

# Global Construction Wearable Technology Market to Reach \$6.85 Billion at a Steady 10.5% CAGR by 2029

*The Business Research Company's Construction Wearable Technology Global Market Report 2025 - Market Size, Trends, And Global Forecast 2025-2034*

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How Large Will [The Construction Wearable Technology Market](#) Be By 2025?

[The market size of wearable technology in construction](#) has experienced swift expansion lately. It

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is projected to increase from \$4.15 billion in 2024 to \$4.60 billion in 2025, sustaining a compound annual growth rate (CAGR) of 10.8%. The historic growth can be accredited to factors such as heightened safety concerns at work sites, an increasing adaptation of the Internet of Things (IoT), the escalating demand for productivity, a surge in wearable tech innovation, and a growing focus on worker health monitoring.

In the coming years, the construction wearable technology market is anticipated to experience swift expansion, with an estimated worth of \$6.85 billion in 2029 based on a

compound annual growth rate (CAGR) of 10.5%. The predicted growth in this timeframe is a result of rising needs for remote monitoring, increased investment in intelligent personal protective equipment (PPE), advancing digitization of construction sites, and growing solutions for labor shortages. The forecast period also suggests major trends including the progress in AI-powered safety sensors, the evolution of self-charging wearable systems, advancements in ergonomic exoskeleton designs, the broadening of real-time health monitoring capabilities, and the integration of augmented reality features.

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What Are The Major Driving Forces Influencing The Construction Wearable Technology Market Landscape?

[Progress in the construction wearable technology market](#) is expected to be driven by the rise in workplace accidents. These accidents, which can result in injury, illness, or damage to people, property, or the environment, occur unexpectedly and without plan during work. The primary cause of the increase in these incidents is insufficient safety training, which leaves employees unable to recognize and handle potential dangers on the job. To mitigate workplace accidents, construction wearable technology provides real-time surveillance of worker health and safety circumstances. This technology not only enhances efficiency on the job site through data-driven insights and immediate alerts, but also fosters a proactive approach to risk management and the creation of safer work environments. For example, the Bureau of Labor Statistics, a government agency based in the US, reported that 5,486 fatal work-related injuries were recorded in the United States in 2022, marking a 5.7% growth from 5,190 in 2021. Thus, the upsurge in workplace accidents is fueling the progress of the construction wearable technology market.

Who Are The Top Players In The Construction Wearable Technology Market?

Major players in the Construction Wearable Technology Global Market Report 2025 include:

- 3M Company
- Trimble Inc.
- Magic Leap Inc.
- Lantronix Inc.
- RealWear Inc.
- Vuzix Corporation
- StrongArm Technology
- Kinetic Construction Ltd.
- German Bionic GmbH
- XOEye Technologies

What Are The Key Trends Shaping The Construction Wearable Technology Industry?

Leading enterprises in the construction wearable technology market are concentrating on the creation of sophisticated products like AI-powered exoskeletons. These products are designed to increase efficiency, enhance safety measures, and lessen the physical burden on workers. In practicality, these AI-powered exoskeletons are wearable robotic equipment that employs artificial intelligence to deliver flexible support, thereby reducing worker fatigue, lessening accident risks, and heightening productivity. To illustrate, German Bionic, a German-based robotics and wearable technology firm, launched the first augmented AI-powered exoskeleton, Exia, in May 2025. Exia, with its intelligent movement detection and real-time biomechanical data analysis, can auto-adjust support levels based on user activity and workload. It includes features like ergonomic load support, intelligent safety warnings, and cloud-connectivity for tracking

performance. It can seamlessly merge into modern construction processes while reducing the physical stress on workers. This development underscores the burgeoning trend of AI-focused wearable tech in construction, geared towards enhancing worker health and operational effectiveness.

## Market Share And Forecast By Segment In The Global Construction Wearable Technology Market

The construction wearable technology market covered in this report is segmented –

- 1) By Product Type: Watch, Boot, Smart Helmet, Smart Glasses, Body Wear Or Vest, Exoskeleton, Other Product Types
- 2) By Connectivity Technology Type: Bluetooth, Wireless Fidelity (Wi-Fi), Fourth Generation (4G) Or Fifth Generation (5G), Radio-Frequency Identification (RFID) Or Near Field Communication (NFC)
- 3) By Application Type: Worker Safety, Productivity Monitoring, Communication, Health Monitoring, Training And Simulation
- 4) By End-User: Residential, Commercial, Industrial, Infrastructure, Other End-Users

### Subsegments:

- 1) By Watch: Global Positioning System (GPS)-Enabled Watches, Health And Safety Monitoring Watches, Communication-Integrated Smartwatches, Time-Tracking Wearables
- 2) By Boot: Slip Or Fall Detection Boots, Global Positioning System (GPS) Or Location Tracking Boots, Impact-Sensing Boots, Smart Soles
- 3) By Smart Helmet: Augmented Reality (AR)-Enabled Helmets, Sensor-Integrated Helmets, Communication-Equipped Helmets, Camera-Integrated Helmets
- 4) By Smart Glasses: Augmented Reality (AR) Display Glasses, Compliance Tracking Glasses, Remote Assistance Glasses, Data Visualization Glasses
- 5) By Body Wear Or Vest: Vital Monitoring Vests, Temperature-Regulating Vests, Posture-Sensing Wearables, High-Visibility Smart Vests
- 6) By Exoskeleton: Upper-Body Exoskeletons, Full-Body Powered Exoskeletons, Passive Lifting Exosuits, Motion-Assist Wearables
- 7) By Other Product Types: Smart Hearing Protection, Wearable Cameras, Environmental Sensing Badges, Connected Identification (ID) Tags

View the full construction wearable technology market report:

<https://www.thebusinessresearchcompany.com/report/construction-wearable-technology-global-market-report>

### Construction Wearable Technology Market Regional Insights

North America was the largest region in the construction wearable technology market in 2024. The regions covered in the construction wearable technology market report are Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, Africa.

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