

Global MEMS IMU Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MEMS IMU Sensor market size is expected to reach \$ 2508 million by 2032, rising at a market growth of 10.5% CAGR during the forecast period (2026-2032).

MEMS IMU sensors are motion-sensing devices built on micro-electro-mechanical systems technology that integrate a three-axis accelerometer and a three-axis gyroscope, with some products further adding a magnetometer, temperature compensation, embedded algorithms, or sensor-fusion capability into chip-level, system-in-package, or module-level inertial measurement devices. Their essential role is to continuously output angular rate, linear acceleration, and derived attitude, inclination, heading, or motion-state information when external positioning signals are weak, operating dynamics are complex, or real-time response is critical, thereby enabling action recognition, attitude stabilization, navigation assistance, platform control, and safety redundancy. Based on official product-page positioning, this category has expanded from early consumer applications such as smartphones, wearables, game controllers, and optical image stabilization into industrial robots, drones, construction machinery, surveying equipment, agricultural autopilots, vehicle chassis control, ADAS, navigation in GNSS-denied environments, and aerospace and defense platforms. From a technology perspective, the industry is evolving simultaneously toward higher integration, lower power consumption, stronger vibration and temperature-drift resistance, higher precision, and greater embedded intelligence, spanning both low-power 6-axis IMUs for high-volume consumer markets and high-performance, high-reliability, wide-temperature, low-drift MEMS IMU modules for industrial and tactical scenarios. In delivery terms, the market includes both single-chip and SiP devices for OEM integration and fully calibrated, compensated, interface-ready modules that can be deployed directly in end equipment, making MEMS IMU sensors a foundational general-purpose component connecting sensing, control, and navigation.

The core logic of the MEMS IMU sensor industry is shifting from that of a single consumer-electronics component toward a foundational motion-sensing platform spanning consumer, automotive, industrial, and defense scenarios. Historically, the largest volume base came from smartphones, wearables, and gaming interaction devices, and leading vendors continue to iterate around low power, small footprint, and high integration. However, based on how official product pages position these devices, the center of gravity has clearly expanded into robots, construction equipment, agricultural autopilots, drones, surveying systems, and automotive electronics, all of which place greater emphasis on stability and reliability. This means MEMS IMUs are no longer merely devices for improving user experience; they are increasingly taking on higher-value functions such as control-loop support, attitude stabilization, navigation assistance, and safety redundancy. As these new scenarios demand stronger temperature-drift control, vibration resistance, wide-temperature performance, long-cycle calibration, and real-time output, both value per unit and customer stickiness have room to rise. Future growth will therefore rely increasingly on application depth rather than pure shipment expansion.

From a technology and competitive-structure perspective, the MEMS IMU industry is upgrading in two directions simultaneously: a high-integration route serving consumer and automotive markets, and a high-performance, high-reliability route serving industrial and tactical applications. The former emphasizes SiP integration, embedded AI, power optimization, and system-level packaging, and representative vendors have already pushed embedded processing, sensor fusion, and scenario recognition capabilities down to the device layer. The latter centers on lower drift, lower noise, wider temperature compensation, factory calibration, and superior SWaP-C performance, with some products explicitly targeting replacement of traditional FOG-grade solutions. At the same time, process technology is not converging into a single path. Silicon MEMS remains the dominant high-volume mainstream, while quartz MEMS and similar approaches retain competitiveness in high-stability segments. As a result, future vendor competition will not be determined solely by point specifications, but increasingly by the full combination of material and process know-how, calibration and compensation capability, embedded algorithms, software toolchains, and system-level validation. The moat of leading companies is therefore likely to deepen further.

From the perspective of regional structure and market outlook, the MEMS IMU industry has both globally distributed supply and globally distributed demand. Europe, Japan, and the United States still hold advantages in high-end industrial, aerospace-defense, and some core automotive products, while Chinese vendors are rapidly expanding their

presence under the combined drivers of automotive intelligence, robotics, and domestic substitution. This is creating a structure in which high-end performance continues to move upward, mid-range applications scale quickly, and regional supply chains become more diversified. On the demand side, multiple growth engines are running in parallel: automotive electronics are being pushed by functional-safety frameworks and in-vehicle sensing needs; industrial automation and robotics are increasing the penetration of medium- to high-precision inertial devices; and unmanned systems plus GNSS-denied navigation are opening higher-ASP opportunities for high-performance MEMS IMUs. Based on external market-research estimates, the MEMS-based IMU market is expected to grow from USD 1.21 billion in 2025 to USD 1.34 billion in 2026, indicating that the industry remains in a relatively fast expansion phase. If leading vendors continue to improve reliability, intelligence, and system-level delivery capability, the sector outlook for the next several years remains constructive.

This report studies the global MEMS IMU Sensor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global MEMS IMU Sensor total production and demand, 2021-2032, (Million Units)

Global MEMS IMU Sensor total production value, 2021-2032, (USD Million)

Global MEMS IMU Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global MEMS IMU Sensor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: MEMS IMU Sensor domestic production, consumption, key domestic manufacturers and share

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

Global MEMS IMU Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global MEMS IMU Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global MEMS IMU Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bosch, STMicroelectronics, ADI, Honeywell International Inc., Silicon Sensing Systems Ltd, Safran Electronics & Defense, Movella Inc., ACEINNA, Inc., SBG Systems, Memsense LLC, 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 MEMS IMU Sensor 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 MEMS IMU Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MEMS IMU Sensor Market, Segmentation by Type:

Traditional Sensor

High Performance Sensor

Global MEMS IMU Sensor Market, Segmentation by Delivery Form:

Single-Chip Or SiP

OEM Board-Level Module

Sealed Industrial Module

Ruggedized Tactical Unit

Global MEMS IMU Sensor Market, Segmentation by Product Role:

Pure IMU

Fusion IMU

IMU with AHRS

Global MEMS IMU Sensor Market, Segmentation by Application:

Automobile

Medical Equipment

Cosumer Electronic

Robot

Drone

Aerospace

Military Industrial

Others

Companies Profiled:

Bosch

STMicroelectronics

ADI

Honeywell International Inc.

Silicon Sensing Systems Ltd

Safran Electronics & Defense

Movella Inc.

ACEINNA, Inc.

SBG Systems

Memsense LLC

Inertial Labs, Inc.

Murata Manufacturing Co., Ltd.

TDK Corporation

Seiko Epson Corporation

Tamagawa Seiki Co., Ltd.

Japan Aviation Electronics Industry, Ltd.

MICROINFINITY Co., Ltd.

QST Corporation

Senodia Technologies (Shaoxing) Co., Ltd.

Forsense (Shanghai) Technology Co., Ltd.

MEMSIC Semiconductor Co., Ltd.

Hebei MT Electronic Technology Co., Ltd.

Guangzhou ASENSING Electronics Technology Co., Ltd.

Sea Land Technology Co., Ltd.

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

Production Site (States, Country)

4.4.2 United States Based Manufacturers MEMS IMU Sensor Production Value (2021-2026)

4.4.3 United States Based Manufacturers MEMS IMU Sensor Production (2021-2026)

4.5 China Based MEMS IMU Sensor Manufacturers and Market Share

4.5.1 China Based MEMS IMU Sensor Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers MEMS IMU Sensor Production Value (2021-2026)

4.5.3 China Based Manufacturers MEMS IMU Sensor Production (2021-2026)

4.6 Rest of World Based MEMS IMU Sensor Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based MEMS IMU Sensor Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers MEMS IMU Sensor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers MEMS IMU Sensor Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World MEMS IMU Sensor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Traditional Sensor

5.2.2 High Performance Sensor

5.3 Market Segment by Type

5.3.1 World MEMS IMU Sensor Production by Type (2021-2032)

5.3.2 World MEMS IMU Sensor Production Value by Type (2021-2032)

5.3.3 World MEMS IMU Sensor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DELIVERY FORM

6.1 World MEMS IMU Sensor Market Size Overview by Delivery Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Delivery Form

6.2.1 Single-Chip Or SiP

6.2.2 OEM Board-Level Module

6.2.3 Sealed Industrial Module

6.2.4 Ruggedized Tactical Unit

6.3 Market Segment by Delivery Form

6.3.1 World MEMS IMU Sensor Production by Delivery Form (2021-2032)

6.3.2 World MEMS IMU Sensor Production Value by Delivery Form (2021-2032)

6.3.3 World MEMS IMU Sensor Average Price by Delivery Form (2021-2032)

7 MARKET ANALYSIS BY PRODUCT ROLE

7.1 World MEMS IMU Sensor Market Size Overview by Product Role: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Product Role

7.2.1 Pure IMU

7.2.2 Fusion IMU

7.2.3 IMU with AHRS

7.3 Market Segment by Product Role

7.3.1 World MEMS IMU Sensor Production by Product Role (2021-2032)

7.3.2 World MEMS IMU Sensor Production Value by Product Role (2021-2032)

7.3.3 World MEMS IMU Sensor Average Price by Product Role (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World MEMS IMU Sensor Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automobile

8.2.2 Medical Equipment

8.2.3 Consumer Electronic

8.2.4 Robot

8.2.5 Drone

8.2.6 Aerospace

8.2.7 Military Industrial

8.2.8 Others

8.3 Market Segment by Application

8.3.1 World MEMS IMU Sensor Production by Application (2021-2032)

8.3.2 World MEMS IMU Sensor Production Value by Application (2021-2032)

8.3.3 World MEMS IMU Sensor Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Bosch

9.1.1 Bosch Details

9.1.2 Bosch Major Business

- 9.1.3 Bosch MEMS IMU Sensor Product and Services
- 9.1.4 Bosch MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Bosch Recent Developments/Updates
- 9.1.6 Bosch Competitive Strengths & Weaknesses
- 9.2 STMicroelectronics
 - 9.2.1 STMicroelectronics Details
 - 9.2.2 STMicroelectronics Major Business
 - 9.2.3 STMicroelectronics MEMS IMU Sensor Product and Services
 - 9.2.4 STMicroelectronics MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 STMicroelectronics Recent Developments/Updates
 - 9.2.6 STMicroelectronics Competitive Strengths & Weaknesses
- 9.3 ADI
 - 9.3.1 ADI Details
 - 9.3.2 ADI Major Business
 - 9.3.3 ADI MEMS IMU Sensor Product and Services
 - 9.3.4 ADI MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 ADI Recent Developments/Updates
 - 9.3.6 ADI Competitive Strengths & Weaknesses
- 9.4 Honeywell International Inc.
 - 9.4.1 Honeywell International Inc. Details
 - 9.4.2 Honeywell International Inc. Major Business
 - 9.4.3 Honeywell International Inc. MEMS IMU Sensor Product and Services
 - 9.4.4 Honeywell International Inc. MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Honeywell International Inc. Recent Developments/Updates
 - 9.4.6 Honeywell International Inc. Competitive Strengths & Weaknesses
- 9.5 Silicon Sensing Systems Ltd
 - 9.5.1 Silicon Sensing Systems Ltd Details
 - 9.5.2 Silicon Sensing Systems Ltd Major Business
 - 9.5.3 Silicon Sensing Systems Ltd MEMS IMU Sensor Product and Services
 - 9.5.4 Silicon Sensing Systems Ltd MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Silicon Sensing Systems Ltd Recent Developments/Updates
 - 9.5.6 Silicon Sensing Systems Ltd Competitive Strengths & Weaknesses
- 9.6 Safran Electronics & Defense
 - 9.6.1 Safran Electronics & Defense Details

- 9.6.2 Safran Electronics & Defense Major Business
- 9.6.3 Safran Electronics & Defense MEMS IMU Sensor Product and Services
- 9.6.4 Safran Electronics & Defense MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Safran Electronics & Defense Recent Developments/Updates
- 9.6.6 Safran Electronics & Defense Competitive Strengths & Weaknesses
- 9.7 Movella Inc.
 - 9.7.1 Movella Inc. Details
 - 9.7.2 Movella Inc. Major Business
 - 9.7.3 Movella Inc. MEMS IMU Sensor Product and Services
 - 9.7.4 Movella Inc. MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Movella Inc. Recent Developments/Updates
 - 9.7.6 Movella Inc. Competitive Strengths & Weaknesses
- 9.8 ACEINNA, Inc.
 - 9.8.1 ACEINNA, Inc. Details
 - 9.8.2 ACEINNA, Inc. Major Business
 - 9.8.3 ACEINNA, Inc. MEMS IMU Sensor Product and Services
 - 9.8.4 ACEINNA, Inc. MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 ACEINNA, Inc. Recent Developments/Updates
 - 9.8.6 ACEINNA, Inc. Competitive Strengths & Weaknesses
- 9.9 SBG Systems
 - 9.9.1 SBG Systems Details
 - 9.9.2 SBG Systems Major Business
 - 9.9.3 SBG Systems MEMS IMU Sensor Product and Services
 - 9.9.4 SBG Systems MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 SBG Systems Recent Developments/Updates
 - 9.9.6 SBG Systems Competitive Strengths & Weaknesses
- 9.10 Memsense LLC
 - 9.10.1 Memsense LLC Details
 - 9.10.2 Memsense LLC Major Business
 - 9.10.3 Memsense LLC MEMS IMU Sensor Product and Services
 - 9.10.4 Memsense LLC MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Memsense LLC Recent Developments/Updates
 - 9.10.6 Memsense LLC Competitive Strengths & Weaknesses
- 9.11 Inertial Labs, Inc.

- 9.11.1 Inertial Labs, Inc. Details
- 9.11.2 Inertial Labs, Inc. Major Business
- 9.11.3 Inertial Labs, Inc. MEMS IMU Sensor Product and Services
- 9.11.4 Inertial Labs, Inc. MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Inertial Labs, Inc. Recent Developments/Updates
- 9.11.6 Inertial Labs, Inc. Competitive Strengths & Weaknesses
- 9.12 Murata Manufacturing Co., Ltd.
- 9.12.1 Murata Manufacturing Co., Ltd. Details
- 9.12.2 Murata Manufacturing Co., Ltd. Major Business
- 9.12.3 Murata Manufacturing Co., Ltd. MEMS IMU Sensor Product and Services
- 9.12.4 Murata Manufacturing Co., Ltd. MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Murata Manufacturing Co., Ltd. Recent Developments/Updates
- 9.12.6 Murata Manufacturing Co., Ltd. Competitive Strengths & Weaknesses
- 9.13 TDK Corporation
- 9.13.1 TDK Corporation Details
- 9.13.2 TDK Corporation Major Business
- 9.13.3 TDK Corporation MEMS IMU Sensor Product and Services
- 9.13.4 TDK Corporation MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 TDK Corporation Recent Developments/Updates
- 9.13.6 TDK Corporation Competitive Strengths & Weaknesses
- 9.14 Seiko Epson Corporation
- 9.14.1 Seiko Epson Corporation Details
- 9.14.2 Seiko Epson Corporation Major Business
- 9.14.3 Seiko Epson Corporation MEMS IMU Sensor Product and Services
- 9.14.4 Seiko Epson Corporation MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.14.5 Seiko Epson Corporation Recent Developments/Updates
- 9.14.6 Seiko Epson Corporation Competitive Strengths & Weaknesses
- 9.15 Tamagawa Seiki Co., Ltd.
- 9.15.1 Tamagawa Seiki Co., Ltd. Details
- 9.15.2 Tamagawa Seiki Co., Ltd. Major Business
- 9.15.3 Tamagawa Seiki Co., Ltd. MEMS IMU Sensor Product and Services
- 9.15.4 Tamagawa Seiki Co., Ltd. MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.15.5 Tamagawa Seiki Co., Ltd. Recent Developments/Updates
- 9.15.6 Tamagawa Seiki Co., Ltd. Competitive Strengths & Weaknesses

- 9.16 Japan Aviation Electronics Industry, Ltd.
 - 9.16.1 Japan Aviation Electronics Industry, Ltd. Details
 - 9.16.2 Japan Aviation Electronics Industry, Ltd. Major Business
 - 9.16.3 Japan Aviation Electronics Industry, Ltd. MEMS IMU Sensor Product and Services
 - 9.16.4 Japan Aviation Electronics Industry, Ltd. MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Japan Aviation Electronics Industry, Ltd. Recent Developments/Updates
 - 9.16.6 Japan Aviation Electronics Industry, Ltd. Competitive Strengths & Weaknesses
- 9.17 MICROINFINITY Co., Ltd.
 - 9.17.1 MICROINFINITY Co., Ltd. Details
 - 9.17.2 MICROINFINITY Co., Ltd. Major Business
 - 9.17.3 MICROINFINITY Co., Ltd. MEMS IMU Sensor Product and Services
 - 9.17.4 MICROINFINITY Co., Ltd. MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 MICROINFINITY Co., Ltd. Recent Developments/Updates
 - 9.17.6 MICROINFINITY Co., Ltd. Competitive Strengths & Weaknesses
- 9.18 QST Corporation
 - 9.18.1 QST Corporation Details
 - 9.18.2 QST Corporation Major Business
 - 9.18.3 QST Corporation MEMS IMU Sensor Product and Services
 - 9.18.4 QST Corporation MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 QST Corporation Recent Developments/Updates
 - 9.18.6 QST Corporation Competitive Strengths & Weaknesses
- 9.19 Senodia Technologies (Shaoxing) Co., Ltd.
 - 9.19.1 Senodia Technologies (Shaoxing) Co., Ltd. Details
 - 9.19.2 Senodia Technologies (Shaoxing) Co., Ltd. Major Business
 - 9.19.3 Senodia Technologies (Shaoxing) Co., Ltd. MEMS IMU Sensor Product and Services
 - 9.19.4 Senodia Technologies (Shaoxing) Co., Ltd. MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Senodia Technologies (Shaoxing) Co., Ltd. Recent Developments/Updates
 - 9.19.6 Senodia Technologies (Shaoxing) Co., Ltd. Competitive Strengths & Weaknesses
- 9.20 Forsense (Shanghai) Technology Co., Ltd.
 - 9.20.1 Forsense (Shanghai) Technology Co., Ltd. Details
 - 9.20.2 Forsense (Shanghai) Technology Co., Ltd. Major Business
 - 9.20.3 Forsense (Shanghai) Technology Co., Ltd. MEMS IMU Sensor Product and

Services

9.20.4 Forsense (Shanghai) Technology Co., Ltd. MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 Forsense (Shanghai) Technology Co., Ltd. Recent Developments/Updates

9.20.6 Forsense (Shanghai) Technology Co., Ltd. Competitive Strengths & Weaknesses

9.21 MEMSIC Semiconductor Co., Ltd.

9.21.1 MEMSIC Semiconductor Co., Ltd. Details

9.21.2 MEMSIC Semiconductor Co., Ltd. Major Business

9.21.3 MEMSIC Semiconductor Co., Ltd. MEMS IMU Sensor Product and Services

9.21.4 MEMSIC Semiconductor Co., Ltd. MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

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

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

9.22 Hebei MT Electronic Technology Co., Ltd.

9.22.1 Hebei MT Electronic Technology Co., Ltd. Details

9.22.2 Hebei MT Electronic Technology Co., Ltd. Major Business

9.22.3 Hebei MT Electronic Technology Co., Ltd. MEMS IMU Sensor Product and Services

9.22.4 Hebei MT Electronic Technology Co., Ltd. MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.22.5 Hebei MT Electronic Technology Co., Ltd. Recent Developments/Updates

9.22.6 Hebei MT Electronic Technology Co., Ltd. Competitive Strengths & Weaknesses

9.23 Guangzhou ASENSING Electronics Technology Co., Ltd.

9.23.1 Guangzhou ASENSING Electronics Technology Co., Ltd. Details

9.23.2 Guangzhou ASENSING Electronics Technology Co., Ltd. Major Business

9.23.3 Guangzhou ASENSING Electronics Technology Co., Ltd. MEMS IMU Sensor Product and Services

9.23.4 Guangzhou ASENSING Electronics Technology Co., Ltd. MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.23.5 Guangzhou ASENSING Electronics Technology Co., Ltd. Recent Developments/Updates

9.23.6 Guangzhou ASENSING Electronics Technology Co., Ltd. Competitive Strengths & Weaknesses

9.24 Sea Land Technology Co., Ltd.

9.24.1 Sea Land Technology Co., Ltd. Details

9.24.2 Sea Land Technology Co., Ltd. Major Business

9.24.3 Sea Land Technology Co., Ltd. MEMS IMU Sensor Product and Services

9.24.4 Sea Land Technology Co., Ltd. MEMS IMU Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.24.5 Sea Land Technology Co., Ltd. Recent Developments/Updates

9.24.6 Sea Land Technology Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 MEMS IMU Sensor Industry Chain

10.2 MEMS IMU Sensor Upstream Analysis

10.2.1 MEMS IMU Sensor Core Raw Materials

10.2.2 Main Manufacturers of MEMS IMU Sensor Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 MEMS IMU Sensor Production Mode

10.6 MEMS IMU Sensor Procurement Model

10.7 MEMS IMU Sensor Industry Sales Model and Sales Channels

10.7.1 MEMS IMU Sensor Sales Model

10.7.2 MEMS IMU Sensor 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 MEMS IMU Sensor Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World MEMS IMU Sensor Production Value by Region (2021-2026) & (USD Million)
- Table 3. World MEMS IMU Sensor Production Value by Region (2027-2032) & (USD Million)
- Table 4. World MEMS IMU Sensor Production Value Market Share by Region (2021-2026)
- Table 5. World MEMS IMU Sensor Production Value Market Share by Region (2027-2032)
- Table 6. World MEMS IMU Sensor Production by Region (2021-2026) & (Million Units)
- Table 7. World MEMS IMU Sensor Production by Region (2027-2032) & (Million Units)
- Table 8. World MEMS IMU Sensor Production Market Share by Region (2021-2026)
- Table 9. World MEMS IMU Sensor Production Market Share by Region (2027-2032)
- Table 10. World MEMS IMU Sensor Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World MEMS IMU Sensor Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. MEMS IMU Sensor Major Market Trends
- Table 13. World MEMS IMU Sensor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)
- Table 14. World MEMS IMU Sensor Consumption by Region (2021-2026) & (Million Units)
- Table 15. World MEMS IMU Sensor Consumption Forecast by Region (2027-2032) & (Million Units)
- Table 16. World MEMS IMU Sensor Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key MEMS IMU Sensor Producers in 2025
- Table 18. World MEMS IMU Sensor Production by Manufacturer (2021-2026) & (Million Units)
- Table 19. Production Market Share of Key MEMS IMU Sensor Producers in 2025
- Table 20. World MEMS IMU Sensor Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global MEMS IMU Sensor Company Evaluation Quadrant
- Table 22. World MEMS IMU Sensor Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and MEMS IMU Sensor Production Site of Key Manufacturer

Table 24. MEMS IMU Sensor Market: Company Product Type Footprint

Table 25. MEMS IMU Sensor Market: Company Product Application Footprint

Table 26. MEMS IMU Sensor Competitive Factors

Table 27. MEMS IMU Sensor New Entrant and Capacity Expansion Plans

Table 28. MEMS IMU Sensor Mergers & Acquisitions Activity

Table 29. United States VS China MEMS IMU Sensor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China MEMS IMU Sensor Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China MEMS IMU Sensor Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based MEMS IMU Sensor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers MEMS IMU Sensor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers MEMS IMU Sensor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers MEMS IMU Sensor Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers MEMS IMU Sensor Production Market Share (2021-2026)

Table 37. China Based MEMS IMU Sensor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers MEMS IMU Sensor Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers MEMS IMU Sensor Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers MEMS IMU Sensor Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers MEMS IMU Sensor Production Market Share (2021-2026)

Table 42. Rest of World Based MEMS IMU Sensor Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers MEMS IMU Sensor Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers MEMS IMU Sensor Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers MEMS IMU Sensor Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers MEMS IMU Sensor Production Market Share (2021-2026)

Table 47. World MEMS IMU Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World MEMS IMU Sensor Production by Type (2021-2026) & (Million Units)

Table 49. World MEMS IMU Sensor Production by Type (2027-2032) & (Million Units)

Table 50. World MEMS IMU Sensor Production Value by Type (2021-2026) & (USD Million)

Table 51. World MEMS IMU Sensor Production Value by Type (2027-2032) & (USD Million)

Table 52. World MEMS IMU Sensor Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World MEMS IMU Sensor Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World MEMS IMU Sensor Production Value by Delivery Form, (USD Million), 2021 & 2025 & 2032

Table 55. World MEMS IMU Sensor Production by Delivery Form (2021-2026) & (Million Units)

Table 56. World MEMS IMU Sensor Production by Delivery Form (2027-2032) & (Million Units)

Table 57. World MEMS IMU Sensor Production Value by Delivery Form (2021-2026) & (USD Million)

Table 58. World MEMS IMU Sensor Production Value by Delivery Form (2027-2032) & (USD Million)

Table 59. World MEMS IMU Sensor Average Price by Delivery Form (2021-2026) & (US\$/Unit)

Table 60. World MEMS IMU Sensor Average Price by Delivery Form (2027-2032) & (US\$/Unit)

Table 61. World MEMS IMU Sensor Production Value by Product Role, (USD Million), 2021 & 2025 & 2032

Table 62. World MEMS IMU Sensor Production by Product Role (2021-2026) & (Million Units)

Table 63. World MEMS IMU Sensor Production by Product Role (2027-2032) & (Million Units)

Table 64. World MEMS IMU Sensor Production Value by Product Role (2021-2026) & (USD Million)

Table 65. World MEMS IMU Sensor Production Value by Product Role (2027-2032) & (USD Million)

Table 66. World MEMS IMU Sensor Average Price by Product Role (2021-2026) & (US\$/Unit)

Table 67. World MEMS IMU Sensor Average Price by Product Role (2027-2032) &

(US\$/Unit)

Table 68. World MEMS IMU Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World MEMS IMU Sensor Production by Application (2021-2026) & (Million Units)

Table 70. World MEMS IMU Sensor Production by Application (2027-2032) & (Million Units)

Table 71. World MEMS IMU Sensor Production Value by Application (2021-2026) & (USD Million)

Table 72. World MEMS IMU Sensor Production Value by Application (2027-2032) & (USD Million)

Table 73. World MEMS IMU Sensor Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World MEMS IMU Sensor Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Bosch Basic Information, Manufacturing Base and Competitors

Table 76. Bosch Major Business

Table 77. Bosch MEMS IMU Sensor Product and Services

Table 78. Bosch MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Bosch Recent Developments/Updates

Table 80. Bosch Competitive Strengths & Weaknesses

Table 81. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 82. STMicroelectronics Major Business

Table 83. STMicroelectronics MEMS IMU Sensor Product and Services

Table 84. STMicroelectronics MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. STMicroelectronics Recent Developments/Updates

Table 86. STMicroelectronics Competitive Strengths & Weaknesses

Table 87. ADI Basic Information, Manufacturing Base and Competitors

Table 88. ADI Major Business

Table 89. ADI MEMS IMU Sensor Product and Services

Table 90. ADI MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. ADI Recent Developments/Updates

Table 92. ADI Competitive Strengths & Weaknesses

Table 93. Honeywell International Inc. Basic Information, Manufacturing Base and Competitors

Table 94. Honeywell International Inc. Major Business

Table 95. Honeywell International Inc. MEMS IMU Sensor Product and Services

Table 96. Honeywell International Inc. MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Honeywell International Inc. Recent Developments/Updates

Table 98. Honeywell International Inc. Competitive Strengths & Weaknesses

Table 99. Silicon Sensing Systems Ltd Basic Information, Manufacturing Base and Competitors

Table 100. Silicon Sensing Systems Ltd Major Business

Table 101. Silicon Sensing Systems Ltd MEMS IMU Sensor Product and Services

Table 102. Silicon Sensing Systems Ltd MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Silicon Sensing Systems Ltd Recent Developments/Updates

Table 104. Silicon Sensing Systems Ltd Competitive Strengths & Weaknesses

Table 105. Safran Electronics & Defense Basic Information, Manufacturing Base and Competitors

Table 106. Safran Electronics & Defense Major Business

Table 107. Safran Electronics & Defense MEMS IMU Sensor Product and Services

Table 108. Safran Electronics & Defense MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Safran Electronics & Defense Recent Developments/Updates

Table 110. Safran Electronics & Defense Competitive Strengths & Weaknesses

Table 111. Movella Inc. Basic Information, Manufacturing Base and Competitors

Table 112. Movella Inc. Major Business

Table 113. Movella Inc. MEMS IMU Sensor Product and Services

Table 114. Movella Inc. MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Movella Inc. Recent Developments/Updates

Table 116. Movella Inc. Competitive Strengths & Weaknesses

Table 117. ACEINNA, Inc. Basic Information, Manufacturing Base and Competitors

Table 118. ACEINNA, Inc. Major Business

Table 119. ACEINNA, Inc. MEMS IMU Sensor Product and Services

Table 120. ACEINNA, Inc. MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. ACEINNA, Inc. Recent Developments/Updates

Table 122. ACEINNA, Inc. Competitive Strengths & Weaknesses
Table 123. SBG Systems Basic Information, Manufacturing Base and Competitors
Table 124. SBG Systems Major Business
Table 125. SBG Systems MEMS IMU Sensor Product and Services
Table 126. SBG Systems MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. SBG Systems Recent Developments/Updates
Table 128. SBG Systems Competitive Strengths & Weaknesses
Table 129. Memsense LLC Basic Information, Manufacturing Base and Competitors
Table 130. Memsense LLC Major Business
Table 131. Memsense LLC MEMS IMU Sensor Product and Services
Table 132. Memsense LLC MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Memsense LLC Recent Developments/Updates
Table 134. Memsense LLC Competitive Strengths & Weaknesses
Table 135. Inertial Labs, Inc. Basic Information, Manufacturing Base and Competitors
Table 136. Inertial Labs, Inc. Major Business
Table 137. Inertial Labs, Inc. MEMS IMU Sensor Product and Services
Table 138. Inertial Labs, Inc. MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Inertial Labs, Inc. Recent Developments/Updates
Table 140. Inertial Labs, Inc. Competitive Strengths & Weaknesses
Table 141. Murata Manufacturing Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 142. Murata Manufacturing Co., Ltd. Major Business
Table 143. Murata Manufacturing Co., Ltd. MEMS IMU Sensor Product and Services
Table 144. Murata Manufacturing Co., Ltd. MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Murata Manufacturing Co., Ltd. Recent Developments/Updates
Table 146. Murata Manufacturing Co., Ltd. Competitive Strengths & Weaknesses
Table 147. TDK Corporation Basic Information, Manufacturing Base and Competitors
Table 148. TDK Corporation Major Business
Table 149. TDK Corporation MEMS IMU Sensor Product and Services
Table 150. TDK Corporation MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 151. TDK Corporation Recent Developments/Updates

Table 152. TDK Corporation Competitive Strengths & Weaknesses

Table 153. Seiko Epson Corporation Basic Information, Manufacturing Base and Competitors

Table 154. Seiko Epson Corporation Major Business

Table 155. Seiko Epson Corporation MEMS IMU Sensor Product and Services

Table 156. Seiko Epson Corporation MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Seiko Epson Corporation Recent Developments/Updates

Table 158. Seiko Epson Corporation Competitive Strengths & Weaknesses

Table 159. Tamagawa Seiki Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 160. Tamagawa Seiki Co., Ltd. Major Business

Table 161. Tamagawa Seiki Co., Ltd. MEMS IMU Sensor Product and Services

Table 162. Tamagawa Seiki Co., Ltd. MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Tamagawa Seiki Co., Ltd. Recent Developments/Updates

Table 164. Tamagawa Seiki Co., Ltd. Competitive Strengths & Weaknesses

Table 165. Japan Aviation Electronics Industry, Ltd. Basic Information, Manufacturing Base and Competitors

Table 166. Japan Aviation Electronics Industry, Ltd. Major Business

Table 167. Japan Aviation Electronics Industry, Ltd. MEMS IMU Sensor Product and Services

Table 168. Japan Aviation Electronics Industry, Ltd. MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Japan Aviation Electronics Industry, Ltd. Recent Developments/Updates

Table 170. Japan Aviation Electronics Industry, Ltd. Competitive Strengths & Weaknesses

Table 171. MICROINFINITY Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 172. MICROINFINITY Co., Ltd. Major Business

Table 173. MICROINFINITY Co., Ltd. MEMS IMU Sensor Product and Services

Table 174. MICROINFINITY Co., Ltd. MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. MICROINFINITY Co., Ltd. Recent Developments/Updates
Table 176. MICROINFINITY Co., Ltd. Competitive Strengths & Weaknesses
Table 177. QST Corporation Basic Information, Manufacturing Base and Competitors
Table 178. QST Corporation Major Business
Table 179. QST Corporation MEMS IMU Sensor Product and Services
Table 180. QST Corporation MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 181. QST Corporation Recent Developments/Updates
Table 182. QST Corporation Competitive Strengths & Weaknesses
Table 183. Senodia Technologies (Shaoxing) Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 184. Senodia Technologies (Shaoxing) Co., Ltd. Major Business
Table 185. Senodia Technologies (Shaoxing) Co., Ltd. MEMS IMU Sensor Product and Services
Table 186. Senodia Technologies (Shaoxing) Co., Ltd. MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 187. Senodia Technologies (Shaoxing) Co., Ltd. Recent Developments/Updates
Table 188. Senodia Technologies (Shaoxing) Co., Ltd. Competitive Strengths & Weaknesses
Table 189. Forsense (Shanghai) Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 190. Forsense (Shanghai) Technology Co., Ltd. Major Business
Table 191. Forsense (Shanghai) Technology Co., Ltd. MEMS IMU Sensor Product and Services
Table 192. Forsense (Shanghai) Technology Co., Ltd. MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 193. Forsense (Shanghai) Technology Co., Ltd. Recent Developments/Updates
Table 194. Forsense (Shanghai) Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 195. MEMSIC Semiconductor Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 196. MEMSIC Semiconductor Co., Ltd. Major Business
Table 197. MEMSIC Semiconductor Co., Ltd. MEMS IMU Sensor Product and Services
Table 198. MEMSIC Semiconductor Co., Ltd. MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199.	MEMSIC Semiconductor Co., Ltd. Recent Developments/Updates
Table 200.	MEMSIC Semiconductor Co., Ltd. Competitive Strengths & Weaknesses
Table 201.	Hebei MT Electronic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 202.	Hebei MT Electronic Technology Co., Ltd. Major Business
Table 203.	Hebei MT Electronic Technology Co., Ltd. MEMS IMU Sensor Product and Services
Table 204.	Hebei MT Electronic Technology Co., Ltd. MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 205.	Hebei MT Electronic Technology Co., Ltd. Recent Developments/Updates
Table 206.	Hebei MT Electronic Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 207.	Guangzhou ASEISING Electronics Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 208.	Guangzhou ASEISING Electronics Technology Co., Ltd. Major Business
Table 209.	Guangzhou ASEISING Electronics Technology Co., Ltd. MEMS IMU Sensor Product and Services
Table 210.	Guangzhou ASEISING Electronics Technology Co., Ltd. MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 211.	Guangzhou ASEISING Electronics Technology Co., Ltd. Recent Developments/Updates
Table 212.	Guangzhou ASEISING Electronics Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 213.	Sea Land Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 214.	Sea Land Technology Co., Ltd. Major Business
Table 215.	Sea Land Technology Co., Ltd. MEMS IMU Sensor Product and Services
Table 216.	Sea Land Technology Co., Ltd. MEMS IMU Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 217.	Sea Land Technology Co., Ltd. Recent Developments/Updates
Table 218.	Sea Land Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 219.	Global Key Players of MEMS IMU Sensor Upstream (Raw Materials)
Table 220.	Global MEMS IMU Sensor Typical Customers
Table 221.	MEMS IMU Sensor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. MEMS IMU Sensor Picture

Figure 2. World MEMS IMU Sensor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World MEMS IMU Sensor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World MEMS IMU Sensor Production (2021-2032) & (Million Units)

Figure 5. World MEMS IMU Sensor Average Price (2021-2032) & (US\$/Unit)

Figure 6. World MEMS IMU Sensor Production Value Market Share by Region (2021-2032)

Figure 7. World MEMS IMU Sensor Production Market Share by Region (2021-2032)

Figure 8. North America MEMS IMU Sensor Production (2021-2032) & (Million Units)

Figure 9. Europe MEMS IMU Sensor Production (2021-2032) & (Million Units)

Figure 10. China MEMS IMU Sensor Production (2021-2032) & (Million Units)

Figure 11. Japan MEMS IMU Sensor Production (2021-2032) & (Million Units)

Figure 12. South Korea MEMS IMU Sensor Production (2021-2032) & (Million Units)

Figure 13. MEMS IMU Sensor Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World MEMS IMU Sensor Consumption (2021-2032) & (Million Units)

Figure 16. World MEMS IMU Sensor Consumption Market Share by Region (2021-2032)

Figure 17. United States MEMS IMU Sensor Consumption (2021-2032) & (Million Units)

Figure 18. China MEMS IMU Sensor Consumption (2021-2032) & (Million Units)

Figure 19. Europe MEMS IMU Sensor Consumption (2021-2032) & (Million Units)

Figure 20. Japan MEMS IMU Sensor Consumption (2021-2032) & (Million Units)

Figure 21. South Korea MEMS IMU Sensor Consumption (2021-2032) & (Million Units)

Figure 22. ASEAN MEMS IMU Sensor Consumption (2021-2032) & (Million Units)

Figure 23. India MEMS IMU Sensor Consumption (2021-2032) & (Million Units)

Figure 24. Producer Shipments of MEMS IMU Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for MEMS IMU Sensor Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for MEMS IMU Sensor Markets in 2025

Figure 27. United States VS China: MEMS IMU Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: MEMS IMU Sensor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: MEMS IMU Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers MEMS IMU Sensor Production Market Share 2025

Figure 31. China Based Manufacturers MEMS IMU Sensor Production Market Share 2025

Figure 32. Rest of World Based Manufacturers MEMS IMU Sensor Production Market Share 2025

Figure 33. World MEMS IMU Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World MEMS IMU Sensor Production Value Market Share by Type in 2025

Figure 35. Traditional Sensor

Figure 36. High Performance Sensor

Figure 37. World MEMS IMU Sensor Production Market Share by Type (2021-2032)

Figure 38. World MEMS IMU Sensor Production Value Market Share by Type (2021-2032)

Figure 39. World MEMS IMU Sensor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World MEMS IMU Sensor Production Value by Delivery Form, (USD Million), 2021 & 2025 & 2032

Figure 41. World MEMS IMU Sensor Production Value Market Share by Delivery Form in 2025

Figure 42. Single-Chip Or SiP

Figure 43. OEM Board-Level Module

Figure 44. Sealed Industrial Module

Figure 45. Ruggedized Tactical Unit

Figure 46. World MEMS IMU Sensor Production Market Share by Delivery Form (2021-2032)

Figure 47. World MEMS IMU Sensor Production Value Market Share by Delivery Form (2021-2032)

Figure 48. World MEMS IMU Sensor Average Price by Delivery Form (2021-2032) & (US\$/Unit)

Figure 49. World MEMS IMU Sensor Production Value by Product Role, (USD Million), 2021 & 2025 & 2032

Figure 50. World MEMS IMU Sensor Production Value Market Share by Product Role in 2025

Figure 51. Pure IMU

Figure 52. Fusion IMU

Figure 53. IMU with AHRS

Figure 54. World MEMS IMU Sensor Production Market Share by Product Role
(2021-2032)

Figure 55. World MEMS IMU Sensor Production Value Market Share by Product Role
(2021-2032)

Figure 56. World MEMS IMU Sensor Average Price by Product Role (2021-2032) &
(US\$/Unit)

Figure 57. World MEMS IMU Sensor Production Value by Application, (USD Million),
2021 & 2025 & 2032

Figure 58. World MEMS IMU Sensor Production Value Market Share by Application in
2025

Figure 59. Automobile

Figure 60. Medical Equipment

Figure 61. Consumer Electronic

Figure 62. Robot

Figure 63. Drone

Figure 64. Aerospace

Figure 65. Military Industrial

Figure 66. Others

Figure 67. Others

Figure 68. World MEMS IMU Sensor Production Market Share by Application
(2021-2032)

Figure 69. World MEMS IMU Sensor Production Value Market Share by Application
(2021-2032)

Figure 70. World MEMS IMU Sensor Average Price by Application (2021-2032) &
(US\$/Unit)

Figure 71. MEMS IMU Sensor Industry Chain

Figure 72. MEMS IMU Sensor Procurement Model

Figure 73. MEMS IMU Sensor Sales Model

Figure 74. MEMS IMU Sensor Sales Channels, Direct Sales, and Distribution

Figure 75. Methodology

Figure 76. Research Process and Data Source

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