

# Global Construction Automation Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global Construction Automation market size is predicted to grow from US\$ 7924 million in 2025 to US\$ 28803 million in 2032; it is expected to grow at a CAGR of 20.7% from 2026 to 2032.

Construction automation refers to the integration of robotics, automated machinery, sensing and control systems, and advanced software into the end-to-end building process in order to reduce manual intervention, standardize workflows, and improve productivity, safety, quality and resource efficiency. Instead of relying on paper-based coordination and labor-intensive field work, construction automation uses digital models, structured data, and control logic to drive automated workflows that partially replace or fundamentally redesign traditional construction tasks. It spans factory-based manufacturing of components and modules, automated and semi-automated equipment on jobsites, and workflow automation in planning, scheduling, cost control, quality and safety management.

In practice, construction automation can be grouped into three interrelated domains. Physical automation covers robots and automated machines for tasks such as layout and surveying, material handling, bricklaying and concrete placement, steel erection, finishing and demolition. Process automation focuses on digital project management and workflow engines that route tasks, approvals and documentation automatically across project stakeholders. Data automation applies analytics and AI to drawings, models, cost and schedule data, site imagery and sensor streams, generating insights, alerts and optimized plans. These domains often converge in industrialized and modular construction, where standardized elements are produced in highly automated factories and assembled on site with robotic or semi-automated methods, leveraging digital twins to close the loop between design, fabrication and installation.

Construction automation is emerging as a core lever for solving the industry's structural challenges

The global construction sector faces a persistent combination of rising demand for buildings and infrastructure, aging and scarce skilled labor, pressure to control costs and schedules, and tightening requirements on safety and sustainability. Against this backdrop, construction automation is moving from experimental pilots to a strategic priority. Industry analyses and thought-leadership pieces from major technology and engineering organizations highlight that automating selected construction processes—through robotics, digital fabrication, and workflow automation—can improve production times, material efficiency, labor productivity and worker safety, while also reducing environmental impacts. Automated construction is increasingly seen as essential for meeting global housing and infrastructure needs under economic and environmental constraints.

Use cases are expanding from factory floors to complex jobsites and project controls

Adoption has progressed fastest in controlled environments such as off-site prefabrication, modular building and precast production, where construction processes can mimic advanced manufacturing. From there, automation is extending onto the jobsite through robotic surveying, autonomous or semi-autonomous equipment, automated rebar tying and bricklaying, robotic demolition, and drone-based inspection. In parallel, process and data automation on project management platforms is streamlining schedule updates, progress capture, safety and quality inspections, and document control. Recent examples show that combining field robotics with automated project controls can materially shorten critical-path activities, reduce rework and change-order exposure, and give managers real-time visibility on production, inventory and risk across large, multi-stakeholder projects.

Scaling automation raises integration, workforce and governance challenges—but demand is shifting from pilots to system capability

Despite the benefits, large-scale construction automation still faces obstacles: high upfront investment in robots and integration, project-to-project variability that complicates standardization, and harsh, unstructured environments that stress equipment and control systems. At the organizational level, automation changes job roles and skills demand, requiring new profiles that combine construction know-how with digital and maintenance capabilities. Questions around human-machine

collaboration, responsibility for automated decisions, and data ownership and cybersecurity are prompting regulators, insurers and owners to refine standards and oversight. Nevertheless, macro trends such as labor shortages, robotics cost declines, and the push for higher total factor productivity in construction and infrastructure are driving a clear shift in downstream demand—from isolated showcase projects to building automation as a repeatable, portfolio-level capability.

LPI (LP Information)' newest research report, the “Construction Automation Industry Forecast” looks at past sales and reviews total world Construction Automation sales in 2025, providing a comprehensive analysis by region and market sector of projected Construction Automation sales for 2026 through 2032. With Construction Automation sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Construction Automation industry.

This Insight Report provides a comprehensive analysis of the global Construction Automation landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Construction Automation portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Construction Automation market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Construction Automation and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Construction Automation.

This report presents a comprehensive overview, market shares, and growth opportunities of Construction Automation market by product type, application, key players and key regions and countries.

Segmentation by Type:

Physical Robotic Systems

Software and Platform Solutions

Retrofitting Kits and Components

Others

Segmentation by Level of Autonomy:

Semi-Automated (Machine Assist)

Highly Automated (Task-Specific)

Fully Autonomous

Segmentation by Channel Model:

Direct Sales from OEMs

Partnership with Dealers and Integrators

Others

Segmentation by Building Type:

Commercial and Residential Building

Heavy Civil and Infrastructure

Industrial and Others

Segmentation by Application:

Robotic Execution and Fabrication

Autonomous Guidance and Control

Site Monitoring and Inspection

Planning and Workflow Software

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Advanced Construction Robotics, Inc.

Brokk AB

Built Robotics, Inc.

Canvas Construction, Inc.

Construction Automation Limited

Construction Robotics, LLC

Dusty Robotics, Inc.

FBR Ltd (Fastbrick Robotics)

Hilti AG

HP Inc.?HP SitePrint?

KEWAZO GmbH

NeXtera Robotics, Inc.

Bright Dream Robotics Co., Ltd.

Weijian Technology Co., Ltd.

Legend Robot (Shenzhen Lingque Technology Co., Ltd.)

Suzhou Fangshi Technology Co., Ltd.

Beijing Zhijiantu Robot Co., Ltd.

CSC Robotic Engineering Limited

XCMG Construction Machinery Co., Ltd.

SANY Heavy Industry Co., Ltd.

Zoomlion Heavy Industry Science & Technology Co., Ltd.

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