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Automatic Platform Doors Market Forecasts to 2030 – Global Analysis By Product (Full-Height Doors, Half-Height Doors, Screen Doors, Half-Screen Doors and Other Products), Type, Material, Mechanism, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Automatic Platform Doors Market is accounted for $9.32 billion in 2024 and is expected to reach $15.54 billion by 2030 growing at a CAGR of 8.9% during the forecast period. Automatic platform doors are safety barriers installed at transportation platforms. These doors align with the entry points of vehicles such as trains, buses, or planes and open automatically when the vehicle arrives. APDs prevent passengers from falling onto tracks or moving vehicles and improve passenger flow. They also help control environmental factors like air quality and noise, providing a cleaner and safer station environment. APDs enhance overall transportation safety and operational efficiency.

According to a study conducted in 2015, the installation of automatic platform screen doors in Tokyo Rail and Subway Lines resulted in reduction of suicides by about 76%.

Market Dynamics:

Driver:

Urbanization and infrastructure development

As urban populations increase, the demand for efficient, safe, and reliable public transportation systems rises. APDs are crucial for enhancing passenger safety by preventing accidents and ensuring smooth operations. New transit projects and the

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modernization of older stations present opportunities for integrating APDs. Additionally, cities focused on sustainable development and improved public transport infrastructure see APDs as essential components in achieving operational efficiency and safety standards, further boosting market growth.

Restraint:

Complexity of integration

The complexity of integration in APDs arises from the need for seamless coordination with various systems. Variations in train types, station designs, and regulatory standards add further challenges in ensuring compatibility. Integrating these systems requires significant upfront investment, skilled personnel, and time. This complexity can result in delays in implementation and higher costs, hindering market adoption, especially in regions with existing infrastructure or limited budgets, thus slowing overall market growth.

Opportunity:

Growth in high-speed rail networks

High-speed trains operate at faster speeds and carry large volumes of passengers, making APDs essential for preventing accidents, ensuring smooth boarding processes, and enhancing station safety. Additionally, high-speed rail projects often involve the development of modern, technologically integrated stations that incorporate APDs to align with safety standards and regulations. As high-speed rail networks expand globally, the demand for APDs continues to rise, driving further market growth.

Threat:

Vandalism and malfunction risks

Vandalism and malfunction risks in APDs arise due to external damage, tampering, or technical issues with the mechanical and electronic systems. Vandalism, such as intentional damage or misuse, can disrupt door functionality, causing delays and safety hazards. Malfunctions, such as sensor failures or power outages, lead to operational inefficiencies and potential accidents. These issues can result in high repair costs, service interruptions, and decreased reliability, which hamper the market growth.

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Covid-19 Impact

The covid-19 pandemic had a mixed impact on the automatic platform doors market. Initially, the global lockdowns and reduced travel demand led to delays in APD installations and projects. However, as cities gradually reopened, the focus on health and safety increased, driving the demand for APDs to minimize physical contact and maintain social distancing. Furthermore, the pandemic underscored the need for improved hygiene and operational efficiency, further boosting APD adoption in public transport systems.

The sliding doors segment is expected to be the largest during the forecast period

The sliding doors segment is predicted to secure the largest market share throughout the forecast period. Sliding APDs are designed to enhance safety and efficiency in metro and railway stations. These doors automatically open and close in sync with train arrivals, preventing passengers from accessing the tracks. They improve station safety, reduce the risk of accidents, and help manage passenger flow. Additionally, they contribute to environmental control by maintaining station cleanliness and minimizing noise and air pollution.

The metro & subway stations segment is expected to have the highest CAGR during the forecast period

The metro & subway stations segment is anticipated to witness the highest CAGR during the forecast period. APDs are safety barriers installed at transportation platforms, including metro, subway, and light rail stations, as well as airports and bus terminals. APDs prevent passengers from falling onto tracks or moving vehicles and improve passenger flow. They also help control environmental factors like air quality and noise, providing a cleaner and safer station environment. APDs enhance overall transportation safety and operational efficiency.

Region with largest share:

Asia Pacific is expected to register the largest market share during the forecast period due to rapid urbanization, expanding metro and rail networks, and increasing safety concerns. Countries like China, Japan, India, and South Korea are heavily investing in modernizing public transit systems, driving demand for APDs. The region's large population and high demand for efficient, safe public transportation are key factors propelling market growth. Additionally, technological advancements and government

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regulations further supporting the widespread adoption of APDs in Asia-Pacific cities.

Region with highest CAGR:

North America is expected to witness the highest CAGR over the forecast period driven by the expansion and modernization of metro, subway, and light rail networks in cities like New York, Toronto, and Los Angeles. Increasing safety regulations, government initiatives, and rising public awareness about the benefits of APDs in reducing accidents and improving station efficiency are fueling market demand. Additionally, advancements in existing infrastructure are further boosting the adoption of APDs across the region's urban transit systems.

Key players in the market

Some of the key players profiled in the Automatic Platform Doors Market include Mitsubishi Electric Corporation, Toshiba Corporation, Schindler Group, Hitachi Ltd., Hyundai Elevator Corporation, Fujitec Corporation, Siemens AG, Knorr-Bremse AG, Thyssenkrupp AG, ST Engineering, ADELTE Group, Sovina Corporation, Fangda Group, Dongnan Elevator Corporation, Stanley Access Technologies LLC, Omega Flex Inc., Kone Corporation and Otis Elevator Company.

Key Developments:

In March 2024, Toshiba Corporation introduced the SmartMCD™ Series gate driver ICs, featuring an embedded microcontroller (MCU). The inaugural product, the TB9M003FG, is designed for sensorless control of three-phase brushless DC motors in automotive applications such as water and oil pumps, fans, and blowers.

In December 2019, ST Engineering launched the world's first Variable Pitch Platform Screen Door (VP-PSD). This innovation was a significant advancement in the field of platform screen door systems, which are primarily used in rail transport systems to enhance safety by preventing passengers from accidentally falling onto the tracks.

Products Covered:

- Full-Height Doors
- Half-Height Doors

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- Screen Doors
- Half-Screen Doors
- Other Products

Types Covered:

- Single Leaf System
- Double Leaf System
- Sliding Doors
- Swing Doors
- Bi-Parting Doors
- Other Types

Materials Covered:

- Glass
- Steel
- Aluminum
- Other Materials

Mechanisms Covered:

- Manual Doors
- Fully Automated Doors

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Applications Covered:

- Metro & Subway Stations
- Railway Stations
- Airports
- Ferry Terminals
- Other Applications

End Users Covered:

- Transportation Operators
- Construction & Infrastructure Companies
- Maintenance Service Providers
- Public & Government Authorities
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany

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- UK
- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

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Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

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Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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