

Global 6-Axis and 9-Axis IMU Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 6-Axis and 9-Axis IMU market size is expected to reach \$ 47829 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

A 6-axis or 9-axis inertial measurement unit is a core motion sensor used to continuously capture linear acceleration, angular velocity, and heading information. A 6-axis unit typically combines a three-axis accelerometer and a three-axis gyroscope, while a 9-axis unit further adds a three-axis magnetometer, or uses external magnetic field data together with fusion algorithms to generate more complete attitude and heading outputs. Based on official product pages, the industry has evolved from simple motion detection devices into a layered market spanning consumer-grade chips, industrial modules, navigation-grade units, and tactical-grade units. Its key capabilities now center on low power consumption, miniaturization, temperature-drift compensation, factory calibration, vibration and shock resistance, sensor fusion, edge intelligence, and multi-interface output. Typical products range from LGA-packaged chips for smartphones, TWS devices, game controllers, XR products, remote controls, and wearables, to sealed modules and attitude-navigation units for robots, drones, construction machinery, automotive systems, surveying, marine applications, and aerospace and defense. Customers include consumer electronics OEMs and solution providers, as well as industrial automation companies, automotive suppliers, unmanned-system developers, and high-end equipment integrators. Common delivery formats now extend from standalone IMU chips to algorithm-enabled IMU modules, integrated IMU and AHRS solutions, and high-precision inertial navigation platforms deeply coupled with GNSS. Commercially, the sector still relies on large-volume standard device shipments, but it is increasingly driven by higher-margin calibration services, algorithm SDKs, development kits, reference designs, and vertical application-specific solutions. In practice, the competitive focus is shifting from pure sensing performance toward

system-level stability, development efficiency, and application deployment speed. This indicates that IMUs are moving from discrete components toward platform-level capability nodes.

Official product pages show that the 6-axis and 9-axis IMU market has already developed a very clear tiered structure. Products aimed at smartphones, earbuds, game controllers, wearables, and XR devices compete primarily on low power consumption, small size, low cost, and fast integration. That is why companies such as ST, Bosch, QST, and MEMSIC emphasize LGA packaging, low current draw, standard digital interfaces, and the migration of motion recognition, step tracking, attitude fusion, and edge algorithms into the device itself. By contrast, products for robots, drones, construction machinery, and surveying and navigation place greater weight on bias stability, temperature compensation, vibration and shock resistance, sealed packaging, and long-term reliability. Vendors such as Murata, Epson, VectorNav, SBG, Honeywell, Collins, and FIBERPRO are no longer providing only sensing chips. They are offering industrial-grade, navigation-grade, and even tactical-grade units that can be connected directly into machine control, attitude estimation, and navigation chains. This shows that the industry has moved beyond simply selling sensors and has become a compound market segmented by accuracy level, operating environment, and system responsibility boundary. As a result, vendor strength can no longer be judged by single-point specifications alone. It must also be evaluated through calibration capability, algorithm maturity, interface ecosystem, development tools, reference designs, and the ability to deliver trustworthy data under vibration, high temperature, shock, magnetic interference, and GNSS-denied conditions. The companies that will truly widen the gap are not merely those that can make 6-axis or 9-axis products first, but those that can embed IMUs into the full control loop of the end system while delivering scalable reliability, verifiable performance boundaries, and lower customer integration costs.

The most important change on the demand side is that the value center of IMUs is shifting from whether they are needed to what performance level, algorithm depth, and application fit they must deliver. Consumer electronics remains the largest volume base. Bosch, ST, QST, and MEMSIC all highlight smartphones, tablets, wearables, gaming devices, and XR in their official application pages, indicating that this market still depends on scale shipments. At the same time, the faster-growing and higher-value opportunities are moving toward robots, drones, construction machinery, automation equipment, and high-precision mobile platforms. Murata directly positions its 6DoF products for autonomous off-highway vehicles, drones, and GNSS-assisted positioning. HiPNUC applies high-precision inertial solutions to humanoid and quadruped robots. Honeywell positions TARS-IMU for heavy-duty and off-highway transportation

automation. Policy is also accelerating demand release. The EU General Safety Regulation has incorporated a range of ADAS-related capabilities into the vehicle safety framework, while the FAA's BVLOS rulemaking is creating institutional space for more advanced drone operations. For IMU vendors, this means that future high-growth opportunities will increasingly come from machine substitution, equipment autonomy, and highly reliable motion sensing in complex environments. Combined with the International Federation of Robotics data on the installed base and deployment structure of factory robots, as well as IDC's view that wrist-worn and XR devices are returning to growth, it is clear that the downstream market for IMUs is not a single track. It is jointly supported by the sheer volume of consumer electronics, the high growth of robots and unmanned systems, the certification-heavy nature of automotive and equipment markets, and the high barriers of surveying and defense. Companies that can cover several of these segments at once will be better positioned to smooth cyclicity and build a more resilient revenue structure.

From the perspective of competition and geographic distribution, the IMU industry is unlikely to become a winner-take-all market. It is more likely to maintain a long-term coexistence of volume competition in the consumer segment and performance competition in the high-end segment. Asia, especially Japan and China, has a high density of suppliers in devices, modules, and manufacturing delivery. Japanese companies retain strong capabilities in high-stability MEMS, quartz devices, and industrial sensors, while Chinese vendors are advancing rapidly in consumer substitution and application adaptation for robots and unmanned systems. German, Swiss, and U.S. companies remain strong in low-power chip platforms, industrial automation, and high-end navigation and aerospace and defense-grade solutions. French and Korean vendors also hold distinctive positions in high-performance MEMS, AHRS, FOG, and integrated navigation. The technology path will not converge into a single route either. Silicon MEMS remains the mainstream foundation, while quartz MEMS, FOG, and FOG-MEMS hybrid approaches will continue to expand into higher-stability and more demanding environments. Overall, as long as robotics, drones, automotive intelligence, industrial digitalization, and advanced equipment continue to upgrade, the IMU sector is likely to remain in a phase where product upgrading outpaces price erosion over the next few years. The outlook is therefore positive, especially for vendors that can provide hardware, algorithms, calibration, and system integration together. These companies can sell not only individual devices or modules, but also use software protocols, development tools, reference designs, industry adaptation, and post-sales validation to convert one-time device transactions into lasting customer stickiness. As customers place greater emphasis on integration cycle, validation cost, and lifecycle maintainability, competitive barriers will continue shifting

upward from hardware specifications toward platform-level delivery capability.

This report studies the global 6-Axis and 9-Axis IMU production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 6-Axis and 9-Axis IMU 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 6-Axis and 9-Axis IMU that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 6-Axis and 9-Axis IMU total production and demand, 2021-2032, (Million Units)

Global 6-Axis and 9-Axis IMU total production value, 2021-2032, (USD Million)

Global 6-Axis and 9-Axis IMU production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global 6-Axis and 9-Axis IMU consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: 6-Axis and 9-Axis IMU domestic production, consumption, key domestic manufacturers and share

Global 6-Axis and 9-Axis IMU production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global 6-Axis and 9-Axis IMU production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global 6-Axis and 9-Axis IMU production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global 6-Axis and 9-Axis IMU 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 TDK Corporation, Robert Bosch GmbH, Senodia Technologies, Analog Devices, Inc., Aceinna, Inc., Adafruit Industries LLC, Honeywell International Inc., M5Stack Technology Co., Ltd., MEMSIC Semiconductor Co., Ltd., Murata Manufacturing 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 6-Axis and 9-Axis IMU 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 6-Axis and 9-Axis IMU Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 6-Axis and 9-Axis IMU Market, Segmentation by Type:

6-Axis

9-Axis

Global 6-Axis and 9-Axis IMU Market, Segmentation by Product Role:

Pure IMU

IMU with AHRS

IMU with INS

Global 6-Axis and 9-Axis IMU Market, Segmentation by Delivery Form:

Chip-Level Device

Board-Level or OEM Module

Sealed Industrial Module

Ruggedized High-End Unit

Global 6-Axis and 9-Axis IMU Market, Segmentation by Application:

Consumption Electronics

Smart Appliances

Drone

IIoT

Robot

Automobile

Others

Companies Profiled:

TDK Corporation

Robert Bosch GmbH

Senodia Technologies

Analog Devices, Inc.

Aceinna, Inc.

Adafruit Industries LLC

Honeywell International Inc.

M5Stack Technology Co., Ltd.

MEMSIC Semiconductor Co., Ltd.

Murata Manufacturing Co., Ltd.

STMicroelectronics

Seiko Epson Corporation

Japan Aviation Electronics Industry, Ltd.

Tamagawa Seiki Co., Ltd.

W?rth Elektronik eiSos GmbH & Co. KG

VectorNav Technologies, LLC

Inertial Labs, Inc.

SBG Systems

Silicon Sensing Systems Limited

EMCORE Corporation

FIBERPRO, Inc.

MicroInfinity Co., Ltd.

QST Corporation

HiPNUC

Shaanxi ERICCO Inertial Technology Co., Ltd.

Advanced Wireless & Antenna Inc.

Sea Land Technology Co., Ltd.

WitMotion Shenzhen Co., Ltd.

Key Questions Answered:

1. How big is the global 6-Axis and 9-Axis IMU market?
2. What is the demand of the global 6-Axis and 9-Axis IMU market?
3. What is the year over year growth of the global 6-Axis and 9-Axis IMU market?
4. What is the production and production value of the global 6-Axis and 9-Axis IMU market?
5. Who are the key producers in the global 6-Axis and 9-Axis IMU market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 6-Axis and 9-Axis IMU Introduction
- 1.2 World 6-Axis and 9-Axis IMU Supply & Forecast
 - 1.2.1 World 6-Axis and 9-Axis IMU Production Value (2021 & 2025 & 2032)
 - 1.2.2 World 6-Axis and 9-Axis IMU Production (2021-2032)
 - 1.2.3 World 6-Axis and 9-Axis IMU Pricing Trends (2021-2032)
- 1.3 World 6-Axis and 9-Axis IMU Production by Region (Based on Production Site)
 - 1.3.1 World 6-Axis and 9-Axis IMU Production Value by Region (2021-2032)
 - 1.3.2 World 6-Axis and 9-Axis IMU Production by Region (2021-2032)
 - 1.3.3 World 6-Axis and 9-Axis IMU Average Price by Region (2021-2032)
 - 1.3.4 North America 6-Axis and 9-Axis IMU Production (2021-2032)
 - 1.3.5 Europe 6-Axis and 9-Axis IMU Production (2021-2032)
 - 1.3.6 China 6-Axis and 9-Axis IMU Production (2021-2032)
 - 1.3.7 Japan 6-Axis and 9-Axis IMU Production (2021-2032)
 - 1.3.8 South Korea 6-Axis and 9-Axis IMU Production (2021-2032)
 - 1.3.9 China Taiwan 6-Axis and 9-Axis IMU Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 6-Axis and 9-Axis IMU Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 6-Axis and 9-Axis IMU Major Market Trends

2 DEMAND SUMMARY

- 2.1 World 6-Axis and 9-Axis IMU Demand (2021-2032)
- 2.2 World 6-Axis and 9-Axis IMU Consumption by Region
 - 2.2.1 World 6-Axis and 9-Axis IMU Consumption by Region (2021-2026)
 - 2.2.2 World 6-Axis and 9-Axis IMU Consumption Forecast by Region (2027-2032)
- 2.3 United States 6-Axis and 9-Axis IMU Consumption (2021-2032)
- 2.4 China 6-Axis and 9-Axis IMU Consumption (2021-2032)
- 2.5 Europe 6-Axis and 9-Axis IMU Consumption (2021-2032)
- 2.6 Japan 6-Axis and 9-Axis IMU Consumption (2021-2032)
- 2.7 South Korea 6-Axis and 9-Axis IMU Consumption (2021-2032)
- 2.8 ASEAN 6-Axis and 9-Axis IMU Consumption (2021-2032)
- 2.9 India 6-Axis and 9-Axis IMU Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World 6-Axis and 9-Axis IMU Production Value by Manufacturer (2021-2026)
- 3.2 World 6-Axis and 9-Axis IMU Production by Manufacturer (2021-2026)
- 3.3 World 6-Axis and 9-Axis IMU Average Price by Manufacturer (2021-2026)
- 3.4 6-Axis and 9-Axis IMU Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global 6-Axis and 9-Axis IMU Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for 6-Axis and 9-Axis IMU in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for 6-Axis and 9-Axis IMU in 2025
- 3.6 6-Axis and 9-Axis IMU Market: Overall Company Footprint Analysis
 - 3.6.1 6-Axis and 9-Axis IMU Market: Region Footprint
 - 3.6.2 6-Axis and 9-Axis IMU Market: Company Product Type Footprint
 - 3.6.3 6-Axis and 9-Axis IMU 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: 6-Axis and 9-Axis IMU Production Value Comparison
 - 4.1.1 United States VS China: 6-Axis and 9-Axis IMU Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: 6-Axis and 9-Axis IMU Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: 6-Axis and 9-Axis IMU Production Comparison
 - 4.2.1 United States VS China: 6-Axis and 9-Axis IMU Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: 6-Axis and 9-Axis IMU Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: 6-Axis and 9-Axis IMU Consumption Comparison
 - 4.3.1 United States VS China: 6-Axis and 9-Axis IMU Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: 6-Axis and 9-Axis IMU Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based 6-Axis and 9-Axis IMU Manufacturers and Market Share, 2021-2026

4.4.1 United States Based 6-Axis and 9-Axis IMU Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers 6-Axis and 9-Axis IMU Production Value (2021-2026)

4.4.3 United States Based Manufacturers 6-Axis and 9-Axis IMU Production (2021-2026)

4.5 China Based 6-Axis and 9-Axis IMU Manufacturers and Market Share

4.5.1 China Based 6-Axis and 9-Axis IMU Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers 6-Axis and 9-Axis IMU Production Value (2021-2026)

4.5.3 China Based Manufacturers 6-Axis and 9-Axis IMU Production (2021-2026)

4.6 Rest of World Based 6-Axis and 9-Axis IMU Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based 6-Axis and 9-Axis IMU Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers 6-Axis and 9-Axis IMU Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers 6-Axis and 9-Axis IMU Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World 6-Axis and 9-Axis IMU Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 6-Axis

5.2.2 9-Axis

5.3 Market Segment by Type

5.3.1 World 6-Axis and 9-Axis IMU Production by Type (2021-2032)

5.3.2 World 6-Axis and 9-Axis IMU Production Value by Type (2021-2032)

5.3.3 World 6-Axis and 9-Axis IMU Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRODUCT ROLE

6.1 World 6-Axis and 9-Axis IMU Market Size Overview by Product Role: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Product Role

6.2.1 Pure IMU

6.2.2 IMU with AHRS

6.2.3 IMU with INS

6.3 Market Segment by Product Role

6.3.1 World 6-Axis and 9-Axis IMU Production by Product Role (2021-2032)

6.3.2 World 6-Axis and 9-Axis IMU Production Value by Product Role (2021-2032)

6.3.3 World 6-Axis and 9-Axis IMU Average Price by Product Role (2021-2032)

7 MARKET ANALYSIS BY DELIVERY FORM

7.1 World 6-Axis and 9-Axis IMU Market Size Overview by Delivery Form: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Delivery Form

7.2.1 Chip-Level Device

7.2.2 Board-Level or OEM Module

7.2.3 Sealed Industrial Module

7.2.4 Ruggedized High-End Unit

7.3 Market Segment by Delivery Form

7.3.1 World 6-Axis and 9-Axis IMU Production by Delivery Form (2021-2032)

7.3.2 World 6-Axis and 9-Axis IMU Production Value by Delivery Form (2021-2032)

7.3.3 World 6-Axis and 9-Axis IMU Average Price by Delivery Form (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World 6-Axis and 9-Axis IMU Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Consumption Electronics

8.2.2 Smart Appliances

8.2.3 Drone

8.2.4 IIoT

8.2.5 Robot

8.2.6 Automobile

8.2.7 Others

8.3 Market Segment by Application

8.3.1 World 6-Axis and 9-Axis IMU Production by Application (2021-2032)

8.3.2 World 6-Axis and 9-Axis IMU Production Value by Application (2021-2032)

8.3.3 World 6-Axis and 9-Axis IMU Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 TDK Corporation

9.1.1 TDK Corporation Details

9.1.2 TDK Corporation Major Business

9.1.3 TDK Corporation 6-Axis and 9-Axis IMU Product and Services

9.1.4 TDK Corporation 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 TDK Corporation Recent Developments/Updates

9.1.6 TDK Corporation Competitive Strengths & Weaknesses

9.2 Robert Bosch GmbH

9.2.1 Robert Bosch GmbH Details

9.2.2 Robert Bosch GmbH Major Business

9.2.3 Robert Bosch GmbH 6-Axis and 9-Axis IMU Product and Services

9.2.4 Robert Bosch GmbH 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Robert Bosch GmbH Recent Developments/Updates

9.2.6 Robert Bosch GmbH Competitive Strengths & Weaknesses

9.3 Senodia Technologies

9.3.1 Senodia Technologies Details

9.3.2 Senodia Technologies Major Business

9.3.3 Senodia Technologies 6-Axis and 9-Axis IMU Product and Services

9.3.4 Senodia Technologies 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Senodia Technologies Recent Developments/Updates

9.3.6 Senodia Technologies Competitive Strengths & Weaknesses

9.4 Analog Devices, Inc.

9.4.1 Analog Devices, Inc. Details

9.4.2 Analog Devices, Inc. Major Business

9.4.3 Analog Devices, Inc. 6-Axis and 9-Axis IMU Product and Services

9.4.4 Analog Devices, Inc. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Analog Devices, Inc. Recent Developments/Updates

9.4.6 Analog Devices, Inc. Competitive Strengths & Weaknesses

9.5 Aceinna, Inc.

9.5.1 Aceinna, Inc. Details

9.5.2 Aceinna, Inc. Major Business

9.5.3 Aceinna, Inc. 6-Axis and 9-Axis IMU Product and Services

9.5.4 Aceinna, Inc. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Aceinna, Inc. Recent Developments/Updates

9.5.6 Aceinna, Inc. Competitive Strengths & Weaknesses

9.6 Adafruit Industries LLC

9.6.1 Adafruit Industries LLC Details

9.6.2 Adafruit Industries LLC Major Business

9.6.3 Adafruit Industries LLC 6-Axis and 9-Axis IMU Product and Services

9.6.4 Adafruit Industries LLC 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Adafruit Industries LLC Recent Developments/Updates

9.6.6 Adafruit Industries LLC Competitive Strengths & Weaknesses

9.7 Honeywell International Inc.

9.7.1 Honeywell International Inc. Details

9.7.2 Honeywell International Inc. Major Business

9.7.3 Honeywell International Inc. 6-Axis and 9-Axis IMU Product and Services

9.7.4 Honeywell International Inc. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Honeywell International Inc. Recent Developments/Updates

9.7.6 Honeywell International Inc. Competitive Strengths & Weaknesses

9.8 M5Stack Technology Co., Ltd.

9.8.1 M5Stack Technology Co., Ltd. Details

9.8.2 M5Stack Technology Co., Ltd. Major Business

9.8.3 M5Stack Technology Co., Ltd. 6-Axis and 9-Axis IMU Product and Services

9.8.4 M5Stack Technology Co., Ltd. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 M5Stack Technology Co., Ltd. Recent Developments/Updates

9.8.6 M5Stack Technology Co., Ltd. Competitive Strengths & Weaknesses

9.9 MEMSIC Semiconductor Co., Ltd.

9.9.1 MEMSIC Semiconductor Co., Ltd. Details

9.9.2 MEMSIC Semiconductor Co., Ltd. Major Business

9.9.3 MEMSIC Semiconductor Co., Ltd. 6-Axis and 9-Axis IMU Product and Services

9.9.4 MEMSIC Semiconductor Co., Ltd. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 MEMSIC Semiconductor Co., Ltd. Recent Developments/Updates

9.9.6 MEMSIC Semiconductor Co., Ltd. Competitive Strengths & Weaknesses

9.10 Murata Manufacturing Co., Ltd.

9.10.1 Murata Manufacturing Co., Ltd. Details

9.10.2 Murata Manufacturing Co., Ltd. Major Business

9.10.3 Murata Manufacturing Co., Ltd. 6-Axis and 9-Axis IMU Product and Services

9.10.4 Murata Manufacturing Co., Ltd. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.10.5 Murata Manufacturing Co., Ltd. Recent Developments/Updates
- 9.10.6 Murata Manufacturing Co., Ltd. Competitive Strengths & Weaknesses
- 9.11 STMicroelectronics
 - 9.11.1 STMicroelectronics Details
 - 9.11.2 STMicroelectronics Major Business
 - 9.11.3 STMicroelectronics 6-Axis and 9-Axis IMU Product and Services
 - 9.11.4 STMicroelectronics 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 STMicroelectronics Recent Developments/Updates
 - 9.11.6 STMicroelectronics Competitive Strengths & Weaknesses
- 9.12 Seiko Epson Corporation
 - 9.12.1 Seiko Epson Corporation Details
 - 9.12.2 Seiko Epson Corporation Major Business
 - 9.12.3 Seiko Epson Corporation 6-Axis and 9-Axis IMU Product and Services
 - 9.12.4 Seiko Epson Corporation 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Seiko Epson Corporation Recent Developments/Updates
 - 9.12.6 Seiko Epson Corporation Competitive Strengths & Weaknesses
- 9.13 Japan Aviation Electronics Industry, Ltd.
 - 9.13.1 Japan Aviation Electronics Industry, Ltd. Details
 - 9.13.2 Japan Aviation Electronics Industry, Ltd. Major Business
 - 9.13.3 Japan Aviation Electronics Industry, Ltd. 6-Axis and 9-Axis IMU Product and Services
 - 9.13.4 Japan Aviation Electronics Industry, Ltd. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Japan Aviation Electronics Industry, Ltd. Recent Developments/Updates
 - 9.13.6 Japan Aviation Electronics Industry, Ltd. Competitive Strengths & Weaknesses
- 9.14 Tamagawa Seiki Co., Ltd.
 - 9.14.1 Tamagawa Seiki Co., Ltd. Details
 - 9.14.2 Tamagawa Seiki Co., Ltd. Major Business
 - 9.14.3 Tamagawa Seiki Co., Ltd. 6-Axis and 9-Axis IMU Product and Services
 - 9.14.4 Tamagawa Seiki Co., Ltd. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Tamagawa Seiki Co., Ltd. Recent Developments/Updates
 - 9.14.6 Tamagawa Seiki Co., Ltd. Competitive Strengths & Weaknesses
- 9.15 W?rth Elektronik eiSos GmbH & Co. KG
 - 9.15.1 W?rth Elektronik eiSos GmbH & Co. KG Details
 - 9.15.2 W?rth Elektronik eiSos GmbH & Co. KG Major Business
 - 9.15.3 W?rth Elektronik eiSos GmbH & Co. KG 6-Axis and 9-Axis IMU Product and

Services

9.15.4 W?rth Elektronik eiSos GmbH & Co. KG 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 W?rth Elektronik eiSos GmbH & Co. KG Recent Developments/Updates

9.15.6 W?rth Elektronik eiSos GmbH & Co. KG Competitive Strengths & Weaknesses

9.16 VectorNav Technologies, LLC

9.16.1 VectorNav Technologies, LLC Details

9.16.2 VectorNav Technologies, LLC Major Business

9.16.3 VectorNav Technologies, LLC 6-Axis and 9-Axis IMU Product and Services

9.16.4 VectorNav Technologies, LLC 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 VectorNav Technologies, LLC Recent Developments/Updates

9.16.6 VectorNav Technologies, LLC Competitive Strengths & Weaknesses

9.17 Inertial Labs, Inc.

9.17.1 Inertial Labs, Inc. Details

9.17.2 Inertial Labs, Inc. Major Business

9.17.3 Inertial Labs, Inc. 6-Axis and 9-Axis IMU Product and Services

9.17.4 Inertial Labs, Inc. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Inertial Labs, Inc. Recent Developments/Updates

9.17.6 Inertial Labs, Inc. Competitive Strengths & Weaknesses

9.18 SBG Systems

9.18.1 SBG Systems Details

9.18.2 SBG Systems Major Business

9.18.3 SBG Systems 6-Axis and 9-Axis IMU Product and Services

9.18.4 SBG Systems 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 SBG Systems Recent Developments/Updates

9.18.6 SBG Systems Competitive Strengths & Weaknesses

9.19 Silicon Sensing Systems Limited

9.19.1 Silicon Sensing Systems Limited Details

9.19.2 Silicon Sensing Systems Limited Major Business

9.19.3 Silicon Sensing Systems Limited 6-Axis and 9-Axis IMU Product and Services

9.19.4 Silicon Sensing Systems Limited 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 Silicon Sensing Systems Limited Recent Developments/Updates

9.19.6 Silicon Sensing Systems Limited Competitive Strengths & Weaknesses

9.20 EMCORE Corporation

9.20.1 EMCORE Corporation Details

- 9.20.2 EMCORE Corporation Major Business
- 9.20.3 EMCORE Corporation 6-Axis and 9-Axis IMU Product and Services
- 9.20.4 EMCORE Corporation 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.20.5 EMCORE Corporation Recent Developments/Updates
- 9.20.6 EMCORE Corporation Competitive Strengths & Weaknesses
- 9.21 FIBERPRO, Inc.
- 9.21.1 FIBERPRO, Inc. Details
- 9.21.2 FIBERPRO, Inc. Major Business
- 9.21.3 FIBERPRO, Inc. 6-Axis and 9-Axis IMU Product and Services
- 9.21.4 FIBERPRO, Inc. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.21.5 FIBERPRO, Inc. Recent Developments/Updates
- 9.21.6 FIBERPRO, Inc. Competitive Strengths & Weaknesses
- 9.22 MicroInfinity Co., Ltd.
- 9.22.1 MicroInfinity Co., Ltd. Details
- 9.22.2 MicroInfinity Co., Ltd. Major Business
- 9.22.3 MicroInfinity Co., Ltd. 6-Axis and 9-Axis IMU Product and Services
- 9.22.4 MicroInfinity Co., Ltd. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.22.5 MicroInfinity Co., Ltd. Recent Developments/Updates
- 9.22.6 MicroInfinity Co., Ltd. Competitive Strengths & Weaknesses
- 9.23 QST Corporation
- 9.23.1 QST Corporation Details
- 9.23.2 QST Corporation Major Business
- 9.23.3 QST Corporation 6-Axis and 9-Axis IMU Product and Services
- 9.23.4 QST Corporation 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.23.5 QST Corporation Recent Developments/Updates
- 9.23.6 QST Corporation Competitive Strengths & Weaknesses
- 9.24 HiPNUC
- 9.24.1 HiPNUC Details
- 9.24.2 HiPNUC Major Business
- 9.24.3 HiPNUC 6-Axis and 9-Axis IMU Product and Services
- 9.24.4 HiPNUC 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.24.5 HiPNUC Recent Developments/Updates
- 9.24.6 HiPNUC Competitive Strengths & Weaknesses
- 9.25 Shaanxi ERICCO Inertial Technology Co., Ltd.

- 9.25.1 Shaanxi ERICCO Inertial Technology Co., Ltd. Details
- 9.25.2 Shaanxi ERICCO Inertial Technology Co., Ltd. Major Business
- 9.25.3 Shaanxi ERICCO Inertial Technology Co., Ltd. 6-Axis and 9-Axis IMU Product and Services
- 9.25.4 Shaanxi ERICCO Inertial Technology Co., Ltd. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.25.5 Shaanxi ERICCO Inertial Technology Co., Ltd. Recent Developments/Updates
- 9.25.6 Shaanxi ERICCO Inertial Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.26 Advanced Wireless & Antenna Inc.
- 9.26.1 Advanced Wireless & Antenna Inc. Details
- 9.26.2 Advanced Wireless & Antenna Inc. Major Business
- 9.26.3 Advanced Wireless & Antenna Inc. 6-Axis and 9-Axis IMU Product and Services
- 9.26.4 Advanced Wireless & Antenna Inc. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.26.5 Advanced Wireless & Antenna Inc. Recent Developments/Updates
- 9.26.6 Advanced Wireless & Antenna Inc. Competitive Strengths & Weaknesses
- 9.27 Sea Land Technology Co., Ltd.
- 9.27.1 Sea Land Technology Co., Ltd. Details
- 9.27.2 Sea Land Technology Co., Ltd. Major Business
- 9.27.3 Sea Land Technology Co., Ltd. 6-Axis and 9-Axis IMU Product and Services
- 9.27.4 Sea Land Technology Co., Ltd. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.27.5 Sea Land Technology Co., Ltd. Recent Developments/Updates
- 9.27.6 Sea Land Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.28 WitMotion Shenzhen Co., Ltd.
- 9.28.1 WitMotion Shenzhen Co., Ltd. Details
- 9.28.2 WitMotion Shenzhen Co., Ltd. Major Business
- 9.28.3 WitMotion Shenzhen Co., Ltd. 6-Axis and 9-Axis IMU Product and Services
- 9.28.4 WitMotion Shenzhen Co., Ltd. 6-Axis and 9-Axis IMU Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.28.5 WitMotion Shenzhen Co., Ltd. Recent Developments/Updates
- 9.28.6 WitMotion Shenzhen Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 6-Axis and 9-Axis IMU Industry Chain
- 10.2 6-Axis and 9-Axis IMU Upstream Analysis
 - 10.2.1 6-Axis and 9-Axis IMU Core Raw Materials

10.2.2 Main Manufacturers of 6-Axis and 9-Axis IMU Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 6-Axis and 9-Axis IMU Production Mode

10.6 6-Axis and 9-Axis IMU Procurement Model

10.7 6-Axis and 9-Axis IMU Industry Sales Model and Sales Channels

10.7.1 6-Axis and 9-Axis IMU Sales Model

10.7.2 6-Axis and 9-Axis IMU 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 6-Axis and 9-Axis IMU Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World 6-Axis and 9-Axis IMU Production Value by Region (2021-2026) & (USD Million)

Table 3. World 6-Axis and 9-Axis IMU Production Value by Region (2027-2032) & (USD Million)

Table 4. World 6-Axis and 9-Axis IMU Production Value Market Share by Region (2021-2026)

Table 5. World 6-Axis and 9-Axis IMU Production Value Market Share by Region (2027-2032)

Table 6. World 6-Axis and 9-Axis IMU Production by Region (2021-2026) & (Million Units)

Table 7. World 6-Axis and 9-Axis IMU Production by Region (2027-2032) & (Million Units)

Table 8. World 6-Axis and 9-Axis IMU Production Market Share by Region (2021-2026)

Table 9. World 6-Axis and 9-Axis IMU Production Market Share by Region (2027-2032)

Table 10. World 6-Axis and 9-Axis IMU Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World 6-Axis and 9-Axis IMU Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. 6-Axis and 9-Axis IMU Major Market Trends

Table 13. World 6-Axis and 9-Axis IMU Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World 6-Axis and 9-Axis IMU Consumption by Region (2021-2026) & (Million Units)

Table 15. World 6-Axis and 9-Axis IMU Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World 6-Axis and 9-Axis IMU Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key 6-Axis and 9-Axis IMU Producers in 2025

Table 18. World 6-Axis and 9-Axis IMU Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key 6-Axis and 9-Axis IMU Producers in 2025

Table 20. World 6-Axis and 9-Axis IMU Average Price by Manufacturer (2021-2026) &

(US\$/Unit)

Table 21. Global 6-Axis and 9-Axis IMU Company Evaluation Quadrant

Table 22. World 6-Axis and 9-Axis IMU Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and 6-Axis and 9-Axis IMU Production Site of Key Manufacturer

Table 24. 6-Axis and 9-Axis IMU Market: Company Product Type Footprint

Table 25. 6-Axis and 9-Axis IMU Market: Company Product Application Footprint

Table 26. 6-Axis and 9-Axis IMU Competitive Factors

Table 27. 6-Axis and 9-Axis IMU New Entrant and Capacity Expansion Plans

Table 28. 6-Axis and 9-Axis IMU Mergers & Acquisitions Activity

Table 29. United States VS China 6-Axis and 9-Axis IMU Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China 6-Axis and 9-Axis IMU Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China 6-Axis and 9-Axis IMU Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based 6-Axis and 9-Axis IMU Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers 6-Axis and 9-Axis IMU Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers 6-Axis and 9-Axis IMU Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers 6-Axis and 9-Axis IMU Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers 6-Axis and 9-Axis IMU Production Market Share (2021-2026)

Table 37. China Based 6-Axis and 9-Axis IMU Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers 6-Axis and 9-Axis IMU Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers 6-Axis and 9-Axis IMU Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers 6-Axis and 9-Axis IMU Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers 6-Axis and 9-Axis IMU Production Market Share (2021-2026)

Table 42. Rest of World Based 6-Axis and 9-Axis IMU Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers 6-Axis and 9-Axis IMU Production Value,

(2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers 6-Axis and 9-Axis IMU Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers 6-Axis and 9-Axis IMU Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers 6-Axis and 9-Axis IMU Production Market Share (2021-2026)

Table 47. World 6-Axis and 9-Axis IMU Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World 6-Axis and 9-Axis IMU Production by Type (2021-2026) & (Million Units)

Table 49. World 6-Axis and 9-Axis IMU Production by Type (2027-2032) & (Million Units)

Table 50. World 6-Axis and 9-Axis IMU Production Value by Type (2021-2026) & (USD Million)

Table 51. World 6-Axis and 9-Axis IMU Production Value by Type (2027-2032) & (USD Million)

Table 52. World 6-Axis and 9-Axis IMU Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World 6-Axis and 9-Axis IMU Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World 6-Axis and 9-Axis IMU Production Value by Product Role, (USD Million), 2021 & 2025 & 2032

Table 55. World 6-Axis and 9-Axis IMU Production by Product Role (2021-2026) & (Million Units)

Table 56. World 6-Axis and 9-Axis IMU Production by Product Role (2027-2032) & (Million Units)

Table 57. World 6-Axis and 9-Axis IMU Production Value by Product Role (2021-2026) & (USD Million)

Table 58. World 6-Axis and 9-Axis IMU Production Value by Product Role (2027-2032) & (USD Million)

Table 59. World 6-Axis and 9-Axis IMU Average Price by Product Role (2021-2026) & (US\$/Unit)

Table 60. World 6-Axis and 9-Axis IMU Average Price by Product Role (2027-2032) & (US\$/Unit)

Table 61. World 6-Axis and 9-Axis IMU Production Value by Delivery Form, (USD Million), 2021 & 2025 & 2032

Table 62. World 6-Axis and 9-Axis IMU Production by Delivery Form (2021-2026) & (Million Units)

Table 63. World 6-Axis and 9-Axis IMU Production by Delivery Form (2027-2032) & (Million Units)

Table 64. World 6-Axis and 9-Axis IMU Production Value by Delivery Form (2021-2026) & (USD Million)

Table 65. World 6-Axis and 9-Axis IMU Production Value by Delivery Form (2027-2032) & (USD Million)

Table 66. World 6-Axis and 9-Axis IMU Average Price by Delivery Form (2021-2026) & (US\$/Unit)

Table 67. World 6-Axis and 9-Axis IMU Average Price by Delivery Form (2027-2032) & (US\$/Unit)

Table 68. World 6-Axis and 9-Axis IMU Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World 6-Axis and 9-Axis IMU Production by Application (2021-2026) & (Million Units)

Table 70. World 6-Axis and 9-Axis IMU Production by Application (2027-2032) & (Million Units)

Table 71. World 6-Axis and 9-Axis IMU Production Value by Application (2021-2026) & (USD Million)

Table 72. World 6-Axis and 9-Axis IMU Production Value by Application (2027-2032) & (USD Million)

Table 73. World 6-Axis and 9-Axis IMU Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World 6-Axis and 9-Axis IMU Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. TDK Corporation Basic Information, Manufacturing Base and Competitors

Table 76. TDK Corporation Major Business

Table 77. TDK Corporation 6-Axis and 9-Axis IMU Product and Services

Table 78. TDK Corporation 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. TDK Corporation Recent Developments/Updates

Table 80. TDK Corporation Competitive Strengths & Weaknesses

Table 81. Robert Bosch GmbH Basic Information, Manufacturing Base and Competitors

Table 82. Robert Bosch GmbH Major Business

Table 83. Robert Bosch GmbH 6-Axis and 9-Axis IMU Product and Services

Table 84. Robert Bosch GmbH 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Robert Bosch GmbH Recent Developments/Updates

Table 86. Robert Bosch GmbH Competitive Strengths & Weaknesses

Table 87. Senodia Technologies Basic Information, Manufacturing Base and Competitors

Table 88. Senodia Technologies Major Business

Table 89. Senodia Technologies 6-Axis and 9-Axis IMU Product and Services

Table 90. Senodia Technologies 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Senodia Technologies Recent Developments/Updates

Table 92. Senodia Technologies Competitive Strengths & Weaknesses

Table 93. Analog Devices, Inc. Basic Information, Manufacturing Base and Competitors

Table 94. Analog Devices, Inc. Major Business

Table 95. Analog Devices, Inc. 6-Axis and 9-Axis IMU Product and Services

Table 96. Analog Devices, Inc. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Analog Devices, Inc. Recent Developments/Updates

Table 98. Analog Devices, Inc. Competitive Strengths & Weaknesses

Table 99. Aceinna, Inc. Basic Information, Manufacturing Base and Competitors

Table 100. Aceinna, Inc. Major Business

Table 101. Aceinna, Inc. 6-Axis and 9-Axis IMU Product and Services

Table 102. Aceinna, Inc. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Aceinna, Inc. Recent Developments/Updates

Table 104. Aceinna, Inc. Competitive Strengths & Weaknesses

Table 105. Adafruit Industries LLC Basic Information, Manufacturing Base and Competitors

Table 106. Adafruit Industries LLC Major Business

Table 107. Adafruit Industries LLC 6-Axis and 9-Axis IMU Product and Services

Table 108. Adafruit Industries LLC 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Adafruit Industries LLC Recent Developments/Updates

Table 110. Adafruit Industries LLC Competitive Strengths & Weaknesses

Table 111. Honeywell International Inc. Basic Information, Manufacturing Base and Competitors

Table 112. Honeywell International Inc. Major Business

Table 113. Honeywell International Inc. 6-Axis and 9-Axis IMU Product and Services

Table 114. Honeywell International Inc. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Honeywell International Inc. Recent Developments/Updates

Table 116. Honeywell International Inc. Competitive Strengths & Weaknesses

Table 117. M5Stack Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 118. M5Stack Technology Co., Ltd. Major Business

Table 119. M5Stack Technology Co., Ltd. 6-Axis and 9-Axis IMU Product and Services

Table 120. M5Stack Technology Co., Ltd. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. M5Stack Technology Co., Ltd. Recent Developments/Updates

Table 122. M5Stack Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 123. MEMSIC Semiconductor Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. MEMSIC Semiconductor Co., Ltd. Major Business

Table 125. MEMSIC Semiconductor Co., Ltd. 6-Axis and 9-Axis IMU Product and Services

Table 126. MEMSIC Semiconductor Co., Ltd. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. MEMSIC Semiconductor Co., Ltd. Recent Developments/Updates

Table 128. MEMSIC Semiconductor Co., Ltd. Competitive Strengths & Weaknesses

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

Table 130. Murata Manufacturing Co., Ltd. Major Business

Table 131. Murata Manufacturing Co., Ltd. 6-Axis and 9-Axis IMU Product and Services

Table 132. Murata Manufacturing Co., Ltd. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Murata Manufacturing Co., Ltd. Recent Developments/Updates

Table 134. Murata Manufacturing Co., Ltd. Competitive Strengths & Weaknesses

Table 135. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 136. STMicroelectronics Major Business

Table 137. STMicroelectronics 6-Axis and 9-Axis IMU Product and Services

Table 138. STMicroelectronics 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. STMicroelectronics Recent Developments/Updates

Table 140. STMicroelectronics Competitive Strengths & Weaknesses

Table 141. Seiko Epson Corporation Basic Information, Manufacturing Base and Competitors

Table 142. Seiko Epson Corporation Major Business

Table 143. Seiko Epson Corporation 6-Axis and 9-Axis IMU Product and Services

Table 144. Seiko Epson Corporation 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Seiko Epson Corporation Recent Developments/Updates

Table 146. Seiko Epson Corporation Competitive Strengths & Weaknesses

Table 147. Japan Aviation Electronics Industry, Ltd. Basic Information, Manufacturing Base and Competitors

Table 148. Japan Aviation Electronics Industry, Ltd. Major Business

Table 149. Japan Aviation Electronics Industry, Ltd. 6-Axis and 9-Axis IMU Product and Services

Table 150. Japan Aviation Electronics Industry, Ltd. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Japan Aviation Electronics Industry, Ltd. Recent Developments/Updates

Table 152. Japan Aviation Electronics Industry, Ltd. Competitive Strengths & Weaknesses

Table 153. Tamagawa Seiki Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 154. Tamagawa Seiki Co., Ltd. Major Business

Table 155. Tamagawa Seiki Co., Ltd. 6-Axis and 9-Axis IMU Product and Services

Table 156. Tamagawa Seiki Co., Ltd. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Tamagawa Seiki Co., Ltd. Recent Developments/Updates

Table 158. Tamagawa Seiki Co., Ltd. Competitive Strengths & Weaknesses

Table 159. W?rth Elektronik eiSos GmbH & Co. KG Basic Information, Manufacturing Base and Competitors

Table 160. W?rth Elektronik eiSos GmbH & Co. KG Major Business

Table 161. W?rth Elektronik eiSos GmbH & Co. KG 6-Axis and 9-Axis IMU Product and Services

Table 162. W?rth Elektronik eiSos GmbH & Co. KG 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. W?rth Elektronik eiSos GmbH & Co. KG Recent Developments/Updates

Table 164. W?rth Elektronik eiSos GmbH & Co. KG Competitive Strengths & Weaknesses

Table 165. VectorNav Technologies, LLC Basic Information, Manufacturing Base and Competitors

Table 166. VectorNav Technologies, LLC Major Business

Table 167. VectorNav Technologies, LLC 6-Axis and 9-Axis IMU Product and Services

Table 168. VectorNav Technologies, LLC 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. VectorNav Technologies, LLC Recent Developments/Updates

Table 170. VectorNav Technologies, LLC Competitive Strengths & Weaknesses

Table 171. Inertial Labs, Inc. Basic Information, Manufacturing Base and Competitors

Table 172. Inertial Labs, Inc. Major Business

Table 173. Inertial Labs, Inc. 6-Axis and 9-Axis IMU Product and Services

Table 174. Inertial Labs, Inc. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Inertial Labs, Inc. Recent Developments/Updates

Table 176. Inertial Labs, Inc. Competitive Strengths & Weaknesses

Table 177. SBG Systems Basic Information, Manufacturing Base and Competitors

Table 178. SBG Systems Major Business

Table 179. SBG Systems 6-Axis and 9-Axis IMU Product and Services

Table 180. SBG Systems 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. SBG Systems Recent Developments/Updates

Table 182. SBG Systems Competitive Strengths & Weaknesses

Table 183. Silicon Sensing Systems Limited Basic Information, Manufacturing Base and Competitors

Table 184. Silicon Sensing Systems Limited Major Business

Table 185. Silicon Sensing Systems Limited 6-Axis and 9-Axis IMU Product and Services

Table 186. Silicon Sensing Systems Limited 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Silicon Sensing Systems Limited Recent Developments/Updates

Table 188. Silicon Sensing Systems Limited Competitive Strengths & Weaknesses

Table 189. EMCORE Corporation Basic Information, Manufacturing Base and

Competitors

Table 190. EMCORE Corporation Major Business

Table 191. EMCORE Corporation 6-Axis and 9-Axis IMU Product and Services

Table 192. EMCORE Corporation 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. EMCORE Corporation Recent Developments/Updates

Table 194. EMCORE Corporation Competitive Strengths & Weaknesses

Table 195. FIBERPRO, Inc. Basic Information, Manufacturing Base and Competitors

Table 196. FIBERPRO, Inc. Major Business

Table 197. FIBERPRO, Inc. 6-Axis and 9-Axis IMU Product and Services

Table 198. FIBERPRO, Inc. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. FIBERPRO, Inc. Recent Developments/Updates

Table 200. FIBERPRO, Inc. Competitive Strengths & Weaknesses

Table 201. MicroInfinity Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 202. MicroInfinity Co., Ltd. Major Business

Table 203. MicroInfinity Co., Ltd. 6-Axis and 9-Axis IMU Product and Services

Table 204. MicroInfinity Co., Ltd. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. MicroInfinity Co., Ltd. Recent Developments/Updates

Table 206. MicroInfinity Co., Ltd. Competitive Strengths & Weaknesses

Table 207. QST Corporation Basic Information, Manufacturing Base and Competitors

Table 208. QST Corporation Major Business

Table 209. QST Corporation 6-Axis and 9-Axis IMU Product and Services

Table 210. QST Corporation 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. QST Corporation Recent Developments/Updates

Table 212. QST Corporation Competitive Strengths & Weaknesses

Table 213. HiPNUC Basic Information, Manufacturing Base and Competitors

Table 214. HiPNUC Major Business

Table 215. HiPNUC 6-Axis and 9-Axis IMU Product and Services

Table 216. HiPNUC 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. HiPNUC Recent Developments/Updates

Table 218. HiPNUC Competitive Strengths & Weaknesses

Table 219. Shaanxi ERICCO Inertial Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 220. Shaanxi ERICCO Inertial Technology Co., Ltd. Major Business

Table 221. Shaanxi ERICCO Inertial Technology Co., Ltd. 6-Axis and 9-Axis IMU Product and Services

Table 222. Shaanxi ERICCO Inertial Technology Co., Ltd. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 223. Shaanxi ERICCO Inertial Technology Co., Ltd. Recent Developments/Updates

Table 224. Shaanxi ERICCO Inertial Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 225. Advanced Wireless & Antenna Inc. Basic Information, Manufacturing Base and Competitors

Table 226. Advanced Wireless & Antenna Inc. Major Business

Table 227. Advanced Wireless & Antenna Inc. 6-Axis and 9-Axis IMU Product and Services

Table 228. Advanced Wireless & Antenna Inc. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 229. Advanced Wireless & Antenna Inc. Recent Developments/Updates

Table 230. Advanced Wireless & Antenna Inc. Competitive Strengths & Weaknesses

Table 231. Sea Land Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 232. Sea Land Technology Co., Ltd. Major Business

Table 233. Sea Land Technology Co., Ltd. 6-Axis and 9-Axis IMU Product and Services

Table 234. Sea Land Technology Co., Ltd. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 235. Sea Land Technology Co., Ltd. Recent Developments/Updates

Table 236. Sea Land Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 237. WitMotion Shenzhen Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 238. WitMotion Shenzhen Co., Ltd. Major Business

Table 239. WitMotion Shenzhen Co., Ltd. 6-Axis and 9-Axis IMU Product and Services

Table 240. WitMotion Shenzhen Co., Ltd. 6-Axis and 9-Axis IMU Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 241. WitMotion Shenzhen Co., Ltd. Recent Developments/Updates

Table 242. WitMotion Shenzhen Co., Ltd. Competitive Strengths & Weaknesses

Table 243. Global Key Players of 6-Axis and 9-Axis IMU Upstream (Raw Materials)

Table 244. Global 6-Axis and 9-Axis IMU Typical Customers

Table 245. 6-Axis and 9-Axis IMU Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. 6-Axis and 9-Axis IMU Picture

Figure 2. World 6-Axis and 9-Axis IMU Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World 6-Axis and 9-Axis IMU Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World 6-Axis and 9-Axis IMU Production (2021-2032) & (Million Units)

Figure 5. World 6-Axis and 9-Axis IMU Average Price (2021-2032) & (US\$/Unit)

Figure 6. World 6-Axis and 9-Axis IMU Production Value Market Share by Region (2021-2032)

Figure 7. World 6-Axis and 9-Axis IMU Production Market Share by Region (2021-2032)

Figure 8. North America 6-Axis and 9-Axis IMU Production (2021-2032) & (Million Units)

Figure 9. Europe 6-Axis and 9-Axis IMU Production (2021-2032) & (Million Units)

Figure 10. China 6-Axis and 9-Axis IMU Production (2021-2032) & (Million Units)

Figure 11. Japan 6-Axis and 9-Axis IMU Production (2021-2032) & (Million Units)

Figure 12. South Korea 6-Axis and 9-Axis IMU Production (2021-2032) & (Million Units)

Figure 13. China Taiwan 6-Axis and 9-Axis IMU Production (2021-2032) & (Million Units)

Figure 14. 6-Axis and 9-Axis IMU Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World 6-Axis and 9-Axis IMU Consumption (2021-2032) & (Million Units)

Figure 17. World 6-Axis and 9-Axis IMU Consumption Market Share by Region (2021-2032)

Figure 18. United States 6-Axis and 9-Axis IMU Consumption (2021-2032) & (Million Units)

Figure 19. China 6-Axis and 9-Axis IMU Consumption (2021-2032) & (Million Units)

Figure 20. Europe 6-Axis and 9-Axis IMU Consumption (2021-2032) & (Million Units)

Figure 21. Japan 6-Axis and 9-Axis IMU Consumption (2021-2032) & (Million Units)

Figure 22. South Korea 6-Axis and 9-Axis IMU Consumption (2021-2032) & (Million Units)

Figure 23. ASEAN 6-Axis and 9-Axis IMU Consumption (2021-2032) & (Million Units)

Figure 24. India 6-Axis and 9-Axis IMU Consumption (2021-2032) & (Million Units)

Figure 25. Producer Shipments of 6-Axis and 9-Axis IMU by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for 6-Axis and 9-Axis IMU Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for 6-Axis and 9-Axis IMU Markets in 2025

Figure 28. United States VS China: 6-Axis and 9-Axis IMU Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: 6-Axis and 9-Axis IMU Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: 6-Axis and 9-Axis IMU Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers 6-Axis and 9-Axis IMU Production Market Share 2025

Figure 32. China Based Manufacturers 6-Axis and 9-Axis IMU Production Market Share 2025

Figure 33. Rest of World Based Manufacturers 6-Axis and 9-Axis IMU Production Market Share 2025

Figure 34. World 6-Axis and 9-Axis IMU Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World 6-Axis and 9-Axis IMU Production Value Market Share by Type in 2025

Figure 36. 6-Axis

Figure 37. 9-Axis

Figure 38. World 6-Axis and 9-Axis IMU Production Market Share by Type (2021-2032)

Figure 39. World 6-Axis and 9-Axis IMU Production Value Market Share by Type (2021-2032)

Figure 40. World 6-Axis and 9-Axis IMU Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World 6-Axis and 9-Axis IMU Production Value by Product Role, (USD Million), 2021 & 2025 & 2032

Figure 42. World 6-Axis and 9-Axis IMU Production Value Market Share by Product Role in 2025

Figure 43. Pure IMU

Figure 44. IMU with AHRS

Figure 45. IMU with INS

Figure 46. World 6-Axis and 9-Axis IMU Production Market Share by Product Role (2021-2032)

Figure 47. World 6-Axis and 9-Axis IMU Production Value Market Share by Product Role (2021-2032)

Figure 48. World 6-Axis and 9-Axis IMU Average Price by Product Role (2021-2032) & (US\$/Unit)

Figure 49. World 6-Axis and 9-Axis IMU Production Value by Delivery Form, (USD

Million), 2021 & 2025 & 2032

Figure 50. World 6-Axis and 9-Axis IMU Production Value Market Share by Delivery Form in 2025

Figure 51. Chip-Level Device

Figure 52. Board-Level or OEM Module

Figure 53. Sealed Industrial Module

Figure 54. Ruggedized High-End Unit

Figure 55. World 6-Axis and 9-Axis IMU Production Market Share by Delivery Form (2021-2032)

Figure 56. World 6-Axis and 9-Axis IMU Production Value Market Share by Delivery Form (2021-2032)

Figure 57. World 6-Axis and 9-Axis IMU Average Price by Delivery Form (2021-2032) & (US\$/Unit)

Figure 58. World 6-Axis and 9-Axis IMU Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World 6-Axis and 9-Axis IMU Production Value Market Share by Application in 2025

Figure 60. Consumption Electronics

Figure 61. Smart Appliances

Figure 62. Drone

Figure 63. IIoT

Figure 64. Robot

Figure 65. Automobile

Figure 66. Others

Figure 67. World 6-Axis and 9-Axis IMU Production Market Share by Application (2021-2032)

Figure 68. World 6-Axis and 9-Axis IMU Production Value Market Share by Application (2021-2032)

Figure 69. World 6-Axis and 9-Axis IMU Average Price by Application (2021-2032) & (US\$/Unit)

Figure 70. 6-Axis and 9-Axis IMU Industry Chain

Figure 71. 6-Axis and 9-Axis IMU Procurement Model

Figure 72. 6-Axis and 9-Axis IMU Sales Model

Figure 73. 6-Axis and 9-Axis IMU Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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