2 Industry Rank and Concentration Rate (CR)
 - 3.2.1 Global SoC Chip Customization Services Industry Rank of Major Players
 - 3.2.2 Global Concentration Ratios (CR4) for SoC Chip Customization Services in 2025
 - 3.2.3 Global Concentration Ratios (CR8) for SoC Chip Customization Services in 2025
- 3.3 SoC Chip Customization Services Company Evaluation Quadrant
- 3.4 SoC Chip Customization Services Market: Overall Company Footprint Analysis
 - 3.4.1 SoC Chip Customization Services Market: Region Footprint
 - 3.4.2 SoC Chip Customization Services Market: Company Product Type Footprint
 - 3.4.3 SoC Chip Customization Services Market: Company Product Application Footprint
- 3.5 Competitive Environment
 - 3.5.1 Historical Structure of the Industry
 - 3.5.2 Barriers of Market Entry
 - 3.5.3 Factors of Competition
- 3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

- 4.1 United States VS China: SoC Chip Customization Services Revenue Comparison (by Headquarter Location)
 - 4.1.1 United States VS China: SoC Chip Customization Services Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
 - 4.1.2 United States VS China: SoC Chip Customization Services Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: SoC Chip Customization Services Consumption Value Comparison
 - 4.2.1 United States VS China: SoC Chip Customization Services Consumption Value Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: SoC Chip Customization Services Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based SoC Chip Customization Services Companies and Market Share, 2021-2026

4.3.1 United States Based SoC Chip Customization Services Companies, Headquarters (States, Country)

4.3.2 United States Based Companies SoC Chip Customization Services Revenue, (2021-2026)

4.4 China Based Companies SoC Chip Customization Services Revenue and Market Share, 2021-2026

4.4.1 China Based SoC Chip Customization Services Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies SoC Chip Customization Services Revenue, (2021-2026)

4.5 Rest of World Based SoC Chip Customization Services Companies and Market Share, 2021-2026

4.5.1 Rest of World Based SoC Chip Customization Services Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies SoC Chip Customization Services Revenue (2021-2026)

5 MARKET ANALYSIS BY PROCESS NODE

5.1 World SoC Chip Customization Services Market Size Overview by Process Node: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Process Node

5.2.1 Advanced Process Customization (?12nm)

5.2.2 Mature Process Customization (22nm-55nm)

5.2.3 Special Process Customization (?65nm)

5.3 Market Segment by Process Node

5.3.1 World SoC Chip Customization Services Market Size by Process Node (2021-2026)

5.3.2 World SoC Chip Customization Services Market Size by Process Node (2027-2032)

5.3.3 World SoC Chip Customization Services Market Size Market Share by Process Node (2027-2032)

6 MARKET ANALYSIS BY CUSTOMIZATION LEVEL

6.1 World SoC Chip Customization Services Market Size Overview by Customization Level: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Customization Level

- 6.2.1 Full-Custom SoC Services
- 6.2.2 Semi-Custom ASIC Services
- 6.2.3 Chiplet-Based Hybrid Custom Services

6.3 Market Segment by Customization Level

- 6.3.1 World SoC Chip Customization Services Market Size by Customization Level (2021-2026)
- 6.3.2 World SoC Chip Customization Services Market Size by Customization Level (2027-2032)
- 6.3.3 World SoC Chip Customization Services Market Size Market Share by Customization Level (2027-2032)

7 MARKET ANALYSIS BY SERVICE SCOPE

7.1 World SoC Chip Customization Services Market Size Overview by Service Scope: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Service Scope

- 7.2.1 Full-Chain Turnkey Services
- 7.2.2 Partial-Stage Design Services
- 7.2.3 IP Integration & Verification Services

7.3 Market Segment by Service Scope

- 7.3.1 World SoC Chip Customization Services Market Size by Service Scope (2021-2026)
- 7.3.2 World SoC Chip Customization Services Market Size by Service Scope (2027-2032)
- 7.3.3 World SoC Chip Customization Services Market Size Market Share by Service Scope (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World SoC Chip Customization Services Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

- 8.2.1 Automotive Electronics
- 8.2.2 Edge AI & IoT
- 8.2.3 Industrial Control
- 8.2.4 Data Center & HPC
- 8.2.5 Others

8.3 Market Segment by Application

- 8.3.1 World SoC Chip Customization Services Market Size by Application (2021-2026)
- 8.3.2 World SoC Chip Customization Services Market Size by Application (2027-2032)
- 8.3.3 World SoC Chip Customization Services Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 BRITE

- 9.1.1 BRITE Details
- 9.1.2 BRITE Major Business
- 9.1.3 BRITE SoC Chip Customization Services Product and Services
- 9.1.4 BRITE SoC Chip Customization Services Revenue, Gross Margin and Market Share (2021-2026)
- 9.1.5 BRITE Recent Developments/Updates
- 9.1.6 BRITE Competitive Strengths & Weaknesses

9.2 Socionext

- 9.2.1 Socionext Details
- 9.2.2 Socionext Major Business
- 9.2.3 Socionext SoC Chip Customization Services Product and Services
- 9.2.4 Socionext SoC Chip Customization Services Revenue, Gross Margin and Market Share (2021-2026)
- 9.2.5 Socionext Recent Developments/Updates
- 9.2.6 Socionext Competitive Strengths & Weaknesses

9.3 VeriSilicon

- 9.3.1 VeriSilicon Details
- 9.3.2 VeriSilicon Major Business
- 9.3.3 VeriSilicon SoC Chip Customization Services Product and Services
- 9.3.4 VeriSilicon SoC Chip Customization Services Revenue, Gross Margin and Market Share (2021-2026)
- 9.3.5 VeriSilicon Recent Developments/Updates
- 9.3.6 VeriSilicon Competitive Strengths & Weaknesses

9.4 Morningcore

- 9.4.1 Morningcore Details
- 9.4.2 Morningcore Major Business
- 9.4.3 Morningcore SoC Chip Customization Services Product and Services
- 9.4.4 Morningcore SoC Chip Customization Services Revenue, Gross Margin and Market Share (2021-2026)
- 9.4.5 Morningcore Recent Developments/Updates
- 9.4.6 Morningcore Competitive Strengths & Weaknesses

9.5 Chip Cloud Microelectronics Technology

9.5.1 Chip Cloud Microelectronics Technology Details

9.5.2 Chip Cloud Microelectronics Technology Major Business

9.5.3 Chip Cloud Microelectronics Technology SoC Chip Customization Services

Product and Services

9.5.4 Chip Cloud Microelectronics Technology SoC Chip Customization Services

Revenue, Gross Margin and Market Share (2021-2026)

9.5.5 Chip Cloud Microelectronics Technology Recent Developments/Updates

9.5.6 Chip Cloud Microelectronics Technology Competitive Strengths & Weaknesses

9.6 Global UniChip

9.6.1 Global UniChip Details

9.6.2 Global UniChip Major Business

9.6.3 Global UniChip SoC Chip Customization Services Product and Services

9.6.4 Global UniChip SoC Chip Customization Services Revenue, Gross Margin and Market Share (2021-2026)

9.6.5 Global UniChip Recent Developments/Updates

9.6.6 Global UniChip Competitive Strengths & Weaknesses

9.7 Alchip Technologies

9.7.1 Alchip Technologies Details

9.7.2 Alchip Technologies Major Business

9.7.3 Alchip Technologies SoC Chip Customization Services Product and Services

9.7.4 Alchip Technologies SoC Chip Customization Services Revenue, Gross Margin and Market Share (2021-2026)

9.7.5 Alchip Technologies Recent Developments/Updates

9.7.6 Alchip Technologies Competitive Strengths & Weaknesses

9.8 Faraday Technology

9.8.1 Faraday Technology Details

9.8.2 Faraday Technology Major Business

9.8.3 Faraday Technology SoC Chip Customization Services Product and Services

9.8.4 Faraday Technology SoC Chip Customization Services Revenue, Gross Margin and Market Share (2021-2026)

9.8.5 Faraday Technology Recent Developments/Updates

9.8.6 Faraday Technology Competitive Strengths & Weaknesses

9.9 Innosilicon

9.9.1 Innosilicon Details

9.9.2 Innosilicon Major Business

9.9.3 Innosilicon SoC Chip Customization Services Product and Services

9.9.4 Innosilicon SoC Chip Customization Services Revenue, Gross Margin and Market Share (2021-2026)

9.9.5 Innosilicon Recent Developments/Updates

9.9.6 Innosilicon Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 SoC Chip Customization Services Industry Chain

10.2 SoC Chip Customization Services Upstream Analysis

10.3 SoC Chip Customization Services Midstream Analysis

10.4 SoC Chip Customization Services Downstream Analysis

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 Semiconductor AMR Magnetic Angle Sensors Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Semiconductor AMR Magnetic Angle Sensors Production Value by Region (2021-2026) & (USD Million)

Table 3. World Semiconductor AMR Magnetic Angle Sensors Production Value by Region (2027-2032) & (USD Million)

Table 4. World Semiconductor AMR Magnetic Angle Sensors Production Value Market Share by Region (2021-2026)

Table 5. World Semiconductor AMR Magnetic Angle Sensors Production Value Market Share by Region (2027-2032)

Table 6. World Semiconductor AMR Magnetic Angle Sensors Production by Region (2021-2026) & (Million Units)

Table 7. World Semiconductor AMR Magnetic Angle Sensors Production by Region (2027-2032) & (Million Units)

Table 8. World Semiconductor AMR Magnetic Angle Sensors Production Market Share by Region (2021-2026)

Table 9. World Semiconductor AMR Magnetic Angle Sensors Production Market Share by Region (2027-2032)

Table 10. World Semiconductor AMR Magnetic Angle Sensors Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Semiconductor AMR Magnetic Angle Sensors Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Semiconductor AMR Magnetic Angle Sensors Major Market Trends

Table 13. World Semiconductor AMR Magnetic Angle Sensors Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World Semiconductor AMR Magnetic Angle Sensors Consumption by Region (2021-2026) & (Million Units)

Table 15. World Semiconductor AMR Magnetic Angle Sensors Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World Semiconductor AMR Magnetic Angle Sensors Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Semiconductor AMR Magnetic Angle Sensors Producers in 2025

Table 18. World Semiconductor AMR Magnetic Angle Sensors Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key Semiconductor AMR Magnetic Angle Sensors Producers in 2025

Table 20. World Semiconductor AMR Magnetic Angle Sensors Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Semiconductor AMR Magnetic Angle Sensors Company Evaluation Quadrant

Table 22. World Semiconductor AMR Magnetic Angle Sensors Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Semiconductor AMR Magnetic Angle Sensors Production Site of Key Manufacturer

Table 24. Semiconductor AMR Magnetic Angle Sensors Market: Company Product Type Footprint

Table 25. Semiconductor AMR Magnetic Angle Sensors Market: Company Product Application Footprint

Table 26. Semiconductor AMR Magnetic Angle Sensors Competitive Factors

Table 27. Semiconductor AMR Magnetic Angle Sensors New Entrant and Capacity Expansion Plans

Table 28. Semiconductor AMR Magnetic Angle Sensors Mergers & Acquisitions Activity

Table 29. United States VS China Semiconductor AMR Magnetic Angle Sensors Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Semiconductor AMR Magnetic Angle Sensors Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China Semiconductor AMR Magnetic Angle Sensors Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based Semiconductor AMR Magnetic Angle Sensors Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Semiconductor AMR Magnetic Angle Sensors Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Semiconductor AMR Magnetic Angle Sensors Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Semiconductor AMR Magnetic Angle Sensors Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers Semiconductor AMR Magnetic Angle Sensors Production Market Share (2021-2026)

Table 37. China Based Semiconductor AMR Magnetic Angle Sensors Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Semiconductor AMR Magnetic Angle Sensors Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Semiconductor AMR Magnetic Angle Sensors

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Semiconductor AMR Magnetic Angle Sensors Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers Semiconductor AMR Magnetic Angle Sensors Production Market Share (2021-2026)

Table 42. Rest of World Based Semiconductor AMR Magnetic Angle Sensors Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Semiconductor AMR Magnetic Angle Sensors Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Semiconductor AMR Magnetic Angle Sensors Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Semiconductor AMR Magnetic Angle Sensors Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers Semiconductor AMR Magnetic Angle Sensors Production Market Share (2021-2026)

Table 47. World Semiconductor AMR Magnetic Angle Sensors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Semiconductor AMR Magnetic Angle Sensors Production by Type (2021-2026) & (Million Units)

Table 49. World Semiconductor AMR Magnetic Angle Sensors Production by Type (2027-2032) & (Million Units)

Table 50. World Semiconductor AMR Magnetic Angle Sensors Production Value by Type (2021-2026) & (USD Million)

Table 51. World Semiconductor AMR Magnetic Angle Sensors Production Value by Type (2027-2032) & (USD Million)

Table 52. World Semiconductor AMR Magnetic Angle Sensors Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Semiconductor AMR Magnetic Angle Sensors Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Semiconductor AMR Magnetic Angle Sensors Production Value by Output, (USD Million), 2021 & 2025 & 2032

Table 55. World Semiconductor AMR Magnetic Angle Sensors Production by Output (2021-2026) & (Million Units)

Table 56. World Semiconductor AMR Magnetic Angle Sensors Production by Output (2027-2032) & (Million Units)

Table 57. World Semiconductor AMR Magnetic Angle Sensors Production Value by Output (2021-2026) & (USD Million)

Table 58. World Semiconductor AMR Magnetic Angle Sensors Production Value by Output (2027-2032) & (USD Million)

Table 59. World Semiconductor AMR Magnetic Angle Sensors Average Price by Output (2021-2026) & (US\$/Unit)

Table 60. World Semiconductor AMR Magnetic Angle Sensors Average Price by Output (2027-2032) & (US\$/Unit)

Table 61. World Semiconductor AMR Magnetic Angle Sensors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Semiconductor AMR Magnetic Angle Sensors Production by Application (2021-2026) & (Million Units)

Table 63. World Semiconductor AMR Magnetic Angle Sensors Production by Application (2027-2032) & (Million Units)

Table 64. World Semiconductor AMR Magnetic Angle Sensors Production Value by Application (2021-2026) & (USD Million)

Table 65. World Semiconductor AMR Magnetic Angle Sensors Production Value by Application (2027-2032) & (USD Million)

Table 66. World Semiconductor AMR Magnetic Angle Sensors Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Semiconductor AMR Magnetic Angle Sensors Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Murata Manufacturing Basic Information, Manufacturing Base and Competitors

Table 69. Murata Manufacturing Major Business

Table 70. Murata Manufacturing Semiconductor AMR Magnetic Angle Sensors Product and Services

Table 71. Murata Manufacturing Semiconductor AMR Magnetic Angle Sensors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Murata Manufacturing Recent Developments/Updates

Table 73. Murata Manufacturing Competitive Strengths & Weaknesses

Table 74. TI Basic Information, Manufacturing Base and Competitors

Table 75. TI Major Business

Table 76. TI Semiconductor AMR Magnetic Angle Sensors Product and Services

Table 77. TI Semiconductor AMR Magnetic Angle Sensors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. TI Recent Developments/Updates

Table 79. TI Competitive Strengths & Weaknesses

Table 80. ADI Basic Information, Manufacturing Base and Competitors

Table 81. ADI Major Business

Table 82. ADI Semiconductor AMR Magnetic Angle Sensors Product and Services

Table 83. ADI Semiconductor AMR Magnetic Angle Sensors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. ADI Recent Developments/Updates

Table 85. ADI Competitive Strengths & Weaknesses

Table 86. TE Basic Information, Manufacturing Base and Competitors

Table 87. TE Major Business

Table 88. TE Semiconductor AMR Magnetic Angle Sensors Product and Services

Table 89. TE Semiconductor AMR Magnetic Angle Sensors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. TE Recent Developments/Updates

Table 91. TE Competitive Strengths & Weaknesses

Table 92. Infineon Basic Information, Manufacturing Base and Competitors

Table 93. Infineon Major Business

Table 94. Infineon Semiconductor AMR Magnetic Angle Sensors Product and Services

Table 95. Infineon Semiconductor AMR Magnetic Angle Sensors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. Infineon Recent Developments/Updates

Table 97. Infineon Competitive Strengths & Weaknesses

Table 98. NXP Basic Information, Manufacturing Base and Competitors

Table 99. NXP Major Business

Table 100. NXP Semiconductor AMR Magnetic Angle Sensors Product and Services

Table 101. NXP Semiconductor AMR Magnetic Angle Sensors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. NXP Recent Developments/Updates

Table 103. NXP Competitive Strengths & Weaknesses

Table 104. MEMSIC Basic Information, Manufacturing Base and Competitors

Table 105. MEMSIC Major Business

Table 106. MEMSIC Semiconductor AMR Magnetic Angle Sensors Product and Services

Table 107. MEMSIC Semiconductor AMR Magnetic Angle Sensors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. MEMSIC Recent Developments/Updates

Table 109. MEMSIC Competitive Strengths & Weaknesses

Table 110. MultiDimension Technology Basic Information, Manufacturing Base and

Competitors

Table 111. MultiDimension Technology Major Business

Table 112. MultiDimension Technology Semiconductor AMR Magnetic Angle Sensors Product and Services

Table 113. MultiDimension Technology Semiconductor AMR Magnetic Angle Sensors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. MultiDimension Technology Recent Developments/Updates

Table 115. MultiDimension Technology Competitive Strengths & Weaknesses

Table 116. Suzhou Novosense Basic Information, Manufacturing Base and Competitors

Table 117. Suzhou Novosense Major Business

Table 118. Suzhou Novosense Semiconductor AMR Magnetic Angle Sensors Product and Services

Table 119. Suzhou Novosense Semiconductor AMR Magnetic Angle Sensors Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Suzhou Novosense Recent Developments/Updates

Table 121. Suzhou Novosense Competitive Strengths & Weaknesses

Table 122. Global Key Players of Semiconductor AMR Magnetic Angle Sensors Upstream (Raw Materials)

Table 123. Global Semiconductor AMR Magnetic Angle Sensors Typical Customers

Table 124. Semiconductor AMR Magnetic Angle Sensors Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Semiconductor AMR Magnetic Angle Sensors Picture

Figure 2. World Semiconductor AMR Magnetic Angle Sensors Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Semiconductor AMR Magnetic Angle Sensors Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Semiconductor AMR Magnetic Angle Sensors Production (2021-2032) & (Million Units)

Figure 5. World Semiconductor AMR Magnetic Angle Sensors Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Semiconductor AMR Magnetic Angle Sensors Production Value Market Share by Region (2021-2032)

Figure 7. World Semiconductor AMR Magnetic Angle Sensors Production Market Share by Region (2021-2032)

Figure 8. North America Semiconductor AMR Magnetic Angle Sensors Production (2021-2032) & (Million Units)

Figure 9. Europe Semiconductor AMR Magnetic Angle Sensors Production (2021-2032) & (Million Units)

Figure 10. China Semiconductor AMR Magnetic Angle Sensors Production (2021-2032) & (Million Units)

Figure 11. Japan Semiconductor AMR Magnetic Angle Sensors Production (2021-2032) & (Million Units)

Figure 12. South Korea Semiconductor AMR Magnetic Angle Sensors Production (2021-2032) & (Million Units)

Figure 13. Southeast Asia Semiconductor AMR Magnetic Angle Sensors Production (2021-2032) & (Million Units)

Figure 14. China Taiwan Semiconductor AMR Magnetic Angle Sensors Production (2021-2032) & (Million Units)

Figure 15. Semiconductor AMR Magnetic Angle Sensors Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Semiconductor AMR Magnetic Angle Sensors Consumption (2021-2032) & (Million Units)

Figure 18. World Semiconductor AMR Magnetic Angle Sensors Consumption Market Share by Region (2021-2032)

Figure 19. United States Semiconductor AMR Magnetic Angle Sensors Consumption (2021-2032) & (Million Units)

- Figure 20. China Semiconductor AMR Magnetic Angle Sensors Consumption (2021-2032) & (Million Units)
- Figure 21. Europe Semiconductor AMR Magnetic Angle Sensors Consumption (2021-2032) & (Million Units)
- Figure 22. Japan Semiconductor AMR Magnetic Angle Sensors Consumption (2021-2032) & (Million Units)
- Figure 23. South Korea Semiconductor AMR Magnetic Angle Sensors Consumption (2021-2032) & (Million Units)
- Figure 24. ASEAN Semiconductor AMR Magnetic Angle Sensors Consumption (2021-2032) & (Million Units)
- Figure 25. India Semiconductor AMR Magnetic Angle Sensors Consumption (2021-2032) & (Million Units)
- Figure 26. Producer Shipments of Semiconductor AMR Magnetic Angle Sensors by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 27. Global Four-firm Concentration Ratios (CR4) for Semiconductor AMR Magnetic Angle Sensors Markets in 2025
- Figure 28. Global Four-firm Concentration Ratios (CR8) for Semiconductor AMR Magnetic Angle Sensors Markets in 2025
- Figure 29. United States VS China: Semiconductor AMR Magnetic Angle Sensors Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 30. United States VS China: Semiconductor AMR Magnetic Angle Sensors Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 31. United States VS China: Semiconductor AMR Magnetic Angle Sensors Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 32. United States Based Manufacturers Semiconductor AMR Magnetic Angle Sensors Production Market Share 2025
- Figure 33. China Based Manufacturers Semiconductor AMR Magnetic Angle Sensors Production Market Share 2025
- Figure 34. Rest of World Based Manufacturers Semiconductor AMR Magnetic Angle Sensors Production Market Share 2025
- Figure 35. World Semiconductor AMR Magnetic Angle Sensors Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 36. World Semiconductor AMR Magnetic Angle Sensors Production Value Market Share by Type in 2025
- Figure 37. Single-axis
- Figure 38. Multi-axis
- Figure 39. World Semiconductor AMR Magnetic Angle Sensors Production Market Share by Type (2021-2032)
- Figure 40. World Semiconductor AMR Magnetic Angle Sensors Production Value

Market Share by Type (2021-2032)

Figure 41. World Semiconductor AMR Magnetic Angle Sensors Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Semiconductor AMR Magnetic Angle Sensors Production Value by Output, (USD Million), 2021 & 2025 & 2032

Figure 43. World Semiconductor AMR Magnetic Angle Sensors Production Value Market Share by Output in 2025

Figure 44. Analog

Figure 45. Digital

Figure 46. World Semiconductor AMR Magnetic Angle Sensors Production Market Share by Output (2021-2032)

Figure 47. World Semiconductor AMR Magnetic Angle Sensors Production Value Market Share by Output (2021-2032)

Figure 48. World Semiconductor AMR Magnetic Angle Sensors Average Price by Output (2021-2032) & (US\$/Unit)

Figure 49. World Semiconductor AMR Magnetic Angle Sensors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 50. World Semiconductor AMR Magnetic Angle Sensors Production Value Market Share by Application in 2025

Figure 51. Automotive Electronics

Figure 52. Industrial Automation

Figure 53. Consumer Electronics

Figure 54. Others

Figure 55. World Semiconductor AMR Magnetic Angle Sensors Production Market Share by Application (2021-2032)

Figure 56. World Semiconductor AMR Magnetic Angle Sensors Production Value Market Share by Application (2021-2032)

Figure 57. World Semiconductor AMR Magnetic Angle Sensors Average Price by Application (2021-2032) & (US\$/Unit)

Figure 58. Semiconductor AMR Magnetic Angle Sensors Industry Chain

Figure 59. Semiconductor AMR Magnetic Angle Sensors Procurement Model

Figure 60. Semiconductor AMR Magnetic Angle Sensors Sales Model

Figure 61. Semiconductor AMR Magnetic Angle Sensors Sales Channels, Direct Sales, and Distribution

Figure 62. Methodology

Figure 63. Research Process and Data Source

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