

# **Microelectromechanical System (MEMS) Market by Type (Sensors, & Actuators), and Application (Consumer Electronics, Automotive, Industrial, Aerospace & Defense, Healthcare, and Telecommunication, and Others): Global Opportunity Analysis and Industry Forecast, 2019-2026**

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## **Abstracts**

The micro-electromechanical systems (MEMS) technology includes very small, moving mechanical parts, and electrical components. This technology is used to fabricate sensors such as accelerometers, gyroscopes, digital compasses, inertial modules, pressure sensors, humidity sensors, and microphones. The MEMS technology holds the largest share in the overall sensor market across the globe. The implementation of sensors made with MEMS technology in consumer electronic devices is another factor that boosts the market growth.

The automotive companies such as Audi, BMW, and Volkswagen, extend their R&D budgets every year to stay ahead in the competition. These vehicle manufacturing companies are increasing the number of MEMS sensors used in their vehicles to make them more comfortable and increase the overall automation. The rise in demand for automation in vehicles, high competition in the automotive industry, surge in demand for electric cars to control pollution, and increase in trend of driverless cars are a few prime factors that fuel the demand for sensors in the automotive industry across the globe and a high growth rate is ensured during the forecast period.

Factors such as growth in demand for smart consumer electronics, emerging trends in automation industry, and increasing popularity of IoT in semiconductor has boosted the growth of the global MEMS market. However, lack of standardized fabrication process

for MEMS and incorporation of sensor in devices incurs extra value and reduces life of device hamper the market growth. Furthermore, emerging trends toward autonomous vehicles and increase in adoption of wearable devices and innovative application in biomedical sector are expected to offer lucrative opportunities for market expansion.

The global microelectromechanical (MEMS) market is analyzed by type, industry vertical, and region. Based on type, the market is analyzed across sensors and actuators. The sensor type is further bifurcated into accelerometers, gyroscopes, magnetometers pressure sensor, optical sensors, environment sensors, and ultrasonic sensors. Further, the actuators type is further sub-segmented into, optical MEMS, microfluidics, RF MEMS, and Others. On the basis of industry vertical, the market is divided into consumer electronics, automotive, industrial, aerospace & defense, healthcare, and telecommunication. Based on region, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA along with their prominent countries.

The key players profiled in the report include Panasonic Corporation, Robert Bosch GmbH, STMicroelectronics N.V., Texas Instruments, Analog Devices Inc., Broadcom, Denso Corporation, HP Inc., NXP Semiconductors, and Knowles Corporation.

These key players have adopted strategies, such as product portfolio expansion, mergers & acquisitions, agreements, geographical expansion, and collaborations to enhance their market penetration.

## KEY BENEFITS FOR STAKEHOLDERS

This study includes the analytical depiction of the global MEMS market along with the current trends and future estimations to determine the imminent investment pockets.

The report presents information regarding the key drivers, restraints, and opportunities.

The current market is quantitatively analyzed from 2019 to 2026 to highlight the financial competency of the industry.

Porter's five forces analysis illustrates the potency of the buyers and suppliers in the industry.

## GLOBAL MEMS MARKET SEGMENTATION

### BY TYPE

#### Sensors

Inertial Sensors (Accelerometers, Gyroscopes, Magnetometers)

Pressure Sensors

Optical Sensors

Environment Sensors

Ultrasonic Sensors

#### Actuators

Optical MEMS

Microfluidics

RF MEMS

Others (Microspeakers, Ultrasonic Finger Prints)

### BY APPLICATION

Consumer Electronics

Automotive

Industrial

Aerospace & Defense

Healthcare

Telecommunication

Others

## BY REGION

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

## LAMEA

Latin America

Middle East

Africa

## Contents

### CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Benefits For Stakeholders
- 1.3. Key Market Segments
- 1.4. Research Methodology
  - 1.4.1. Primary Research
  - 1.4.2. Secondary Research
  - 1.4.3. Analyst Tools And Models

### CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. Key Findings
  - 2.1.1. Top Impacting Factors
  - 2.1.2. Top Investment Pockets
- 2.2. Cxo Perspective

### CHAPTER 3: MARKET OVERVIEW

- 3.1. Market Definition And Scope
- 3.2. Key Forces Shaping Microelectromechanical System (Mems) Market
- 3.3. Market Evolution/Industry Roadmap
- 3.4. Patent Analysis
  - 3.4.1. Mems System, By Region (2018-2019)
  - 3.4.2. Mems, By Applicant
- 3.5. Market Dynamics
  - 3.5.1. Drivers
    - 3.5.1.1. Growing Demand For Smart Consumer Electronics
    - 3.5.1.2. Emerging Trends In Automotive Industry
    - 3.5.1.3. Increase In Popularity of Iot
  - 3.5.2. Restraints
    - 3.5.2.1. Lack of Standardized Fabrication Process For Mems
    - 3.5.2.2. Incorporating The Sensor In Devices Incurs Extra Value And Reduces Life of Device
  - 3.5.3. Opportunities
    - 3.5.3.1. Emerging Trends Towards Autonomous Vehicle
    - 3.5.3.2. Increase Adoption of Wearable Devices And Innovative Application In

## Biomedical Sector

### **CHAPTER 4: MEMS MARKET, BY PRODUCT TYPE**

#### 4.1. Overview

#### 4.2. Sensors

##### 4.2.1. Inertial Sensors

##### 4.2.2. Pressure Sensors

##### 4.2.3. Optical Sensors

##### 4.2.4. Environment Sensors

##### 4.2.5. Ultrasonic Sensors

##### 4.2.6. Key Market Trends, Growth Factors, And Opportunities

##### 4.2.7. Market Size And Forecast, By Region

##### 4.2.8. Market Analysis, By Country

#### 4.3. Actuators

##### 4.3.1. Optical Mems

##### 4.3.2. Microfluidics

##### 4.3.3. Rf Mems

##### 4.3.4. Telecommunication (Micro Speakers, Ultrasonic Fingerprints)

##### 4.3.5. Key Market Trends, Growth Factors, And Opportunities

##### 4.3.6. Market Size And Forecast, By Region

##### 4.3.7. Market Analysis, By Country

### **CHAPTER 5: MEMS MARKET, BY APPLICATION**

#### 5.1. Overview

#### 5.2. Consumer Electronics

##### 5.2.1. Key Market Trends, Growth Factors, And Opportunities

##### 5.2.2. Market Size And Forecast, By Region

##### 5.2.3. Market Analysis, By Country

#### 5.3. Automotive

##### 5.3.1. Key Market Trends, Growth Factors, And Opportunities

##### 5.3.2. Market Size And Forecast, By Region

##### 5.3.3. Market Analysis, By Country

#### 5.4. Industrial

##### 5.4.1. Key Market Trends, Growth Factors, And Opportunities

##### 5.4.2. Market Size And Forecast, By Region

##### 5.4.3. Market Analysis, By Country

#### 5.5. Aerospace & Defense

- 5.5.1. Key Market Trends, Growth Factors, And Opportunities
- 5.5.2. Market Size And Forecast, By Region
- 5.5.3. Market Analysis, By Country
- 5.6. Healthcare
  - 5.6.1. Key Market Trends, Growth Factors, And Opportunities
  - 5.6.2. Market Size And Forecast, By Region
  - 5.6.3. Market Analysis, By Country
- 5.7. Telecommunication
  - 5.7.1. Key Market Trends, Growth Factors, And Opportunities
  - 5.7.2. Market Size And Forecast, By Region
  - 5.7.3. Market Analysis, By Country
- 5.8. Others
  - 5.8.1. Key Market Trends, Growth Factors, And Opportunities
  - 5.8.2. Market Size And Forecast, By Region
  - 5.8.3. Market Analysis, By Country

## **CHAPTER 6: MEMS MARKET, BY REGION**

- 6.1. Overview
- 6.2. North America
  - 6.2.1. Key Market Trends, Growth Factors, And Opportunities
  - 6.2.2. Market Size And Forecast, By Product Type
  - 6.2.3. Market Size And Forecast, By Application
  - 6.2.4. Market Analysis, By Country
    - 6.2.4.1. U.S.
      - 6.2.4.1.1. Market Size And Forecast, By Product Type
      - 6.2.4.1.2. Market Size And Forecast, By Application
    - 6.2.4.2. Canada
      - 6.2.4.2.1. Market Size And Forecast, By Product Type
      - 6.2.4.2.2. Market Size And Forecast, By Application
    - 6.2.4.3. Mexico
      - 6.2.4.3.1. Market Size And Forecast, By Product Type
      - 6.2.4.3.2. Market Size And Forecast, By Application
- 6.3. Europe
  - 6.3.1. Key Market Trends, Growth Factors, And Opportunities
  - 6.3.2. Market Size And Forecast, By Product Type
  - 6.3.3. Market Size And Forecast, By Application
  - 6.3.4. Market Analysis, By Country
    - 6.3.4.1. Uk



- 6.3.4.1.1. Market Size And Forecast, By Product Type
- 6.3.4.1.2. Market Size And Forecast, By Application
- 6.3.4.2. Germany
  - 6.3.4.2.1. Market Size And Forecast, By Product Type
  - 6.3.4.2.2. Market Size And Forecast, By Application
- 6.3.4.3. France
  - 6.3.4.3.1. Market Size And Forecast, By Product Type
  - 6.3.4.3.2. Market Size And Forecast, By Application
- 6.3.4.4. Italy
  - 6.3.4.4.1. Market Size And Forecast, By Product Type
  - 6.3.4.4.2. Market Size And Forecast, By Application
- 6.3.4.5. Rest of Europe
  - 6.3.4.5.1. Market Size And Forecast, By Product Type
  - 6.3.4.5.2. Market Size And Forecast, By Application
- 6.4. Asia-Pacific
  - 6.4.1. Key Market Trends, Growth Factors, And Opportunities
  - 6.4.2. Market Size And Forecast, By Product Type
  - 6.4.3. Market Size And Forecast, By Application
  - 6.4.4. Market Analysis, By Country
    - 6.4.4.1. China
      - 6.4.4.1.1. Market Size And Forecast, By Product Type
      - 6.4.4.1.2. Market Size And Forecast, By Application
    - 6.4.4.2. India
      - 6.4.4.2.1. Market Size And Forecast, By Product Type
      - 6.4.4.2.2. Market Size And Forecast, By Application
    - 6.4.4.3. Japan
      - 6.4.4.3.1. Market Size And Forecast, By Product Type
      - 6.4.4.3.2. Market Size And Forecast, By Application
    - 6.4.4.4. South Korea
      - 6.4.4.4.1. Market Size And Forecast, By Product Type
      - 6.4.4.4.2. Market Size And Forecast, By Application
    - 6.4.4.5. Rest of Asia-Pacific
      - 6.4.4.5.1. Market Size And Forecast, By Product Type
      - 6.4.4.5.2. Market Size And Forecast, By Application
- 6.5. Lamea
  - 6.5.1. Key Market Trends, Growth Factors, And Opportunities
  - 6.5.2. Market Size And Forecast, By Product Type
  - 6.5.3. Market Size And Forecast, By Application
  - 6.5.4. Market Analysis, By Country

#### 6.5.4.1. Latin America

##### 6.5.4.1.1. Market Size And Forecast, By Product Type

##### 6.5.4.1.2. Market Size And Forecast, By Application

#### 6.5.4.2. Middle East

##### 6.5.4.2.1. Market Size And Forecast, By Product Type

##### 6.5.4.2.2. Market Size And Forecast, By Application

#### 6.5.4.3. Africa

##### 6.5.4.3.1. Market Size And Forecast, By Product Type

##### 6.5.4.3.2. Market Size And Forecast, By Application

## **CHAPTER 7: COMPETITIVE LANDSCAPE**

### 7.1. Introduction

### 7.2. Market Share Analysis of Top Players, 2018 (%)

### 7.3. Top Winning Strategies

#### 7.3.1. Top Winning Strategies, By Year

#### 7.3.2. Top Winning Strategies, By Development

#### 7.3.3. Top Winning Strategies, By Company

### 7.4. Product Mapping of Top 10 Player

### 7.5. Competitive Dashboard

### 7.6. Competitive Heatmap

### 7.7. Key Developments

#### 7.7.1. New Product Launches

#### 7.7.2. Mergers And Acquisition

## **CHAPTER 8: COMPANY PROFILE**

## List Of Tables

### LIST OF TABLES

Table 01. Global MemS Market, By Product Type, 2018-2026 (\$Billion)
Table 02. MemS Market Revenue For Sensor, By Region 2018–2026 (\$Billion)
Table 03. MemS Market Revenue For Actuators, By Region 2018–2026(\$Billion)
Table 04. Global MemS Market Revenue, By Application, 2018-2026 (\$Billion)
Table 05. MemS Market Revenue For Consumer Electronics, By Region 2018–2026(\$Billion)
Table 06. MemS Market Revenue For Automotive, By Region 2018–2026(\$Billion)
Table 07. MemS Market Revenue For Industrial, By Region 2018–2026(\$Billion)
Table 08. MemS Market Revenue For Aerospace & Defense, By Region 2018–2026(\$Billion)
Table 09. MemS Market Revenue For Healthcare, By Region 2018–2026(\$Billion)
Table 10. MemS Market Revenue For Telecommunication, By Region 2018–2026(\$Billion)
Table 11. MemS Market Revenue For Others, By Region 2018–2026(\$Billion)
Table 12. North America MemS Market Revenue, By Product Type 2018–2026(\$Billion)
Table 13. North America MemS Market Revenue, By Application 2018–2026(\$Billion)
Table 14. U.S. MemS Market Revenue, By Product Type 2018–2026(\$Billion)
Table 15. U.S. MemS Market Revenue, By Application 2018–2026(\$Billion)
Table 16. Canada MemS Market Revenue, By Product Type 2018–2026(\$Billion)
Table 17. Canada MemS Market Revenue, By Application 2018–2026(\$Billion)
Table 18. Mexico MemS Market Revenue, By Product Type 2018–2026(\$Billion)
Table 19. Mexico MemS Market Revenue, By Application 2018–2026(\$Billion)
Table 20. Europe MemS Market Revenue, By Product Type 2018–2026(\$Billion)
Table 21. Europe MemS Market Revenue, By Application 2018–2026(\$Billion)
Table 22. UK MemS Market Revenue, By Product Type 2018–2026(\$Billion)
Table 23. UK MemS Market Revenue, By Application 2018–2026(\$Billion)
Table 24. Germany MemS Market Revenue, By Product Type 2018–2026(\$Billion)
Table 25. Germany MemS Market Revenue, By Application 2018–2026(\$Billion)
Table 26. France MemS Market Revenue, By Product Type 2018–2026(\$Billion)
Table 27. France MemS Market Revenue, By Application 2018–2026(\$Billion)
Table 28. Italy MemS Market Revenue, By Product Type 2018–2026(\$Billion)
Table 29. Italy MemS Market Revenue, By Application 2018–2026(\$Billion)
Table 30. Rest of Europe MemS Market Revenue, By Product Type 2018–2026(\$Billion)
Table 31. Rest of Europe MemS Market Revenue, By Application 2018–2026(\$Billion)
Table 32. Asia-Pacific MemS Market Revenue, By Product Type 2018–2026(\$Billion)

Table 33. Asia-Pacific Mems Market Revenue, By Application 2018–2026(\$Billion)

Table 34. China Mems Market Revenue, By Product Type 2018–2026(\$Billion)

Table 35. China Mems Market Revenue, By Application 2018–2026(\$Billion)

Table 36. India Mems Market Revenue, By Product Type 2018–2026(\$Billion)

Table 37. India Mems Market Revenue, By Application 2018–2026(\$Billion)

Table 38. Japan Mems Market Revenue, By Product Type 2018–2026(\$Billion)

Table 39. Japan Mems Market Revenue, By Application 2018–2026(\$Billion)

Table 40. South Korea Mems Market Revenue, By Product Type 2018–2026(\$Billion)

Table 41. South Korea Mems Market Revenue, By Application 2018–2026(\$Billion)

Table 42. Rest of Asia-Pacific Mems Market Revenue, By Product Type  
2018–2026(\$Billion)

Table 43. Rest of Asia-Pacific Mems Market Revenue, By Application  
2018–2026(\$Billion)

Table 44. Lamea Mems Market Revenue, By Product Type 2018–2026(\$Billion)

Table 45. Lamea Mems Market Revenue, By Application 2018–2026(\$Billion)

Table 46. Latin America Mems Market Revenue, By Product Type 2018–2026(\$Billion)

Table 47. Latin America Mems Market Revenue, By Application 2018–2026(\$Billion)

Table 48. Middle East Mems Market Revenue, By Product Type 2018–2026(\$Billion)

Table 49. Middle East Mems Market Revenue, By Application 2018–2026(\$Billion)

Table 50. Africa Mems Market Revenue, By Product Type 2018–2026(\$Billion)

Table 51. Africa Mems Market Revenue, By Application 2018–2026(\$Billion)

Table 52. Key New Product Launches (2016-2019)

Table 53. Key Mergers And Acquisition (2016-2019)

## List Of Figures

### LIST OF FIGURES

- Figure 01. Key Market Segments
- Figure 02. Executive Summary
- Figure 03. Executive Summary
- Figure 04. Top Impacting Factors
- Figure 05. Top Investment Pockets
- Figure 06. High Bargaining Power of Suppliers
- Figure 07. Moderate Threat of New Entrants
- Figure 08. Moderate Threat of Substitutes
- Figure 09. Moderate-To-High Intensity of Rivalry
- Figure 10. Low-To-Moderate Bargaining Power of Buyers
- Figure 11. Market Evolution
- Figure 12. Patent Analysis, By Region
- Figure 13. Patent Analysis, By Applicant
- Figure 14. Global Mems Market, By Product Type, 2018-2026
- Figure 15. Comparative Share Analysis of Sensor Mems Market, By Country, 2018 & 2026 (%)
- Figure 16. Comparative Share Analysis of Actuators Mems Market, By Country, 2020 & 2026 (%)
- Figure 17. Global Mems Market, By Application, 2018-2026
- Figure 18. Comparative Share Analysis of Consumer Electronics Mems Market, By Country, 2018 & 2026 (%)
- Figure 19. Comparative Share Analysis of Automotive Mems Market, By Country, 2018 & 2026 (%)
- Figure 20. Comparative Share Analysis of Industrial Mems Market, By Country, 2018 & 2026 (%)
- Figure 21. Comparative Share Analysis of Aerospace & Defense Mems Market, By Country, 2018 & 2026 (%)
- Figure 22. Comparative Share Analysis of Healthcare Mems Market, By Country, 2018 & 2026 (%)
- Figure 23. Comparative Share Analysis of Telecommunication Mems Market, By Country, 2018 & 2026 (%)
- Figure 24. Comparative Share Analysis of Other Mems Market, By Country, 2018 & 2026 (%)
- Figure 25. Global Mems Market, By Region, 2018-2026
- Figure 26. North America Mems Market, By Country, 2018-2026

- Figure 27. U.S. Mems Market Revenue, 2018-2026(\$Billion)
- Figure 28. Canada Mems Market Revenue, 2018-2026(\$Billion)
- Figure 29. Mexico Mems Market Revenue, 2018-2026(\$Billion)
- Figure 30. Europe Mems Market, By Country, 2018-2026
- Figure 31. Uk Mems Market Revenue, 2018-2026(\$Billion)
- Figure 32. Germany Mems Market Revenue, 2018-2026(\$Billion)
- Figure 33. France Mems Market Revenue, 2018-2026(\$Billion)
- Figure 34. Italy Mems Market Revenue, 2018-2026(\$Billion)
- Figure 35. Rest of Europe Mems Market Revenue, 2018-2026(\$Billion)
- Figure 36. Asia-Pacific Mems Market, By Country, 2018-2026
- Figure 37. China Mems Market Revenue, 2018-2026(\$Billion)
- Figure 38. India Mems Market Revenue, 2018-2026(\$Billion)
- Figure 39. Japan Mems Market Revenue, 2018-2026(\$Billion)
- Figure 40. South Korea Mems Market Revenue, 2018-2026(\$Billion)
- Figure 41. Rest of Asia-Pacific Mems Market Revenue, 2018-2026(\$Billion)
- Figure 42. Lamea Mems Market, By Country, 2018-2026
- Figure 43. Latin America Mems Market Revenue, 2018-2026(\$Billion)
- Figure 44. Middle East Mems Market Revenue, 2018-2026(\$Billion)
- Figure 45. Africa Mems Market Revenue, 2018-2026(\$Billion)
- Figure 46. Market Share Analysis: Microelectromechanical System (Mems) Market, 2018 (%)
- Figure 47. Top Wtop Winning Strategies, By Year, 2016–2019
- Figure 48. Top Winning Strategies, By Development, 2016–2019 (%)
- Figure 49. Top Winning Strategies, By Company, 2016–2019
- Figure 50. Product Mapping of Top 10 Players
- Figure 51. Competitive Dashboard
- Figure 52. Competitive Heatmap of Key Players

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