

Airport Snow Removal Vehicle And Equipment - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The Airport Snow Removal Vehicle And Equipment Market size is estimated at USD 10.19 billion in 2024, and is expected to reach USD 13.27 billion by 2029, growing at a CAGR of 5.42% during the forecast period (2024-2029).

Key Highlights

The growing demand for dependable and effective snow removal solutions in airports around the world mainly drives the market. The growth in air traffic and the resulting increase in flight frequency have increased the need for sophisticated snow removal vehicles to manage airport operations in different weather conditions.

Furthermore, stringent safety requirements imposed by aviation authorities concerning runway maintenance and operational effectiveness are driving the growth of the market. The airport snow removal equipment is expensive with a high maintenance cost is one of the main limitations of the expanding market. The disruption of the airline operations and the corrosion of the airframes may also limit the market.

The integration of sophisticated technologies such as GPS systems, temperature sensors, and enhanced material usage in automatic snow removal systems also contribute to the expansion of the market. With improved performance and accuracy in snow removal operations, airports strive to minimize disruption caused by bad weather.

Airport Snow Removal Vehicles Market Trends

Domestic Airports to Continue Market Dominance During the Forecast Period

The domestic airport segment caters to snow removal needs at airports that primarily handle domestic flights within a country. The segment is expected to witness significant growth in emerging economies such as India and Brazil, where the expansion of airport infrastructure and increasing air travel demand are driving the need for improved snow removal equipment. The total number of domestic airports is more when compared to international airports.

There is an increasing need for autonomous or remote-controlled snow removal equipment that improves operator safety and enhances operational efficiency. In September 2022, the airport of Stuttgart started the deployment of autonomous snow-clearing vehicles. The AirfieldPilot is a sweeping blower and can be used to clear the snow and ice from the runways, the taxiways, and the aprons without the need for a driver. Aebi Schmidt Group (ASG) and Flughafen GmbH deployed autonomous snow-clearing vehicles and equipment at the airport Stuttgart.

Some of the most innovative snow clearance technologies are Boschung's ice early warning system, which forecasts the future of runway conditions, and Yeti Move's autonomous snowploughs, which have been delivered to the airports in Stockholm and Oslo. All 12 units in Oslo Airport have been operating on their own since 2022-23. The considerable expansion in the domestic aviation industry and the rising need for technologically advanced snow removal equipment to remove ice from taxiways to ensure smooth arrival and departure of aircraft are major factors driving the market growth.

North America to Dominate Market Share During the Forecast Period

The airlines launched over 650 new routes involving at least one North American airport in 2022, and in 2021, over 1,200 new routes were launched by airlines, including airports in North America (comprising Canada and the US), of which about 890 were new US domestic routes. Thus, as airlines aim to increase connectivity to capture the growing air passenger traffic, airport infrastructure may play a vital role.

With the rapid growth in air travel, there is a significant need for new airports and terminals to support the fleet expansion plans of airlines. In July 2022, the Federal Aviation Administration announced its plans to administer USD 1 billion in funds as part of the Infrastructure Law passed by the current US government. Under the FAA's

Airport Improvement Programme, in November 2022, 85 airports in 28 states were better prepared to keep airport operations running safely and smoothly. The US Department of Transportation's Federal Aviation Administration has awarded more than USD 76.2 million in FY2022 for snowplows, de-icing equipment, and new or upgraded buildings to store this equipment. The program pays for a variety of projects, including the construction of new and improved airport facilities, repairs to runways and taxiways, and maintenance of airfield elements such as lighting or signage.

Similarly, in March 2022, the Canadian government provided USD 22 million in a new funding round for a critical infrastructure project at St. John's International Airport. The presence of demand for aviation infrastructure in North American airports to handle the increasing air passenger traffic is expected to aid the market.

Airport Snow Removal Vehicles Industry Overview

The market is semi-consolidated in nature with a presence of major players such as M-B Companies, Boschung Holding AG, Alamo Group Inc., Team Eagle Ltd., and Oshkosh Corporation. Key players are engaging in strategic partnerships and collaborations to expand their product portfolios and market presence. Technological innovation remains a key driver for gaining a competitive advantage.

Companies are investing heavily in R&D to develop cutting-edge, efficient, and eco-friendly snow removal solutions. The airport snow removal vehicle market is characterized by the consolidation of key players, which forces smaller players to concentrate on niche segments or team up to gain a competitive edge in this highly competitive industry.

Additional Benefits:

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