

Construction Robots - Global Market Outlook (2020-2028)

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Abstracts

According to Statistics MRC, the Global Construction Robots Market is accounted for \$98.99 million in 2020 and is expected to reach \$395.42 million by 2028 growing at a CAGR of 18.9% during the forecast period. Some of the key factors propelling the market growth include growing urbanization worldwide, stringent government regulations for worker's safety, high demand for offices, manufacturing facilities, recreation spaces, and hotels, increased demand for higher use of construction equipment, and enhanced productivity, quality, and safety due to the implementation of construction robots. However, high equipment and setup costs may restrain the market growth.

Construction robots are professional service robots currently used in the construction. Construction robots prove their worth by providing major operational cost-savings through increased uptime and decreased labour costs. It refers to construction operations that are automatically carried out by using automated construction equipment or construction robots. It is used in applications such as building and demolishing of residential, commercial, and industrial infrastructures. This robotics has reduced or completely removed human intervention from construction activities. Construction robots are used in activities such as demolition of structures as well as 3D printing of walls & structures. In addition, construction robots can be used for material handling activities such as placing bricks to build wall and transportation of building material vertically or horizontally on construction site.

By application, the nuclear dismantling and demolition segment is anticipated to grow at the significant rate during the forecast period. The high growing needs for eliminating the presence of human operators in hazardous areas and shielding them from the radiation in nuclear-decommissioning attribute to the high growth of the market for

nuclear dismantling and demolition. Also, the construction robots players have incorporated many features in the demolition robots, which provide easy access, promote safety, and increase efficiency in confined-spaces, making it advantageous over the handheld breakers or other substitutes used for demolition purposes.

On the basis of geography, the market in Asia Pacific is expected to grow at the significant rate during the forecast period, due to the adoption of automation in mining and construction industries in countries like Australia, China, India, Malaysia, and Vietnam. APAC has abundant natural reserves distributed among various countries. With growing urbanization and wide availability of natural resources throughout the region, the mining and construction companies have started using automated equipment, operating software, and communications system to connect and operate on-site. Also, the presence of a large number of robotic manufacturing companies in China and Japan and a high growth rate of the market for 3D printers for advanced construction, are driving the growth of the construction robot market in APAC.

Some of the key players in Construction Robots Market include Construction Robotics LLC, Advanced Construction Robotics, Inc., COBOD International AS, Brokk AB, Ekso Bionics, Conjet AB, Komatsu Ltd., Husqvarna AB, Cyberdyne, Inc., Alpine Sales & Rental Corp., Fujita Corporation, Autonomous Solutions, Inc. (ASI), Fastbrick Robotics Ltd., Beijing Borui Intelligent Control Technology Co. Ltd., Giant Hydraulic Tech Co., Ltd., and TopTec Spezialmaschinen.

Products Covered:

Stone Spraying Robots

Brick Robots

Spray Robots

Plastering Robots

Delta Robots

Cylindrical Robots

Cartesian Robots

Humanoid Robots

Articulated Robots

Selective Compliance Assembly Robot Arm (SCARA)

Spherical Robots

Drones

Gantry Robots

Self Driving Vehicles

Automations Covered:

Semi-Autonomous Construction Robots

Fully Autonomous Construction Robots

Types Covered:

Robotic Arm

Traditional Robot

Exoskeleton

Wearable Robots

Other Types (Masonry)

Payload Sizes Covered:

More Than 15Kg

10.1-15Kg

5.1-10Kg

Upto 5Kg

Functions Covered:

Bricklaying Robot

Concrete Structural Erection

Doors and Windows Installation

Demolition Robot

Finishing Work

Surveillance

3D Printing and Contour Crafting Robot

Building Robots

Welding Robot

Inspection Robot

Roadwork Robots

Other Functions

Components Covered:

Robot Tooling

Manipulator

Robot Controller Unit

Sensor Devices

Configurations Covered:

Mounted

Collaborative Robot (Cobot)

Mobile

Applications Covered:

Building Construction

Public Infrastructure

Nuclear Dismantling and Demolition

Heavy/Civil Construction

Material Handling

Bridge Construction

High-Risk Work

Autonomous Construction Vehicles and Equipment

Other Applications

Sales Types Covered:

Aftermarket

New Sales

End Users Covered:

Commercial

Industrial

Residential/Home Use

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

France

Italy

UK

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2019, 2020, 2021, 2025 and 2028

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic analysis: Drivers and Constraints, Product/Technology Analysis, Porter's five forces analysis, SWOT analysis, etc.

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

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