

Global Robotic Inertial Measurement Unit (IMU) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Robotic Inertial Measurement Unit (IMU) market size was valued at US\$ 138 million in 2025 and is forecast to a readjusted size of US\$ 436 million by 2032 with a CAGR of 18.3% during review period.

Robotic Inertial Measurement Unit (IMU) is an industrial-grade high-precision core sensing chip customized for various robotic systems, integrating MEMS/fiber optic/laser gyroscopes, high-dynamic accelerometers (and magnetometers/altimeters in mid-to-high-end models) on a single chip or chip set, with built-in industrial-grade anti-interference, wide-temperature calibration and multi-sensor fusion preprocessing circuits. It can real-time collect and process the robot's three-axis angular velocity, three-axis linear acceleration and spatial posture data in complex working conditions, and output standardized, high-reliability sensing signals to the robot's motion control system, serving as the hardware core for robots to perceive motion state, achieve precise posture control and autonomous navigation. Robotic IMU is priced in a huge tiered range by precision and manufacturing process, matching the operational requirements of different robots: Consumer-grade MEMS models for educational and lightweight service robots cost \$3-8 each; Industrial-grade MEMS models used in collaborative robots and general AGVs are priced at \$20-80; High-precision MEMS models for industrial robotic arms and high-end AGVs range from \$120-500; Fiber optic IMU chips for special robots and unmanned vehicles cost \$1,000-5,000; Laser IMU chips for military and aerospace-grade robots are priced at \$5,000-50,000+.

The industrial chain is divided into three tiers, with core barriers in high-precision sensing technology. Upstream covers MEMS sensitive structures, ASIC circuits, wafer

materials and other core components, with TSMC, GlobalFoundries and Bosch as key suppliers, accounting for over 40% of the total cost. Midstream focuses on chip design (ADI, Honeywell, CoreMEMS), manufacturing (SMIC, Sino Microelectronics) and packaging & testing (JCET Group, ASE), where the core barriers lie in wide-temperature calibration, anti-interference algorithms and fiber optic/laser sensing processes. Downstream includes manufacturers of industrial robots, service robots and AGV complete machines. The precision requirements of terminal robots drive the technological iteration direction of robotic IMU chips.

This report is a detailed and comprehensive analysis for global Robotic Inertial Measurement Unit (IMU) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Robotic Inertial Measurement Unit (IMU) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Robotic Inertial Measurement Unit (IMU) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Robotic Inertial Measurement Unit (IMU) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Robotic Inertial Measurement Unit (IMU) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Robotic Inertial Measurement Unit (IMU)
- To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Robotic Inertial Measurement Unit (IMU) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bosch, TDK, STMicroelectronics, Murata, Panasonic, Senodia, QST Corporation, Silan Microelectronics, Memsic, etc.

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

Market Segmentation

Robotic Inertial Measurement Unit (IMU) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

4-axis

6-axis

Others

Market segment by Inertial Sensor Composition

MEMS-IMU

Non-MEMS-IMU

Market segment by Manufacturing Process

CMOS IMU

SOC IMU

Others

Market segment by Application

Industrial Robots

Service Robots

Special Robots

Military and Aerospace Robots

Other

Major players covered

Bosch

TDK

STMicroelectronics

Murata

Panasonic

Senodia

QST Corporation

Silan Microelectronics

Memsic

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Robotic Inertial Measurement Unit (IMU) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Robotic Inertial Measurement Unit (IMU), with price, sales quantity, revenue, and global market share of Robotic Inertial Measurement Unit (IMU) from 2021 to 2026.

Chapter 3, the Robotic Inertial Measurement Unit (IMU) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Robotic Inertial Measurement Unit (IMU) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Robotic Inertial Measurement Unit (IMU) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Robotic Inertial Measurement Unit (IMU).

Chapter 14 and 15, to describe Robotic Inertial Measurement Unit (IMU) sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 4-axis

1.3.3 6-axis

1.3.4 Others

1.4 Market Analysis by Inertial Sensor Composition

1.4.1 Overview: Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Inertial Sensor Composition: 2021 Versus 2025 Versus 2032

1.4.2 MEMS-IMU

1.4.3 Non-MEMS-IMU

1.5 Market Analysis by Manufacturing Process

1.5.1 Overview: Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Manufacturing Process: 2021 Versus 2025 Versus 2032

1.5.2 CMOS IMU

1.5.3 SOC IMU

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Industrial Robots

1.6.3 Service Robots

1.6.4 Special Robots

1.6.5 Military and Aerospace Robots

1.6.6 Other

1.7 Global Robotic Inertial Measurement Unit (IMU) Market Size & Forecast

1.7.1 Global Robotic Inertial Measurement Unit (IMU) Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Robotic Inertial Measurement Unit (IMU) Sales Quantity (2021-2032)

1.7.3 Global Robotic Inertial Measurement Unit (IMU) Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Bosch

2.1.1 Bosch Details

2.1.2 Bosch Major Business

2.1.3 Bosch Robotic Inertial Measurement Unit (IMU) Product and Services

2.1.4 Bosch Robotic Inertial Measurement Unit (IMU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Bosch Recent Developments/Updates

2.2 TDK

2.2.1 TDK Details

2.2.2 TDK Major Business

2.2.3 TDK Robotic Inertial Measurement Unit (IMU) Product and Services

2.2.4 TDK Robotic Inertial Measurement Unit (IMU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 TDK Recent Developments/Updates

2.3 STMicroelectronics

2.3.1 STMicroelectronics Details

2.3.2 STMicroelectronics Major Business

2.3.3 STMicroelectronics Robotic Inertial Measurement Unit (IMU) Product and Services

2.3.4 STMicroelectronics Robotic Inertial Measurement Unit (IMU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 STMicroelectronics Recent Developments/Updates

2.4 Murata

2.4.1 Murata Details

2.4.2 Murata Major Business

2.4.3 Murata Robotic Inertial Measurement Unit (IMU) Product and Services

2.4.4 Murata Robotic Inertial Measurement Unit (IMU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Murata Recent Developments/Updates

2.5 Panasonic

2.5.1 Panasonic Details

2.5.2 Panasonic Major Business

2.5.3 Panasonic Robotic Inertial Measurement Unit (IMU) Product and Services

2.5.4 Panasonic Robotic Inertial Measurement Unit (IMU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Panasonic Recent Developments/Updates

2.6 Senodia

2.6.1 Senodia Details

2.6.2 Senodia Major Business

- 2.6.3 Senodia Robotic Inertial Measurement Unit (IMU) Product and Services
- 2.6.4 Senodia Robotic Inertial Measurement Unit (IMU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Senodia Recent Developments/Updates
- 2.7 QST Corporation
 - 2.7.1 QST Corporation Details
 - 2.7.2 QST Corporation Major Business
 - 2.7.3 QST Corporation Robotic Inertial Measurement Unit (IMU) Product and Services
 - 2.7.4 QST Corporation Robotic Inertial Measurement Unit (IMU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 QST Corporation Recent Developments/Updates
- 2.8 Silan Microelectronics
 - 2.8.1 Silan Microelectronics Details
 - 2.8.2 Silan Microelectronics Major Business
 - 2.8.3 Silan Microelectronics Robotic Inertial Measurement Unit (IMU) Product and Services
 - 2.8.4 Silan Microelectronics Robotic Inertial Measurement Unit (IMU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Silan Microelectronics Recent Developments/Updates
- 2.9 Memsic
 - 2.9.1 Memsic Details
 - 2.9.2 Memsic Major Business
 - 2.9.3 Memsic Robotic Inertial Measurement Unit (IMU) Product and Services
 - 2.9.4 Memsic Robotic Inertial Measurement Unit (IMU) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Memsic Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: ROBOTIC INERTIAL MEASUREMENT UNIT (IMU) BY MANUFACTURER

- 3.1 Global Robotic Inertial Measurement Unit (IMU) Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Robotic Inertial Measurement Unit (IMU) Revenue by Manufacturer (2021-2026)
- 3.3 Global Robotic Inertial Measurement Unit (IMU) Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Robotic Inertial Measurement Unit (IMU) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Robotic Inertial Measurement Unit (IMU) Manufacturer Market Share in 2025

3.4.3 Top 6 Robotic Inertial Measurement Unit (IMU) Manufacturer Market Share in 2025

3.5 Robotic Inertial Measurement Unit (IMU) Market: Overall Company Footprint Analysis

3.5.1 Robotic Inertial Measurement Unit (IMU) Market: Region Footprint

3.5.2 Robotic Inertial Measurement Unit (IMU) Market: Company Product Type Footprint

3.5.3 Robotic Inertial Measurement Unit (IMU) Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Robotic Inertial Measurement Unit (IMU) Market Size by Region

4.1.1 Global Robotic Inertial Measurement Unit (IMU) Sales Quantity by Region (2021-2032)

4.1.2 Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Region (2021-2032)

4.1.3 Global Robotic Inertial Measurement Unit (IMU) Average Price by Region (2021-2032)

4.2 North America Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032)

4.3 Europe Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032)

4.4 Asia-Pacific Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032)

4.5 South America Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032)

4.6 Middle East & Africa Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2032)

5.2 Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Type (2021-2032)

5.3 Global Robotic Inertial Measurement Unit (IMU) Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2032)

6.2 Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Application (2021-2032)

6.3 Global Robotic Inertial Measurement Unit (IMU) Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2032)

7.2 North America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2032)

7.3 North America Robotic Inertial Measurement Unit (IMU) Market Size by Country

7.3.1 North America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Country (2021-2032)

7.3.2 North America Robotic Inertial Measurement Unit (IMU) Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2032)

8.2 Europe Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2032)

8.3 Europe Robotic Inertial Measurement Unit (IMU) Market Size by Country

8.3.1 Europe Robotic Inertial Measurement Unit (IMU) Sales Quantity by Country (2021-2032)

8.3.2 Europe Robotic Inertial Measurement Unit (IMU) Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

- 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
- 8.3.6 Russia Market Size and Forecast (2021-2032)
- 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Robotic Inertial Measurement Unit (IMU) Market Size by Region
 - 9.3.1 Asia-Pacific Robotic Inertial Measurement Unit (IMU) Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Robotic Inertial Measurement Unit (IMU) Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2032)
- 10.2 South America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2032)
- 10.3 South America Robotic Inertial Measurement Unit (IMU) Market Size by Country
 - 10.3.1 South America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Robotic Inertial Measurement Unit (IMU) Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Robotic Inertial Measurement Unit (IMU) Sales Quantity by

Type (2021-2032)

11.2 Middle East & Africa Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Robotic Inertial Measurement Unit (IMU) Market Size by Country

11.3.1 Middle East & Africa Robotic Inertial Measurement Unit (IMU) Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Robotic Inertial Measurement Unit (IMU) Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Robotic Inertial Measurement Unit (IMU) Market Drivers

12.2 Robotic Inertial Measurement Unit (IMU) Market Restraints

12.3 Robotic Inertial Measurement Unit (IMU) Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Robotic Inertial Measurement Unit (IMU) and Key Manufacturers

13.2 Manufacturing Costs Percentage of Robotic Inertial Measurement Unit (IMU)

13.3 Robotic Inertial Measurement Unit (IMU) Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Robotic Inertial Measurement Unit (IMU) Typical Distributors

14.3 Robotic Inertial Measurement Unit (IMU) Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Inertial Sensor Composition, (USD Million), 2021 & 2025 & 2032

Table 3. Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Table 4. Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Bosch Basic Information, Manufacturing Base and Competitors

Table 6. Bosch Major Business

Table 7. Bosch Robotic Inertial Measurement Unit (IMU) Product and Services

Table 8. Bosch Robotic Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Bosch Recent Developments/Updates

Table 10. TDK Basic Information, Manufacturing Base and Competitors

Table 11. TDK Major Business

Table 12. TDK Robotic Inertial Measurement Unit (IMU) Product and Services

Table 13. TDK Robotic Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. TDK Recent Developments/Updates

Table 15. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 16. STMicroelectronics Major Business

Table 17. STMicroelectronics Robotic Inertial Measurement Unit (IMU) Product and Services

Table 18. STMicroelectronics Robotic Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. STMicroelectronics Recent Developments/Updates

Table 20. Murata Basic Information, Manufacturing Base and Competitors

Table 21. Murata Major Business

Table 22. Murata Robotic Inertial Measurement Unit (IMU) Product and Services

Table 23. Murata Robotic Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share

(2021-2026)

Table 24. Murata Recent Developments/Updates

Table 25. Panasonic Basic Information, Manufacturing Base and Competitors

Table 26. Panasonic Major Business

Table 27. Panasonic Robotic Inertial Measurement Unit (IMU) Product and Services

Table 28. Panasonic Robotic Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Panasonic Recent Developments/Updates

Table 30. Senodia Basic Information, Manufacturing Base and Competitors

Table 31. Senodia Major Business

Table 32. Senodia Robotic Inertial Measurement Unit (IMU) Product and Services

Table 33. Senodia Robotic Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Senodia Recent Developments/Updates

Table 35. QST Corporation Basic Information, Manufacturing Base and Competitors

Table 36. QST Corporation Major Business

Table 37. QST Corporation Robotic Inertial Measurement Unit (IMU) Product and Services

Table 38. QST Corporation Robotic Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. QST Corporation Recent Developments/Updates

Table 40. Silan Microelectronics Basic Information, Manufacturing Base and Competitors

Table 41. Silan Microelectronics Major Business

Table 42. Silan Microelectronics Robotic Inertial Measurement Unit (IMU) Product and Services

Table 43. Silan Microelectronics Robotic Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Silan Microelectronics Recent Developments/Updates

Table 45. Memsic Basic Information, Manufacturing Base and Competitors

Table 46. Memsic Major Business

Table 47. Memsic Robotic Inertial Measurement Unit (IMU) Product and Services

Table 48. Memsic Robotic Inertial Measurement Unit (IMU) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Memsic Recent Developments/Updates

Table 50. Global Robotic Inertial Measurement Unit (IMU) Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 51. Global Robotic Inertial Measurement Unit (IMU) Revenue by Manufacturer (2021-2026) & (USD Million)

Table 52. Global Robotic Inertial Measurement Unit (IMU) Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 53. Market Position of Manufacturers in Robotic Inertial Measurement Unit (IMU), (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 54. Head Office and Robotic Inertial Measurement Unit (IMU) Production Site of Key Manufacturer

Table 55. Robotic Inertial Measurement Unit (IMU) Market: Company Product Type Footprint

Table 56. Robotic Inertial Measurement Unit (IMU) Market: Company Product Application Footprint

Table 57. Robotic Inertial Measurement Unit (IMU) New Market Entrants and Barriers to Market Entry

Table 58. Robotic Inertial Measurement Unit (IMU) Mergers, Acquisition, Agreements, and Collaborations

Table 59. Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 60. Global Robotic Inertial Measurement Unit (IMU) Sales Quantity by Region (2021-2026) & (K Units)

Table 61. Global Robotic Inertial Measurement Unit (IMU) Sales Quantity by Region (2027-2032) & (K Units)

Table 62. Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Region (2021-2026) & (USD Million)

Table 63. Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Region (2027-2032) & (USD Million)

Table 64. Global Robotic Inertial Measurement Unit (IMU) Average Price by Region (2021-2026) & (US\$/Unit)

Table 65. Global Robotic Inertial Measurement Unit (IMU) Average Price by Region (2027-2032) & (US\$/Unit)

Table 66. Global Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2026) & (K Units)

Table 67. Global Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2027-2032) & (K Units)

Table 68. Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Type (2021-2026) & (USD Million)

- Table 69. Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Type (2027-2032) & (USD Million)
- Table 70. Global Robotic Inertial Measurement Unit (IMU) Average Price by Type (2021-2026) & (US\$/Unit)
- Table 71. Global Robotic Inertial Measurement Unit (IMU) Average Price by Type (2027-2032) & (US\$/Unit)
- Table 72. Global Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2026) & (K Units)
- Table 73. Global Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2027-2032) & (K Units)
- Table 74. Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Application (2021-2026) & (USD Million)
- Table 75. Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Application (2027-2032) & (USD Million)
- Table 76. Global Robotic Inertial Measurement Unit (IMU) Average Price by Application (2021-2026) & (US\$/Unit)
- Table 77. Global Robotic Inertial Measurement Unit (IMU) Average Price by Application (2027-2032) & (US\$/Unit)
- Table 78. North America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2026) & (K Units)
- Table 79. North America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2027-2032) & (K Units)
- Table 80. North America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2026) & (K Units)
- Table 81. North America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2027-2032) & (K Units)
- Table 82. North America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Country (2021-2026) & (K Units)
- Table 83. North America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Country (2027-2032) & (K Units)
- Table 84. North America Robotic Inertial Measurement Unit (IMU) Consumption Value by Country (2021-2026) & (USD Million)
- Table 85. North America Robotic Inertial Measurement Unit (IMU) Consumption Value by Country (2027-2032) & (USD Million)
- Table 86. Europe Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2026) & (K Units)
- Table 87. Europe Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2027-2032) & (K Units)
- Table 88. Europe Robotic Inertial Measurement Unit (IMU) Sales Quantity by

Application (2021-2026) & (K Units)

Table 89. Europe Robotic Inertial Measurement Unit (IMU) Sales Quantity by

Application (2027-2032) & (K Units)

Table 90. Europe Robotic Inertial Measurement Unit (IMU) Sales Quantity by Country (2021-2026) & (K Units)

Table 91. Europe Robotic Inertial Measurement Unit (IMU) Sales Quantity by Country (2027-2032) & (K Units)

Table 92. Europe Robotic Inertial Measurement Unit (IMU) Consumption Value by Country (2021-2026) & (USD Million)

Table 93. Europe Robotic Inertial Measurement Unit (IMU) Consumption Value by Country (2027-2032) & (USD Million)

Table 94. Asia-Pacific Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2026) & (K Units)

Table 95. Asia-Pacific Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2027-2032) & (K Units)

Table 96. Asia-Pacific Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2026) & (K Units)

Table 97. Asia-Pacific Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2027-2032) & (K Units)

Table 98. Asia-Pacific Robotic Inertial Measurement Unit (IMU) Sales Quantity by Region (2021-2026) & (K Units)

Table 99. Asia-Pacific Robotic Inertial Measurement Unit (IMU) Sales Quantity by Region (2027-2032) & (K Units)

Table 100. Asia-Pacific Robotic Inertial Measurement Unit (IMU) Consumption Value by Region (2021-2026) & (USD Million)

Table 101. Asia-Pacific Robotic Inertial Measurement Unit (IMU) Consumption Value by Region (2027-2032) & (USD Million)

Table 102. South America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2026) & (K Units)

Table 103. South America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2027-2032) & (K Units)

Table 104. South America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2026) & (K Units)

Table 105. South America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2027-2032) & (K Units)

Table 106. South America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Country (2021-2026) & (K Units)

Table 107. South America Robotic Inertial Measurement Unit (IMU) Sales Quantity by Country (2027-2032) & (K Units)

- Table 108. South America Robotic Inertial Measurement Unit (IMU) Consumption Value by Country (2021-2026) & (USD Million)
- Table 109. South America Robotic Inertial Measurement Unit (IMU) Consumption Value by Country (2027-2032) & (USD Million)
- Table 110. Middle East & Africa Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2021-2026) & (K Units)
- Table 111. Middle East & Africa Robotic Inertial Measurement Unit (IMU) Sales Quantity by Type (2027-2032) & (K Units)
- Table 112. Middle East & Africa Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2021-2026) & (K Units)
- Table 113. Middle East & Africa Robotic Inertial Measurement Unit (IMU) Sales Quantity by Application (2027-2032) & (K Units)
- Table 114. Middle East & Africa Robotic Inertial Measurement Unit (IMU) Sales Quantity by Country (2021-2026) & (K Units)
- Table 115. Middle East & Africa Robotic Inertial Measurement Unit (IMU) Sales Quantity by Country (2027-2032) & (K Units)
- Table 116. Middle East & Africa Robotic Inertial Measurement Unit (IMU) Consumption Value by Country (2021-2026) & (USD Million)
- Table 117. Middle East & Africa Robotic Inertial Measurement Unit (IMU) Consumption Value by Country (2027-2032) & (USD Million)
- Table 118. Robotic Inertial Measurement Unit (IMU) Raw Material
- Table 119. Key Manufacturers of Robotic Inertial Measurement Unit (IMU) Raw Materials
- Table 120. Robotic Inertial Measurement Unit (IMU) Typical Distributors
- Table 121. Robotic Inertial Measurement Unit (IMU) Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Robotic Inertial Measurement Unit (IMU) Picture

Figure 2. Global Robotic Inertial Measurement Unit (IMU) Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Robotic Inertial Measurement Unit (IMU) Revenue Market Share by Type in 2025

Figure 4. 4-axis Examples

Figure 5. 6-axis Examples

Figure 6. Others Examples

Figure 7. Global Robotic Inertial Measurement Unit (IMU) Revenue by Inertial Sensor Composition, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Robotic Inertial Measurement Unit (IMU) Revenue Market Share by Inertial Sensor Composition in 2025

Figure 9. MEMS-IMU Examples

Figure 10. Non-MEMS-IMU Examples

Figure 11. Global Robotic Inertial Measurement Unit (IMU) Revenue by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Figure 12. Global Robotic Inertial Measurement Unit (IMU) Revenue Market Share by Manufacturing Process in 2025

Figure 13. CMOS IMU Examples

Figure 14. SOC IMU Examples

Figure 15. Others Examples

Figure 16. Global Robotic Inertial Measurement Unit (IMU) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 17. Global Robotic Inertial Measurement Unit (IMU) Revenue Market Share by Application in 2025

Figure 18. Industrial Robots Examples

Figure 19. Service Robots Examples

Figure 20. Special Robots Examples

Figure 21. Military and Aerospace Robots Examples

Figure 22. Other Examples

Figure 23. Global Robotic Inertial Measurement Unit (IMU) Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 24. Global Robotic Inertial Measurement Unit (IMU) Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 25. Global Robotic Inertial Measurement Unit (IMU) Sales Quantity (2021-2032)

& (K Units)

Figure 26. Global Robotic Inertial Measurement Unit (IMU) Price (2021-2032) & (US\$/Unit)

Figure 27. Global Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Manufacturer in 2025

Figure 28. Global Robotic Inertial Measurement Unit (IMU) Revenue Market Share by Manufacturer in 2025

Figure 29. Producer Shipments of Robotic Inertial Measurement Unit (IMU) by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 30. Top 3 Robotic Inertial Measurement Unit (IMU) Manufacturer (Revenue) Market Share in 2025

Figure 31. Top 6 Robotic Inertial Measurement Unit (IMU) Manufacturer (Revenue) Market Share in 2025

Figure 32. Global Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Region (2021-2032)

Figure 33. Global Robotic Inertial Measurement Unit (IMU) Consumption Value Market Share by Region (2021-2032)

Figure 34. North America Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 35. Europe Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 36. Asia-Pacific Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 37. South America Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 38. Middle East & Africa Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 39. Global Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Type (2021-2032)

Figure 40. Global Robotic Inertial Measurement Unit (IMU) Consumption Value Market Share by Type (2021-2032)

Figure 41. Global Robotic Inertial Measurement Unit (IMU) Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. Global Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Application (2021-2032)

Figure 43. Global Robotic Inertial Measurement Unit (IMU) Revenue Market Share by Application (2021-2032)

Figure 44. Global Robotic Inertial Measurement Unit (IMU) Average Price by Application (2021-2032) & (US\$/Unit)

Figure 45. North America Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Type (2021-2032)

Figure 46. North America Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Application (2021-2032)

Figure 47. North America Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Country (2021-2032)

Figure 48. North America Robotic Inertial Measurement Unit (IMU) Consumption Value Market Share by Country (2021-2032)

Figure 49. United States Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 50. Canada Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 51. Mexico Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 52. Europe Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Type (2021-2032)

Figure 53. Europe Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Application (2021-2032)

Figure 54. Europe Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Country (2021-2032)

Figure 55. Europe Robotic Inertial Measurement Unit (IMU) Consumption Value Market Share by Country (2021-2032)

Figure 56. Germany Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 57. France Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 58. United Kingdom Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 59. Russia Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 60. Italy Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 61. Asia-Pacific Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Type (2021-2032)

Figure 62. Asia-Pacific Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Application (2021-2032)

Figure 63. Asia-Pacific Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Region (2021-2032)

Figure 64. Asia-Pacific Robotic Inertial Measurement Unit (IMU) Consumption Value

Market Share by Region (2021-2032)

Figure 65. China Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 66. Japan Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 67. South Korea Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 68. India Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 69. Southeast Asia Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 70. Australia Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 71. South America Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Type (2021-2032)

Figure 72. South America Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Application (2021-2032)

Figure 73. South America Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Country (2021-2032)

Figure 74. South America Robotic Inertial Measurement Unit (IMU) Consumption Value Market Share by Country (2021-2032)

Figure 75. Brazil Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 76. Argentina Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 77. Middle East & Africa Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Type (2021-2032)

Figure 78. Middle East & Africa Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Application (2021-2032)

Figure 79. Middle East & Africa Robotic Inertial Measurement Unit (IMU) Sales Quantity Market Share by Country (2021-2032)

Figure 80. Middle East & Africa Robotic Inertial Measurement Unit (IMU) Consumption Value Market Share by Country (2021-2032)

Figure 81. Turkey Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 82. Egypt Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 83. Saudi Arabia Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 84. South Africa Robotic Inertial Measurement Unit (IMU) Consumption Value (2021-2032) & (USD Million)

Figure 85. Robotic Inertial Measurement Unit (IMU) Market Drivers

Figure 86. Robotic Inertial Measurement Unit (IMU) Market Restraints

Figure 87. Robotic Inertial Measurement Unit (IMU) Market Trends

Figure 88. Porters Five Forces Analysis

Figure 89. Manufacturing Cost Structure Analysis of Robotic Inertial Measurement Unit (IMU) in 2025

Figure 90. Manufacturing Process Analysis of Robotic Inertial Measurement Unit (IMU)

Figure 91. Robotic Inertial Measurement Unit (IMU) Industrial Chain

Figure 92. Sales Channel: Direct to End-User vs Distributors

Figure 93. Direct Channel Pros & Cons

Figure 94. Indirect Channel Pros & Cons

Figure 95. Methodology

Figure 96. Research Process and Data Source

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