

Construction Robots Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global construction robots market size reached US\$ 129.7 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 316.0 Billion by 2028, exhibiting a growth rate (CAGR) of 16.4% during 2023-2028.

Construction robots are employed to execute civil engineering projects and perform essential tasks such as positioning, demolishing and tunneling at a construction site. These robots improve productivity by shortening construction time and reducing the overall operational costs. They also enhance workforce safety and security in hazardous working environments. The implementation of construction robots eliminates errors due to human factors such as laziness, fatigue or lack of attention. Specialized robots can work in dark, congested and airless spaces that can be dangerous for humans.

The thriving construction industry, coupled with rapid urbanization, is the key factor driving the growth of the market. Additionally, rising construction of megastructures and high-quality infrastructure has enhanced the requirement of construction robots to counter the shortage of skilled labor. Moreover, technological advancements such as the introduction of 3D printing robots in construction projects are also contributing to the market growth. They are used to design models for bridges and prototypes for buildings that simplify the construction of intricate designs to save time and resources.

Furthermore, the rising trend of aerial robotics is also expected to drive the market. These robots include devices such as Unmanned Aerial Vehicles (UAV) or drones that are extensively used for safety inspections, site surveying, and accessing hazardous

zones. Increasing adoption of exoskeleton equipment that includes wearable mechanical suits to lift heavy material, machinery and supplies is also catalyzing the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global construction robots market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on type, automation, function and application.

Breakup by Type:

- Traditional Robot
- Robotic Arm
- Exoskeleton

Breakup by Automation:

- Fully Autonomous
- Semi-Autonomous

Breakup by Function:

- Demolition
- Bricklaying
- 3D Printing
- Concrete Structural Erection
- Finishing Work
- Doors and Windows
- Others

Breakup by Application:

- Public Infrastructure
- Commercial and Residential Buildings
- Nuclear Dismantling and Demolition
- Others

Breakup by Region:

Asia Pacific

North America

Europe

Middle East and Africa

Latin America

Competitive Landscape:

The report has also analyzed the competitive landscape of the market with some of the key players being Brokk AB, Husqvarna AB, Komatsu Ltd., Ekso Bionics Europe GmbH, Fujita Corporation, Conjet AB, Giant Hydraulic Tech Co., Ltd., Automated Precision, Inc., Alpine Sales and Rental Corporation, CyBe Construction BV, MX3D BV, Construction Robotics, Fastbrick Robotics Ltd., TopTec Spezialmaschinen GmbH, etc.

Key Questions Answered in This Report:

What was the size of the global construction robots market in 2022?

What is the expected growth rate of the global construction robots market during 2023-2028?

What has been the impact of COVID-19 on the global construction robots market?

What are the key factors driving the global construction robots market?

What is the breakup of the global construction robots market based on the type?

What is the breakup of the global construction robots market based on the automation?

What is the breakup of the global construction robots market based on the function?

What is the breakup of the global construction robots market based on the application?

What are the key regions in the global construction robots market?

Who are the key players/companies in the global construction robots market?

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