

Mining Automation Market By Offerings (Sensors and LiDAR Systems, GPS and GNSS Modules, Industrial Cameras and Vision Systems, Connectivity and Communication Systems, Others), By Technique (Underground Mining, Surface Mining), By Component (Metal Mining, Mineral Mining, Coal Mining): Global Opportunity Analysis and Industry Forecast, 2025-2034

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Report description:

Mining Automation Market

The global mining automation market size was valued at \$4.2 billion in 2024, and is projected to reach \$8.3 billion by 2034, growing at a CAGR of 7.1% from 2025 to 2034.

□

Use of robotic technology and software automation in mining is referred as mining automation. It involves the usage of advanced technologies, which helps enhance productivity, operational efficiency, and safety during mining processes. This also helps reduce human intervention, which minimizes the risks associated with mining and helps improve workplace safety. Mining automation also helps reduce operational costs and increase overall output.□

□

There has been a rise in occurrences of life-threatening events for underground mining. These events include floods, release of toxic gases, collapse, and more, which has increased the preference for mining in automation. These occurrences also increase the demand for technologically advanced systems which can help eliminated occupational hazards. This factor boosts the growth of the mining automation market.

□

However, high cost associated with the deployment of mining automation systems limits the growth of the mining automation market. Robotic drills and autonomous trucks installation is costly, and thus their adoption is challenging for small and mid-sized

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mining firms. In addition to installation cost, the firms also need to focus on workforce training, system integration and more, which again is not cost-effective for the small and mid-sized mining firms.□

□

Nevertheless, smart mining which is transforming traditional operations and making way for the introduction of safer, efficient, and sustainable systems is projected to foster the mining automation market growth during the forecast period. These systems can also operate round-the-clock, which increases productivity. In addition, tasks such as sorting, hauling, and drilling can be handled in an efficient way with minimal material waste owing to automation. Smart mining is also projected to decrease operational cost and reduce energy consumption. Also, intelligent mining and usage of robotics help minimize human interference in high-risk zones, which reduces the error rate. Thus, smart mining, intelligent mining, and adoption of robotics in mining are anticipated to boost the growth of the market in the upcoming years.

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Segmental Overview

The mining automation market is segmented into Offerings, Technique and Component. On the basis of offerings, the market is divided into sensors & LiDAR systems, GPS & GNSS modules, industrial cameras & vision systems, connectivity & communication systems, and others. On the basis of technique, the market is segmented into underground mining and surface mining. Based on component, the market is fragmented into metal mining, mineral mining, and coal mining. Region-wise, the mining automation market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

□

Region-wise, Asia-Pacific led the mining automation market in 2024 owing to increase in mining activities in countries like China, Australia, and India. Surge in investments in digital mining technologies and rise in focus on safety and efficiency in mineral-rich regions boost the adoption of automation solutions in the Asia-Pacific region. This fosters the mining automation market growth in the region.

□

Competitive Analysis

The key players operating in the global mining automation market include Caterpillar Inc., Komatsu, Epiroc AB, Metso Outotec Corporation, Hexagon AB, Rockwell Automation Inc., ABB Ltd., FLSmidth, Siemens, and Sandvik AB.

□

Recent Developments

In April 2025, The Weir Group PLC announced the acquisition of Australian software company Micromine to strengthen Weira digital platform capabilities across the entire mining value chain including exploration, operational management, and processing. In March 2025, Caterpillar Inc. revealed a partnership with Luminar to integrate LiDAR technology into its Cat Command autonomy platform.

In January 2025, Hexagon AB announced a major investment in Saudi Arabia mining sector through a partnership with King Saud University to deliver advanced technology and specialized training to develop the next generation of mining professionals, while promoting the adoption of innovative mining solutions in the region.

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- Additional country or region analysis- market size and forecast
- Key player details (including location, contact details, supplier/vendor network etc. in excel format)
- SWOT Analysis

Key Market Segments

By Offerings

- Sensors and LiDAR Systems
- GPS and GNSS Modules
- Industrial Cameras and Vision Systems
- Connectivity and Communication Systems
- Others

By Technique

- Underground Mining
- Surface Mining

By Component

- Metal Mining
- Mineral Mining
- Coal Mining

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- UK
- France
- Italy
- Rest of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Rest of Asia-Pacific
- LAMEA
- Latin America
- Middle East
- Africa
- Key Market Players
- Epiroc AB
- Hexagon AB

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- ABB Ltd.
- FLSmidth
- Siemens
- Sandvik AB
- Caterpillar Inc.
- Metso Outotec Corporation
- Rockwell Automation Inc.
- Komatsu

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