

Construction Robot Market – Global Forecast up to 2025

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Abstracts

Global Construction Robot Market – Drivers, Restraints, Opportunities, Trends, and Forecast up to 2025

Construction industry is one of the few industries in the world that rely mainly on manual labor due to which the adoption of automation, including robotics is very less. However, this trend is expected to change due to the factors mentioned below:

There is an increase in the number of start-ups and pure players focusing on 3D-printing of building over the last few years.

There is an increasing investment by construction equipment manufacturers in the field of autonomous construction vehicles and equipment.

There is an increasing need for building energy efficient and cost-effective building in the construction industry.

The factors mentioned above is expected to drive the global construction robot market and the market is expected to be ~ \$190 million by the end of 2025.

Global construction robot market is categorized based on three segments – application, type, and regions as shown below:

Application include 3D-printing robots, demolition robots, bricklaying robots, autonomous construction vehicles, and equipment

Type include cartesian robots, cylindrical robots, spherical robots, humanoid robot, SCARA, delta robots, and articulated robots

Regions include North America, Europe, APAC, and RoW (RoW includes South America, Middle East, and Africa)

Among regions, North America is the leading revenue generator in the global construction robot market with a major share of the market contributed by the US. APAC is one of the fastest growing region in the global construction robot market with major growth being witnessed in China, Japan, and South Korea. Countries which generated a major part of the revenue in global construction robot market in 2018 include US, Germany, China, Japan, South Korea, France, and Denmark.

Demolition robots and autonomous construction vehicles and equipment generated a significant part of the revenue in the global construction robot market in 2018. The growing number of building renovation activities in Europe and US is one of the major factors driving the demand for demolition robots since they eliminate the labor-intensive activities involved in the demolition process to an extent. Companies including Volvo, Caterpillar, and Komatsu are focused on developing autonomous construction vehicles and equipment for increasing the overall productivity in the construction industry. Another major application of construction robot is witnessed in 3D-printing and 3D-printing robot market is expected to grow at a high rate during the forecast period mainly due to the growing investment by many smaller pure play vendors in this market. 3D printing is faster compared to traditional construction activities and there are lesser chances of errors in construction since the building model to be constructed is already designed precisely and fed to the 3D printer.

Based on type, global construction robot market is segmented into cartesian robots, cylindrical robots, spherical robots, humanoid robot, SCARA, delta robots, and articulated robots. Most of the 3D-printing robots are cartesian robots or delta robots and as of 2019 the construction industry is witnessing a growing number of cartesian and delta robots due to growing adoption of 3D printing in the industry. The forecasted period is also expected to witness an increasing demand for humanoid robots (most of them in prototype phase as of 2018), that can replace workers in construction sites and helps construction companies to fill the gap due to shortage of workers. Japan's National Institute of Advanced Industrial Science and Technology (AIST) has developed a humanoid robot, HRP-5P in 2018. HRP-5P is expected to tackle issues related to the labor shortage in Japan by carrying out several tasks associated with construction.

Global construction robot market is primarily dominated by companies focused on one or more of the construction applications including 3D printing, demolition, brick laying, and autonomous vehicle/equipment development. Major vendors in the global construction robot market are Built Robotics, Brokk, Caterpillar, Construction Robotics, Fastbrick Robotics, Komatsu, Apis Cor, Blueprint Robotics, Constructions-3D, and Husqvarna. Other prominent vendors in the market include Avant Tecno, Contour Crafting Corporation, CyBe Construction, ICON build, MudBots, S-Squared 3D Printers, Total Kustom, Volvo, and XtreeE.

According to Infoholic Research, global construction robot market will grow at a CAGR of over 20% during the forecast period 2019–2025. The aim of this report is to define, analyze, and forecast the global construction robot market based on segments, which include type, application, and region. In addition, construction robot market report helps venture capitalists in understanding the companies better and make well-informed decisions and is primarily designed to provide the company's executives with strategically substantial competitor information, data analysis, and insights about the market, development, and implementation of an effective marketing plan

Global construction robot market report comprises an analysis of vendors profile, which includes financial status, business units, key business priorities, SWOT, business strategies, and views.

Global construction robot market report covers the competitive landscape, which includes M&A, joint ventures & collaborations, and competitor comparison analysis.

In the vendor profile section for companies that are privately held, the financial information and revenue of segments will be limited.

Contents

1 EXECUTIVE SUMMARY

2 INDUSTRY OUTLOOK

2.1 Industry Snapshot

2.1.1 Industry Trends

3 MARKET SNAPSHOT

3.1 Total Addressable Market

3.2 Segmented Addressable Market

3.2.1 PEST Analysis

3.2.2 Porter's Five Force Analysis

3.23 Related Markets

4 MARKET CHARACTERISTICS

4.1 Market Ecosystem

4.2 Market Segmentation

4.3 Market Dynamics

4.3.1 Drivers

4.3.1.1 Reduction of labor cost

4.3.1.2 XXXX

4.3.2 Restraints

4.3.2.1 XXXX

4.3.2.2 Need for mobility

4.3.3 Opportunities

4.3.3.1 Harsh environment deployment

4.3.3.2 XXXX

4.3.4 DRO – Impact Analysis

5 GLOBAL CONSTRUCTION ROBOT SOFTWARE MARKET, BY TYPE

5.1 Cartesian Robots

5.2 Cylindrical Robots

5.3 Spherical Robots

5.4 Humanoid Robots

5.5 SCARA

5.6 Delta Robots

5.7 Articulated Robots

6 GLOBAL CONSTRUCTION ROBOT SOFTWARE MARKET, BY APPLICATION

6.1 3D Printing Robots

6.2 Demolition Robots

6.3 Bricklaying Robots

6.4 Autonomous Construction Vehicles and Equipment

7 GLOBAL CONSTRUCTION ROBOT SOFTWARE MARKET, BY REGION

7.1 Overview

7.2 APAC

7.2.1 China

7.2.2 Japan

7.2.3 South Korea

7.2.4 Rest of APAC

7.3 North America

7.3.1 US

7.3.2 Canada

7.4 Europe

7.4.1 Germany

7.4.2 France

7.4.3 Denmark

7.4.4 Rest of Europe

7.5 RoW

7.5.1 Latin America

7.5.2 Middle East and Africa

8 COMPETITIVE LANDSCAPE

8.1 Competitor Analysis

8.2 Product/Offerings

8.3 Market Developments

8.3.1 Mergers & Acquisitions (M&A)

8.3.2 Expansions

8.3.3 Business Restructuring

9 VENDOR PROFILES

9.1 Built Robotics

- 9.1.1 Analyst Opinion
- 9.1.2 Business Analysis

9.2 Brokk

- 9.2.1 Analyst Opinion
- 9.2.2 Business Analysis

9.3 Caterpillar

- 9.3.1 Analyst Opinion
- 9.3.2 Business Analysis

9.4 Construction Robotics

- 9.4.1 Analyst Opinion
- 9.4.2 Business Analysis

9.5 Fastbrick Robotics

- 9.5.1 Analyst Opinion
- 9.5.2 Business Analysis

9.6 Komatsu

- 9.6.1 Analyst Opinion
- 9.6.2 Business Analysis

9.7 Apis Cor

- 9.7.1 Analyst Opinion
- 9.7.2 Business Analysis

9.8 Blueprint Robotics

- 9.8.1 Analyst Opinion
- 9.8.2 Business Analysis

9.9 Constructions-3D

- 9.9.1 Analyst Opinion
- 9.9.2 Business Analysis

9.10 Husqvarna

- 9.10.1 Analyst Opinion
- 9.10.2 Business Analysis

9.11 CyBe Construction

9.12 Avant Tecno

9.13 Contour Crafting Corporation

9.14 ICON build

9.15 MudBots

9.16 S-Squared 3D Printers

9.17 Total Kustom

9.18 Volvo

9.19 XtreeE

12 ANNEXURE

12.1 Report Scope

12.2 Market Definition

12.3 Research Methodology

12.3.1 Data Collation & In-house Estimation

12.3.2 Market Triangulation

12.3.3 Forecasting

12.4 Study Declarations

12.5 Report Assumptions

12.6 Stakeholders

12.7 Abbreviations

Tables

TABLES

TABLE 1 KEY FACTS ABOUT CONSTRUCTION INDUSTRY 2018
TABLE 2 GLOBAL CONSTRUCTION ROBOT MARKET 2018–2025 (\$MILLION)
TABLE 3 GLOBAL CONSTRUCTION ROBOT MARKET, BY TYPE, 2018–2025 (\$MILLION)
TABLE 4 GLOBAL CONSTRUCTION ROBOT MARKET, BY APPLICATION, 2018–2025 (\$MILLION)
TABLE 5 GLOBAL CONSTRUCTION ROBOT MARKET, BY GEOGRAPHY, 2018–2025 (\$MILLION)
TABLE 6 MAJOR COMPANIES AND THEIR OPERATIONS
TABLE 7 PRODUCT/OFFERINGS: GLOBAL CONSTRUCTION ROBOT MARKET
TABLE 8 MERGER & ACQUISITION, 2013–2019
TABLE 9 EXPANSIONS, 2013–2019
TABLE 10 BUSINESS RESTRUCTURING, 2013–2019
TABLE 13 SAP: OVERVIEW
TABLE 14 SAP: STRATEGIC SNAPSHOT
TABLE 15 SAP: PRODUCT/SERVICE PORTFOLIO
TABLE XX XX: XXX
TABLE XX XX: XXX
TABLE XX XX: XXX
TABLE XX RESEARCH METHODOLOGY OF GLOBAL CONSTRUCTION ROBOT MARKET: DATA COLLATION AND IN-HOUSE ESTIMATION
TABLE XX RESEARCH METHODOLOGY OF GLOBAL CONSTRUCTION ROBOT MARKET TRIANGULATION
TABLE XX RESEARCH METHODOLOGY OF GLOBAL CONSTRUCTION ROBOT MARKET FORECASTING

CHARTS

CHART 1 GLOBAL CONSTRUCTION ROBOT MARKET 2018
CHART 2 GLOBAL CONSTRUCTION ROBOT MARKET REVENUE, 2018–2025 (\$MILLION)
CHART 5 PEST ANALYSIS: GLOBAL CONSTRUCTION ROBOT MARKET
CHART 6 PORTER'S 5 FORCE ANALYSIS: GLOBAL CONSTRUCTION ROBOT MARKET
CHART 7 GLOBAL CONSTRUCTION ROBOT MARKET ECOSYSTEM

CHART 8 SEGMENTATION: GLOBAL CONSTRUCTION ROBOT MARKET
CHART 9 MARKET DYNAMICS – DRIVERS, RESTRAINTS & OPPORTUNITIES
CHART 10 DRO – IMPACT ANALYSIS: GLOBAL CONSTRUCTION ROBOT MARKET
CHART 11 GLOBAL CONSTRUCTION ROBOT MARKET, BY TYPE, 2018
CHART 18 GLOBAL CONSTRUCTION ROBOT MARKET, BY GEOGRAPHY, 2018
CHART 19 CONSTRUCTION ROBOT MARKET IN APAC, MARKET VALUE,
2018–2025 (\$MILLION)
CHART 20 CONSTRUCTION ROBOT MARKET IN NORTH AMERICA, MARKET
VALUE, 2018–2025 (\$MILLION)
CHART 21 CONSTRUCTION ROBOT MARKET IN EUROPE, MARKET VALUE,
2018–2025 (\$MILLION)
CHART 22 CONSTRUCTION ROBOT MARKET IN ROW, MARKET VALUE,
2018–2025 (\$MILLION)
CHART 23 MAJOR STAKEHOLDERS IN THE MARKET

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