

Complete Entrance Solutions for Manufacturing

ASSA ABLOY

ASSA ABLOY Entrance Systems

The global leader in
door opening solutions





ASSA ABLOY Entrance Systems offers convenient, automated door solutions for the front, back and interior of your manufacturing facility

Effective solutions for a competitive advantage

As the leading supplier of automated entrance solutions and services, ASSA ABLOY Entrance Systems has a global presence and decades of unsurpassed expertise across a wide variety of applications. Our innovative, breakthrough door technology helps manufacturing customers reduce energy costs, increase security and ensure the safety of their workers and visitors. We provide peace-of-mind, allowing you to focus on increasing product output and optimizing the process efficiency.

Our expansive product range includes specialized options to solve all your entrance challenges. Our doors separate environments throughout a facility. They can minimize contamination risks in cleanroom environments; maintain temperatures and safeguard food products in cold storage areas; and protect works and equipment in busy, high traffic areas. Plus, our expert technicians can help you maintain and modernize all of the automated entrances throughout your facility.

Increase convenience and cut energy costs

We understand the challenges of operating a manufacturing facility. Automated entrances allow for the safe and effortless flow of vehicles, goods and people. Our products feature unique designs

and technology to reduce heat gain and loss, and uncontrolled air movement, throughout the building. We can help you create more efficient building and reduce excessive energy consumption.



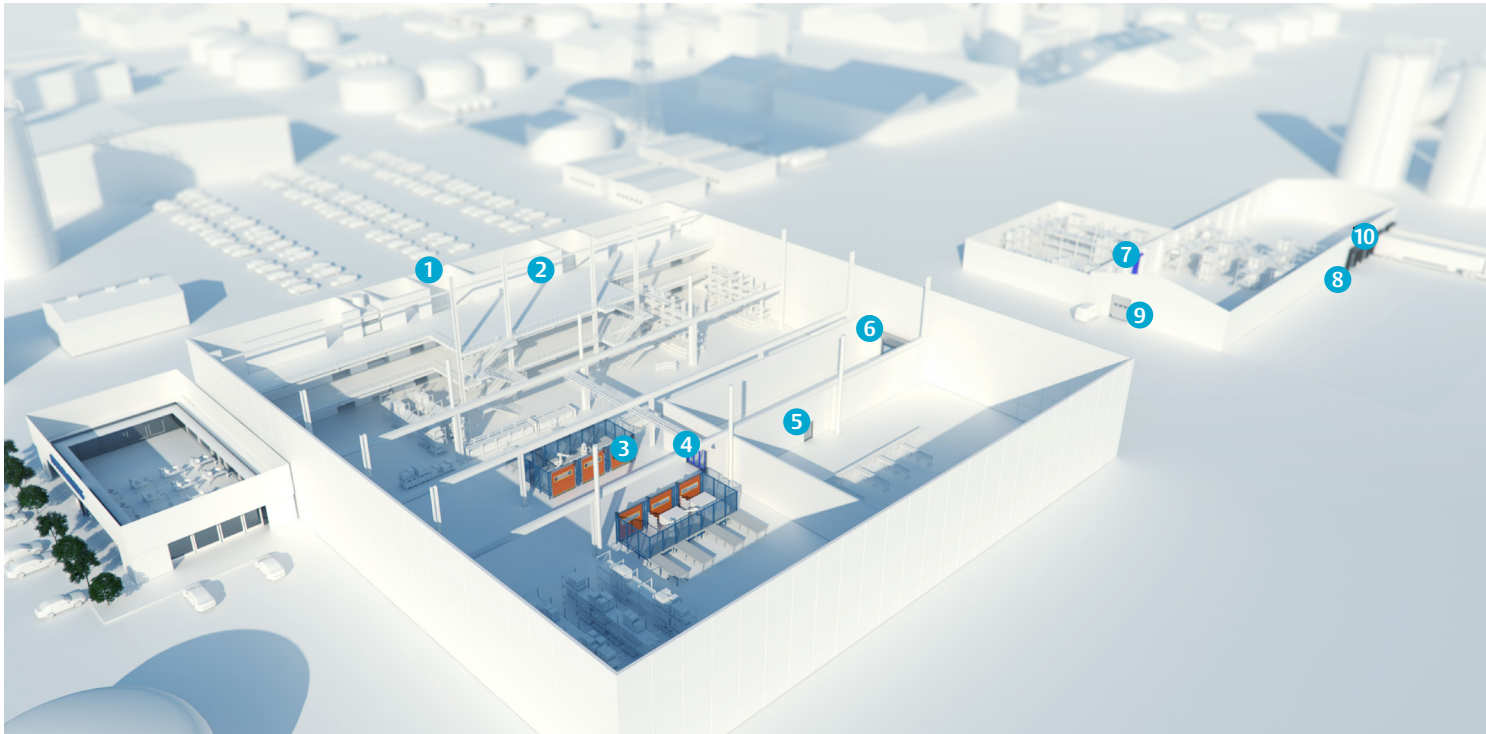
Our Solutions Include:

- Swing, sliding and revolving doors for the smooth flow of people
- Industrial doors, dock levellers, dock shelter and loadhouse
- High-performance doors with fast opening and closing speeds

Major Benefits:

- Tight-sealing, reduced air infiltration and insulation options for lower energy costs
- Hands-free access and access controlled entry
- Controlled environments that minimize contamination risks
- Controlled temperatures and reduced ice buildup in cold storage areas
- Prevention against machine downtime and worker injury
- Fast openings and a smooth flow of traffic and goods

Manufacturing Plant Overview



| Solution | Cost Reduction | Convenience | Security |
|-------------------------------------|--|--|--|
| 1 Besam Revolving Doors | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> |
| 2 Besam Sliding Doors | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> |
| 3 Albany Machine Protection Doors | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> |
| 4 Albany Interior High Speed Doors | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> |
| 5 Albany Clean Room Doors | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> |
| 6 Albany Exterior High Speed Doors | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> |
| 7 Albany Cold Room Doors | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> |
| 8 Crawford Dock Levelers | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> |
| 9 Crawford Overhead Sectional Doors | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> |
| 10 Crawford Docking Loadhouse | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> | <div><div></div><div></div><div></div></div> |

A valuable solution for every location

Cost Reduction. Convenience. Security. Our solutions help control energy costs and provide smooth, safe and easy access for both personnel and the flow of goods.



1

Main entrance to office
Besam Revolving Doors significantly reduce energy losses and eliminate draughts.

2

From office to warehouse
Besam Sliding Doors offer hands-free access or access-controlled entry, while also providing significant noise reduction between the manufacturing floor and office space.

3

Automated Processes
Albany Machine Protection Doors provide a safe barrier between worker and machine, prevent worker injury and prevent machine downtime

4

Interior High Speed Doors
Albany interior high speed doors separate conflicting environments and provide fast automatic opening speeds of up to 80 in/sec (2 m/s.)

5

Cleanroom Areas
Albany Cleanroom Doors regulate airflow, minimize contamination and provide personnel access control.

6

High Speed Exterior Entrances
Albany Exterior High Speed Doors feature incredibly fast speeds to significantly reduce energy losses and reduce operator waiting time.

7

Cold Storage Areas
Albany cold room doors control temperatures, reduce ice buildup in humid environments and help lower energy costs.

8

Dock Delivery
Crawford Dock Levelers provide automated lift and leveling for the smooth and easy flow of goods.

9

Exterior Entrances
Crawford Overhead Sectional Doors feature sealed and insulated construction, and offer access control for large openings.

10

Dock Delivery
Crawford Docking Shelters eliminate draught around the trailer to significantly reduce energy losses.



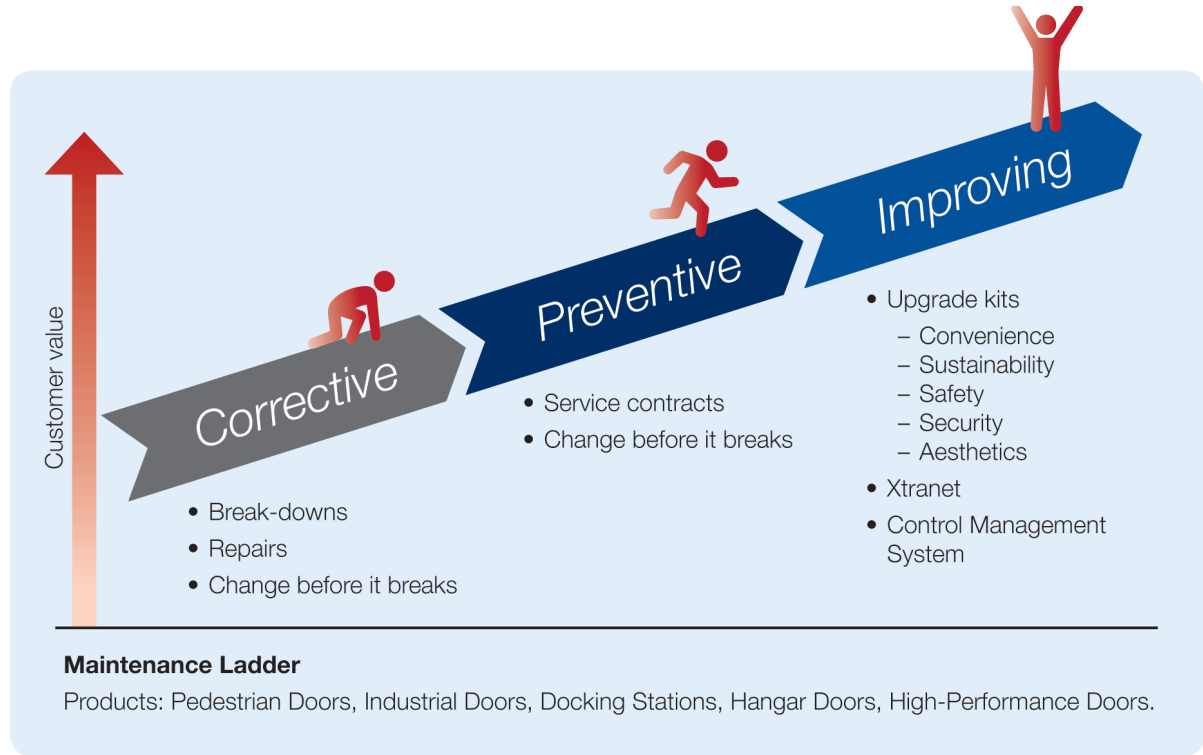
A full service partner for optimal performance

With more than half a century as the leading-provider of automated door and docking solutions, ASSA ABLOY Entrance Systems delivers comprehensive services with expert technicians. Consistent assessment of your systems will help you improve energy performance, ensure safety and standards, and extend the life of your investment.



Maintenance and Modernization

Our preventive maintenance and Pro-Active Care plans help you minimize lost time, lost energy and unexpected hassle. We can provide recommendations for the proactive replacement of parts, keeping your business flowing safely and effortlessly. We can also help you stay ahead of the curve with upgrades and modernization. New products are developed regularly, safety standards and regulations change often -- just as the requirements of your business can change over time. Our certified technicians can help guide you by providing information on regulatory compliance, new innovations and smart new functions.



Complete solutions for customer satisfaction

From food processing to automotive manufacturing, cold storage to automated machinery – we have succeeded in meeting customer challenges in every industry, all around the world.



DE- Germany
Bayer AG, Leverkusen
Volkswagen AG Wolfsburg, Wolfsburg
Volkswagen AG Braunschweig, Braunschweig
Volkswagen Nutzfahrzeuge, Hannover
Vitra Holding, Weil am Rhein

US – United States
J.M. Smucker Company, Ohio
Urschel Laboratories, Inc., Indiana
Anheuser Busch, Virginia
Con Agra, Arizona
Nestle Frozen Foods, South Carolina
Sysco Food Service, Idaho
Novartis, North Carolina
Pfizer, North Carolina

CA – Canada
Glaxo Smith Kline, Ontario
Glaxo Smith Kline, Quebec
TEVA (Novopharm), Ontario

Proof in action

Our Crawford sectional doors, loading docks and sensor systems help food producer, Salumificio San Carlos, minimize contact with the outside environment.



The Piacentino hills start about 100 km south of Milan. Wine and cold meats are the main products typically found in an area traditionally rich in small and medium-sized food companies. Salumificio San Carlo is one of the largest producers of Italian salami and high quality bacon.

In 2011, the plant doubled its capacity to meet growing demands. The layout of its goods-loading area was one of the main issues that remained unresolved. The temperature inside it has to be kept at around 6-8°celsius, which for most of the year is much lower than the temperature of the external environment.

The internal environment is also subject to frequent washing and, for hygiene reasons, has a significant concentration of salt in the atmosphere.

Customer Needs:

- Minimize contact with the external environment for hygiene purposes
- Avoid sudden temperature changes through logistics management
- Avoiding unnecessary waste to maximize energy savings
- Durable product for the work environment

ASSA ABLOY Entrance Systems solution:

- Crawford Isodock - Insulated and hermetically sealed off below to prevent the intrusion of hot or cold air, Isodock is an energy-saving dock leveller with a telescopic lip.
- Interlocked traffic light system with sensor to alert the presence of vehicles
- Insulated, sectional and motorized Crawford sectional doors, complete with anti-corrosion kits

The vehicle alert sensor opens and permits use of loading bays only when vehicles are present. In this way, a single environment is always created between the warehouse and the inside of the vehicle or truck. The fully isolated ramp also prevents any thermal bridge during operation and rest phases. Many product parts and accessories are hot-dip galvanised and powder-coated in stainless steel to ensure that, despite the aggressive environment, frequent hygiene treatments and intense washing, they work perfectly for many years.

“We are very pleased with the choice we have made”, says Vincent Penati, head technician at the factory. “ASSA ABLOY Entrance Systems has given us professional advice and has serviced all our needs”.

Proof in action

Albany UltraSlim doors have fast speeds and tight seals to help Air Design, a custom car component manufacturer, protect its products.



Albany UltraSlim Tight Sealing

Air Design, located in Cuernavaca, Mexico, has grown over the past two decades from a small family business creating custom external components for Mexican-made cars to a continent-leading design and manufacturing facility. Now, Air Design works on imported cars as well as those manufactured in Mexico, creating beautifully-crafted external elements to make cars more aerodynamic, improving speed and decreasing fuel usage.

Facility Needs:

- Interior door to protect high-quality product
- Tight-sealing to prevent dust and dirt from entering paint booth

ASSA ABLOY Entrance Systems solution:

- Albany UltraSlim high speed doors
- Fast moving doors with tight seals
- Light sensors recognize objects and reduce damage

Albany UltraSlim doors open at speeds of up to 52” per second and have just a one-second delay upon closing, moving fast enough to keep any dust in the factory from entering the paint booths. When the UltraSlim is closed, the paint booths at Air Design benefit from the super tight seal along the bottom edge of the door and double seal protection along the side columns and above the header, which prevents air and dust from seeping through the tight seal.

The light curtain safety feature on the Albany UltraSlim door recognizes when a person or object is in the doorway and then immediately reverse the door to the open position. The light curtain will prevent Air Design’s freshly painted products from ever getting damaged.

The tight seal, high speed and safety system on the Albany UltraSlim door are perfect for protecting Air Design’s superior products, giving what was once a family workshop the tools it needs to continue growing into an international business.

Automated Entrances

Protect Against Energy Loss



Large, energy-hungry buildings face difficult environmental challenges. Sustainable solutions are key to improving building performance and efficiency. ASSA ABLOY Entrance Systems recognizes these challenges. We emphasize innovations in design and technology to help you meet your sustainability goals.

Our intelligent products provide a range of options to help you minimize energy loss; improve indoor air quality; increase daylight; control air circulation, including the movement of pollutants or potentially hazardous particulates; and optimize the overall energy performance of your facility.

Green Design and Technology



Entrance automation is the first step to controlling excessive energy usage. With our impressive features such as tight seals or insulation, any entrance can achieve optimal energy-performance.

- Besam automatic sliding-, swinging-, and revolving doors feature the Besam Tightseal which help reduce air infiltration. The doors can be fortified with insulated glass and thermo-profiles to further increase energy savings.
- Crawford docking concepts help seal the docking unit and reduce heat exchange by as much as 80%. Plus, Crawford Overhead Sectional doors can be equipped with solutions that allow them to close automatically when trucks are loaded and ready to leave the bay.
- Albany high-performance doors open and close incredibly fast, and are designed with tight, double-sealed protection to limit air infiltration and control temperatures. These doors can be specialized for cold storage facilities, to include low-voltage, room-temperature airflow systems and insulated panel material.



Complete Entrance Solutions

ASSA ABLOY Entrance Systems is a leading supplier of entrance automation solutions for efficient flow of goods and people. Our world-leading product brands and service are backed by more than half a century of engineering experience and a wealth of application expertise.

Pedestrian Door Solutions



- Automatic sliding doors
- Automatic swing doors
- Automatic revolving doors
- Add on products:
 - Air curtains
 - Blast protection doors
 - Door closers



Industrial Door and Docking Solutions



- Overhead sectional doors
- Folding doors
- Complete docking solutions
- Vertical lifting fabric doors for hangars and other extraordinary door opening solutions (Megadoor)



High Performance Door Solutions



- High-speed roll doors (metal, fabric and rubber)
- Cleanroom doors
- Machine protection doors
- Food processing doors



ASSA ABLOY Entrance Systems is a leading supplier of entrance automation solutions for efficient flow of goods and people. With our worldwide presence we offer products and services dedicated to satisfying end-user needs for safe, secure, convenient and sustainable operations. ASSA ABLOY Entrance Systems is a division within ASSA ABLOY.

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