

Professional Service Robots Market Size, Share & Trends Analysis Report By Application (Logistics, Healthcare, Customer Service, Field Robots), By Region, And Segment Forecasts, 2020 - 2027

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Abstracts

The global professional service robots market size is expected to reach USD 182.0 billion by 2027, registering revenue based CAGR of 41.0% over the forecast period, according to a new report by Grand View Research, Inc. The logistics and healthcare sectors are driving the market growth as these robots hit the mainstream applications in these sectors and are expected to become a common practice on job sites and commercial venues. The market is expected to have a strong growth not only in the high-risk industry sectors but also in lifestyle and healthcare applications.

The military and defense applications segment is expected to grow at a steady rate during the forecast period. Robots are deployed in combat scenarios to gain tactical advantages over the enemy. They also help minimize the involvement of soldiers and reduce the number of victims in military actions. Unmanned ground vehicles (UGV) is the most used robot in defense and military applications. UGV is capable of operating outdoors, over a wide variety of terrain, and in high risk areas. Unmanned robots are actively being developed for both military and civilian use to perform complex and hazardous activities.

Mobile service robot is another field, which has gained prominence owing to its ability to perform complex assistance tasks with autonomous navigation. Advanced sensors and processes are incorporated in the robots to prevent them from colliding against humans and obstacles to ensure safety by providing real-time environmental monitoring in a three-dimensional space. Sophisticated user interfaces have been developed, which consider the entire range of communication channels. As a result, there has been a

rapid growth of mobile service robots in inspection and maintenance applications. These robots are used for autonomous sewer inspection, remote visual and ultrasonic inspection of pipes, inspection of ferromagnetic structures in nuclear applications, and quick visual inspection of vessels, pipes, tanks, and large structures.

North America professional service robotics market is expected to exhibit steady growth over the forecast period. The region has witnessed the widespread adoption of professional service robots in healthcare applications for rehabilitation and assisting medical staff. A favorable funding scenario for research on assistive technologies is driving the growth of the robots market in North America. Moreover, the health crisis created by COVID-19 has developed huge stress on the healthcare industry resulting in the adoption of professional service robots in hospitals. In U.S., professional service robots played a crucial role in the country's first case of COVID-19 detected at Everett, Washington. The telepresence robot was used for remote caregiving of the isolated patient.

Professional service robots market highlights:

Logistics automation has gained traction in recent years and the growth of the industry is presumed to open numerous opportunities for the robot vendors

The demand for robots in the healthcare industry is expected to see an upward trend owing to the recent pandemic situation

The customer service robots are expected to find its primary application in the retail industry in assisting and guiding the customer around a store

Asia Pacific is expected to lead the market growth over the forecast period, with China playing a crucial role in the development of the regional market.

Contents

CHAPTER 1 MARKET SEGMENTATION AND SCOPE

- 1.1 Market Segmentation and Scope
- 1.2 Market Definition
- 1.3 Information Procurement
 - 1.3.1 Purchased Database
 - 1.3.2 GVR'S Internal Database
 - 1.3.3 Secondary Sources & Third-Party Perspectives
 - 1.3.4 Primary Research
- 1.4 Information Analysis
 - 1.4.1 Data Analysis Models
- 1.5 Market Formulation & Data Visualization
- 1.6 Data Validation & Publishing

CHAPTER 2 EXECUTIVE SUMMARY & MARKET SNAPSHOT

- 2.1 Market Outlook
- 2.2 Segmental Outlook
- 2.3 Competitive Insights

CHAPTER 3 PROFESSIONAL SERVICE ROBOTS INDUSTRY OUTLOOK, TRENDS & SCOPE

- 3.1 Market Introduction
- 3.2 Market Size and Growth Prospects
- 3.3 Value Chain Analysis
- 3.4 Market Dynamics
 - 3.4.1 Market Driver Analysis
 - 3.4.1.1 Growing adoption of robots owing to high returns on investment
 - 3.4.1.2 Strong Growth in customer service application
 - 3.4.2 Market Restraint Analysis
 - 3.4.2.1 Data privacy and regulations
- 3.5 Penetration & Growth Prospect Mapping
- 3.6 Business Environment Analysis Tools
 - 3.6.1 Pest Analysis
 - 3.6.2 Porter's Five Force Analysis

CHAPTER 4 PROFESSIONAL SERVICE ROBOTS APPLICATION OUTLOOK

4.1 Market Size Estimates & Forecasts and Trend Analysis, 2016 - 2027 (Revenue, Volume)

4.2 Professional Service Robots Market: Application Movement Analysis

4.2.1 Logistics

4.2.1.1 Market estimates and forecast by region, 2016 - 2027 (Revenue, Volume)

4.2.2 Healthcare

4.2.2.1 Market estimates and forecast by region, 2016 - 2027 (Revenue, Volume)

4.2.3 Military & Defense

4.2.3.1 Market estimates and forecast by region, 2016 - 2027 (Revenue, Volume)

4.2.4 Inspection & Maintenance

4.2.4.1 Market estimates and forecast by region, 2016 - 2027 (Revenue, Volume)

4.2.5 Customer Service

4.2.5.1 Market estimates and forecast by region, 2016 - 2027 (Revenue, Volume)

4.2.6 Field Robots

4.2.6.1 Market estimates and forecast by region, 2016 - 2027 (Revenue, Volume)

4.2.7 Others

4.2.7.1 Market estimates and forecast by region, 2016 - 2027 (Revenue, Volume)

CHAPTER 5 REGIONAL ESTIMATES & TREND ANALYSIS

5.1 Market Size Estimates & Forecasts and Trend Analysis, 2016 - 2027 (Revenue, Volume)

5.2 Professional Service Robots Market Share by Region, 2019 & 2027

5.3 North America

5.3.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

5.3.2 U.S.

5.3.2.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

5.3.3 Canada

5.3.3.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

5.4 Europe

5.4.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

5.4.2 Germany

5.4.2.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

5.4.3 U.K.

5.4.3.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

5.4.4 Sweden

5.4.6.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

5.5 Asia Pacific

5.5.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

5.5.2 China

5.5.2.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

5.5.3 Japan

5.5.3.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

5.5.4 South Korea

5.5.4.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

5.6 Latin America

5.6.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

5.6.2 Brazil

5.6.2.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

5.6.3 Mexico

5.6.3.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

5.7 Middle East & Africa

5.7.1 Market estimates and forecast by application, 2016 - 2027 (Revenue, Volume)

CHAPTER 6 COMPETITIVE ANALYSIS

6.1 Key Global Players, Recent Developments & Their Impact on the Industry

6.2 Key Company Categorization (Key innovators, Market leaders, Emerging players)

6.3 Key Company Analysis, 2019

CHAPTER 7 COMPETITIVE LANDSCAPE

7.1 Argo Robotics

7.1.1 Company overview

7.1.2 Financial performance

7.1.3 Product benchmarking

- 7.1.4 Recent developments
- 7.2 Boston Dynamics
 - 7.2.1 Company overview
 - 7.2.2 Financial performance
 - 7.2.3 Product benchmarking
 - 7.2.4 Recent developments
- 7.3 Cyberdyne Inc.
 - 7.3.1 Company overview
 - 7.3.2 Financial performance
 - 7.3.3 Product benchmarking
 - 7.3.4 Recent developments
- 7.4 Daifuku Co. Ltd
 - 7.4.1 Company overview
 - 7.4.2 Financial performance
 - 7.4.3 Product benchmarking
 - 7.4.4 Recent developments
- 7.5 GeckoSystems Intl. Corp.
 - 7.5.1 Company overview
 - 7.5.2 Financial performance
 - 7.5.3 Product benchmarking
 - 7.5.4 Recent developments
- 7.6 iRobot Corporation
 - 7.6.1 Company overview
 - 7.6.2 Financial performance
 - 7.6.3 Product benchmarking
 - 7.6.4 Recent developments
- 7.7 KUKA AG
 - 7.7.1 Company overview
 - 7.7.2 Financial performance
 - 7.7.3 Product benchmarking
 - 7.7.4 Recent developments
- 7.8 Northrop Grumman Corporation
 - 7.8.1 Company overview
 - 7.8.2 Financial performance
 - 7.8.2 Product benchmarking
 - 7.8.3 Recent developments
- 7.9 Robert Bosch GmbH
 - 7.9.1 Company overview
 - 7.9.2 Financial performance

- 7.9.3 Product benchmarking
- 7.9.4 Recent developments
- 7.10 Softbank Robotics Group
 - 7.10.1 Company overview
 - 7.10.2 Financial performance
 - 7.10.3 Product benchmarking
 - 7.10.4 Recent developments

List Of Tables

LIST OF TABLES

- TABLE 1 Global professional service robots market, 2016 - 2027 (USD Million)
- TABLE 2 Global professional service robots market, 2016 - 2027 (Thousand Units)
- TABLE 3 Global market estimates and forecasts by region, 2016 - 2027 (USD Million)
- TABLE 4 Global market estimates and forecasts by region, 2016 - 2027 (Thousand Units)
- TABLE 5 Global market estimates and forecasts by application, 2016 - 2027 (USD Million)
- TABLE 6 Global market estimates and forecasts by application, 2016 - 2027 (Thousand Units)
- TABLE 7 Key driver impact
- TABLE 8 Key restraint impact
- TABLE 9 Global professional service robots market in logistics application, by region, 2016 - 2027 (USD Million)
- TABLE 10 Global professional service robots market in logistics application, by region, 2016 - 2027 (Thousand Units)
- TABLE 11 Global professional service robots market in healthcare application, by region, 2016 - 2027 (USD Million)
- TABLE 12 Global professional service robots market in healthcare application, by region, 2016 - 2027 (Thousand Units)
- TABLE 13 Global professional service robots market in military & defense application, by region, 2016 - 2027 (USD Million)
- TABLE 14 Global professional service robots market in military & defense application, by region, 2016 - 2027 (Thousand Units)
- TABLE 15 Global professional service robots market in inspection & maintenance application, by region, 2016 - 2027 (USD Million)
- TABLE 16 Global professional service robots market in inspection & maintenance application, by region, 2016 - 2027 (Thousand Units)
- TABLE 17 Global professional service robots market in customer service application, by region, 2016 - 2027 (USD Million)
- TABLE 18 Global professional service robots market in customer service application, by region, 2016 - 2027 (Thousand Units)
- TABLE 19 Global professional service robots market in field robots application, by region, 2016 - 2027 (USD Million)
- TABLE 20 Global professional service robots market in field robots application, by region, 2016 - 2027 (Thousand Units)

TABLE 21 Global professional service robots market in other application, by region, 2016 - 2027 (USD Million)

TABLE 22 Global professional service robots market in other application, by region, 2016 - 2027 (Thousand Units)

TABLE 23 North America professional service robots market by application, 2016 - 2027 (USD Million)

TABLE 24 North America professional service robots market by application, 2016 - 2027 (Thousand Units)

TABLE 25 U.S. professional service robots market by application, 2016 - 2027 (USD Million)

TABLE 26 U.S. professional service robots market by application, 2016 - 2027 (Thousand Units)

TABLE 27 Canada professional service robots market by application, 2016 - 2027 (USD Million)

TABLE 28 Canada professional service robots market by application, 2016 - 2027 (Thousand Units)

TABLE 29 Europe professional service robots market by application, 2016 - 2027 (USD Million)

TABLE 30 Europe professional service robots market by application, 2016 - 2027 (Thousand Units)

TABLE 31 U.K. professional service robots market by application, 2016 - 2027 (USD Million)

TABLE 32 U.K. professional service robots market by application, 2016 - 2027 (Thousand Units)

TABLE 33 Germany professional service robots market by application, 2016 - 2027 (USD Million)

TABLE 34 Germany professional service robots market by application, 2016 - 2027 (Thousand Units)

TABLE 35 Sweden professional service robots market by application, 2016 - 2027 (USD Million)

TABLE 36 Sweden professional service robots market by application, 2016 - 2027 (Thousand Units)

TABLE 37 Asia Pacific professional service robots market by application, 2016 - 2027 (USD Million)

TABLE 38 Asia Pacific professional service robots market by application, 2016 - 2027 (Thousand Units)

TABLE 39 China professional service robots market by application, 2016 - 2027 (USD Million)

TABLE 40 China professional service robots market by application, 2016 - 2027

(Thousand Units)

TABLE 41 Japan professional service robots market by application, 2016 - 2027 (USD Million)

TABLE 42 Japan professional service robots market by application, 2016 - 2027 (Thousand Units)

TABLE 43 South Korea professional service robots market by application, 2016 - 2027 (USD Million)

TABLE 44 South Korea professional service robots market by application, 2016 - 2027 (Thousand Units)

TABLE 45 Latin America professional service robots market by application, 2016 - 2027 (USD Million)

TABLE 46 Latin America professional service robots market by application, 2016 - 2027 (Thousand Units)

TABLE 47 Brazil professional service robots market by application, 2016 - 2027 (USD Million)

TABLE 48 Brazil professional service robots market by application, 2016 - 2027 (Thousand Units)

TABLE 49 Mexico professional service robots market by application, 2016 - 2027 (USD Million)

TABLE 50 Mexico professional service robots market by application, 2016 - 2027 (Thousand Units)

TABLE 51 MEA professional service robots market by application 2016 - 2027 (USD Million)

TABLE 52 MEA professional service robots market by application 2016 - 2027 (Thousand Units)

List Of Figures

LIST OF FIGURES

- FIG. 1 Professional service robots market segmentation and scope
- FIG. 2 Information procurement
- FIG. 3 Primary research pattern
- FIG. 4 Primary research process
- FIG. 5 Market formulation and data visualization
- FIG. 6 Industry Snapshot - Professional service robots
- FIG. 7 Professional service robots market - Market size and growth prospects
- FIG. 8 Penetration & growth prospect mapping
- FIG. 9 Porter's five forces analysis
- FIG. 10 Professional service robots - PEST analysis
- FIG. 11 Professional service robots market application outlook key takeaways
- FIG. 12 Professional service robots market: Application movement analysis
- FIG. 13 Global professional service robots market in logistics application, 2016 - 2027 (USD Million)
- FIG. 14 Global professional service robots market in healthcare application, 2016 - 2027 (USD Million)
- FIG. 15 Global professional service robots market in military & defense application, 2016 - 2027 (USD Million)
- FIG. 16 Global professional service robots market in inspection & maintenance application, market, 2016 - 2027 (USD Million)
- FIG. 17 Global professional service robots market in customer service application, 2016 - 2027 (USD Million)
- FIG. 18 Global professional service robots market in field robots application, 2016 - 2027 (USD Million)
- FIG. 19 Global professional service robots market in other application, 2016 - 2027 (USD Million)
- FIG. 20 Regional market place: Key takeaways
- FIG. 21 Regional outlook, 2019 & 2027
- FIG. 22 North America professional service robots market, 2016 - 2027 (USD Million)
- FIG. 23 Europe professional service robots market, 2016 - 2027 (USD Million)
- FIG. 24 Asia Pacific professional service robots market, 2016 - 2027 (USD Million)
- FIG. 25 Latin America professional service robots market, 2016 - 2027 (USD Million)
- FIG. 26 MEA professional service robots market, 2016 - 2027 (USD Million)

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