

Inertial Measurement Unit Market by Component (Accelerometer, Gyroscope, Magnetometer, Others), Grade (Marine, Navigation, Tactical, Space, Commercial), Technology (MO, RLG, FOG, MEMS), Platform, End User and Region - Forecast to 2026

<https://marketpublishers.com/r/I94D9FC9F95EN.html>

Date: February 2022

Pages: 250

Price: US\$ 4,950.00 (Single User License)

ID: I94D9FC9F95EN

Abstracts

The market for inertial measurement unit is estimated to be USD 21.3 billion in 2021 and is projected to reach USD 40.7 billion by 2026, at a CAGR of 13.8% during the forecast period. The growth of this market is mainly driven by the high-volume production of smartphones, increase in demand for missiles and rise in aircraft deliveries.

The inertial measurement unit market includes major players General Electric (US), Honeywell (US), Bosch (Germany), Safran (France), and Northrop Grumman (US). These players have spread their business across various countries includes North America, Europe, Asia Pacific, Middle East, and Rest of the World. COVID-19 has impacted their businesses as well.

The gyroscope segment is estimated to lead the market during the forecast period, with a share of 57% in 2021. Gyroscopes are used in various devices to calculate their actual velocity until these devices stabilize and provide the measurement of the angular velocity proportional to the external torque applied. They are used in different types of aircraft. Gyroscopes find application in the defense sector. They are also used in various industrial applications. Gyroscopes are extensively used in the consumer electronics and automotive industries. They are widely used in smartphones, owing to their orientation and rotation measurement capabilities.

“The MEMS segment is projected to witness the highest CAGR during the forecast

period.”

Based on technology, the MEMS segment is projected to be the highest CAGR rate for the inertial measurement unit market during the forecast period. These small, lightweight systems have an advantage over other types of IMUs due to their less weight and comparatively higher accuracy with a compact size. MEMS-based IMUs are expected to replace FOG IMUs in tactical grade performance applications in the coming years.

“The commercial grade segment is projected to witness the highest CAGR during the forecast period.”

Based on the grade, the commercial grade segment is projected to grow at the highest CAGR rate for the inertial measurement unit market during the forecast period. Commercial grade IMUs include consumer grade IMUs and enterprise-grade IMUs. Consumer grade IMUs are used for low-end applications such as phones, tablets, automobile airbag systems, etc., while enterprise-grade IMUs are used in small UAVs.

“The satellites/space vehicles segment is projected to witness the highest CAGR during the forecast period”

Based on platform, the satellites/space vehicles segment is projected to grow at the highest CAGR rate for the inertial measurement unit market during the forecast period. They are used for television broadcasting, telephones, satellite-based navigation, and weather forecasting and are equipped with sophisticated satellite telescopes for space research. They are also used for search and rescue missions as well as monitoring ocean, wind currents, forest fires, oil spills, airborne pollution.

“The commercial segment is projected to witness the highest CAGR during the forecast period.”

Based on the end user, the commercial segment is projected to grow at the highest CAGR rate for the inertial measurement unit market during the forecast period. IMUs serve as orientation sensors in many consumer products. Low-cost IMUs have enabled the proliferation of the consumer drone industry. They are also frequently used in the sports industry, like in technique training, and animation applications.

“The Asia Pacific market is projected to contribute the largest share from 2021 to 2030”

The majority of the Asia Pacific IMU market is accounted for by consumer electronic products. In addition, according to the Shipbuilders' Association of Japan, Asia Pacific accounts for a 96% share of the global merchant shipbuilding industry. As per OICA, car manufacturers in China and Japan alone constituted 42.8% of the global car production in 2020. Asia Pacific has a monopoly in industries such as consumer electronics, marine, and automobiles.

Breakdown of primaries The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type: Tier 1–39%; Tier 2–37%; and Tier 3–24%

By Designation: C Level–35%; Directors–27%; and Others–38%

By Region: North America–55%; Europe–27%; Asia Pacific–9%; and Rest of the World–9%

The inertial measurement unit market is dominated by a few globally established players such as General Electric (US), Honeywell (US), Bosch (Germany), Safran (France), and Northrop Grumman (US).

Research Coverage

The study covers the inertial measurement unit market across various segments and subsegments. It aims at estimating the size and growth potential of this market across different segments based on product, class, aircraft type, end user and by region. This study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to their product and business offerings, recent developments undertaken by them, and key market strategies adopted by them.

Reasons to Buy this Report

This report is expected to help market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall Inertial Measurement Unit Market and its segments. This study is also expected to provide region wise information about the end use, and what types of inertial measurement units are used.

This report aims at helping the stakeholders understand the competitive landscape of the market, gain insights to improve the position of their businesses and plan suitable go-to-market strategies. This report is also expected to help them understand the pulse of the market and provide them with information on key drivers, restraints, challenges, and opportunities influencing the growth of the market.

Contents

1 INTRODUCTION

1.1 OBJECTIVES OF THE STUDY

1.2 MARKET DEFINITION

1.3 MARKET SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 INERTIAL MEASUREMENT UNIT MARKET SEGMENTATION

1.3.2 YEARS CONSIDERED FOR THE STUDY

1.4 INCLUSIONS AND EXCLUSIONS

TABLE 1 INCLUSIONS AND EXCLUSIONS IN INERTIAL MEASUREMENT UNIT MARKET

1.5 CURRENCY & PRICING

1.6 LIMITATIONS

1.7 MARKET STAKEHOLDERS

1.8 SUMMARY OF CHANGES

FIGURE 2 INERTIAL MEASUREMENT UNIT MARKET TO GROW AT HIGHER RATE COMPARED TO PREVIOUS ESTIMATES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 3 RESEARCH PROCESS FLOW

FIGURE 4 IMU MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key primary sources

2.2 DEMAND & SUPPLY-SIDE ANALYSIS

2.2.1 INTRODUCTION

2.2.2 DEMAND-SIDE INDICATORS

2.2.2.1 Rise in global air passenger and cargo traffic

2.2.3 SUPPLY-SIDE INDICATORS

2.2.3.1 Adoption of MEMS in aircraft and defense applications

2.3 MARKET SIZE ESTIMATION

2.3.1 SEGMENTS AND SUBSEGMENTS

2.4 RESEARCH APPROACH & METHODOLOGY

2.4.1 BOTTOM-UP APPROACH

TABLE 2 IMU MARKET FOR PLATFORM

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.4.2 TOP-DOWN APPROACH

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.5 MARKET BREAKDOWN & DATA TRIANGULATION

FIGURE 7 DATA TRIANGULATION

2.6 GROWTH RATE ASSUMPTIONS

2.7 ASSUMPTIONS FOR THE RESEARCH STUDY

2.8 RISKS

3 EXECUTIVE SUMMARY

FIGURE 8 MEMS SEGMENT ESTIMATED TO DOMINATE INERTIAL MEASUREMENT UNIT MARKET, BY TECHNOLOGY, DURING 2021–2026 (USD MILLION)

FIGURE 9 GYROSCOPES SEGMENT ESTIMATED TO DOMINATE INERTIAL MEASUREMENT UNIT MARKET, BY COMPONENT, DURING 2021–2026 (USD MILLION)

FIGURE 10 COMMERCIAL SEGMENT ESTIMATED TO DOMINATE INERTIAL MEASUREMENT UNIT MARKET, BY END USER, DURING 2021–2026 (USD MILLION)

FIGURE 11 ASIA PACIFIC ACCOUNTED FOR LARGEST SHARE OF INERTIAL MEASUREMENT UNIT MARKET IN 2021

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE GROWTH OPPORTUNITIES IN INERTIAL MEASUREMENT UNIT MARKET

FIGURE 12 HIGH VOLUME PRODUCTION OF SMARTPHONES AND RISE IN AIRCRAFT DELIVERIES EXPECTED TO DRIVE MARKET FROM 2021 TO 2026

4.2 INERTIAL MEASUREMENT UNIT MARKET, BY GRADE

FIGURE 13 COMMERCIAL GRADE SEGMENT PROJECTED TO LEAD MARKET FROM 2021 TO 2026

4.3 INERTIAL MEASUREMENT UNIT MARKET, BY TOP COUNTRIES

FIGURE 14 INERTIAL MEASUREMENT UNIT MARKET IN JAPAN PROJECTED TO REGISTER HIGHEST CAGR FROM 2021 TO 2026

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 15 INERTIAL MEASUREMENT UNIT MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 High volume production of smartphones

TABLE 3 TOP FIVE SMARTPHONE MANUFACTURERS' SHIPMENTS AND MARKET SHARE, 2019-2020 (MILLION UNITS)

5.2.1.2 Increased demand for missiles due to geopolitical instability and changing nature of warfare

TABLE 4 LIST OF ONGOING GEOPOLITICAL ISSUES AND CONFLICTS

5.2.1.3 Increasing demand for accuracy in navigation

5.2.1.4 Availability of miniaturized components at affordable prices

5.2.1.5 Rise in aircraft deliveries

FIGURE 16 AIRCRAFT DELIVERED BY BOEING AND AIRBUS, 2016?2021

5.2.2 RESTRAINTS

5.2.2.1 Operational complexities associated with high-end IMUs

5.2.2.2 Fluctuation in defense budgets of developed countries

TABLE 5 DEFENSE EXPENDITURE OF DEVELOPED COUNTRIES, 2011-2020 (USD BILLION)

5.2.3 OPPORTUNITIES

5.2.3.1 Booming VR and AR technologies

5.2.3.1.1 Penetration of AR/VR in multiple industries

5.2.3.1.2 Increased capital investments

5.2.3.2 Enhanced performance upon integration with other systems

5.2.3.3 Technological advancements in MEMS-based IMUs

5.2.3.4 Development of driverless vehicles

5.2.3.5 Growing demand for unmanned aerial vehicles

FIGURE 17 DRONE MARKET, 2017-2026 (USD MILLION)

5.2.4 CHALLENGES

5.2.4.1 Error propagation

5.2.4.2 Time required for system initialization

5.2.4.3 Restrictions in commercial use of drones

5.3 COVID-19 IMPACT SCENARIOS

FIGURE 18 RANGES AND SCENARIOS FOR INERTIAL MEASUREMENT UNIT MARKET

5.4 COVID-19 IMPACT ON INERTIAL MEASUREMENT UNIT MARKET

TABLE 6 COVID-19 IMPACT ON PASSENGER NUMBERS AND PASSENGER REVENUE

TABLE 7 COVID-19 IMPACT ON TABLET SHIPMENTS (MILLION UNITS)

5.5 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESS

5.5.1 ENHANCING UAVS PERFORMANCE BY USING INERTIAL MEASUREMENT UNIT

FIGURE 19 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS

5.6 MARKET ECOSYSTEM

5.6.1 PROMINENT COMPANIES

5.6.2 PRIVATE AND SMALL ENTERPRISES

5.6.3 END USERS

FIGURE 20 INERTIAL MEASUREMENT UNIT ECOSYSTEM

TABLE 8 INERTIAL MEASUREMENT UNIT MARKET ECOSYSTEM

5.7 PRICING ANALYSIS

5.7.1 COST OF INERTIAL MEASUREMENT UNIT USED FOR VARIOUS GRADES AND MANUFACTURERS OF IMUS

5.8 TARIFF REGULATORY LANDSCAPE FOR AEROSPACE INDUSTRY

5.8.1 TARIFF AND REGULATORY LANDSCAPE FOR CONSUMER ELECTRONICS

5.8.2 TARIFF AND REGULATORY LANDSCAPE FOR MARINE INDUSTRY

5.8.3 TARIFF AND REGULATORY LANDSCAPE FOR AUTOMOTIVE INDUSTRY

5.9 TRADE DATA

5.9.1 TRADE ANALYSIS

TABLE 9 COUNTRY-WISE EXPORTS, 2019-2020 (USD THOUSAND)

TABLE 10 COUNTRY-WISE IMPORTS, 2019-2020 (USD THOUSAND)

5.10 VALUE CHAIN ANALYSIS OF INERTIAL MEASUREMENT UNIT MARKET

FIGURE 21 VALUE CHAIN ANALYSIS

5.11 PORTER'S FIVE FORCES MODEL

FIGURE 22 PORTER'S FIVE FORCE ANALYSIS OF INERTIAL MEASUREMENT UNIT MARKET

TABLE 11 INERTIAL MEASUREMENT UNIT MARKET: PORTER'S FIVE FORCES ANALYSIS

5.11.1 THREAT OF NEW ENTRANTS

5.11.2 THREAT OF SUBSTITUTES

5.11.3 BARGAINING POWER OF SUPPLIERS

5.11.4 BARGAINING POWER OF BUYERS

5.11.5 COMPETITION IN THE INDUSTRY

5.12 TECHNOLOGY ANALYSIS

5.12.1 MEMS FOR CONSUMER & AUTOMOTIVE APPLICATIONS

5.13 USE CASE

5.13.1 SILICON MEMS BY SILICON SENSING SYSTEMS LIMITED

5.13.2 RUGGED IMUS BY HONEYWELL INTERNATIONAL INC.

5.14 OPERATIONAL DATA

TABLE 12 NEW COMMERCIAL AIRPLANE DELIVERIES, BY REGION, 2019-2038

TABLE 13 NUMBER OF SMARTPHONE USERS IN 2020, BY COUNTRY

TABLE 14 MOTOR VEHICLE PRODUCTION IN 2020, BY COUNTRY (MILLION UNITS)

5.15 AVERAGE SELLING PRICE

TABLE 15 AVERAGE SELLING PRICE: IMU, BY PLATFORM (USD MILLION)

5.16 VOLUME DATA

TABLE 16 IMU MARKET SIZE, BY PLATFORM (UNITS)

TABLE 17 IMU MARKET SIZE, BY PLATFORM (UNITS)

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 SUPPLY CHAIN ANALYSIS

FIGURE 23 SUPPLY CHAIN ANALYSIS

6.2.1 MAJOR COMPANIES

6.2.2 INERTIAL MEASUREMENT UNIT MANUFACTURERS

6.2.3 END USERS/CUSTOMERS

6.3 EMERGING INDUSTRY TRENDS

6.3.1 WIRELESS INERTIAL MEASUREMENT UNIT

6.3.2 GPS-AIDED INS

6.3.3 ADIRU

6.3.4 IMU FOR AR/VR

6.4 INNOVATIONS AND PATENTS REGISTRATIONS, 2011-2021

TABLE 18 INNOVATION AND PATENT REGISTRATION

6.5 IMPACT OF MEGATREND

6.5.1 HYBRID VTOL UAVS AND INERTIAL MEASUREMENT UNIT

6.5.2 INERTIAL MEASUREMENT UNIT FOR UNMANNED VEHICLES

7 INERTIAL MEASUREMENT UNIT MARKET, BY COMPONENT

7.1 INTRODUCTION

FIGURE 24 BY COMPONENT, GYROSCOPES SEGMENT PROJECTED TO LEAD MARKET DURING FORECAST PERIOD

TABLE 19 INERTIAL MEASUREMENT UNIT MARKET, BY COMPONENT, 2017–2020 (USD MILLION)

TABLE 20 INERTIAL MEASUREMENT UNIT MARKET, BY COMPONENT, 2021–2026 (USD MILLION)

7.2 ACCELEROMETERS

7.2.1 ACCELEROMETERS ARE USED TO MEASURE ACCELERATION INDUCED BY FORCES ACTING IN ONE OR MULTIPLE DIRECTIONS.

7.3 GYROSCOPES

7.3.1 GYROSCOPES ARE SILICON-BASED SENSORS USED TO MEASURE ANGULAR VELOCITY IN THREE DIMENSIONS

7.4 MAGNETOMETERS

7.4.1 MAGNETOMETERS ARE USED IN IMUS TO DETECT DIRECTION OF MAGNETIC FIELD AT ANY POINT IN SPACE

7.5 OTHER SENSORS

7.5.1 PRESSURE SENSORS CAN BE USED TO MEASURE BAROMETRIC PRESSURE, ENABLING ACCURATE ALTITUDE MEASUREMENTS

8 INERTIAL MEASUREMENT UNIT MARKET, BY TECHNOLOGY

8.1 INTRODUCTION

FIGURE 25 BY TECHNOLOGY, MEMS SEGMENT PROJECTED TO LEAD MARKET DURING FORECAST PERIOD

TABLE 21 INERTIAL MEASUREMENT UNIT MARKET, BY TECHNOLOGY, 2017–2020 (USD MILLION)

TABLE 22 INERTIAL MEASUREMENT UNIT MARKET, BY TECHNOLOGY, 2021–2026 (USD MILLION)

8.2 MECHANICAL GYRO

8.2.1 INCREASING USAGE IN MARINE AND SUBMARINE PLATFORMS

8.3 RING LASER GYRO

8.3.1 RING LASER GYRO PRIMARILY USED IN MILITARY AIRCRAFT, MISSILES, SHIPS, AND SUBMARINES

8.4 FIBER OPTIC GYRO

8.4.1 FIBER OPTIC GYRO USED IN APPLICATIONS THAT REQUIRE HIGH RELIABILITY AND ACCURACY, SUCH AS SPACE, AIRCRAFT, AND MISSILE APPLICATIONS

8.5 MEMS

8.5.1 INCREASING USAGE IN TACTICAL GRADE PERFORMANCE APPLICATIONS

8.6 OTHERS

8.6.1 INCREASING USAGE IN SPACE APPLICATIONS AND MAINTENANCE-FREE MARINE GYROCOMPASSES, TARGET LOCATORS, AND NAVIGATION SYSTEMS

9 INERTIAL MEASUREMENT UNIT MARKET, BY GRADE

9.1 INTRODUCTION

FIGURE 26 BY GRADE, COMMERCIAL GRADE SEGMENT IS PROJECTED TO LEAD MARKET DURING FORECAST PERIOD

TABLE 23 INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 24 INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

9.2 MARINE GRADE

9.2.1 MARINE GRADE SYSTEMS USED FOR ORIENTATION AND ACCURATE POSITIONING OF SHIPS

9.3 NAVIGATION GRADE

9.3.1 NAVIGATION GRADE SYSTEMS ARE COMBINED WITH GPS TECHNOLOGY FOR ACCURATE POSITIONING IN REAL-TIME

9.4 TACTICAL GRADE

9.4.1 TACTICAL GRADE IMUS ARE USED TO PROVIDE STANDALONE NAVIGATION SOLUTIONS FOR DEFENSE SECTOR

9.5 SPACE GRADE

9.5.1 SPACE GRADE IMUS ARE USED FOR SPACE NAVIGATION APPLICATIONS, WHICH REQUIRE HIGH ACCURACY, ESPECIALLY DURING HIGHLY DYNAMIC FLIGHT PHASES

9.6 COMMERCIAL GRADE

9.6.1 COMMERCIAL GRADE SYSTEMS ARE USED EXTENSIVELY IN UNDERWATER ROBOTIC VEHICLES, CONSUMER UAVS, AND AUTOMOBILES

10 INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM

10.1 INTRODUCTION

FIGURE 27 BY PLATFORM, CONSUMER ELECTRONICS SEGMENT PROJECTED TO LEAD MARKET DURING FORECAST PERIOD

TABLE 25 INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 26 INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

10.2 AIRCRAFT

10.2.1 CIVIL AIRCRAFT

TABLE 27 IMU MARKET SIZE, BY CIVIL AIRCRAFT, 2017–2020 (USD MILLION)

TABLE 28 IMU MARKET SIZE, BY CIVIL AIRCRAFT, 2021–2026 (USD MILLION)

10.2.1.1 General aviation

10.2.1.1.1 Increased preference for cost-effective air travel for luxury and recreational activities to drive market growth

10.2.1.2 Commercial cargo/passenger aircraft

10.2.1.2.1 Growing air passenger traffic and replacement of aging aircraft by different airlines to drive market growth

10.2.1.3 Civil helicopters

10.2.1.3.1 Increasing demand for commercial helicopters to ensure efficient regional connectivity to drive market growth

10.2.2 MILITARY AIRCRAFT

TABLE 29 IMU MARKET SIZE, BY MILITARY AIRCRAFT, 2017–2020 (USD MILLION)

TABLE 30 IMU MARKET SIZE, BY MILITARY AIRCRAFT, 2021–2026 (USD MILLION)

10.2.2.1 Fighter aircraft

10.2.2.1.1 Increasing deliveries of fighter jets across regions to drive market growth

10.2.2.2 Military helicopters

10.2.2.2.1 Demand for military helicopters driven by procurement plans of emerging economies and rapidly evolving global geopolitical dynamics, which will, in turn, drive IMU market

10.2.2.3 Transport aircraft

10.2.2.3.1 IMU market to be comparatively low in transport carrier platform as budget cuts expected in developing countries

10.3 MISSILES

TABLE 31 IMU MARKET SIZE, BY MISSILES, 2017–2020 (USD MILLION)

TABLE 32 IMU MARKET SIZE, BY MISSILES, 2021–2026 (USD MILLION)

10.3.1 CRUISE MISSILES

10.3.1.1 Modern cruise missiles can fly at high speeds and are self-navigating with maximum precision

10.3.2 BALLISTIC MISSILES

10.3.2.1 Increasing tension across regions to increase ballistic missiles development, in turn, driving IMU market

10.4 SATELLITES/SPACE VEHICLES

TABLE 33 IMU MARKET SIZE, BY SATELLITES/SPACE VEHICLES, 2017–2020 (USD MILLION)

TABLE 34 IMU MARKET SIZE, BY SATELLITES/SPACE VEHICLES, 2021–2026 (USD MILLION)

10.4.1 CUBESAT

10.4.1.1 Increasing usage in Earth observation and amateur radio

10.4.2 SMALL SATELLITE

10.4.2.1 Increasing usage to gather scientific data and radio delay

10.4.3 MEDIUM SATELLITE

10.4.3.1 Increasing usage in observation, communication, and navigation

10.4.4 LARGE SATELLITE

10.4.4.1 Compared to small and medium-sized satellites, large satellites are not frequently launched or developed

10.5 MARINE VESSELS

TABLE 35 IMU MARKET SIZE, BY MARINE VESSELS, 2017–2020 (USD MILLION)

TABLE 36 IMU MARKET SIZE, BY MARINE VESSELS, 2021–2026 (USD MILLION)

10.5.1 COMMERCIAL

10.5.1.1 Increasing need for commercial ships by countries for logistical applications

10.5.2 DEFENSE

10.5.2.1 Increasing use for combat operations and as vessels for different vehicles

10.6 MILITARY VEHICLES

TABLE 37 IMU MARKET SIZE, BY MILITARY VEHICLES, 2017–2020 (USD MILLION)

TABLE 38 IMU MARKET SIZE, BY MILITARY VEHICLES, 2021–2026 (USD MILLION)

10.6.1 COMBAT VEHICLES

10.6.1.1 Increasing usage of IMUs in navigation, tracking, and self-propelled artillery

10.6.2 SUPPORT VEHICLES

10.6.2.1 Increasing usage in transportation of personnel and equipment

10.7 UAVS

TABLE 39 IMU MARKET SIZE, BY UAVS, 2017–2020 (USD MILLION)

TABLE 40 IMU MARKET SIZE, BY UAVS, 2021–2026 (USD MILLION)

10.7.1 COMMERCIAL UAVS

10.7.1.1 Increasing usage in wide range of consumer and enterprise-based applications

10.7.2 MILITARY UAVS

10.7.2.1 Increasing usage in tactical and ISR missions

10.8 UNMANNED GROUND VEHICLES (UGVS)

TABLE 41 IMU MARKET SIZE, BY UGVS, 2017–2020 (USD MILLION)

TABLE 42 IMU MARKET SIZE, BY UGVS, 2021–2026 (USD MILLION)

10.8.1 COMMERCIAL UGVS

10.8.1.1 Increasing usage for transportation and patrolling within enterprises

10.8.2 MILITARY UGVS

10.8.2.1 Increasing usage in ISR and related missions

10.9 UNMANNED MARINE VEHICLES (UMVS)

TABLE 43 IMU MARKET SIZE, BY UMVS, 2017–2020 (USD MILLION)

TABLE 44 IMU MARKET SIZE, BY UMVS, 2021–2026 (USD MILLION)

10.9.1 ROVS

10.9.1.1 Increasingly used in burying cables underwater and trenching

10.9.2 AUVS

10.9.2.1 Increasingly used to collect oceanographic data for extended periods with remote human supervision

10.9.3 USVS

10.9.3.1 Increasing usage in wide range of military and commercial applications

10.10 CONSUMER ELECTRONICS

TABLE 45 IMU MARKET SIZE, BY CONSUMER ELECTRONICS, 2017–2020 (USD MILLION)

TABLE 46 IMU MARKET SIZE, BY CONSUMER ELECTRONICS, 2021–2026 (USD MILLION)

10.10.1 SMARTPHONES

10.10.1.1 Increasing usage in motion sensing and indoor navigation

10.10.2 SMARTWATCHES

10.10.2.1 Need for motion tracking for fitness

10.10.3 OTHERS

10.10.3.1 Increasing developments in AR and VR applications

10.11 AUTOMOTIVE

TABLE 47 IMU MARKET SIZE, BY AUTOMOTIVE, 2017–2020 (USD MILLION)

TABLE 48 IMU MARKET SIZE, BY AUTOMOTIVE, 2021–2026 (USD MILLION)

10.11.1 COMMERCIAL VEHICLES

10.11.1.1 Increasingly used in driver assist and navigation

10.11.2 PASSENGER VEHICLES

10.11.2.1 Increasing usage in safety features

10.11.3 LAND SURVEY EQUIPMENT

10.11.4 INCREASING USAGE IN PLOT DIVISION AND CONSTRUCTION

ACTIVITIES

10.12 ADVANCED AIR MOBILITY

10.12.1 INCREASING USAGE OF IMU AND OTHER SENSORS FOR STABILITY AND NAVIGATION

11 INERTIAL MEASUREMENT UNIT MARKET, BY END USER

11.1 INTRODUCTION

FIGURE 28 BY END USER, COMMERCIAL SEGMENT PROJECTED TO LEAD MARKET DURING FORECAST PERIOD

TABLE 49 INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 50 INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

11.2 AEROSPACE & DEFENSE

11.2.1 IMUS USED FOR NAVIGATION, STABILITY, AND SAFETY PURPOSES

11.3 COMMERCIAL

11.3.1 IMUS USED EXTENSIVELY FOR ORIENTATION AND MOTION SENSOR APPLICATIONS

12 REGIONAL ANALYSIS

12.1 INTRODUCTION

FIGURE 29 ASIA PACIFIC ACCOUNTED FOR LARGEST SHARE OF INERTIAL MEASUREMENT UNIT MARKET IN 2021

TABLE 51 INERTIAL MEASUREMENT UNIT MARKET, BY REGION, 2017–2020 (USD MILLION)

TABLE 52 INERTIAL MEASUREMENT UNIT MARKET, BY REGION, 2021–2026 (USD MILLION)

12.2 NORTH AMERICA

FIGURE 30 NORTH AMERICA INERTIAL MEASUREMENT UNIT MARKET SNAPSHOT

12.2.1 PESTLE ANALYSIS: NORTH AMERICA

TABLE 53 NORTH AMERICA: INERTIAL MEASUREMENT UNIT MARKET, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 54 NORTH AMERICA: INERTIAL MEASUREMENT UNIT MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 55 NORTH AMERICA: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 56 NORTH AMERICA: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 57 NORTH AMERICA: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 58 NORTH AMERICA: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 59 NORTH AMERICA: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 60 NORTH AMERICA: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.2.2 US

12.2.2.1 Presence of major players drive US market

TABLE 61 US: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 62 US: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 63 US: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM,

2017–2020 (USD MILLION)

TABLE 64 US: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM,
2021–2026 (USD MILLION)

TABLE 65 US: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020
(USD MILLION)

TABLE 66 US: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026
(USD MILLION)

12.2.3 CANADA

12.2.3.1 Rise in consumer electronics and aerospace modernization programs to drive market growth

TABLE 67 CANADA: INERTIAL MEASUREMENT UNIT MARKET, BY END USER,
2017–2020 (USD MILLION)

TABLE 68 CANADA: INERTIAL MEASUREMENT UNIT MARKET, BY END USER,
2021–2026 (USD MILLION)

TABLE 69 CANADA: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM,
2017–2020 (USD MILLION)

TABLE 70 CANADA: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM,
2021–2026 (USD MILLION)

TABLE 71 CANADA: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE,
2017–2020 (USD MILLION)

TABLE 72 CANADA: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE,
2021–2026 (USD MILLION)

12.3 EUROPE

FIGURE 31 EUROPE INERTIAL MEASUREMENT UNIT MARKET SNAPSHOT

12.3.1 PESTLE ANALYSIS: EUROPE

TABLE 73 EUROPE: INERTIAL MEASUREMENT UNIT MARKET, BY COUNTRY,
2017–2020 (USD MILLION)

TABLE 74 EUROPE: INERTIAL MEASUREMENT UNIT MARKET, BY COUNTRY,
2021–2026 (USD MILLION)

TABLE 75 EUROPE: INERTIAL MEASUREMENT UNIT MARKET, BY END USER,
2017–2020 (USD MILLION)

TABLE 76 EUROPE: INERTIAL MEASUREMENT UNIT MARKET, BY END USER,
2021–2026 (USD MILLION)

TABLE 77 EUROPE: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM,
2017–2020 (USD MILLION)

TABLE 78 EUROPE: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM,
2021–2026 (USD MILLION)

TABLE 79 EUROPE: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE,
2017–2020 (USD MILLION)

TABLE 80 EUROPE: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.3.2 GERMANY

12.3.2.1 Investments in megatrends to drive market growth

TABLE 81 GERMANY: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 82 GERMANY: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 83 GERMANY: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 84 GERMANY: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 85 GERMANY: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 86 GERMANY: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.3.3 UK

12.3.3.1 Technological advancements in aerospace, smartphone, and industrial markets to drive growth of IMU market

TABLE 87 UK: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 88 UK: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 89 UK: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 90 UK: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 91 UK: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 92 UK: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.3.4 FRANCE

12.3.4.1 Heavy investments in aerospace to drive market

TABLE 93 FRANCE: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 94 FRANCE: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 95 FRANCE: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 96 FRANCE: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 97 FRANCE: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 98 FRANCE: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.3.5 ITALY

12.3.5.1 High demand for civil and corporate helicopters to drive market

TABLE 99 ITALY: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 100 ITALY: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 101 ITALY: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 102 ITALY: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 103 ITALY: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 104 ITALY: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.3.6 RUSSIA

12.3.6.1 Increase in military budget to manufacture advanced aircraft to drive market

TABLE 105 RUSSIA: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 106 RUSSIA: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 107 RUSSIA: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 108 RUSSIA: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 109 RUSSIA: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 110 RUSSIA: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.3.7 REST OF EUROPE

12.3.7.1 Increasing initiatives to strengthen aviation sector and passenger experience to drive market growth

TABLE 111 REST OF EUROPE: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 112 REST OF EUROPE: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 113 REST OF EUROPE: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 114 REST OF EUROPE: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 115 REST OF EUROPE: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 116 REST OF EUROPE: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.4 ASIA PACIFIC (APAC)

FIGURE 32 ASIA PACIFIC INERTIAL MEASUREMENT UNIT MARKET SNAPSHOT

12.4.1 PESTLE ANALYSIS: ASIA PACIFIC

TABLE 117 ASIA PACIFIC: INERTIAL MEASUREMENT UNIT MARKET, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 118 ASIA PACIFIC: INERTIAL MEASUREMENT UNIT MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 119 ASIA PACIFIC: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 120 ASIA PACIFIC: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 121 ASIA PACIFIC: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 122 ASIA PACIFIC: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 123 ASIA PACIFIC: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 124 ASIA PACIFIC: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.4.2 CHINA

12.4.2.1 Growth in manufacturing of consumer electronics to drive market

TABLE 125 CHINA: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 126 CHINA: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 127 CHINA: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 128 CHINA: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 129 CHINA: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 130 CHINA: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.4.3 JAPAN

12.4.3.1 Increased technological advancements to drive market growth

TABLE 131 JAPAN: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 132 JAPAN: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 133 JAPAN: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 134 JAPAN: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 135 JAPAN: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 136 JAPAN: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.4.4 INDIA

12.4.4.1 Five-year modernization plan for armed forces to drive market

TABLE 137 INDIA: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 138 INDIA: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 139 INDIA: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 140 INDIA: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 141 INDIA: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 142 INDIA: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.4.5 SOUTH KOREA

12.4.5.1 Growth in automobile manufacturing and advancements in UAM ecosystem to drive market growth

TABLE 143 SOUTH KOREA: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 144 SOUTH KOREA: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 145 SOUTH KOREA: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 146 SOUTH KOREA: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 147 SOUTH KOREA: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 148 SOUTH KOREA: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.4.6 REST OF APAC

12.4.6.1 Replacing aging aircraft fleet and establishment of AAM ecosystem to drive market

TABLE 149 REST OF APAC: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 150 REST OF APAC: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 151 REST OF APAC: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 152 REST OF APAC: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 153 REST OF APAC: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 154 REST OF APAC: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.5 REST OF THE WORLD (ROW)

TABLE 155 REST OF THE WORLD: INERTIAL MEASUREMENT UNIT MARKET, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 156 REST OF THE WORLD: INERTIAL MEASUREMENT UNIT MARKET, BY COUNTRY, 2021–2026 (USD MILLION)

TABLE 157 REST OF THE WORLD: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 158 REST OF THE WORLD: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 159 REST OF THE WORLD: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 160 REST OF THE WORLD: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 161 REST OF THE WORLD: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 162 REST OF THE WORLD: INERTIAL MEASUREMENT UNIT MARKET, BY

GRADE, 2021–2026 (USD MILLION)

12.5.1 BRAZIL

12.5.1.1 Increasing adoption and developments in establishing AAM ecosystem to drive market growth

TABLE 163 BRAZIL: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 164 BRAZIL: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 165 BRAZIL: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 166 BRAZIL: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 167 BRAZIL: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 168 BRAZIL: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

12.5.2 ISRAEL

12.5.2.1 Increasing government spending to drive market growth

TABLE 169 ISRAEL: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2017–2020 (USD MILLION)

TABLE 170 ISRAEL: INERTIAL MEASUREMENT UNIT MARKET, BY END USER, 2021–2026 (USD MILLION)

TABLE 171 ISRAEL: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2017–2020 (USD MILLION)

TABLE 172 ISRAEL: INERTIAL MEASUREMENT UNIT MARKET, BY PLATFORM, 2021–2026 (USD MILLION)

TABLE 173 ISRAEL: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2017–2020 (USD MILLION)

TABLE 174 ISRAEL: INERTIAL MEASUREMENT UNIT MARKET, BY GRADE, 2021–2026 (USD MILLION)

13 COMPETITIVE LANDSCAPE

13.1 INTRODUCTION

13.2 MARKET SHARE ANALYSIS, 2020

TABLE 175 DEGREE OF COMPETITION

FIGURE 33 MARKET SHARE OF TOP PLAYERS IN INERTIAL MEASUREMENT UNIT MARKET, 2020 (%)

FIGURE 34 REVENUE ANALYSIS OF TOP 5 MARKET PLAYERS, 2020

13.3 COMPANY EVALUATION QUADRANT

13.3.1 STAR

13.3.2 EMERGING LEADER

13.3.3 PERVASIVE

13.3.4 PARTICIPANT

FIGURE 35 INERTIAL MEASUREMENT UNIT MARKET COMPETITIVE LEADERSHIP MAPPING, 2020

13.4 STARTUP EVALUATION QUADRANT

13.4.1 PROGRESSIVE COMPANIES

13.4.2 RESPONSIVE COMPANIES

13.4.3 DYNAMIC COMPANIES

13.4.4 STARTING BLOCKS

FIGURE 36 INERTIAL MEASUREMENT UNIT MARKET STARTUPS/SME COMPETITIVE LEADERSHIP MAPPING, 2020

TABLE 176 COMPANY PRODUCT FOOTPRINT

TABLE 177 COMPANY FOOTPRINT, BY GRADE

TABLE 178 COMPANY FOOTPRINT, BY END USER

TABLE 179 COMPANY REGION FOOTPRINT

13.5 COMPETITIVE SCENARIO

13.5.1 DEALS

TABLE 180 DEALS, 2017–2021

13.5.2 PRODUCT LAUNCHES

TABLE 181 PRODUCT LAUNCHES, 2017–2021

14 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, MnM View Right to win, Strategic choices made, Weaknesses and competitive threats) *

14.1 KEY PLAYERS

14.1.1 GENERAL ELECTRIC

TABLE 182 GENERAL ELECTRIC: BUSINESS OVERVIEW

FIGURE 37 GENERAL ELECTRIC: COMPANY SNAPSHOT

TABLE 183 GENERAL ELECTRIC PRODUCTS/SOLUTIONS/SERVICES OFFERED

14.1.2 HONEYWELL INTERNATIONAL INC.

TABLE 184 HONEYWELL INTERNATIONAL INC.: BUSINESS OVERVIEW

FIGURE 38 HONEYWELL INTERNATIONAL INC.: COMPANY SNAPSHOT

TABLE 185 HONEYWELL INTERNATIONAL INC.

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 186 HONEYWELL INTERNATIONAL INC.: NEW PRODUCT DEVELOPMENTS

TABLE 187 HONEYWELL INTERNATIONAL INC.: DEALS

14.1.3 BOSCH

TABLE 188 BOSCH: BUSINESS OVERVIEW

FIGURE 39 BOSCH: COMPANY SNAPSHOT

TABLE 189 BOSCH PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 190 BOSCH: NEW PRODUCT DEVELOPMENTS

14.1.4 SAFRAN

TABLE 191 SAFRAN: BUSINESS OVERVIEW

FIGURE 40 SAFRAN: COMPANY SNAPSHOT

TABLE 192 SAFRAN PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 193 SAFRAN: NEW PRODUCT DEVELOPMENTS

TABLE 194 SAFRAN: DEALS

14.1.5 NORTHROP GRUMMAN CORPORATION

TABLE 195 NORTHROP GRUMMAN CORPORATION: BUSINESS OVERVIEW

FIGURE 41 NORTHROP GRUMMAN CORPORATION: COMPANY SNAPSHOT

TABLE 196 NORTHROP GRUMMAN CORPORATION

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 197 NORTHROP GRUMMAN CORPORATION: DEALS

14.1.6 GLADIATOR TECHNOLOGIES

TABLE 198 GLADIATOR TECHNOLOGIES: BUSINESS OVERVIEW

TABLE 199 GLADIATOR TECHNOLOGIES PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 200 GLADIATOR TECHNOLOGIES: NEW PRODUCT DEVELOPMENTS

14.1.7 PARKER-LORD MICROSTRAIN SENSING

TABLE 201 PARKER-LORD MICROSTRAIN SENSING: BUSINESS OVERVIEW

TABLE 202 PARKER-LORD MICROSTRAIN SENSING

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 203 PARKER-LORD MICROSTRAIN SENSING: NEW PRODUCT
DEVELOPMENTS

TABLE 204 PARKER-LORD MICROSTRAIN SENSING: DEALS

14.1.8 THALES GROUP

TABLE 205 THALES GROUP: BUSINESS OVERVIEW

FIGURE 42 THALES GROUP: COMPANY SNAPSHOT

TABLE 206 THALES GROUP PRODUCTS/SOLUTIONS/SERVICES OFFERED

14.1.9 STMICROELECTRONICS N.V.

TABLE 207 STMICROELECTRONICS N.V.: BUSINESS OVERVIEW

FIGURE 43 STMICROELECTRONICS N.V.: COMPANY SNAPSHOT

TABLE 208 STMICROELECTRONICS N.V. PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 209 STMICROELECTRONICS N.V.: NEW PRODUCT DEVELOPMENTS

14.1.10 TELEDYNE TECHNOLOGIES INTERNATIONAL CORP.

TABLE 210 TELEDYNE TECHNOLOGIES INTERNATIONAL CORP.: BUSINESS OVERVIEW

FIGURE 44 TELEDYNE TECHNOLOGIES INTERNATIONAL CORP.: COMPANY SNAPSHOT

TABLE 211 TELEDYNE TECHNOLOGIES INTERNATIONAL CORP. PRODUCTS/SOLUTIONS/SERVICES OFFERED

14.1.11 TDK CORPORATION

TABLE 212 TDK CORPORATION: BUSINESS OVERVIEW

FIGURE 45 TDK CORPORATION: COMPANY SNAPSHOT

TABLE 213 TDK CORPORATION PRODUCTS/SOLUTIONS/SERVICES OFFERED

14.1.12 VECTORNAV TECHNOLOGIES

TABLE 214 VECTORNAV TECHNOLOGIES: BUSINESS OVERVIEW

TABLE 215 VECTORNAV TECHNOLOGIES PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 216 VECTORNAV TECHNOLOGIES: NEW PRODUCT DEVELOPMENTS

TABLE 217 VECTORNAV TECHNOLOGIES: DEALS

14.1.13 KVH INDUSTRIES, INC.

TABLE 218 KVH INDUSTRIES, INC.: BUSINESS OVERVIEW

FIGURE 46 KVH INDUSTRIES, INC.: COMPANY SNAPSHOT

TABLE 219 KVH INDUSTRIES, INC. PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 220 KVH INDUSTRIES, INC.: NEW PRODUCT DEVELOPMENTS

TABLE 221 KVH INDUSTRIES, INC.: DEALS

14.1.14 ANALOG DEVICES, INC.

TABLE 222 ANALOG DEVICES, INC.: BUSINESS OVERVIEW

FIGURE 47 ANALOG DEVICES, INC.: COMPANY SNAPSHOT

TABLE 223 ANALOG DEVICES, INC. PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 224 ANALOG DEVICES, INC.: NEW PRODUCT DEVELOPMENTS

TABLE 225 ANALOG DEVICES, INC.: DEALS

14.1.15 XSENS TECHNOLOGIES B.V.

TABLE 226 XSENS TECHNOLOGIES B.V.: BUSINESS OVERVIEW

TABLE 227 XSENS TECHNOLOGIES B.V. PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 228 XSENS TECHNOLOGIES B.V.: NEW PRODUCT DEVELOPMENTS

TABLE 229 XSENS TECHNOLOGIES B.V.: DEALS

14.2 OTHER PLAYERS

14.2.1 WUXI BEWIS SENSING TECHNOLOGY LLC (BEWIS SENSING)

- 14.2.2 ACEINNA, INC.
- 14.2.3 M5STACK
- 14.2.4 TINKERFORGE GMBH
- 14.2.5 ADVANCED NAVIGATION
- 14.2.6 ASC GMBH
- 14.2.7 SBG SYSTEMS S.A.S.
- 14.2.8 INERTIAL LABS
- 14.2.9 IMAR NAVIGATION GMBH
- 14.2.10 VBOX AUTOMOTIVE

*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

15 APPENDIX

- 15.1 DISCUSSION GUIDE
- 15.2 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL
- 15.3 AVAILABLE CUSTOMIZATION
- 15.4 RELATED REPORTS
- 15.5 AUTHOR DETAILS

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