

Automated Barriers and Bollards Market By Type (Barriers, Bollards), By Technology (Push button, RFID, Remote Controlled, Loop Detectors, Others), By End User Industry (Building complexes, Public infrastructure), By Region, By Competition Forecast & Opportunities, 2018-2028F

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Abstracts

The Global Automated Barriers and Bollards Market achieved a valuation of USD 2.08 billion in 2022 and is poised for robust growth in the forecast period, with an anticipated Compound Annual Growth Rate (CAGR) of 5.19% through 2028.

The Automated Barriers and Bollards market encompasses the global industry dedicated to the production, distribution, installation, and maintenance of automated security and access control systems, commonly referred to as barriers and bollards. These systems are specifically designed to regulate and control vehicular and pedestrian access to defined areas, thereby enhancing security, traffic management, and overall safety.

Automated barriers typically consist of retractable or swinging arms that can be raised or lowered to grant or deny access to vehicles at various entry and exit points. These locations include parking lots, checkpoints, and sensitive facilities. Bollards, on the other hand, are robust vertical posts strategically positioned to manage vehicle or pedestrian access while offering protection against unauthorized intrusion or vehicle-based threats.

The Automated Barriers and Bollards market serves a diverse array of sectors, including critical infrastructure protection, transportation, government facilities, commercial properties, and public spaces. These systems often incorporate advanced

technologies such as access control, surveillance integration, and automation to ensure efficient operation.

As the market responds to escalating security concerns, urbanization trends, and evolving regulatory requirements, the demand for automated barriers and bollards continues to grow steadily. This growth is accompanied by ongoing innovation aimed at enhancing the effectiveness and versatility of these security and access control solutions.

Key Market Drivers

Increasing Security Concerns Drive Demand for Automated Barriers and Bollards

The global Automated Barriers and Bollards market is experiencing a surge in demand due to the escalating concerns over security. In an age characterized by heightened security risks, such as terrorist threats and criminal activities, organizations and governments worldwide are prioritizing the safeguarding of their premises, assets, and citizens. Automated barriers and bollards have emerged as essential components of comprehensive security solutions, effectively preventing unauthorized vehicle access and enhancing perimeter protection. Automated barriers and bollards offer robust physical access control, making them indispensable in securing critical infrastructure, military bases, government facilities, airports, and high-profile public spaces. The need for stringent security measures in today's world is a significant driver propelling the growth of the Automated Barriers and Bollards market.

Rapid Urbanization and Infrastructure Development Fuel Market Expansion

The ongoing global trend of rapid urbanization and infrastructure development is another compelling driver for the Automated Barriers and Bollards market. As urban areas expand and populations swell, efficient traffic management, crowd control, and access regulation become paramount. Automated barriers and bollards play a pivotal role in managing traffic flow, ensuring pedestrian safety, and controlling access to restricted zones. Municipalities, urban planners, and facility operators recognize the importance of implementing advanced access control solutions to mitigate traffic congestion and enhance overall urban safety. Consequently, the demand for automated barriers and bollards is on the rise, particularly in emerging economies where infrastructure development is at its peak.

Technological Advancements Enhance Product Appeal

The incorporation of cutting-edge technologies is transforming the Automated Barriers and Bollards market. Manufacturers are increasingly integrating advanced features such as AI-driven analytics, remote monitoring, and IoT connectivity into their products. These technological advancements enhance the functionality, reliability, and versatility of automated barrier and bollard systems, making them more attractive to customers. The integration of sophisticated technologies not only improves security but also facilitates seamless integration with existing access control and surveillance systems. Businesses and organizations seeking innovative, state-of-the-art security solutions are driving the demand for technologically advanced automated barriers and bollards.

Regulatory Compliance Mandates Drive Adoption

Stringent regulations and safety standards mandated by governments and industry bodies are compelling organizations to invest in automated barriers and bollards. Compliance with these regulations is particularly crucial in sectors like transportation, where safety is paramount. Automated barrier and bollard systems are designed to meet or exceed these standards, ensuring that organizations remain compliant and avoid potential legal liabilities. Regulatory mandates related to anti-terrorism measures, pedestrian safety, and traffic management are prevalent drivers of adoption in regions worldwide. Organizations and facility operators understand the importance of adhering to these regulations and view automated barriers and bollards as a reliable means to achieve compliance.

Escalating Traffic Congestion Spurs Demand

The escalating problem of traffic congestion in urban areas is a significant driver propelling the Automated Barriers and Bollards market. With the continuous increase in the number of vehicles on the road, managing traffic flow has become a paramount concern for city planners and transportation authorities. Automated barriers and bollards are instrumental in easing congestion by controlling vehicle access, optimizing parking, and ensuring smoother traffic flow during peak hours. As cities expand and traffic congestion worsens, the need for effective traffic management solutions becomes more pronounced. Consequently, automated barriers and bollards are in high demand, particularly in metropolitan regions striving to alleviate congestion and enhance mobility.

Growing Emphasis on Environmental Sustainability

The growing global emphasis on environmental sustainability is influencing the

Automated Barriers and Bollards market. Many automated barrier and bollard systems are designed with energy-efficient features and environmentally friendly materials. Additionally, by efficiently managing traffic and reducing idling times, these systems contribute to lower emissions and improved air quality in urban areas. Organizations and governments are increasingly considering the environmental impact of their infrastructure choices, making sustainable solutions more attractive. As a result, automated barriers and bollards that align with eco-friendly initiatives are gaining traction, further driving market growth.

In conclusion, the global Automated Barriers and Bollards market is being propelled by the pressing need for enhanced security, rapid urbanization, technological advancements, regulatory compliance mandates, traffic congestion alleviation, and the growing focus on environmental sustainability. These drivers are steering organizations across diverse sectors towards investing in automated barrier and bollard systems to bolster security, streamline access control, address urban challenges, and adhere to stringent regulations while promoting sustainability. As these drivers continue to evolve, the market for automated barriers and bollards is poised for sustained expansion in the foreseeable future.

Government Policies are Likely to Propel the Market

Security Regulations and Standards

Governments worldwide have recognized the importance of security regulations and standards in the Automated Barriers and Bollards market. These policies are designed to enhance public safety, protect critical infrastructure, and mitigate security threats. For example, government agencies often establish stringent standards for automated barrier and bollard systems' performance, durability, and resilience in the face of potential security breaches. These regulations require manufacturers to meet specific criteria when designing and producing these security solutions. Compliance with these standards is crucial for market participants as it ensures the effectiveness of the automated barriers and bollards in safeguarding public spaces, transportation hubs, and sensitive facilities. In addition, adherence to these government policies often becomes a prerequisite for securing contracts and tenders related to security installations, further driving the market's growth.

Transportation and Traffic Management Policies

In the realm of transportation and traffic management, governments play a pivotal role

in shaping the Automated Barriers and Bollards market. Policies related to urban planning, traffic flow optimization, and public safety often require the integration of automated barrier and bollard systems into road infrastructure. These policies aim to alleviate traffic congestion, improve road safety, and enhance mobility. Governments frequently invest in the installation of automated barriers and bollards at critical points such as toll booths, parking facilities, and pedestrian zones. These policies help manage vehicular and pedestrian traffic efficiently, ensuring smoother transportation operations. Such government initiatives stimulate market growth as manufacturers and service providers respond to the demand for integrated traffic management solutions.

Counterterrorism Measures and Critical Infrastructure Protection

Counterterrorism measures are a top priority for governments globally, and automated barriers and bollards are integral components of these policies. Government agencies implement measures to safeguard critical infrastructure, public spaces, and iconic landmarks against terrorist threats. Automated barriers and bollards are strategically deployed to prevent vehicle-based attacks, unauthorized access, and acts of sabotage. Governments allocate substantial budgets for these security measures, fostering demand for advanced automated barrier and bollard systems. Manufacturers often work closely with government agencies to tailor solutions that align with counterterrorism policies and critical infrastructure protection requirements, further contributing to market expansion.

Environmental Regulations and Sustainability Initiatives

As the world grapples with environmental challenges, governments are instituting policies to promote sustainability in the Automated Barriers and Bollards market. These policies encourage the adoption of eco-friendly and energy-efficient solutions. Manufacturers are encouraged to develop products that minimize energy consumption, reduce emissions, and use sustainable materials in their production. Incentives and subsidies may also be provided to organizations and municipalities that invest in environmentally responsible automated barrier and bollard systems. Governments recognize the potential of these solutions to contribute to cleaner and more sustainable urban environments, and their policies reflect a commitment to addressing climate change and improving air quality.

Accessibility and Inclusivity Regulations

Accessibility and inclusivity are key aspects of government policies related to the

Automated Barriers and Bollards market. Governments are increasingly emphasizing the importance of ensuring that these security solutions do not create barriers for individuals with disabilities or marginalized communities. Policies are put in place to ensure that automated barriers and bollards are designed and installed in a way that accommodates all users. These policies may include requirements for accessible pathways, tactile warnings, and audible signals to assist individuals with disabilities in navigating these security installations. By promoting inclusivity, governments aim to strike a balance between security and accessibility, creating a more equitable urban environment.

Research and Development Funding

Governments often allocate funding for research and development initiatives in the Automated Barriers and Bollards market. These policies aim to spur innovation, encourage the development of cutting-edge technologies, and enhance the competitiveness of domestic manufacturers on the global stage. Research grants, subsidies, and partnerships with academic institutions are common mechanisms used to support R&D efforts in this sector. These policies not only drive technological advancements but also stimulate job creation and economic growth within the industry.

In summary, government policies in the global Automated Barriers and Bollards market encompass a wide range of areas, including security regulations, transportation management, counterterrorism measures, environmental sustainability, accessibility, and research and development funding. These policies shape the market by influencing product standards, demand for security solutions, sustainability practices, and technological innovation. As governments continue to adapt their policies to address evolving challenges, the Automated Barriers and Bollards market will remain dynamic and responsive to changing needs and priorities.

Key Market Challenges

Cost Constraints and Budgetary Limitations

One of the primary challenges facing the global Automated Barriers and Bollards market is the cost constraints and budgetary limitations that organizations and governments often encounter. Automated barriers and bollards, especially those equipped with advanced technologies and robust security features, can be relatively expensive to purchase and install. This cost factor can act as a significant barrier, particularly for smaller businesses, municipalities, or regions with limited financial resources. Many

organizations and government agencies must carefully allocate their budgets across various security and infrastructure needs, making it challenging to prioritize investment in automated barrier and bollard systems. This can result in delayed or scaled-down implementations, leaving security vulnerabilities unaddressed or traffic management issues unresolved. Furthermore, economic downturns or budget cuts can exacerbate these challenges, as funds for capital projects may be diverted to more pressing concerns. To overcome this challenge, manufacturers and stakeholders in the Automated Barriers and Bollards market must work on cost-effective solutions and innovative financing models that make these security and traffic management technologies more accessible to a wider range of customers. Additionally, governments may need to explore subsidy programs or incentives to encourage investment in these systems, especially when they contribute to broader safety and security objectives.

Evolving Threats and Adaptation

The ever-evolving nature of security threats and traffic management challenges presents a significant hurdle for the global Automated Barriers and Bollards market. As malicious actors become more sophisticated and inventive in their methods, automated barrier and bollard systems must continually adapt to address new threats effectively. Similarly, traffic patterns, urban environments, and transportation technologies are evolving, necessitating flexibility and adaptability in these systems. For security applications, automated barriers and bollards must stay ahead of emerging threats, such as vehicle-based attacks, cyberattacks, and evolving intrusion tactics. This requires constant innovation, research, and development to integrate advanced technologies like artificial intelligence, facial recognition, and threat detection algorithms into these systems. Staying up-to-date with security standards and regulations is also essential to ensure compliance and effectiveness. In the realm of traffic management, challenges arise from the increasing complexity of urban environments, including the growth of smart cities, autonomous vehicles, and changing mobility patterns. Automated barriers and bollards must be able to seamlessly integrate with these evolving transportation systems and technologies. Furthermore, they must adapt to changing traffic regulations, congestion levels, and pedestrian safety requirements.

To address the challenge of evolving threats and adaptation, stakeholders in the Automated Barriers and Bollards market need to foster a culture of innovation, invest in research and development, and maintain close collaboration with security experts, government agencies, and urban planners. Continuous monitoring of emerging threats and trends is crucial to stay one step ahead and ensure that automated barrier and bollard systems remain effective in an ever-changing landscape. Additionally,

partnerships with technology providers and integration specialists can help bridge the gap between existing solutions and emerging challenges.

Segmental Insights

Barriers Insights

The Barriers segment had the largest market share in 2022 & expected to maintain it in the forecast period. Barriers are dominating in the global Automated Barriers and Bollards market for several reasons. Firstly, barriers are highly effective at controlling and regulating vehicular access, making them a preferred choice in applications where traffic management and security are paramount. Their ability to swiftly open and close, coupled with options for various arm lengths and styles, provides flexibility in accommodating different types of vehicles and traffic flow requirements. Secondly, barriers are often perceived as more cost-effective compared to bollards, making them an economical choice for businesses and organizations seeking access control solutions within constrained budgets. Their relatively lower installation and maintenance costs contribute to their widespread adoption. Moreover, barriers tend to be visually prominent, serving as a strong visual deterrent to unauthorized access, which is particularly valuable for security-conscious environments. Lastly, barriers can be integrated seamlessly with access control systems, surveillance, and other security technologies, enhancing their overall effectiveness and compatibility within modern security infrastructures. Overall, the combination of effectiveness, cost-efficiency, visual deterrence, and integration capabilities positions barriers as the dominant choice in the Automated Barriers and Bollards market. However, it's essential to note that bollards also play a crucial role in specific applications requiring robust perimeter protection and pedestrian safety.

Push button Insights

The push button segment had the largest market share in 2022 and is projected to experience rapid growth during the forecast period. Push-button controls are known for their simplicity and ease of use. They require minimal training for operators and users, making them a preferred choice in various applications. This user-friendliness enhances accessibility and ensures that a wide range of individuals can operate the barriers and bollards efficiently. Push buttons provide instant control over the automated barriers and bollards. With a simple press, users can command the system to raise or lower the barrier arm or bollard post, allowing for swift and precise access control. This immediate response is crucial in situations where security or traffic management decisions need to

be made quickly. Push-button controls are known for their reliability. They have a proven track record of consistent performance and durability, requiring minimal maintenance. This reliability is essential for security and traffic management applications where uninterrupted operation is critical. Push-button controls can easily integrate with various access control systems, such as keycard readers, intercoms, or remote controls. This compatibility ensures seamless integration into existing security infrastructures, making them a versatile choice for a wide range of applications. Push-button control systems are often cost-effective compared to more advanced control options. This affordability makes them an attractive choice, especially for businesses, municipalities, and organizations with budget constraints. Push-button controls have a long history of use in automated barrier and bollard systems. Their widespread adoption has created a sense of familiarity among users and installers, further contributing to their dominance in the market. The simplicity of push-button controls reduces the learning curve for operators and ensures that even individuals with minimal training can effectively operate the system. This low learning curve minimizes the potential for user errors, enhancing overall security and efficiency.

Regional Insights

North America

The North American market for automated barriers and bollards had the largest share in 2022. This is due to the increasing demand for these products in the transportation, commercial, and industrial sectors. The US is the major driver of the market in this region.

The US government is investing heavily in smart city projects, which is driving the demand for automated barriers and bollards. These projects are aimed at improving public safety and security, and automated barriers and bollards are seen as an effective way to do this.

The commercial sector is also a major driver of the market in North America. The increasing number of retail stores, office buildings, and other commercial establishments is driving the demand for automated barriers and bollards. These products are used to control access to these facilities and to prevent unauthorized entry.

The industrial sector is also a significant market for automated barriers and bollards. These products are used to control access to industrial plants and warehouses, and to

prevent unauthorized entry of vehicles and personnel.

Europe

The European market for automated barriers and bollards had the second largest in 2022. This is due to the increasing investments in smart city projects and the growing need for security in public places. Germany, the UK, and France are the major drivers of the market in this region.

The European government is investing heavily in smart city projects, which is driving the demand for automated barriers and bollards. These projects are aimed at improving public safety and security, and automated barriers and bollards are seen as an effective way to do this.

The commercial sector is also a major driver of the market in Europe. The increasing number of retail stores, office buildings, and other commercial establishments is driving the demand for automated barriers and bollards. These products are used to control access to these facilities and to prevent unauthorized entry.

The industrial sector is also a significant market for automated barriers and bollards. These products are used to control access to industrial plants and warehouses, and to prevent unauthorized entry of vehicles and personnel.

Key Market Players

Automatic Systems Inc

Avon Barrier Corporation Ltd.

Bollor? Group

CAME S.p.A.

FAAC Group

Houston System Inc.

Macs Automated Bollard Systems Ltd.

Nice S.p.A

Omnitec Group

Report Scope:

In this report, the Global Automated Barriers and Bollards Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Automated Barriers and Bollards Market, By Type:

Barriers

Bollards

Automated Barriers and Bollards Market, By Technology:

Push button

RFID

Remote Controlled

Loop Detectors

Others

Automated Barriers and Bollards Market, By End User Industry:

Building complexes

Public infrastructure

Automated Barriers and Bollards Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Automated Barriers and Bollards Market.

Available Customizations:

Global Automated Barriers and Bollards market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

2. RESEARCH METHODOLOGY

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMER

5. GLOBAL AUTOMATED BARRIERS AND BOLLARDS MARKET OUTLOOK

5.1. Market Size & Forecast

5.1.1. By Value

5.2. Market Share & Forecast

5.2.1. By Type (Barriers, Bollards)

5.2.2. By Technology (Push button, RFID, Remote Controlled, Loop Detectors, Others)

5.2.3. By End User Industry (Building complexes, Public infrastructure)

5.2.4. By Region

5.2.5. By Company (2022)

5.3. Market Map

6. NORTH AMERICA AUTOMATED BARRIERS AND BOLLARDS MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type

6.2.2. By Technology

6.2.3. By End User Industry

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Automated Barriers and Bollards Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Type

6.3.1.2.2. By Technology

- 6.3.1.2.3. By End User Industry
- 6.3.2. Canada Automated Barriers and Bollards Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Type
 - 6.3.2.2.2. By Technology
 - 6.3.2.2.3. By End User Industry
- 6.3.3. Mexico Automated Barriers and Bollards Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Type
 - 6.3.3.2.2. By Technology
 - 6.3.3.2.3. By End User Industry

7. EUROPE AUTOMATED BARRIERS AND BOLLARDS MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Type
 - 7.2.2. By Technology
 - 7.2.3. By End User Industry
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Automated Barriers and Bollards Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Type
 - 7.3.1.2.2. By Technology
 - 7.3.1.2.3. By End User Industry
 - 7.3.2. United Kingdom Automated Barriers and Bollards Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Type
 - 7.3.2.2.2. By Technology

- 7.3.2.2.3. By End User Industry
- 7.3.3. Italy Automated Barriers and Bollards Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Type
 - 7.3.3.2.2. By Technology
 - 7.3.3.2.3. By End User Industry
- 7.3.4. France Automated Barriers and Bollards Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Type
 - 7.3.4.2.2. By Technology
 - 7.3.4.2.3. By End User Industry
- 7.3.5. Spain Automated Barriers and Bollards Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Type
 - 7.3.5.2.2. By Technology
 - 7.3.5.2.3. By End User Industry

8. ASIA-PACIFIC AUTOMATED BARRIERS AND BOLLARDS MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Technology
 - 8.2.3. By End User Industry
 - 8.2.4. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Automated Barriers and Bollards Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By Technology

- 8.3.1.2.3. By End User Industry
- 8.3.2. India Automated Barriers and Bollards Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Technology
 - 8.3.2.2.3. By End User Industry
- 8.3.3. Japan Automated Barriers and Bollards Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By Technology
 - 8.3.3.2.3. By End User Industry
- 8.3.4. South Korea Automated Barriers and Bollards Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Type
 - 8.3.4.2.2. By Technology
 - 8.3.4.2.3. By End User Industry
- 8.3.5. Australia Automated Barriers and Bollards Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Type
 - 8.3.5.2.2. By Technology
 - 8.3.5.2.3. By End User Industry

9. SOUTH AMERICA AUTOMATED BARRIERS AND BOLLARDS MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By Technology
 - 9.2.3. By End User Industry

9.2.4. By Country

9.3. South America: Country Analysis

9.3.1. Brazil Automated Barriers and Bollards Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Type

9.3.1.2.2. By Technology

9.3.1.2.3. By End User Industry

9.3.2. Argentina Automated Barriers and Bollards Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Type

9.3.2.2.2. By Technology

9.3.2.2.3. By End User Industry

9.3.3. Colombia Automated Barriers and Bollards Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Type

9.3.3.2.2. By Technology

9.3.3.2.3. By End User Industry

10. MIDDLE EAST AND AFRICA AUTOMATED BARRIERS AND BOLLARDS MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Type

10.2.2. By Technology

10.2.3. By End User Industry

10.2.4. By Country

10.3. MEA: Country Analysis

10.3.1. South Africa Automated Barriers and Bollards Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

- 10.3.1.2.1. By Type
- 10.3.1.2.2. By Technology
- 10.3.1.2.3. By End User Industry
- 10.3.2. Saudi Arabia Automated Barriers and Bollards Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Type
 - 10.3.2.2.2. By Technology
 - 10.3.2.2.3. By End User Industry
- 10.3.3. UAE Automated Barriers and Bollards Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Type
 - 10.3.3.2.2. By Technology
 - 10.3.3.2.3. By End User Industry
- 10.3.4. Kuwait Automated Barriers and Bollards Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Type
 - 10.3.4.2.2. By Technology
 - 10.3.4.2.3. By End User Industry
- 10.3.5. Turkey Automated Barriers and Bollards Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Type
 - 10.3.5.2.2. By Technology
 - 10.3.5.2.3. By End User Industry

11. MARKET DYNAMICS

12. MARKET TRENDS & DEVELOPMENTS

13. COMPETITIVE LANDSCAPE

13.1. Automatic Systems Inc

Automated Barriers and Bollards Market By Type (Barriers, Bollards), By Technology (Push button, RFID, Remote...

- 13.2. Avon Barrier Corporation Ltd.
- 13.3. Bollor? Group
- 13.4. CAME S.p.A.
- 13.5. FAAC Group
- 13.6. Houston System Inc.
- 13.7. Macs Automated Bollard Systems Ltd.
- 13.8. Nice S.p.A
- 13.9. Omnitec Group

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

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