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Global Airport Robots Market Size study & Forecast, by End-user (Airport Security, Boarding Pass Scanning, Airport Baggage System, Passenger Guidance, other) by Application (Landside, Terminal), by Type (Humanoid, Non-Humanoid) and Regional Analysis, 2022-2029

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Abstracts

Global Airport Robots Market is valued at approximately USD 1725.5 million in 2021 and is anticipated to grow with a healthy growth rate of more than 2.89 % over the forecast period 2022-2029. In facilities with significant passenger traffic, like airports, airport robots provide more convenience. They can assist with quick check-ins, directing travelers to the appropriate terminals, resolving luggage-related difficulties, sanitizing, cleanliness, security checks, and other tasks. Robots driven by AI streamline the baggage handling process from check-in at the source airport through check-out at the air terminal.

The overall number of passengers carried on scheduled flights reached 4.38 billion in 2019, up 3.65% from the previous year, according to the International Civil Aviation Organization's (ICAO) yearly data for the whole globe. Asia-Pacific is predicted to have the most passenger volume. The International Air Transport Association (IATA) announced in October 2018 that by 2037, there might be 8.2 billion passengers worldwide. Even though lately, in May 2021, the International Air Transport Association (IATA) mentioned that the global passenger numbers is predicted to recoup almost to 88% of pre-COVID-19 levels during 2022, and is projected to surpass this level during 2023, the COVID-19 pandemic caused a severe decline in air traffic figures. This indicates a significant need for air travel globally. Robots can transport passenger luggage, eliminating the need for humans to manually carry their luggage on trolleys.

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Due to incorporated sensors, the robot may move alongside the passenger, reducing their burden. Robots may then scan the bags' radio-frequency identification (RFID) tags and transmit the data to robots at the destination airport, simplifying the processing of luggage. As travelers value comfort when flying, these advantages are anticipated to increase the number of travelers choosing airline travel over other modes, which will raise the need for airport robots throughout the anticipated period. Aircraft must move from the taxiway to the airport and vice versa in accordance with their predetermined course. Despite the short distances between the two locations, it increases the cost of operating an Aeroplan since more fuel must be used. Airlines may significantly cut their fuel usage by utilizing taxi boats. However, the high cost of Airport Robots stifles market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Airport Robots Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. Asia pacific dominated the market in terms of revenue and it is also the fastest-growing region. By the middle of 2020, China is expected to overtake the United States as the world's largest aviation market, according to the IATA (International Air Transport Association).

Major market player included in this report are:
LG Electronics Inc.
Stanley Robotics
Cyberdyne Inc.
SoftBank Corp.
ABB Ltd
UVD Robots
YUJIN Robot Co., Ltd.
Avidbots Corp.
Cyberdyne Inc.
ECA Group
Recent Developments in the Market:
In October 2021, Secom Robot X2, an independent patrolling robot, has been placed in the Main terminal of Kansai International Airport (KIX) as well as the airport's train station, according to a statement from Kansai Airports. The brand-new security robot can independently travel patrol routes while keeping an eye on various airport locations to use a laser sensor to determine its location.
In July 2021 Avidbots Neo floor robot cleaners were used by Singapore Changi Airport to increase the efficiency of their cleaning crews and cut expenses. The Avidbots Neo is a specially designed floor-scrubbing robot with sophisticated hardware, navigational technology, sensors, and software.

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Global Airport Robots Market Report Scope:
Historical Data 2019-2020-2021
Base Year for Estimation 2021
Forecast period 2022-2029
Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends
Segments Covered End-User, Type, Application, Region
Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World
Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:
By End-Users:
Airport Security
Boarding Pass Scanning
Airport Baggage System
Passenger Guidance
Others
By Application:
Landside
Terminal
By Type:
Humanoid
Non-Humanoid

By Region:
North America
U.S.
Canada
Europe

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Germany
France
Spain
Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Rest of the World

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