Mobile Robotics Market Analysis by Product, by Application and Segment Forecasts to 2020

Description:

Mobile Robotics Market Analysis By Product (Unmanned Ground Vehicles (UGVs), Unmanned Aerial Vehicles (UAVs), Unmanned Surface Vehicles (USVs), Autonomous Underwater Vehicles (AUVs)), By Application (Industrial, Service) And Segment Forecasts To 2020

Global mobile robotics market growth can be attributed to increased adoption in military & defense applications. Commercialization of automated cars due to technological advancement in mobile robotics is expected to drive the market over the next six years. Favorable regulatory scenario, including funds and grants for promoting the robotics industry is also expected to positively impact the global market.

Availability of open source platforms coupled with reduction in sensor and camera prices is expected to propel demand for domestic mobile robots such as vacuum cleaners and lawn mowers. Scarcity of experts equipped with the skill sets required for R&D may pose a challenge to mobile robotics market growth. Relatively low market penetration coupled with growing demand from end-use industries is expected to be a growth opportunity for key industry participants.

Further key findings from the study suggest:

- Unmanned Ground Vehicles (UGVs) are expected to be the most dominant segment over the next six years due to a plethora of mobile robotics opportunities in military and defense. UAVs have considerable growth potential owing to their capability to cater to diverse applications such as surveying, wildlife research, mapping, security, and defense.
- The mobile robotics market for service applications is expected to witness high growth over the forecast period. Professional robots dominated the overall service robotics market, with a large number of applications in defense and agricultural applications. Increasing use in personal assistance and for medical purposes, such as in drug delivery, is expected to be favorable for the personal robotics market. In the industrial segment, warehousing & distribution is expected to remain the key market; other applications mainly include painting, coating, and inspection.
- Asia Pacific was the dominant regional market in 2013; it is further expected to continue being the market leader over the next six years. Increased adoption of mobile robots in industrial, agricultural, and medical applications has driven regional mobile robotics market growth. Growing domestic robots demand is expected to be the key driving force for the North America market.
- Leading mobile robotics market players have strived to develop robots capable of delivering and sustaining in challenging environments. There has been an increased emphasis on developing mobile-based applications to control unmanned vehicles. The industry is characterized by notable mergers and acquisitions; for instance, Adept Technology’s acquisition of MobileRobotics Inc.

For the purpose of this study, the report has segmented the global mobile robotics market on the basis of product, application and region:

Mobile Robotics Product Outlook (Revenue, 2012 - 2020)
- Unmanned Ground Vehicles (UGVs)
- Unmanned Aerial Vehicles (UAVs)
- Unmanned Surface Vehicles (USVs)
- Autonomous Underwater Vehicles (AUVs)

Mobile Robotics Application Outlook (Revenue, 2012 - 2020)
- Industrial
- Service

Mobile Robotics Regional Outlook (Revenue, 2012 - 2020)
- North America
Contents:

Chapter 1. Executive Summary

1.1. Mobile Robotics - Industry Summary and Critical Success Factors (CSFs)

Chapter 2. Mobile Robotics Industry Outlook

2.1. Market Segmentation
2.2. Market Size and Growth Prospects
2.3. Mobile Robotics Value Chain Analysis
2.4. Mobile Robotics Market Dynamics
2.4.1. Market Driver Analysis
2.4.1.1. Increased integration with mobile technologies and smart appliances
2.4.1.2. Increased funding for R&D of mobile robots by governments
2.4.2. Market Restraint Analysis
2.4.2.1. Scarcity of expertise in R&D
2.5. Key Opportunities Prioritized
2.6. Industry Analysis - Porter's
2.7. Mobile Robotics - Key Company Analysis, 2013

Chapter 3. Mobile Robotics Product Outlook

3.1. Unmanned Ground Vehicles (UGVs)
3.1.1. Global demand, by region, (Revenue), 2012 - 2020
3.2. Unmanned Aerial Vehicles (UAVs)
3.2.1. Global demand, by region, (Revenue), 2012 - 2020
3.3. Unmanned Surface Vehicles (USVs)
3.3.1. Global demand, by region, (Revenue), 2012 - 2020
3.4. Autonomous Underwater Vehicles (AUVs)
3.4.1. Global demand, by region, (Revenue), 2012 - 2020

Chapter 4. Mobile Robotics Application Outlook

4.1. Industrial
4.1.1. Global demand, by region, (Revenue), 2012 - 2020
4.2. Service
4.2.1. Global demand, by region, (Revenue), 2012 - 2020

Chapter 5. Mobile Robotics Regional Outlook

5.1. North America
5.1.1. Mobile robotics market by product, (Revenue), 2012 - 2020
5.1.2. Mobile robotics market by application, (Revenue), 2012 - 2020
5.2. Europe
5.2.1. Mobile robotics market by product, (Revenue), 2012 - 2020
5.2.2. Mobile robotics market by application, (Revenue), 2012 - 2020
5.3. Asia Pacific
5.3.1. Mobile robotics market by product, (Revenue), 2012 - 2020
5.3.2. Mobile robotics market by application, (Revenue), 2012 - 2020
5.4. RoW
5.4.1. Mobile robotics market by product, (Revenue), 2012 - 2020
5.4.2. Mobile robotics market by application, (Revenue), 2012 - 2020

Chapter 6 Mobile Robotics Competitive Landscape

6.1 Adept Technology
6.1.1 Company Overview
6.1.2 Financial Performance
6.1.3 Product Benchmarking
6.1.4 Strategic Initiatives
6.2 Aethon Inc.
6.2.1 Company Overview
6.2.2 Financial Performance
6.2.3 Product Benchmarking
6.15.2 Financial Performance
6.15.3 Product Benchmarking
6.15.4 Strategic Initiatives
6.16 Kongsberg Maritime
6.16.1 Company Overview
6.16.2 Financial Performance
6.16.3 Product Benchmarking
6.16.4 Strategic Initiatives
6.17 KUKA AG
6.17.1 Company Overview
6.17.2 Financial Performance
6.17.3 Product Benchmarking
6.17.4 Strategic Initiatives
6.18 Northrop Grumman Corporation
6.18.1 Company Overview
6.18.2 Financial Performance
6.18.3 Product Benchmarking
6.18.4 Strategic Initiatives
6.19 QinetiQ
6.19.1 Company Overview
6.19.2 Financial Performance
6.19.3 Product Benchmarking
6.19.4 Strategic Initiatives
6.20 Seegrid Corp.
6.20.1 Company Overview
6.20.2 Financial Performance
6.20.3 Product Benchmarking
6.20.4 Strategic Initiatives
6.21 Swisslog
6.21.1 Company Overview
6.21.2 Financial Performance
6.21.3 Product Benchmarking
6.21.4 Strategic Initiatives

Chapter 7. Methodology and Scope
7.1. Research Methodology
7.2. Research Scope & Assumption
7.3. List of Data Sources

List of Tables:
1. Mobile Robotics - Industry Summary & Critical Success Factors (CSFs)
2. Global mobile robotics market (Revenue), 2012 - 2020
3. Global mobile robotics market by region (Revenue), 2012 - 2020
4. Global mobile robotics market by product (Revenue), 2012 - 2020
5. Global mobile robotics market by application (Revenue), 2012 - 2020
6. Global UGV demand, (Revenue), 2012 - 2020
7. Global UGV demand, by region, (Revenue), 2012 - 2020
8. Global UAV demand, (Revenue), 2012 - 2020
9. Global UAV demand, by region, (Revenue), 2012 - 2020
10. Global USV demand, (Revenue), 2012 - 2020
11. Global USV demand, by region, (Revenue), 2012 - 2020
12. Global AUV demand, (Revenue), 2012 - 2020
13. Global AUV demand, by region, (Revenue), 2012 - 2020
14. Global mobile robotics demand in industrial applications (Revenue), 2012 - 2020
15. Global mobile robotics demand in industrial applications, by region, (Revenue), 2012 - 2020
16. Global mobile robotics demand in service applications, (Revenue), 2012 - 2020
17. Global mobile robotics demand in service applications, by region, (Revenue), 2012 - 2020
18. North America mobile robotics market by product (Revenue), 2012 - 2020
19. North America mobile robotics market by application (Revenue), 2012 - 2020
20. Europe mobile robotics market by product (Revenue), 2012 - 2020
21. Europe mobile robotics market by application (Revenue), 2012 - 2020
22. Asia Pacific mobile robotics market by product (Revenue), 2012 - 2020
23. Asia Pacific mobile robotics market by application (Revenue), 2012 - 2020
24. RoW mobile robotics market by product (Revenue), 2012 - 2020
25. RoW mobile robotics market by application (Revenue), 2012 - 2020

List of Figures:
1. Mobile Robotics Market Segmentation
2. Global mobile robotics market (Revenue), 2012 - 2020
3. Mobile robotics value chain analysis
4. Mobile robotics market dynamics
5. Mobile robotics - Company market share analysis, 2013
6. Key Opportunities Prioritized
7. Industry Analysis - Porter's
10. Global UGV demand, (Revenue), 2012 - 2020
11. Global UAV demand, (Revenue), 2012 - 2020
12. Global USV demand, (Revenue), 2012 - 2020
13. Global AUV demand, (Revenue), 2012 - 2020
14. Mobile Robotics market share by application, 2013 & 2020
15. Global mobile robotics demand in industrial applications (Revenue), 2012-2020
16. Global mobile robotics demand in service applications (Revenue), 2012-2020
17. Mobile Robotics market share by region, 2013 & 2020
18. North America mobile robotics market by product (Revenue), 2012 - 2020
19. North America mobile robotics market by application (Revenue), 2012 - 2020
20. Europe mobile robotics market by product (Revenue), 2012 - 2020
21. Europe mobile robotics market by application (Revenue), 2012 - 2020
22. Asia Pacific mobile robotics market by product (Revenue), 2012 - 2020
23. Asia Pacific mobile robotics market by application (Revenue), 2012 - 2020
24. RoW mobile robotics market by product (Revenue), 2012 - 2020
25. RoW mobile robotics market by application (Revenue), 2012 - 2020

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