

Inertial Measurement Unit Market To Reach USD 31.49 Billion By 2028: Research Study by Reports and Data

Increasing advancement in the MEMs is a significant factor for the growth of the Inertial Measurement Unit industry

NEW YORK CITY, NEW YORK, USA,
August 1, 2022 /EINPresswire.com/ --

According to the current analysis by Reports and Data, the global [Inertial Measurement Unit market](#) size was valued at USD 20.38 Billion in 2020 and

is projected to grow at a CAGR of 5.50% during the forecast period. Factors affecting the increasing demand for the Inertial Measurement Unit market is the growing rate of applications in the Micro-Electromechanical Systems (MEMs). The rising demand from the consumers for equipment with better ergonomics will also be a significant factor for the growth of the market. IMU is also used in smartphones for various purposes. With the accelerated growth of the smartphone industry, the demand for Inertial Measurement Unit will also increase over the forecast period.

Some of the common applications of Inertial Measurement Unit include determining the direction in GPS systems, tracking the motion in the consumer electronics in cell phones or video game remotes. IMU is increasingly being used in the Augmented Reality (AR) and Virtual Reality (VR) systems. Industrial applications of IMU include alignment and measurement of the equipment like antennas. In the aerospace industry, Inertial Measurement Unit is used to maneuver the aircraft; both manned as well as unmanned. Future applications of Inertial Measurement Units (IMU) include coupling up the device with technologies like GPS, RF, and LiDAR, which will further enable accurate localization of people, vehicles and equipment, both indoor as well as outdoor.

Increasing smartphone industry is the primary factor attributing to the growth of the demand for Inertial Measurement Unit over the forecast period of 2019-2026.

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Further key findings from the report suggest

- The valuation for the Global Inertial Measurement Unit market was USD 20.38 Billion in 2020 and is forecasted to reach USD 31.49 Billion by 2028
- Increasing advancements in the MEMs is the primary reason for the growth of the Inertial Measurement Unit industry.
- The accumulated error of IMU equipment is the main factor that can restrain the growth of the market.
- Gyroscope, Magnetometer, and Accelerometer segments are projected to grow with similar rates over the forecasted period due to the three being an integral part of the IMU device.
- The equipment is increasingly being used in the land, defense, industrial, and aerospace applications in a bid to obtain a precise measurement of vector-based variables.
- The Inertial Measurement Unit industry is fairly competitive and consists of several dominant players. Some of the players currently dominate the market; however, the advancements in the MEMs type of sensor technology are allowing new entrants in the market to increase their market share.
- High growth of applications in the Micro-Electromechanical Systems (MEMS) will be the major factor for the increase in demand of IMU market over the forecasted period.
- Key participants include Honeywell International (U.S.), Thales Group (France), Bosch (Germany), Northrop Grumman Corporation (U.S.), Kvh Industries (U.S.), Moog, Inc.(U.S.), Rockwell Collins (U.S.), Fairchild Semiconductors (U.S.), Analog Devices (U.S.), Xsens (Netherlands), Sensoror AS (Norway), and VectorNav Technologies (U.S.).

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For the purpose of this study, Reports and Data has segmented the Inertial Measurement Unit Market on the basis of Gyro Techniques, Components, Platform, Applications, and Region:

Gyro Techniques (Revenue, USD Million; 2018–2028)

- Ring Laser Gyro
- Fiber Optic Gyro
- Hemispherical Resonator Gyro
- Micro-electrochemical systems
- Vibrating gyro
- Others

Components (Revenue, USD Million; 2018–2028)

- Gyroscope
- Magnetometer
- Accelerometer

Platform (Revenue, USD Million; 2018–2028)

- Aerial

- Land
- Naval

Applications (Revenue, USD Million; 2018–2028)

- Aerospace
 - oCivil Aviation
 - General Aircraft
 - Commercial Aircraft
 - Helicopters
 - oMilitary Aircraft
 - Fighter
 - Military Helicopters
 - Transport Carriers
 - oSpace launch vehicles
 - oDVs
- Marine
 - oMerchant Ships
 - oNaval Ships
 - oUnmanned Marine Vehicles
- Consumer Electronics
- Automotive
- Survey Equipment
- Others

Regional Outlook (Revenue in USD Million; 2016–2026)

- North America
 - oU.S.
 - oCanada
 - oMexico
- Europe
 - oGermany
 - oFrance
 - oU.K.
 - oSpain
 - oRest of Europe
- Asia Pacific
 - oChina
 - oIndia
 - oJapan
 - oAustralia
 - oRest of Asia-Pacific
- Rest of the World
- Middle East & Africa

•Latin America

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Nikhil Morankar

Reports and Data

+ 12127101370

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