

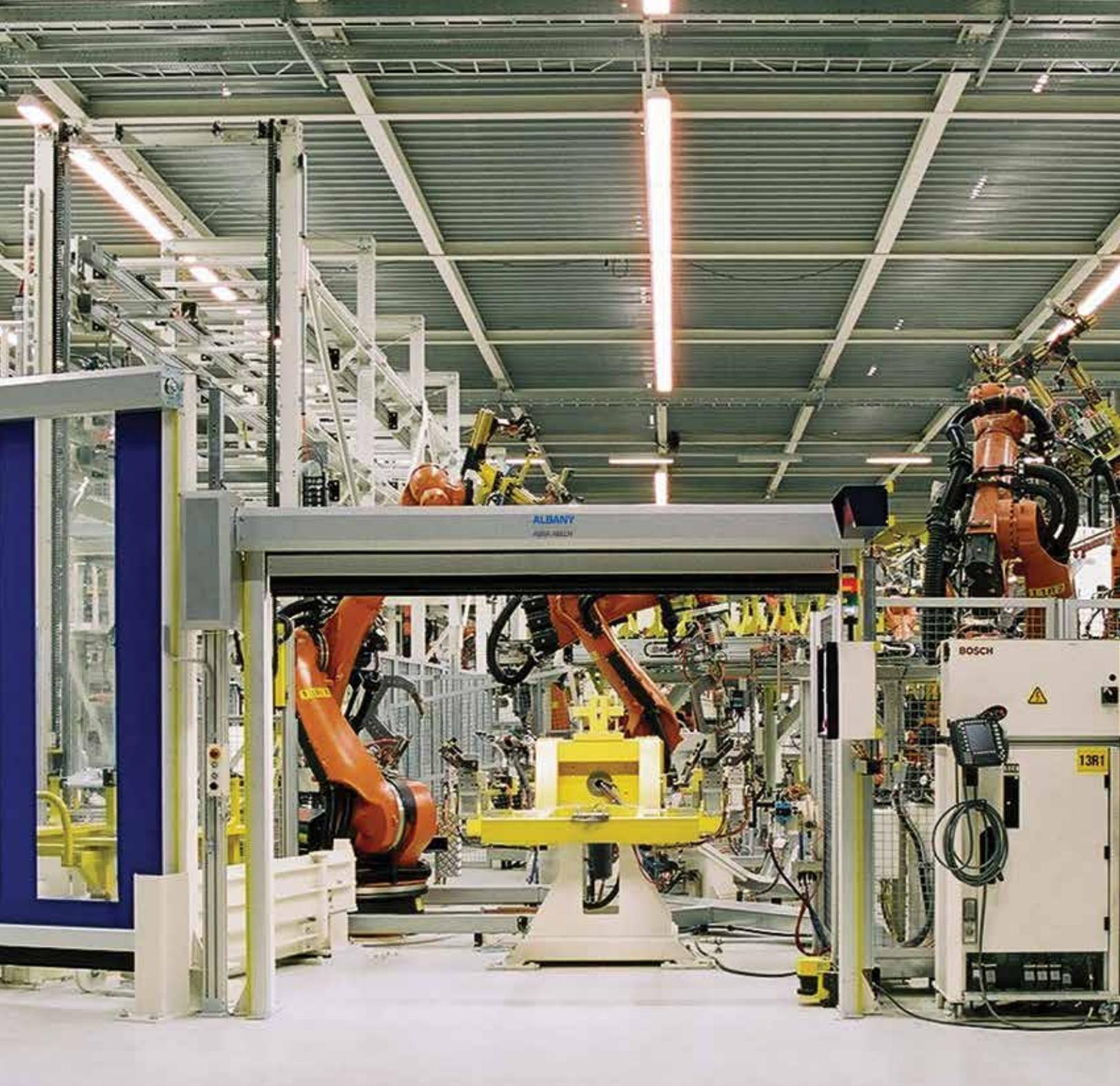
# Complete entrance solutions for Manufacturing

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 process efficiency.

Our expansive product range includes specialized options to solve all your entrance challenges and separate environments throughout your facility. They minimize contamination risks in cleanroom environments, maintain temperatures and safeguard food products in cold storage areas and protect workers and equipment in busy, high traffic areas. Plus, our expert technicians help you maintain and modernize all 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 help you create a more efficient building and reduce excessive energy consumption.



## Our solutions include:

- Swing, sliding and revolving doors for the smooth flow of people.
- Commercial doors, dock levellers and dock shelters.
- 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.

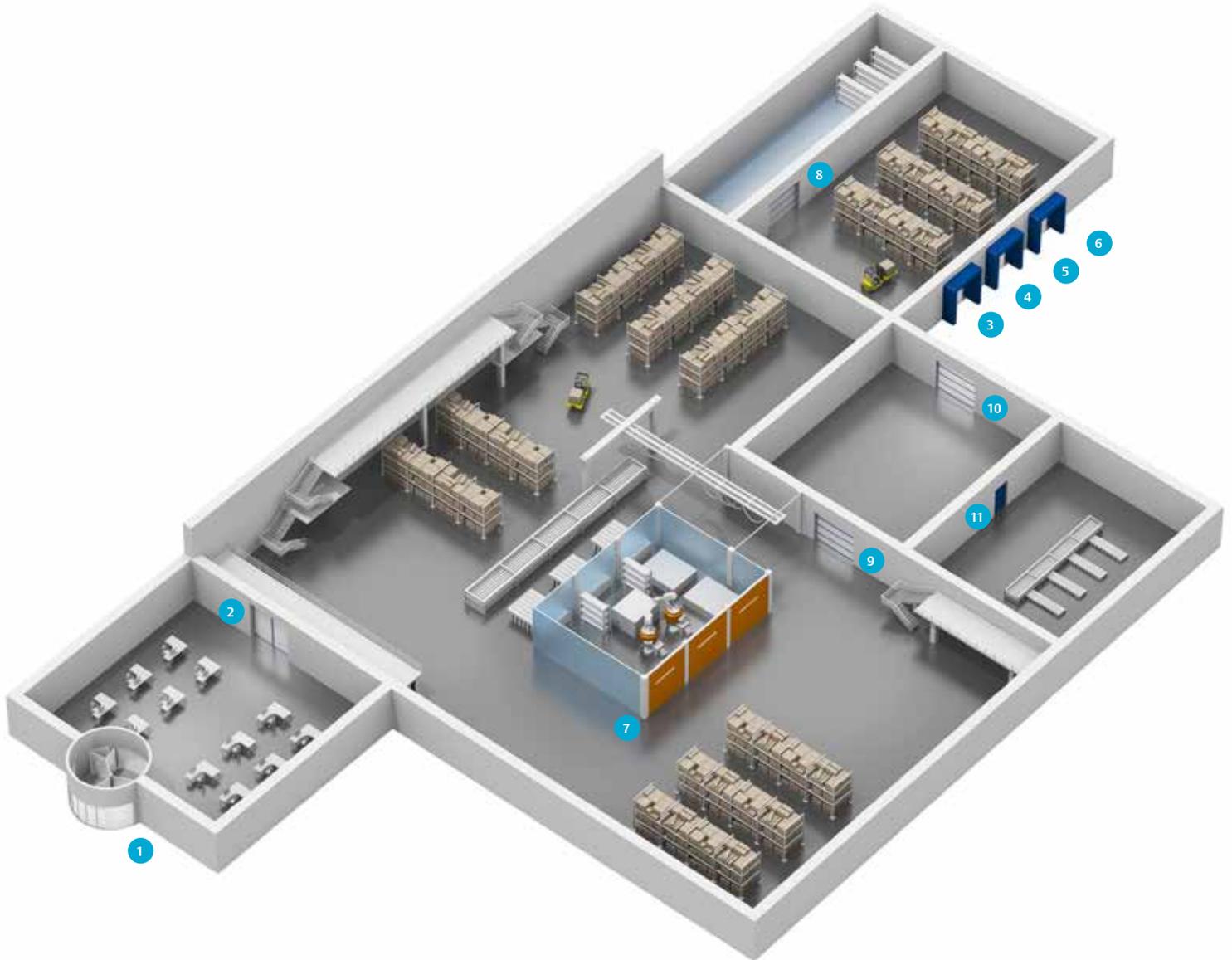
# An ideal solution for every doorway

Cost reduction. Convenience. Security. Our solutions help control energy costs and provide smooth, safe and easy access for personnel, forklift traffic and all materials and goods.

## Optimize efficiency for business processes

The layout of a manufacturing facility is often very complex. One incredibly large building is broken down into a series of offices, storage areas and a variety of different workspaces for

specific processes. Each unique area has special conditions and needs. Our automated doors give you the ability to properly accommodate all areas of your facility.



## Automatic doors

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- 1 Main entrance to office**  
Besam revolving doors significantly reduce energy losses and eliminate drafts.



- 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.

## Commercial and industrial doors

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- 3 Convenient loading of goods**  
From economical mechanicals and energy-efficient air-powered dock levelers to high-capacity hydraulic units, there is a Serco dock leveler for every loading dock.



- 4 Exterior entrances**  
Crawford overhead sectional doors provide access control for large openings with strong, durable, low maintenance and energy efficient options designed specifically for commercial applications.



- 5 Incoming and outgoing goods**  
TKO impactable sectional doors are designed to take the abuse that occurs on the loading dock, improve energy savings and reduce maintenance costs.



- 6 Dock seals & shelters**  
Available in many heights and widths, dock seals and shelters provide an effective barrier against the elements, keeping loading docks safe and efficient.

## High-performance doors

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- 7 Automated processes**  
Albany machine protection doors provide a safe barrier between worker and machine, prevent worker injury and prevent machine downtime.



- 8 Interior high-speed doors**  
Albany interior high-speed doors separate conflicting environments and provide fast automatic opening speeds of up to 2 ms (80 in/s.)



- 9 Cleanroom areas**  
Albany cleanroom doors regulate airflow, minimize contamination and provide personnel access control.



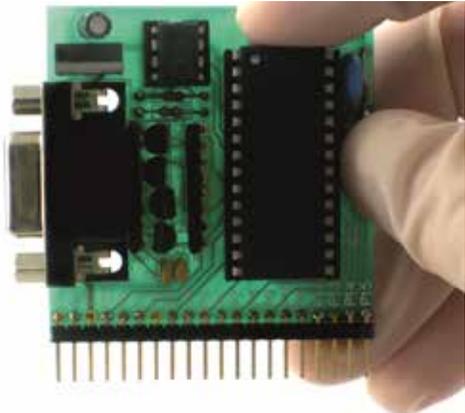
- 10 High-speed exterior entrances**  
Albany exterior high-speed doors feature incredibly fast speeds to significantly reduce energy loss and reduce operator waiting time.



- 11 Food processing areas**  
Albany high-speed doors for food manufacturing help reduce ice buildup in humid environments and help lower energy costs.

# Clean entrances meet high standards

Pharmaceutical, electronics, semiconductor and other clean manufacturing facilities face many challenges. ASSA ABLOY Entrance Systems designs specialized products that help you gain control over hygienic environments, minimizing the risk of contamination and safeguarding valuable products and inventory. We help you to feel confident when monitoring air change rate, particle concentration, bacterial count and room pressure. We help you create a high performance building to meet the first-rate standards required of clean rooms.



**Our solutions:**

- Meet requirements for ISO 14644-1 Classes 1 through 5.
- Meet requirements for Federal Cleanliness Standard Classes 1 - 100.
- Meet USDA, FDA, cGMP and EMEA requirements.
- Feature smooth, easy-to-clean surfaces.
- Ensure quick and safe movement through air locks.
- Seamlessly integrate into building structure.
- Seal tightly for low air leakage and low particle emission.

**Hygienic solutions protect food processing facilities**

Safeguarding sanitary areas and maintaining proper temperatures are two critical requirements for food manufacturers. Our doors are uniquely designed to reduce the transmission of dust and dirt and protect products from insects or rodents. The full product line from ASSA ABLOY Entrance Systems also includes solutions to help maintain cold storage areas – with insulated panels and incredibly tight seals, products remain fresh and buildings save on energy costs.



Need	Solution
<ul style="list-style-type: none"> <li>■ Cleanliness</li> </ul>	<ul style="list-style-type: none"> <li>■ High-speed doors equipped with tight seals to protect sanitary areas.</li> </ul>
<ul style="list-style-type: none"> <li>■ Wash down capabilities</li> </ul>	<ul style="list-style-type: none"> <li>■ Stainless steel components and industry approved fabrics.</li> </ul>
<ul style="list-style-type: none"> <li>■ Reliability</li> </ul>	<ul style="list-style-type: none"> <li>■ Break away feature prevents downtime to protect products.</li> </ul>
<ul style="list-style-type: none"> <li>■ Safety</li> </ul>	<ul style="list-style-type: none"> <li>■ Intuitive and automatic safety mechanisms protect personnel.</li> </ul>
<ul style="list-style-type: none"> <li>■ Temperature control</li> </ul>	<ul style="list-style-type: none"> <li>■ Insulated doors outfitted with distinct features to maintain the cold chain.</li> </ul>

# Automated doors for automated processes

When achieving optimal safety, speed and process integration is the goal, our smart machine protection doors are the solution. Automated manufacturing and assembly requires advanced technology, processes and equipment. ASSA ABLOY Entrance Systems delivers high-performance, high-speed doors that are specially suited for such demanding conditions. Fast speeds ensure short cycle times, the rugged construction stands tough in harsh, industrial environments and the comprehensive safety features meet high industry standards.



## Machine protection door options:

- Tear-resistant, wind load resistant fabric doors that protects against direct pressure, allowing doors to be installed a short distance from machines.
- Rigid, aluminum doors that provide the utmost protection, particularly from laser beams.
- Machine integration for direct command, sensing and control of the door.

## Prepared for tough and dirty environments

Mining, forestry, energy and metal production – tough processes endure gritty, dirty and often corrosive environments in harsh weather, be it blazing heat or freezing cold. Doors must withstand these conditions while reliably supporting complicated logistics. ASSA ABLOY Entrance Systems designs rugged industrial doors and vertical-lifting fabric doors that can be suited for incredibly large openings to accommodate bigger vehicles and equipment. A variety of smart features make our heavy industry doors safe, reliable and incredibly energy-efficient.

Need	Solution
■ Reliable operation	■ Rugged designs stand up against high wind loads and harsh conditions.
■ Environmental control	■ Air tight seals protect against dirt, sand, grit and hazardous contaminates.
■ Flexible configurations	■ Specialized products for any opening size or configuration, even around existing cranes and crane rails.
■ Safety	■ Advanced safety mechanisms protect personnel and vehicles.





# A full service partner for optimal performance

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



## With an eye on tomorrow's need

### Performance Maintenance Services

Re-Active Service		Pro-Active Care				
		Pro-Active Bronze	Pro-Active Silver	Pro-Active Gold	Pro-Active Tailor Flex	
		○	○	○	○	Other customized requests such as Response Time, Performance InfoPack and Advanced User Training
		○	○	●	○	Replacement of worn parts according to Wearable Exchange Program
		○	○	●	○	Replacement of service parts on breakdowns
		○	●	●	○	Travel & Labor included
		●	●	●	●	Planned Maintenance Visits 1-4 a year
		●	●	●	●	Travel & Labor for Planned Maintenance Visits
		●	●	●	●	Priority response on service calls
		●	●	●	●	Planned Maintenance that meets the most demanding standards in the market
	●	●	●	●	●	Safety and quality checks according to applicable regulations and norms
●	●	●	●	●	●	Documentation of equipment status, assessment and service provided, all generated on site
●	●	●	●	●	●	Highly-trained professional technicians with extensive knowledge and state-of-the-art tools*
●	●	●	●	●	●	Dedicated Professional Customer Care Hotline

● = Included as standard  
○ = Available at special prices

\*Well-stocked service vehicles with genuine and new ASSA ABLOY service parts

Maintenance and service aren't about what you get. They're about what you avoid: failures, losses and unplanned interruptions.

ASSA ABLOY Entrance Systems works according to your needs, with tailored solutions that ensure the function and availability of your entrances.

# Proof in Action



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.



## **Salumificio, San Carlo, Italy**

*ASSA ABLOY Entrance systems provided the Crawford Isodock, an energy-saving dock leveller with a telescopic lip. This insulated and hermetically sealed solution prevents the intrusion of hot or cold air.*

## **Canada**

TEVA (Novopharm), Ontario  
Glaxo Smith Kline, various locations

## **Denmark**

Brødrene A&O Johansen, Albertslund

## **Germany**

Bayer AG, Leverkusen  
Milupa, Fulda  
Hannover Vitra Holding, Weil am Rhein  
Lidl - various locations  
OBI - various locations  
Volkswagen AG, various locations

## **Italy**

Henkel, Lomazzo

## **Mexico**

Air Design, Cuernavac

## **Netherlands**

A-Ware, Almere

## **Norway**

Marine Harvest, Ålesund

## **Poland**

Mars, Polska

## **United States**

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



## **Schering Plough, Montreal, CA**

*ASSA ABLOY Entrance Systems provided ten Albany RR300 doors to separate the temperature-controlled warehouse from the production department. The slim design of the Albany RR300 allows the door to be installed in tight spaces, for convenient access anywhere. The tight sealing and fast speeds helps Schering Plough lower energy costs while maintaining productivity.*

# 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 options which help reduce air infiltration. The doors can be fortified with insulated glass to further increase energy savings.
- Crawford overhead sectional doors are available with a variety of environmentally-friendly insulation options to provide an efficient barrier against heat and cold. Plus, Crawford loading docks help seal the docking unit and reduce heat exchange by as much as 80%.
- 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.



# One point of entry for all your needs

Smoothly functioning entrances are a prerequisite for businesses. To keep them functioning at optimal levels, look to ASSA ABLOY Entrance Systems to provide superior products, innovative solutions and incomparable service for the front, back and interior of your building.

As the world's most comprehensive supplier of entrance automation products and services, we take an integrative approach to the flow of people, goods and vehicles, creating solutions with the best possible balance of cost, quality and lifetime performance.

## Proven solutions and extraordinary service expertise

At your disposal is a strong portfolio of well-established brands, market leaders with decades of experience and a strong history of proven solutions and extraordinary service expertise. Today they are gathered under a single roof to meet all your requirements.



ASSA ABLOY Entrance Systems is a leading supplier of entrance automation solutions for efficient flow of goods and people. With our globally recognized product brands Besam, Crawford, TKO, Serco, Albany and Megadoor, 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.

ASSA ABLOY

assaabloyentrance.ca



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