

# Global Wearables Inertial Measurement Unit (IMU) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Wearables Inertial Measurement Unit (IMU) market size is expected to reach \$ 560 million by 2032, rising at a market growth of 11.5% CAGR during the forecast period (2026-2032).

Wearables Inertial Measurement Unit (IMU) is a miniaturized, low-power high-integration sensing module specially designed for wearable smart devices. It integrates MEMS gyroscopes, MEMS accelerometers, and usually magnetometers on a single chip, and is equipped with built-in low-power signal conditioning and data preprocessing algorithms. It can real-time measure and output the three-axis angular velocity, three-axis linear acceleration and spatial magnetic field data of the human body's movement and the wearer's posture, providing core motion sensing data for wearable devices to realize motion detection, posture recognition, health monitoring and human-computer interaction functions. Prices of wearables IMU chips vary by performance tiers. Basic 6-axis MEMS IMU chips for budget fitness trackers cost \$1.5-3; mainstream 6-axis models with low-power algorithms (e.g., Bosch BMI270, TDK ICM-42605) range \$2.5-6, widely used in smartwatches. High-end 9-axis IMU chips integrating magnetometers are \$6-12, for premium smart glasses and professional sports wearables with gesture control and precise motion tracking.

The industrial chain has three core layers. Upstream: Key materials include MEMS silicon wafers, SOI substrates, and ASIC circuits, supplied by TSMC, GlobalFoundries, and Bosch, accounting for ~30% of total costs. Midstream: Dominated by chip design (ADI, ST, TDK InvenSense), manufacturing (SMIC, Xintec), and packaging/testing (JCET Group), with core barriers in MEMS process and low-power calibration algorithms. Downstream: Wearable device manufacturers like Apple, Samsung, and Xiaomi integrate IMU chips into modules, then into end products, with terminal demand

dictating chip performance, miniaturization, and power consumption requirements, forming a tech-upward and demand-downward transmission logic across the chain.

This report studies the global Wearables Inertial Measurement Unit (IMU) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Wearables Inertial Measurement Unit (IMU) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Wearables Inertial Measurement Unit (IMU) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Wearables Inertial Measurement Unit (IMU) total production and demand, 2021-2032, (K Units)

Global Wearables Inertial Measurement Unit (IMU) total production value, 2021-2032, (USD Million)

Global Wearables Inertial Measurement Unit (IMU) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Wearables Inertial Measurement Unit (IMU) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Wearables Inertial Measurement Unit (IMU) domestic production, consumption, key domestic manufacturers and share

Global Wearables Inertial Measurement Unit (IMU) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Wearables Inertial Measurement Unit (IMU) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Wearables Inertial Measurement Unit (IMU) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Wearables Inertial Measurement Unit (IMU) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Wearables Inertial Measurement Unit (IMU) market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Wearables Inertial Measurement Unit (IMU) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Wearables Inertial Measurement Unit (IMU) Market, Segmentation by Type:

4-axis

6-axis

Others

Global Wearables Inertial Measurement Unit (IMU) Market, Segmentation by Inertial Sensor Composition:

MEMS-IMU

Non-MEMS-IMU

Global Wearables Inertial Measurement Unit (IMU) Market, Segmentation by Manufacturing Process:

CMOS IMU

SOC IMU

Others

Global Wearables Inertial Measurement Unit (IMU) Market, Segmentation by Application:

Smartwatches/Fitness Trackers

Professional Sports Wearables

Health and Medical Wearables

Others

Companies Profiled:

Bosch

TDK

STMicroelectronics

Murata

Panasonic

Senodia

QST Corporation

Silan Microelectronics

Memsic

**Key Questions Answered:**

1. How big is the global Wearables Inertial Measurement Unit (IMU) market?
2. What is the demand of the global Wearables Inertial Measurement Unit (IMU) market?
3. What is the year over year growth of the global Wearables Inertial Measurement Unit (IMU) market?
4. What is the production and production value of the global Wearables Inertial Measurement Unit (IMU) market?
5. Who are the key producers in the global Wearables Inertial Measurement Unit (IMU) market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

- 2.1 World Phenol-free Thermal Paper Developer Demand (2021-2032)
- 2.2 World Phenol-free Thermal Paper Developer Consumption by Region
  - 2.2.1 World Phenol-free Thermal Paper Developer Consumption by Region (2021-2026)
  - 2.2.2 World Phenol-free Thermal Paper Developer Consumption Forecast by Region (2027-2032)
- 2.3 United States Phenol-free Thermal Paper Developer Consumption (2021-2032)
- 2.4 China Phenol-free Thermal Paper Developer Consumption (2021-2032)
- 2.5 Europe Phenol-free Thermal Paper Developer Consumption (2021-2032)
- 2.6 Japan Phenol-free Thermal Paper Developer Consumption (2021-2032)
- 2.7 South Korea Phenol-free Thermal Paper Developer Consumption (2021-2032)

2.8 ASEAN Phenol-free Thermal Paper Developer Consumption (2021-2032)

2.9 India Phenol-free Thermal Paper Developer Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Phenol-free Thermal Paper Developer Production Value by Manufacturer (2021-2026)

3.2 World Phenol-free Thermal Paper Developer Production by Manufacturer (2021-2026)

3.3 World Phenol-free Thermal Paper Developer Average Price by Manufacturer (2021-2026)

3.4 Phenol-free Thermal Paper Developer Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Phenol-free Thermal Paper Developer Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Phenol-free Thermal Paper Developer in 2025

3.5.3 Global Concentration Ratios (CR8) for Phenol-free Thermal Paper Developer in 2025

3.6 Phenol-free Thermal Paper Developer Market: Overall Company Footprint Analysis

3.6.1 Phenol-free Thermal Paper Developer Market: Region Footprint

3.6.2 Phenol-free Thermal Paper Developer Market: Company Product Type Footprint

3.6.3 Phenol-free Thermal Paper Developer 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: Phenol-free Thermal Paper Developer Production Value Comparison

4.1.1 United States VS China: Phenol-free Thermal Paper Developer Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Phenol-free Thermal Paper Developer Production Value Market Share Comparison (2021 & 2025 & 2032)

## 4.2 United States VS China: Phenol-free Thermal Paper Developer Production Comparison

4.2.1 United States VS China: Phenol-free Thermal Paper Developer Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Phenol-free Thermal Paper Developer Production Market Share Comparison (2021 & 2025 & 2032)

## 4.3 United States VS China: Phenol-free Thermal Paper Developer Consumption Comparison

4.3.1 United States VS China: Phenol-free Thermal Paper Developer Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Phenol-free Thermal Paper Developer Consumption Market Share Comparison (2021 & 2025 & 2032)

## 4.4 United States Based Phenol-free Thermal Paper Developer Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Phenol-free Thermal Paper Developer Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Phenol-free Thermal Paper Developer Production Value (2021-2026)

4.4.3 United States Based Manufacturers Phenol-free Thermal Paper Developer Production (2021-2026)

## 4.5 China Based Phenol-free Thermal Paper Developer Manufacturers and Market Share

4.5.1 China Based Phenol-free Thermal Paper Developer Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Phenol-free Thermal Paper Developer Production Value (2021-2026)

4.5.3 China Based Manufacturers Phenol-free Thermal Paper Developer Production (2021-2026)

## 4.6 Rest of World Based Phenol-free Thermal Paper Developer Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Phenol-free Thermal Paper Developer Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Phenol-free Thermal Paper Developer Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Phenol-free Thermal Paper Developer Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

5.1 World Phenol-free Thermal Paper Developer Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Pergafast Developers

5.2.2 Sulfonamide

5.2.3 Urethane (UU) Developers

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Phenol-free Thermal Paper Developer Production by Type (2021-2032)

5.3.2 World Phenol-free Thermal Paper Developer Production Value by Type (2021-2032)

5.3.3 World Phenol-free Thermal Paper Developer Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY USE**

6.1 World Phenol-free Thermal Paper Developer Market Size Overview by Use: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Use

6.2.1 Coated Thermal Paper

6.2.2 Uncoated Thermal Paper

6.3 Market Segment by Use

6.3.1 World Phenol-free Thermal Paper Developer Production by Use (2021-2032)

6.3.2 World Phenol-free Thermal Paper Developer Production Value by Use (2021-2032)

6.3.3 World Phenol-free Thermal Paper Developer Average Price by Use (2021-2032)

## **7 MARKET ANALYSIS BY APPLICATION**

7.1 World Phenol-free Thermal Paper Developer Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 POS Paper

7.2.2 Label Paper

7.2.3 Fax Paper

7.2.4 Others

7.3 Market Segment by Application

7.3.1 World Phenol-free Thermal Paper Developer Production by Application (2021-2032)

7.3.2 World Phenol-free Thermal Paper Developer Production Value by Application

(2021-2032)

7.3.3 World Phenol-free Thermal Paper Developer Average Price by Application

(2021-2032)

## **8 COMPANY PROFILES**

### **8.1 Solenis**

8.1.1 Solenis Details

8.1.2 Solenis Major Business

8.1.3 Solenis Phenol-free Thermal Paper Developer Product and Services

8.1.4 Solenis Phenol-free Thermal Paper Developer Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Solenis Recent Developments/Updates

8.1.6 Solenis Competitive Strengths & Weaknesses

### **8.2 Mitsubishi Chemical**

8.2.1 Mitsubishi Chemical Details

8.2.2 Mitsubishi Chemical Major Business

8.2.3 Mitsubishi Chemical Phenol-free Thermal Paper Developer Product and Services

8.2.4 Mitsubishi Chemical Phenol-free Thermal Paper Developer Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Mitsubishi Chemical Recent Developments/Updates

8.2.6 Mitsubishi Chemical Competitive Strengths & Weaknesses

### **8.3 Neostar United (Changzhou) Industrial**

8.3.1 Neostar United (Changzhou) Industrial Details

8.3.2 Neostar United (Changzhou) Industrial Major Business

8.3.3 Neostar United (Changzhou) Industrial Phenol-free Thermal Paper Developer Product and Services

8.3.4 Neostar United (Changzhou) Industrial Phenol-free Thermal Paper Developer Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 Neostar United (Changzhou) Industrial Recent Developments/Updates

8.3.6 Neostar United (Changzhou) Industrial Competitive Strengths & Weaknesses

### **8.4 Shenyang Photosensitive Chemical**

8.4.1 Shenyang Photosensitive Chemical Details

8.4.2 Shenyang Photosensitive Chemical Major Business

8.4.3 Shenyang Photosensitive Chemical Phenol-free Thermal Paper Developer Product and Services

8.4.4 Shenyang Photosensitive Chemical Phenol-free Thermal Paper Developer Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 Shenyang Photosensitive Chemical Recent Developments/Updates

- 8.4.6 Shenyang Photosensitive Chemical Competitive Strengths & Weaknesses
- 8.5 Weifang Dayoo Biochemical
  - 8.5.1 Weifang Dayoo Biochemical Details
  - 8.5.2 Weifang Dayoo Biochemical Major Business
  - 8.5.3 Weifang Dayoo Biochemical Phenol-free Thermal Paper Developer Product and Services
  - 8.5.4 Weifang Dayoo Biochemical Phenol-free Thermal Paper Developer Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.5.5 Weifang Dayoo Biochemical Recent Developments/Updates
  - 8.5.6 Weifang Dayoo Biochemical Competitive Strengths & Weaknesses
- 8.6 Shouguang Nuomeng Chemical
  - 8.6.1 Shouguang Nuomeng Chemical Details
  - 8.6.2 Shouguang Nuomeng Chemical Major Business
  - 8.6.3 Shouguang Nuomeng Chemical Phenol-free Thermal Paper Developer Product and Services
  - 8.6.4 Shouguang Nuomeng Chemical Phenol-free Thermal Paper Developer Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.6.5 Shouguang Nuomeng Chemical Recent Developments/Updates
  - 8.6.6 Shouguang Nuomeng Chemical Competitive Strengths & Weaknesses

## **9 INDUSTRY CHAIN ANALYSIS**

- 9.1 Phenol-free Thermal Paper Developer Industry Chain
- 9.2 Phenol-free Thermal Paper Developer Upstream Analysis
  - 9.2.1 Phenol-free Thermal Paper Developer Core Raw Materials
  - 9.2.2 Main Manufacturers of Phenol-free Thermal Paper Developer Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Phenol-free Thermal Paper Developer Production Mode
- 9.6 Phenol-free Thermal Paper Developer Procurement Model
- 9.7 Phenol-free Thermal Paper Developer Industry Sales Model and Sales Channels
  - 9.7.1 Phenol-free Thermal Paper Developer Sales Model
  - 9.7.2 Phenol-free Thermal Paper Developer Typical Distributors

## **10 RESEARCH FINDINGS AND CONCLUSION**

## **11 APPENDIX**

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Wearables Inertial Measurement Unit (IMU) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Wearables Inertial Measurement Unit (IMU) Production Value by Region (2021-2026) & (USD Million)

Table 3. World Wearables Inertial Measurement Unit (IMU) Production Value by Region (2027-2032) & (USD Million)

Table 4. World Wearables Inertial Measurement Unit (IMU) Production Value Market Share by Region (2021-2026)

Table 5. World Wearables Inertial Measurement Unit (IMU) Production Value Market Share by Region (2027-2032)

Table 6. World Wearables Inertial Measurement Unit (IMU) Production by Region (2021-2026) & (K Units)

Table 7. World Wearables Inertial Measurement Unit (IMU) Production by Region (2027-2032) & (K Units)

Table 8. World Wearables Inertial Measurement Unit (IMU) Production Market Share by Region (2021-2026)

Table 9. World Wearables Inertial Measurement Unit (IMU) Production Market Share by Region (2027-2032)

Table 10. World Wearables Inertial Measurement Unit (IMU) Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Wearables Inertial Measurement Unit (IMU) Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Wearables Inertial Measurement Unit (IMU) Major Market Trends

Table 13. World Wearables Inertial Measurement Unit (IMU) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Wearables Inertial Measurement Unit (IMU) Consumption by Region (2021-2026) & (K Units)

Table 15. World Wearables Inertial Measurement Unit (IMU) Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Wearables Inertial Measurement Unit (IMU) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Wearables Inertial Measurement Unit (IMU) Producers in 2025

Table 18. World Wearables Inertial Measurement Unit (IMU) Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Wearables Inertial Measurement Unit (IMU) Producers in 2025

Table 20. World Wearables Inertial Measurement Unit (IMU) Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Wearables Inertial Measurement Unit (IMU) Company Evaluation Quadrant

Table 22. World Wearables Inertial Measurement Unit (IMU) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Wearables Inertial Measurement Unit (IMU) Production Site of Key Manufacturer

Table 24. Wearables Inertial Measurement Unit (IMU) Market: Company Product Type Footprint

Table 25. Wearables Inertial Measurement Unit (IMU) Market: Company Product Application Footprint

Table 26. Wearables Inertial Measurement Unit (IMU) Competitive Factors

Table 27. Wearables Inertial Measurement Unit (IMU) New Entrant and Capacity Expansion Plans

Table 28. Wearables Inertial Measurement Unit (IMU) Mergers & Acquisitions Activity

Table 29. United States VS China Wearables Inertial Measurement Unit (IMU) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Wearables Inertial Measurement Unit (IMU) Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Wearables Inertial Measurement Unit (IMU) Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Wearables Inertial Measurement Unit (IMU) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Wearables Inertial Measurement Unit (IMU) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Wearables Inertial Measurement Unit (IMU) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Wearables Inertial Measurement Unit (IMU) Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Wearables Inertial Measurement Unit (IMU) Production Market Share (2021-2026)

Table 37. China Based Wearables Inertial Measurement Unit (IMU) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Wearables Inertial Measurement Unit (IMU) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Wearables Inertial Measurement Unit (IMU)

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Wearables Inertial Measurement Unit (IMU) Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Wearables Inertial Measurement Unit (IMU) Production Market Share (2021-2026)

Table 42. Rest of World Based Wearables Inertial Measurement Unit (IMU) Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Wearables Inertial Measurement Unit (IMU) Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Wearables Inertial Measurement Unit (IMU) Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Wearables Inertial Measurement Unit (IMU) Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Wearables Inertial Measurement Unit (IMU) Production Market Share (2021-2026)

Table 47. World Wearables Inertial Measurement Unit (IMU) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Wearables Inertial Measurement Unit (IMU) Production by Type (2021-2026) & (K Units)

Table 49. World Wearables Inertial Measurement Unit (IMU) Production by Type (2027-2032) & (K Units)

Table 50. World Wearables Inertial Measurement Unit (IMU) Production Value by Type (2021-2026) & (USD Million)

Table 51. World Wearables Inertial Measurement Unit (IMU) Production Value by Type (2027-2032) & (USD Million)

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

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

Table 54. World Wearables Inertial Measurement Unit (IMU) Production Value by Inertial Sensor Composition, (USD Million), 2021 & 2025 & 2032

Table 55. World Wearables Inertial Measurement Unit (IMU) Production by Inertial Sensor Composition (2021-2026) & (K Units)

Table 56. World Wearables Inertial Measurement Unit (IMU) Production by Inertial Sensor Composition (2027-2032) & (K Units)

Table 57. World Wearables Inertial Measurement Unit (IMU) Production Value by Inertial Sensor Composition (2021-2026) & (USD Million)

Table 58. World Wearables Inertial Measurement Unit (IMU) Production Value by Inertial Sensor Composition (2027-2032) & (USD Million)

Table 59. World Wearables Inertial Measurement Unit (IMU) Average Price by Inertial Sensor Composition (2021-2026) & (US\$/Unit)

Table 60. World Wearables Inertial Measurement Unit (IMU) Average Price by Inertial Sensor Composition (2027-2032) & (US\$/Unit)

Table 61. World Wearables Inertial Measurement Unit (IMU) Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Table 62. World Wearables Inertial Measurement Unit (IMU) Production by Manufacturing Process (2021-2026) & (K Units)

Table 63. World Wearables Inertial Measurement Unit (IMU) Production by Manufacturing Process (2027-2032) & (K Units)

Table 64. World Wearables Inertial Measurement Unit (IMU) Production Value by Manufacturing Process (2021-2026) & (USD Million)

Table 65. World Wearables Inertial Measurement Unit (IMU) Production Value by Manufacturing Process (2027-2032) & (USD Million)

Table 66. World Wearables Inertial Measurement Unit (IMU) Average Price by Manufacturing Process (2021-2026) & (US\$/Unit)

Table 67. World Wearables Inertial Measurement Unit (IMU) Average Price by Manufacturing Process (2027-2032) & (US\$/Unit)

Table 68. World Wearables Inertial Measurement Unit (IMU) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Wearables Inertial Measurement Unit (IMU) Production by Application (2021-2026) & (K Units)

Table 70. World Wearables Inertial Measurement Unit (IMU) Production by Application (2027-2032) & (K Units)

Table 71. World Wearables Inertial Measurement Unit (IMU) Production Value by Application (2021-2026) & (USD Million)

Table 72. World Wearables Inertial Measurement Unit (IMU) Production Value by Application (2027-2032) & (USD Million)

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

Table 74. World Wearables Inertial Measurement Unit (IMU) 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 Wearables Inertial Measurement Unit (IMU) Product and Services

Table 78. Bosch Wearables Inertial Measurement Unit (IMU) Production (K 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. TDK Basic Information, Manufacturing Base and Competitors
- Table 82. TDK Major Business
- Table 83. TDK Wearables Inertial Measurement Unit (IMU) Product and Services
- Table 84. TDK Wearables Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. TDK Recent Developments/Updates
- Table 86. TDK Competitive Strengths & Weaknesses
- Table 87. STMicroelectronics Basic Information, Manufacturing Base and Competitors
- Table 88. STMicroelectronics Major Business
- Table 89. STMicroelectronics Wearables Inertial Measurement Unit (IMU) Product and Services
- Table 90. STMicroelectronics Wearables Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. STMicroelectronics Recent Developments/Updates
- Table 92. STMicroelectronics Competitive Strengths & Weaknesses
- Table 93. Murata Basic Information, Manufacturing Base and Competitors
- Table 94. Murata Major Business
- Table 95. Murata Wearables Inertial Measurement Unit (IMU) Product and Services
- Table 96. Murata Wearables Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Murata Recent Developments/Updates
- Table 98. Murata Competitive Strengths & Weaknesses
- Table 99. Panasonic Basic Information, Manufacturing Base and Competitors
- Table 100. Panasonic Major Business
- Table 101. Panasonic Wearables Inertial Measurement Unit (IMU) Product and Services
- Table 102. Panasonic Wearables Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Panasonic Recent Developments/Updates
- Table 104. Panasonic Competitive Strengths & Weaknesses
- Table 105. Senodia Basic Information, Manufacturing Base and Competitors
- Table 106. Senodia Major Business
- Table 107. Senodia Wearables Inertial Measurement Unit (IMU) Product and Services
- Table 108. Senodia Wearables Inertial Measurement Unit (IMU) Production (K Units),

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

Table 109. Senodia Recent Developments/Updates

Table 110. Senodia Competitive Strengths & Weaknesses

Table 111. QST Corporation Basic Information, Manufacturing Base and Competitors

Table 112. QST Corporation Major Business

Table 113. QST Corporation Wearables Inertial Measurement Unit (IMU) Product and Services

Table 114. QST Corporation Wearables Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. QST Corporation Recent Developments/Updates

Table 116. QST Corporation Competitive Strengths & Weaknesses

Table 117. Silan Microelectronics Basic Information, Manufacturing Base and Competitors

Table 118. Silan Microelectronics Major Business

Table 119. Silan Microelectronics Wearables Inertial Measurement Unit (IMU) Product and Services

Table 120. Silan Microelectronics Wearables Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Silan Microelectronics Recent Developments/Updates

Table 122. Silan Microelectronics Competitive Strengths & Weaknesses

Table 123. Memsic Basic Information, Manufacturing Base and Competitors

Table 124. Memsic Major Business

Table 125. Memsic Wearables Inertial Measurement Unit (IMU) Product and Services

Table 126. Memsic Wearables Inertial Measurement Unit (IMU) Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Memsic Recent Developments/Updates

Table 128. Memsic Competitive Strengths & Weaknesses

Table 129. Global Key Players of Wearables Inertial Measurement Unit (IMU) Upstream (Raw Materials)

Table 130. Global Wearables Inertial Measurement Unit (IMU) Typical Customers

Table 131. Wearables Inertial Measurement Unit (IMU) Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Wearables Inertial Measurement Unit (IMU) Picture

Figure 2. World Wearables Inertial Measurement Unit (IMU) Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Wearables Inertial Measurement Unit (IMU) Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Wearables Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)

Figure 5. World Wearables Inertial Measurement Unit (IMU) Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Wearables Inertial Measurement Unit (IMU) Production Value Market Share by Region (2021-2032)

Figure 7. World Wearables Inertial Measurement Unit (IMU) Production Market Share by Region (2021-2032)

Figure 8. North America Wearables Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)

Figure 9. Europe Wearables Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)

Figure 10. China Wearables Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)

Figure 11. Japan Wearables Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)

Figure 12. South Korea Wearables Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)

Figure 13. Southeast Asia Wearables Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)

Figure 14. China Taiwan Wearables Inertial Measurement Unit (IMU) Production (2021-2032) & (K Units)

Figure 15. Wearables Inertial Measurement Unit (IMU) Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Wearables Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 18. World Wearables Inertial Measurement Unit (IMU) Consumption Market Share by Region (2021-2032)

Figure 19. United States Wearables Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 20. China Wearables Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 21. Europe Wearables Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 22. Japan Wearables Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 23. South Korea Wearables Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Wearables Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 25. India Wearables Inertial Measurement Unit (IMU) Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Wearables Inertial Measurement Unit (IMU) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Wearables Inertial Measurement Unit (IMU) Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Wearables Inertial Measurement Unit (IMU) Markets in 2025

Figure 29. United States VS China: Wearables Inertial Measurement Unit (IMU) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Wearables Inertial Measurement Unit (IMU) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Wearables Inertial Measurement Unit (IMU) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Wearables Inertial Measurement Unit (IMU) Production Market Share 2025

Figure 33. China Based Manufacturers Wearables Inertial Measurement Unit (IMU) Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Wearables Inertial Measurement Unit (IMU) Production Market Share 2025

Figure 35. World Wearables Inertial Measurement Unit (IMU) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Wearables Inertial Measurement Unit (IMU) Production Value Market Share by Type in 2025

Figure 37. 4-axis

Figure 38. 6-axis

Figure 39. Others

Figure 40. World Wearables Inertial Measurement Unit (IMU) Production Market Share by Type (2021-2032)

Figure 41. World Wearables Inertial Measurement Unit (IMU) Production Value Market Share by Type (2021-2032)

Figure 42. World Wearables Inertial Measurement Unit (IMU) Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World Wearables Inertial Measurement Unit (IMU) Production Value by Inertial Sensor Composition, (USD Million), 2021 & 2025 & 2032

Figure 44. World Wearables Inertial Measurement Unit (IMU) Production Value Market Share by Inertial Sensor Composition in 2025

Figure 45. MEMS-IMU

Figure 46. Non-MEMS-IMU

Figure 47. World Wearables Inertial Measurement Unit (IMU) Production Market Share by Inertial Sensor Composition (2021-2032)

Figure 48. World Wearables Inertial Measurement Unit (IMU) Production Value Market Share by Inertial Sensor Composition (2021-2032)

Figure 49. World Wearables Inertial Measurement Unit (IMU) Average Price by Inertial Sensor Composition (2021-2032) & (US\$/Unit)

Figure 50. World Wearables Inertial Measurement Unit (IMU) Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Figure 51. World Wearables Inertial Measurement Unit (IMU) Production Value Market Share by Manufacturing Process in 2025

Figure 52. CMOS IMU

Figure 53. SOC IMU

Figure 54. Others

Figure 55. World Wearables Inertial Measurement Unit (IMU) Production Market Share by Manufacturing Process (2021-2032)

Figure 56. World Wearables Inertial Measurement Unit (IMU) Production Value Market Share by Manufacturing Process (2021-2032)

Figure 57. World Wearables Inertial Measurement Unit (IMU) Average Price by Manufacturing Process (2021-2032) & (US\$/Unit)

Figure 58. World Wearables Inertial Measurement Unit (IMU) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Wearables Inertial Measurement Unit (IMU) Production Value Market Share by Application in 2025

Figure 60. Smartwatches/Fitness Trackers

Figure 61. Professional Sports Wearables

Figure 62. Health and Medical Wearables

Figure 63. Others

Figure 64. World Wearables Inertial Measurement Unit (IMU) Production Market Share by Application (2021-2032)

Figure 65. World Wearables Inertial Measurement Unit (IMU) Production Value Market Share by Application (2021-2032)

Figure 66. World Wearables Inertial Measurement Unit (IMU) Average Price by Application (2021-2032) & (US\$/Unit)

Figure 67. Wearables Inertial Measurement Unit (IMU) Industry Chain

Figure 68. Wearables Inertial Measurement Unit (IMU) Procurement Model

Figure 69. Wearables Inertial Measurement Unit (IMU) Sales Model

Figure 70. Wearables Inertial Measurement Unit (IMU) Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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