

Mobile Robots Market Trends 2017, Industry Growth Forecast 2024

"Major application areas of Mobile Robotics Market include agriculture, transportation, inspection, maintenance, building, medical sectors, etc."

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[Mobile Robotics Market](#) size is estimated to grow at a double digit CAGR over the forecast timeline. Technological advancements in commercialization of automated cars and increased adoption by military and defense is expected to drive the mobile robotics market.

Major application areas where these devices are used include agriculture, transportation, inspection,



ABB, Yaskawa Motoman Robotics, KUKA Robotics Corporation, FANUC Ltd., are among key Mobile Robotics Industry players.”

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maintenance, building, medical sectors, etc. For instance, farmers use them for performing different tasks, including harvesting, weeding and collecting crop data, etc.

Advancement in sensors used for navigation, simplicity and increasing dependence on unmanned jobs have positive impact on the global mobile robotics market. Favorable funding scenario, presence of sensor manufacturers, robot manufacturers, automation system providers, software developers, manufacturing companies, and increasing application areas will fuel revenue growth.

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In 2015 ABB, introduced YuMi robot, the world's first collaborative industrial mobile robot communicating with humans. WiBotic is developing a kind of machine with wireless battery charging facility available for mobile, aerial and aquatic robots. Around 24,000 robots were ordered from North American companies in 2016, indicating an increase of seven percent in units. It is estimated that North America is the third to use robots after Japan and China. This inclination is due to the major fact that leading automation companies are reaching out to small and medium sized companies. U.S. mobile robotics market size is the key driver for the North American revenue.

Lack of awareness among small scale industries of emerging technology, scarcity of skill sets to use them efficiently, high cost of such equipment and tools is expected to hamper the mobile robotics market growth. A company will be benefited more if they employ multiple robots than just a single device, which will require a greater efficiency in performance relating to higher degree of automation. A higher installed base invites new set of issues and handling problems, which may include map building, covering an entire area, maze solving etc.

The focus of the industry remains higher control to use these devices in a safe and effective way. The stationary controlled products are being replaced by intelligent mobile robots in many industries. The competition against the rising labor costs, and greater demand for productivity and quality has led to higher adoption, driving the mobile robotics market. The collaboration and coordination between human and machine turning into reality will prove to be of great advantage for venture capital investments and corporate research spending. The manufacturers are concentrating not only on specific markets but extending use to most of the industries and applications.

The global mobile robotics market is segmented based on component, navigation, application and region. Based on component it is classified into hardware and software. Further, navigation is classified into Unmanned Aerial Vehicles (UAV), Unmanned Ground Vehicles (UGV), Unmanned Surface Vehicles (USV), Autonomous Underwater Vehicles (AUV). End uses include field applications, coating & dispensing, warehousing & logistics, painting & DE painting, domestic, entertainment, etc.

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The competition remains intense globally between the various companies in the mobile robotics market on the basis of product features, prices, customized solutions, and services offered. ABB, Yaskawa Motoman Robotics, KUKA Robotics Corporation, FANUC Ltd., are among key industry players. Notable companies also include Denso Corporation, Epson America, Adept Technology, Nachi Robotic Systems, Kawasaki Heavy Industries Ltd., Universal Robots, and Mitsubishi Electric Corporation.

The next generation of development demands greater flexibility and mobility to employ multiple robots at same work area. The strategies being applied by research and development to increase the efficiency is high precision mapping, coordination of multiple robots being installed in same work place and to make developing countries global manufacturing leaders.

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