

# **US Machine Control System Market Size and Forecast (2020 - 2030), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Total Stations, GNSS, Laser Scanners, Airborne Systems, GIS Collectors, and Others), Equipment (Excavators, Graders, Loaders, Dozers, Scrappers, Paving System, and Others), Industry (Infrastructure, Commercial, Residential, and Industrial), View Type (2D and 3D), and Type of Delivery (Retrofit and OEM Build)**

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## **Abstracts**

The US machine control system market size was valued at US\$ 1.9 billion in 2022 and is projected to reach US\$ 3.1 billion by 2030; it is expected to register a CAGR of 6.3% from 2022 to 2030. The US machine control system market forecast is estimated on the basis of various secondary and primary research findings such as key company publications, association data, and databases.

A machine control system is a technology that enables precise control and automation of machines, such as construction equipment, agricultural machinery, and industrial robots. It combines various components, including sensors, actuators, and software, to enhance the accuracy, efficiency, and productivity of these machines. Innovations in technology, such as the integration of GPS and GNSS systems, have significantly improved the accuracy and efficiency of machine control systems. This has led to increased demand from industries that rely on precise machine operations, such as construction and agriculture. The need for cost-effective and time-efficient operations drives the market.

Machine control systems enable automation and reduce human error, resulting in improved productivity and reduced operational costs. Also, regulatory requirements and safety standards in industries such as construction and mining have increased the demand for machine control systems. These systems help ensure compliance with safety regulations, enhance worker safety, and minimize accidents. The growing trend toward digitalization and Industry 4.0 has also contributed to the expansion of the US machine control system market. The ability of these systems to integrate with cloud computing, IoT, and other digital technologies enables real-time monitoring, data analytics, and remote control, further enhancing operational efficiency and decision-making.

Based on equipment, the OEM build segment held the largest US machine control system market share in 2022 and is expected to grow with the highest CAGR in the forecast period.

The OEM-fit product ensures that the excavator and machine control solution are properly matched. Several players in the US are launching OEM-fit-based products. For instance, in July 2021, Leica Geosystems AG launched OEM-Fit 2D and 3D machine control solutions for CASE D Series excavators from CASE SiteControl Certified dealers. This new product ensures that the best machine and solution combination is installed and tested by CASE-certified precision field professionals. It also simplifies the acquisition process by allowing the technology to be purchased alongside the equipment. Thus, such product launches propel the US machine control system market growth.

A machine retrofit solution that includes machine performance upgrades increases machine productivity by boosting machine production rates. A machine retrofit, such as new machine controls or machine tool monitoring systems, improves machine performance by upgrading existing equipment and might increase machine productivity from 10% to 30%. Several players, such as Nevatio Engineering Inc., provide machine retrofits, which fuels the growth of the US machine control system market.

Topcon Corp, Trimble Inc, Hemisphere GNSS Inc, Komatsu, Schneider Electric SE, MOBA MOBILE AUTOMATION AG, Leica Geosystems AG, ANDRITZ, M-Tech Control Corp, and AB Volvo are among the prominent players profiled in the US machine control system market report. In addition, several other players have been studied and analyzed during the study to get a holistic view of the market and its ecosystem. The report includes growth prospects in light of current US machine control system market trends and driving factors influencing the market growth.

The 'US machine control system market analysis" has been carried out by considering the following segments: type, equipment, industry, view type, and type of delivery. In terms of type, the market is segmented into total stations, GNSS, laser scanners, airborne systems, GIS collectors, and others. Based on equipment, the market is segmented into excavators, graders, loaders, dozers, scrappers, paving systems, and others. In terms of industry, the market is categorized into infrastructure, commercial, residential, and industrial. Based on view type, the market is bifurcated into 2D and 3D. In terms of type of delivery, the market is bifurcated into retrofit and OEM build.

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