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Industrial Electric Vehicles Market Size, Share & Trends Analysis Report By Product Type (Automated Guided Carts, Automated Tow Tractor, Autonomous Mobile Robots, Automated Guided Forklift), By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The global industrial electric vehicles market size was valued at USD 28.2 billion in 2025 and is projected to grow from USD 31.4 billion in 2026 to USD 66.2 billion in 2033, at a CAGR of 11.3% from 2026 to 2033. Europe dominated the market, accounting for a revenue share of 29.0% in 2025. Increasing inclination among businesses to adopt electric vehicles in their fleets for improved operations and cost reduction, and Scope 1 and Scope 3 carbon emissions, primarily drive market growth. In addition, the growing use of data-driven systems, the adoption of Automatic Guided Vehicles (AGVs) in warehouse operations, and advancements in technology influence the adoption of industrial electric vehicles across various regional markets.

Industrial electric vehicle equipment provides a way to automate material handling and storage processes, increasing efficiency and productivity. Advancements in technology are also contributing to the growth of the market. The development of new technologies such as robotics, AI, and ML has created more sophisticated and versatile industrial electric vehicles to handle a broader range of materials and products.

For instance, in April 2026, Toyota Material Handling introduced the “Swarm Automation Transport” system, an automated warehouse transport solution that combines the Toyota SAI125CB Automated Counterbalance Stacker with the T-ONE intelligent automation system. The solution enables coordinated operation of automated guided vehicles (AGVs) for pallet transport, storage, and material flow optimization across warehouse and manufacturing environments. The system supports fully

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automated and hybrid workflows, improving operational efficiency and reducing manual material handling requirements.

Material handling equipment is required in a warehouse or manufacturing plant for efficient product movement, stock location, order preparation, and localization. Industrial companies worldwide invest in new automated storage and retrieval systems, and other material handling equipment as they improve their facilities, adopt advanced manufacturing techniques, and create new factories and warehouses to increase productivity and lower labor costs. In addition, the development of AI and automation has led to the emergence of brand-new market sub-segments for industrial electric vehicles, which are expanding more quickly than the conventional sub-segments, and posing severe difficulties for OEMs.

Industrial electric vehicles are increasingly switching from lead acid to lithium-ion batteries, driven by faster charging rates, better round-trip efficiencies, longer life-cycles, and high energy density (about triple the lead-acid battery capacity). As these batteries do not require any watering and give off no gases, they are a perfect fit for industrial electric vehicles that operate around the clock. Lithium-ion batteries are much smaller and lighter than their lead-acid counterparts.

Industrial EVs such as AGV and AMR can be customized to meet the specific needs of a business, which contributes to the growth of the market. Businesses can work with AGV and AMR providers to design and implement a system tailored to their requirements, allowing for better integration with existing processes and systems. Another essential benefit of these industrial EVs is their potential contribution to environmental sustainability.

By automating material handling and storage processes, these systems can reduce energy consumption and waste, leading to a more sustainable operation. AMR can be designed to optimize the use of space and energy, resulting in reduced energy consumption compared to manual or traditional material handling methods. They can also be programmed to conserve energy by operating only when necessary, such as during peak periods, and shutting down during low-demand periods.

Global Industrial Electric Vehicles Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and

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provides an analysis of the latest industry trends and opportunities in each of the sub-segments from 2021 to 2033. For the purpose of this study, Grand View Research has segmented the global industrial electric vehicles market report by product type, and region:

- Product Type Outlook (Revenue, USD Billion, 2021 - 2033)
  - Automated Guided Carts
  - Automated Tow Tractor
  - Autonomous Mobile Robots (AMR)
  - Automated Guided Forklift
- Regional Outlook (Revenue, USD Billion, 2021 - 2033)
  - North America
  - U.S.
  - Canada
  - Europe
  - UK
  - Germany
  - France
  - Asia Pacific
  - China
  - Japan
  - India

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South Korea

Australia

Latin America

Brazil

Mexico

MEA

Kingdom of Saudi Arabia

UAE

South Africa

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