

Smart Machines: Technologies and Global Markets

Market Research Report | 2025-08-19 | 154 pages | BCC Research

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Report description:

Description

Report Scope

This report provides an analysis of the global market for smart machines. It provides global revenues (in \$ billions) for segments and regions, using 2024 as the base year, with estimated market data for 2025, and forecasts of compound annual growth rates (CAGRs) through 2030. The market is segmented by product type, component, end use and region. Regions covered are North America (the U.S., Canada, Mexico), Europe (Germany, the U.K., France, Rest of Europe), Asia-Pacific (China, Japan, South Korea, India, Rest of Asia-Pacific), and the Rest of the World (South America, the Middle East and Africa). The report also focuses on emerging technologies and the vendor landscape. It concludes with profiles of the leading companies in the market.

Report Includes

- 53 data tables and 62 additional tables
- An in-depth analysis of the global markets for smart machines technologies and systems
- Analyses of the global market trends, with revenue data from 2024, estimates for 2025, forecast for 2027 and projected CAGRs through 2030
- Estimates of the size and revenue prospects of the global market, and a corresponding market share analysis by components (offerings), product type, technology, end-user industry and region
- Facts and figures pertaining to market dynamics, technological advancements, regulations, prospects and the impacts of macroeconomic variables
- Insights derived from Porter's Five Forces model, global supply chain analyses and case studies
- Review of the impact of the ongoing U.S. tariffs on the smart machines market
- Patent analysis, featuring key granted and published patents
- An analysis of the industry structure, including companies' market shares and rankings, strategic alliances, M&A activity and a venture funding outlook
- Overview of sustainability trends and ESG developments, with emphasis on consumer attitudes, and the ESG scores and

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practices of leading companies

- Company profiles of major players within the industry, including Alphabet Inc. (Google Inc.), Apple Inc., Amazon.com Inc., Microsoft, and Samsung

Executive Summary

Summary:

The global market for smart machines was valued at \$400.6 billion in 2024 and is estimated to increase from \$455 billion in 2025 to reach \$1.2 trillion by 2030, at a compound annual growth rate (CAGR) of 20.8% from 2025 through 2030.

Smart machines are devices with embedded machine-to-machine technologies such as AI, machine learning (ML), and deep learning, which enable them to reason, solve problems, make decisions, and act autonomously. Despite the global market's prodigious growth, it faces challenges. High implementation costs represent the primary barrier. Companies typically require two to three years to achieve an ROI, making technology particularly challenging for smaller businesses with limited capital. Cybersecurity is another challenge.

Market Dynamics and Growth Factors

The global smart machine market was valued at \$400.6 billion in 2024 and is expected to reach nearly \$1.2 trillion by the end of 2030. From 2025 through 2030, the market is expected to show a CAGR of 20.8%. The increasing adoption of autonomous robots and autonomous vehicles, along with the rising market penetration of AI-based intelligent systems and smart home devices, is expected to drive demand for smart machines worldwide.

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