

Automated Parking Market Forecasts to 2034 – Global Analysis By System Type (Automated Guided Vehicle (AGV) Systems, Silo Systems, Tower Systems, Rail-Guided Cart (RGC) Systems, Puzzle Systems, Rotary Systems, and Shuttle Systems), Component, Platform Type, Automation Level, End Use, and By Geography

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Abstracts

According to Statistics MRC, the Global Automated Parking Market is accounted for \$2.8 billion in 2026 and is expected to reach \$8.3 billion by 2034 growing at a CAGR of 14.6% during the forecast period. Automated parking refers to mechanical and robotic systems that automatically park and retrieve vehicles without driver involvement, encompassing automated guided vehicle systems, silo systems, tower systems, rail-guided cart systems, puzzle systems, rotary systems, and shuttle systems. These systems include hardware, software, and services, and are available in palletized and non-palletized platforms with semi-automated and fully automated operation. Applications include residential, commercial, mixed-use, and public and municipal parking facilities.

Market Dynamics:

Driver:

Urban land scarcity and growing parking demand

The increasing scarcity of urban land and growing demand for parking solutions are primary drivers for the automated parking market. Automated parking systems maximize parking capacity in limited spaces. High-density urban areas benefit from space-efficient parking solutions. Growing vehicle ownership increases parking demand. Land costs make automated parking economically attractive. As urbanization

continues, automated parking adoption expands across all applications, supporting sustained market growth.

Restraint:

High capital investment and technical complexity

The significant capital investment required for automated parking systems and technical complexity represent a major restraint for the market. Automated parking systems require substantial upfront investment. Mechanical and control systems add complexity. Maintenance requirements require specialized expertise. Retrofitting existing buildings is challenging. These cost and complexity barriers may limit adoption, particularly for smaller developments.

Opportunity:

Integration with smart city infrastructure

The growing integration of automated parking with smart city infrastructure presents significant opportunities for market expansion. Digital payment and reservation systems enhance user convenience. Integration with mobility platforms supports multimodal transportation. Real-time availability data improves utilization. As smart city initiatives expand, integrated parking solutions capture growing market share.

Threat:

Competition from conventional parking solutions

Competition from conventional surface and structured parking poses significant threats to automated parking market growth. Conventional parking has lower upfront costs. Familiarity and user acceptance favor conventional solutions. Surface parking remains adequate in less dense areas. This competition may limit market share, particularly in markets with lower land costs.

Covid-19 Impact:

The COVID-19 pandemic had a mixed impact on the automated parking market. Construction delays affected project timelines. Reduced vehicle usage during lockdowns decreased parking demand. However, contactless parking solutions gained interest. Post-pandemic, parking demand has recovered with continued urbanization supporting market growth.

The Tower Systems segment is expected to be the largest during the forecast period

The Tower Systems segment is expected to account for the largest market share during the forecast period, driven by their high space efficiency and suitability for dense urban environments. Tower systems maximize parking capacity in minimal footprint. The segment benefits from proven technology and reliability. High land values make tower systems economically attractive. Growing urban density supports adoption. As the most space-efficient automated parking solution, tower systems maintain the largest segment share.

The Fully Automated Parking segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the Fully Automated Parking segment is predicted to witness the highest growth rate, fueled by technological advancements, declining costs, and growing consumer acceptance of automated solutions. Fully automated systems offer maximum convenience and space efficiency. The segment benefits from integration with digital payment and reservation platforms. As technology matures and costs decline, fully automated parking delivers the fastest automation level segment growth.

Region with largest share:

During the forecast period, the Asia-Pacific region is expected to hold the largest market share, supported by rapid urbanization, high population density, and significant land scarcity in major cities. China and Japan lead regional growth with extensive automated parking deployments. Government support for smart city initiatives accelerates adoption. High land costs make automated parking economically attractive. With the largest urban populations and land constraints, Asia Pacific maintains its dominant market position.

Region with highest CAGR:

Over the forecast period, the Asia-Pacific region is anticipated to exhibit the highest CAGR, driven by continued urbanization, rising vehicle ownership, and increasing investment in smart parking infrastructure across India and Southeast Asia. The region's growing urban populations create substantial parking demand. Land scarcity in major cities drives automated parking adoption. Government infrastructure investment

accelerates development. As urban parking challenges intensify, Asia Pacific delivers the fastest market growth globally.

Key players in the market

Some of the key players in Automated Parking Market include Westfalia Technologies, Inc., KLAUS Multiparking GmbH, ParkPlus, Wöhr Parking Systems Pvt. Ltd., Unitronics, ShinMaywa Industries, Ltd., Robotic Parking Systems, Inc., Skyline Parking AG, L?dige Industries GmbH, Parkmatic, CityLift, Sotefin SA, FATA Automation, SKIDATA AG, and AutoMotion Parking Systems.

Key Developments:

In June 2026, KLAUS Multiparking expanded market strategy discussions around state-level U.S. parking reform, analyzing how the elimination of municipal parking minimums accelerates the adoption of mechanical car stackers in dense urban residential centers.

In June 2026, W?HR Parking Systems inaugurated a new 12-acre smart manufacturing facility in Khandala, near Pune, India, incorporating Industry 4.0 automation, R&D testing modules, and expanded assembly to supply markets across Asia and the Middle East.

In April 2026, SKIDATA equipped Frankfurt Airport's newly commissioned Terminal 3 parking facility with an advanced parking management and access system featuring license plate recognition and dynamic scalability.

System Types Covered:

Automated Guided Vehicle (AGV) Systems

Silo Systems

Tower Systems

Rail-Guided Cart (RGC) Systems

Puzzle Systems

Rotary Systems

Shuttle Systems

Components Covered:

Hardware

Software

Services

Platform Types Covered:

Palleted Systems

Non-Palleted Systems

Automation Levels Covered:

Semi-Automated Parking

Fully Automated Parking

End Uses Covered:

Residential

Commercial

Mixed-Use

Public and Municipal

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of 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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

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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Note: Tables for North America, Europe, APAC, South America, and Rest of the World
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