

# **Automation and Robotics Market in Industrial, Enterprise, Military, and Consumer Segments by Type, Components, Hardware, Software, and Services 2021 - 2026**

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## **Abstracts**

### **Overview:**

This report evaluates the global and regional robotics marketplace including the technologies, companies, and solutions for robots in the industrial, enterprise, military, and consumer segments. The report includes detailed forecasts for robotics by robot type, components, capabilities, solutions, and connectivity for 2021 to 2026.

This report also includes analysis with forecasts covering AI technology and systems by type, use case, application, and industry vertical. Forecasts also cover each major market sector including consumer, enterprise, industrial, and government. Components included in forecasts include: Controllers, Robotic Arms, End Effectors, Drive Systems, Sensors, Power Supply, Motors, Grippers, Transducers, Hydraulic Cylinders, Wheels, Linear Actuators, Processors and ICs.

### **Select Report Findings:**

Advances in 5G, AI, and teleoperation are enabling next generation cloud robotics

Data storage and analytics for industrial cloud-based robotics will reach \$3.7B by 2026

Cloud robotics as a service capability are redefining robot productization and

## solutions

Software for the military cloud robotics market will exceed \$2.3B by 2026 with 87.3% CAGR

The assistive robotics market will reach \$21.3B by 2026, driven by healthcare and social needs

Unprecedented efficiency and effectiveness gains will be realized through 5G robotics solutions

5G NR solutions will support of private communications networks for enterprise and industrial automation

Every sub-segment within the eldercare assistive robotics space is growing at more than 50% CAGR

One of the largest ROI areas for 5G will be video surveillance, which will be offered on a security as a service basis

With the substantial amount of capital behind global industrial automation, the industrial robotics sector will continue a healthy growth trajectory, which is supported by many qualitative and quantitative benefits including cost reduction, improved quality, increased production, and improved workplace health and safety.

In the wake of COVID-19, and with the now democrat controlled executive and legislative branches pushing for minimum wage increase, Mind Commerce sees a major push for further automation and robotics within the United States service sector. This is because many businesses see repetitive tasks as performed with great safety, less expense, and reduced probability for service disruption with robotics rather than reliance upon human workers.

Robotics is increasingly used to improve enterprise, industrial, and military automation. In addition, robots are finding their way into more consumer use cases as the general public's concerns fade and acceptance grows in terms of benefits versus risks. While many consumer applications continue to be largely lifestyle-oriented, enterprise, industrial, and military organizations utilize both land-based and aerial robots are used for various repetitive, tedious, and/or dangerous tasks. Adoption and usage are

anticipated to rapidly increase with improvements to artificial intelligence, robotic form factors, and fitness for use, cloud computing, and related business models, such as robotics as a service.

The global robotics market is broadly segmented into enterprise, industrial, military, and consumer robotics. Major market segments that cross-over industries include healthcare bots, Unmanned Aerial Vehicles, and autonomous vehicles. Enterprise Robotics includes the use of robots for both business-to-business and business-to-consumer services and support. Functions include internal business operations and processes, delivery of goods and services, research, analytics, and other business-specific applications.

The next decade will witness substantial influence of AI upon robotics. The next generation of robotics will include many pre-integrated AI technologies such as machine vision, voice and speech recognition, tactile sensors, and gesture controls. AI has enabled consumer robots to learn while performing a variety of tasks including cleaning, controlling home appliances, reading, performing butler services, and many more. It is anticipated that further improvement in AI and related technologies such as cognitive computing and sensor fusion, will enable consumer robots to take on increasingly more difficult tasks.

The degree to which AI capabilities in robotics optimize operational efficiency and effectiveness will largely depend on contextual capabilities of connected devices. This means that the relationship of IoT to AI and robotics will be much intertwined. AI helps robots learn and become more effective, but both technologies depend on IoT networks for sharing information among devices and applications.

Longer term, Mind Commerce sees many robotics and automation solutions involving multiple AI types as well as integration across other key areas such as the Internet of Things (IoT) and data analytics. The combination of AI and the IoT has the potential to dramatically accelerate the benefits of robotics for consumer, enterprise, industrial, and government market segments.

Leading industry verticals are beginning to see improved operational efficiency through the intelligent combination of AI and robotics. The long-term prospect for these technologies is that they will become embedded in many different other technologies and provide autonomous decision making on behalf of humans, both directly, and indirectly through many processes, products, and services.

The military robotics market is an important segment from both an R&D perspective (e.g. many robotics innovations are funded by government/military projects) as well as cross-over into business and consumer markets such as the public safety arena. The consumer robotics sector is in its infantile stage but is anticipated to exceed all other sectors in terms of scale, variety, and impact in the long run.

Mind Commerce sees substantial overall industry growth across a wide range of robot types that engage in diverse tasks such as home cleaning, personalized healthcare service, home security, autonomous cars, robotic entertainment and personal care services, managing daily schedules, and various assistive tasks. A few key factors such as the ageing population, personalization services trends, and robot mobility will drive growth in this industry segment.

Robotics in business will accelerate as less expensive hardware and improvements in AI lead to improved cost structures and increased integration with enterprise software systems respectively. The massive amount of data generated by robotics will create opportunities for data analytics and AI-enabled decision support systems. Enterprise users will capitalize upon new and enhanced robotics capabilities to enable new use cases and improved workflow. Many business processes will change as enterprise becomes savvier about the flexibility of robotics uninhibited by bandwidth constraints.

**Target Audience:**

Robotics companies

Investment organizations

Data management vendors

Industrial automation companies

Consumer application companies

Enterprise across all industry verticals

Governmental organizations and NGOs

**Report Benefits:**

*Automation and Robotics Market in Industrial, Enterprise, Military, and Consumer Segments by Type, Components,...*

Robotics forecasts for consumer, enterprise, industrial, and government segments

Identify leading company technologies strategies, solutions, products, and service offerings

Understand how business automation and industry 4.0 evolution is driving robotics adoption

Recognize how robotics as a service through cloud computing is facilitating new business models

Understand the different types of robotics use cases and how these support varying configurations

### **Companies in Report:**

2G Engineering

3D Robotics

ABB Robotics

Adept Technology Inc.

Aethon Inc.

Alphabet, Inc. (Google)

Amazon Robotics

AMS RBR

Anki Inc.

Apex Automation and Robotics

Auris Surgical Robotics Inc.

Aurotek Corp.

Autonomous Solutions, Inc.

Axium Inc.

Blue Ocean Robotics ApS

Canvas Technology

Carbon Robotics

Carbon3D

Celera Motion

Clearpath Robotics

Comau Robotics

Construction Robotics

Cyberdyne

CyPhy Works

Daihen Corp.

Delphi Automotive

Denso Wave Inc.

DJI

Ekso Bionics

Ellison Technologies Inc.

Energid Technologies

Epson Robots

FANUC Robotics

Fetch Robotics

Foxconn Technology Group

Ghost Robotics LLC

Greensea Systems Inc.

GreyOrange

Hanson Robotics Ltd.

Hypertherm Inc.

IAM Robotics

Intuitive Surgical, Inc.

inVia Robotics

iRobot

Jibo

Kairos Autonomi

Kawasaki

Knightscope

Kraken Sonar Systems Inc.

Kuka Robotics

Lockheed Martin

Locus Robotics

Micromo

Milvus Robotics

Mitsubishi Electric Corp.

Mobile Industrial Robots ApS

Modbot Inc.

Nachi Fujikoshi Corp.

Octopuz Inc.

Omniceil Inc.

Open Bionics

Pari Robotics

PrecisionHawk

Qihan Technology Co.

Reis Robotics

ReWalk Robotics

Roboplan

Robosoft Services Robots

RobotLAB Inc.



Rockwell Automation Inc.

Rokid Inc.

Samsung

SapientX Inc.

Savioke

Schunk

Seegrid

Seven Dreamers Laboratories Inc.

Sharp Electronics Corp.

Siasun Robot and Automation Co Ltd.

Siemens

SkySpecs

Soft Robotics Inc.

SoftBank Robotics Corporation

Softweb Solutions Inc.

Soil Machine Dynamics Ltd.

Sony

SRI International

SSI Schaefer

Starship Technologies

Staubli International AG

Stryker (MAKO Surgical)

Staubli

Suitable Technologies

Swisslog

SynTouch

Teradyne Inc.

Teun

Titan Medical

TM Robotics

TORC Robotics

Touch Bionics

Toyota

Transcend Robotics

ULC Robotics Inc.

Universal Robotics

Universal Robots A/S

Vecna Technologies

Verb Surgical

VEX Robotics

VGo Communications

Vigilant Robots

Virtual Incision Corporation

Visual Components Oy

WaveBot

Willrich Precision Instrument Co.

World Drone Academy

Wynright (Daifuku Co Ltd)

Yamaha Robotics

Yaskawa Motoman

ZenRobotics

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