

# Demand for Robotic Concrete Finishing Market is forecasted to reach a value of US \$3.06 billion by 2029

*The Business Research Company's  
Robotic Concrete Finishing Global Market  
Report 2025 – Market Size, Trends, And  
Global Forecast 2025-2034*

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/EINPresswire.com/ -- How Large Will  
The Robotic Concrete Finishing Market  
Be By 2025?

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In recent times, the market size for robotic concrete finishing has experienced a significant increase. Predictions suggest that the market will expand from a value of \$1.38 billion in 2024 to \$1.62 billion in 2025, achieving a compound annual growth rate (CAGR) of 17.6%. The notable

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growth in the historical period is a result of several factors including the increased integration of robotics in treating concrete surfaces, rise in urbanization and the development of smart cities, higher government investments in advanced construction techniques, a growing predilection for superior quality concrete finishing, and escalating construction costs.

In the coming years, a rapid expansion is anticipated in the market for robotic concrete finishing, with its value expected to reach \$3.06 billion in 2029, reflecting a Compound Annual Growth Rate (CAGR) of 17.3%. This

growth during the forecast period can be credited to factors such as the adoption of environmentally friendly construction practices, increasing demand for automated construction machinery, growing incorporation of artificial intelligence in robotics, a rising necessity for economical construction methods, and surge in investments in building automation systems. Noteworthy trends predicted for the forecast period encompass improvements in robotic vision and sensing technologies, evolution of collaborative robots for construction tasks, innovations in 3D concrete printing methods, advancements in autonomous navigation systems for

construction robots and the increased use of remote monitoring technologies.

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### What Are The Major Driving Forces Influencing The Robotic Concrete Finishing Market Landscape?

The growth of the robotic concrete finishing market is expected to be boosted by the escalating demand for large-scale infrastructure projects. These projects pertain to massive construction efforts such as highways, metro systems, bridges, tunnels, and urban transit networks. These projects are aimed at enhancing transportation, connectivity, and public utilities on a regional or nationwide level. The rise in such large-scale infrastructure projects is due to swift urbanization, as burgeoning urban populations heighten the need for efficient transportation, utilities, and public services. This in turn necessitates extensive construction and infrastructure modernization. Robotic concrete finishing expedites these large-scale projects by increasing precision, lowering labor costs, and ensuring uniform quality over vast surfaces. It also enhances safety, reduces material wastage, and allows for quicker project completion to adhere to strict deadlines. For example, in April 2025, data from the United States Census Bureau, a US government agency, revealed that the population in the country's 387 metro regions expanded by nearly 3.2 million or 1.1% from 2023 to 2024. This is slightly higher than the overall U.S. population growth rate of 1.0% during the same timeframe. Hence, the growing demand for large-scale infrastructure projects is propelling the expansion of the robotic concrete finishing market.

### Who Are The Top Players In The Robotic Concrete Finishing Market?

Major players in the Robotic Concrete Finishing Global Market Report 2025 include:

- Caterpillar Inc.
- Komatsu Ltd.
- Kajima Corporation
- Shimizu Corporation
- Takenaka Corporation
- Sany Heavy Industry Co. Ltd.
- Trimble Inc.
- Brokk AB
- GOMACO Corporation
- Allen Engineering Corporation

### What Are The Upcoming Trends Of Robotic Concrete Finishing Market In The Globe?

Leading businesses in the robotic concrete finishing industry are prioritizing the advancement of innovative tools like autonomous floor polishers to enhance efficiency, uniformity, and safety in their concrete finishing operations. These autonomous floor polishers are robotic devices designed to automatically buff and polish concrete floors without any human intervention, which aids in reducing the labor-intensive nature of the task, maintaining a uniform quality, boosting

safety measures, and saving on both time and monetary expenses. As an example, True Autonomy LLC, a U.S. robotics engineering firm, in May 2022, introduced the ACP-100, billed as the world's first autonomous concrete floor polisher that can be retrofitted. With this innovative product, existing concrete polishing machines get the ability to function autonomously, thus lessening labor effort, maintaining unmatched quality, elevating safety standards, as well as yielding savings in terms of time and money. The ACP-100 automates the tedious and laborious task of concrete buffing, freeing up contractors to focus on more intricate work. It enhances overall operational effectiveness in concrete finishing while ensuring thorough polishing of every square inch of the floor, reducing potential mistakes, avoiding project delays, and eventually cutting down operational expenses.

Market Share And Forecast By Segment In The Global Robotic Concrete Finishing Market  
The robotic concrete finishing market covered in this report is segmented

- 1) By Product Type: Floor Finishing Robots, Wall Finishing Robots, Ceiling Finishing Robots, Other Product Types
- 2) By Automation Level: Fully Automated, Semi-Automated
- 3) By Application: Residential, Commercial, Industrial, Infrastructure
- 4) By End User: Construction Companies, Contractors, Other End Users

Subsegments:

- 1) By Floor Finishing Robots: Troweling Robots, Grinding Robots, Polishing Robots, Screeding Robots
- 2) By Wall Finishing Robots: Plastering Robots, Painting Robots, Rendering Robots, Texturing Robots
- 3) By Ceiling Finishing Robots: Plastering Robots, Painting Robots, Texturing Robots, Sanding Robots
- 4) By Other Product Types: Joint Filling Robots, Surface Cleaning Robots, Repair And Maintenance Robots, Coating Robots

View the full robotic concrete finishing market report:

<https://www.thebusinessresearchcompany.com/report/robotic-concrete-finishing-global-market-report>

Robotic Concrete Finishing Market Regional Insights

In 2024, Asia-Pacific held the leading position in the global robotic concrete finishing market. The report, forecasting growth to continue up to 2025, focuses on several regions which include Western Europe, Eastern Europe, North America, South America, the Middle East, Africa, and, of course, Asia-Pacific.

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