



**TRUSTED
ACCESS**
SINCE 1862

How do I combine maximum security and efficient passenger flow?

With integrated, automated access solutions.

Enhancing the passenger experience. Thanks to secure access solutions for airports.

dormakaba 

"Today's airports are much more than merely a place where flights begin and end. As passenger numbers increase, so too do the challenges we are faced with. How can we turn air travel back into an experience for passengers instead of a being a dull necessity? How can we improve the efficiency of airports? And most importantly, how can we reconcile all this with our environmental responsibilities? As you can see, the requirements are high. But I am sure that we can meet these challenges together – with dormakaba, with passion and with expertise."



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How do we meet current and future challenges at the airport?

With comprehensive and efficient solutions.

In recent years, security requirements in airports have intensified considerably. At the same time, passengers, visitors and airport staff now expect the highest levels of convenience and user-friendliness. Both the airport operator and airlines rely on maximum efficiency when handling critical passenger processes. This requires intelligent, reliable and efficient access and control systems that allow passenger traffic to be handled seamlessly and smoothly. But ultimately, the key issue is security.



Technology is key. Nowadays, airports and airlines looking to optimise the passenger experience are turning to technology more than ever before. In light of these changes, topics such as One ID, end-to-end passenger processing, biometric solutions and the seamless travel experience are

becoming ever more important. dormakaba's cutting-edge, sustainable access solutions are perfectly geared towards the expansion of airlines, airports and airport-based businesses and the innovative processes they use.



Seamlessly integrated. Our systematically coordinated product range includes automated solutions for every aspect of passenger processes. The sophisticated modular design of our products enables them to be integrated in almost any control system

and provide the same range of functions. We provide integrated solutions and services related to passenger flow, airport buildings, infrastructure and airport operation that improve security, accelerate processes and feature attractive, user-friendly design.



A systematic partner. We help airports and airlines to meet the complex challenges posed by access control and security in order to improve their operating efficiency. We can advise you through every stage of your modernisation or development project

on the basis of many years of experience and our knowledge of current requirements, airport regulations and standards. We provide professional project consultancy from the word go and guarantee your lasting success as a long-term partner.

Project planning and support

How will we manage the airport of tomorrow?

With outstanding support from a capable partner.

Our experts will assist you through every stage of your modernisation or development project. dormakaba's comprehensive range of custom, high-quality solutions and services is aimed at lowering your overall operating costs by boosting the productivity of your staff and optimising operational processes. Needs-based approaches for modern airports from planning a new construction to modernising an existing airport.





All from one provider. We provide more than just products. We support you with comprehensive consulting and specification services and provide reliable, innovative technologies that have proven their worth in daily use around the globe.

Our experienced experts work with you to develop innovative solutions that suit your needs and expectations. We offer a range of specialist service packages for our products to ensure a safe and smooth travel experience.

Our team of experts is here for you. Our globally experienced and international project team support customers across the world with expertise that you can rely on. We support you during cross-system planning and implementation to ensure quick and professional results. We provide you with a direct contact person who has the specific knowledge required for your projects through every stage of the passenger process.



Airport entrance: automated access systems for improved passenger convenience



Business lounge access: exclusive passenger convenience meets elegant design



Boarding Route Management: automated boarding and disembarking of passengers to and from the aircraft



Self-boarding: automated self-boarding gates for fast and convenient access



Boarding pass control: secure and reliable access with automated boarding gates



One-way corridors: smooth transfer from air-side to landside areas and between Schengen and non-Schengen areas



Automatic border control (ABC) – secure, efficient passport control



Stylish access and partition system: Design for shops, restaurants, rental offices, conference rooms and other public areas



Outstanding passenger convenience.
Integrated access solutions for efficient and smooth passenger flow.



Accessibility: versatile barrier-free systems for free passenger movement



Airport safety: fire safety and escape route security solutions that comply with legal requirements



Restricted areas in the airport: high-security systems for Airport Operations Area (AOA)



Service: maximise the performance of airport operations



When air passengers enter a country, their first impression is made by the airport. Our solutions are geared towards passengers' needs and include technologies that combine security, user-friendliness and modern design. Our access systems streamline necessary processes while creating a pleasant and attractive atmosphere for travellers.

Passenger flow

How can we optimise passenger flow?

Fully automatically and without delay.



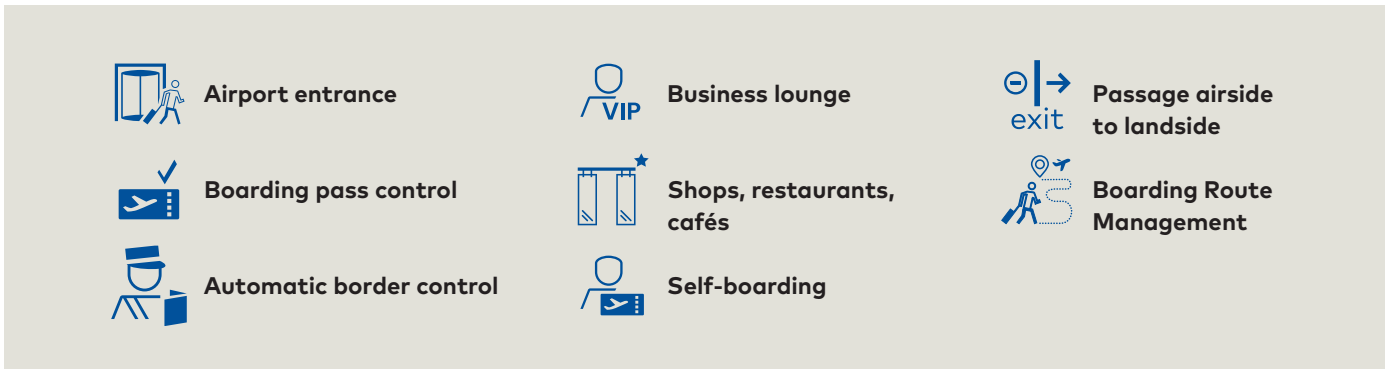
Make an experience out of a necessity. Modern airports offer travellers and visitors a multitude of amenities. For some, they have become the actual destination, offering cinemas, shopping centres and even butterfly gardens. However, smooth passenger flow and improved convenience are the real requirements for a pleasant airport experience. This applies to business travellers, families with children and people with restricted mobility alike. At the same time, airport operators and airlines focus on maximum process efficiency. Today, all these aspects must be seamlessly integrated while meeting all requirements.



Benefits:

- Shorter processes for accelerated passenger flow
- Improved convenience and safe, efficient traffic
- Ground staff have more time to take care of passengers' concerns
- Seamless integration of automated systems in a wide variety of airport control systems

Seamless processes. Our systematically coordinated solution range includes automated, secure solutions for the specific needs for all touch points in the passenger process:



Passengers benefit from shorter waiting times at airport security and during boarding. Instead of queuing, they can spend their time in the terminal relaxing in lounges and restaurants or browsing in the shops.

Ground staff workloads are lightened, allowing them to devote more attention to passengers or react more quickly in exceptional situations. All this adds up to a safe, pleasant and efficient journey.



Airport entrance

When does an airport entrance show its strengths?

From the very first minute.

A first experience is as important as a first impression. The passenger process begins the second the traveller enters the airport. People who can begin their journey in a relaxed manner will be glad to return again. The first step towards improving the passenger flow and with it, the passenger experience, is a welcoming and, of course, secure access system that functions perfectly. The airport building must be barrier-free and easy to enter, even with bulky luggage.



And this is precisely where dormakaba comes in with custom, automated access solutions that are certified and tested in line with international standards. Their durability and modern style make them unique and they are designed for continuous use.

Insulation of interior areas is also an important issue, particularly with regard to energy efficiency. These areas must be protected against fluctuating temperatures, noise and dirt. Automatic sliding door systems and revolving doors contribute significantly to a building's energy balance.

Spacious, reliable and efficient. Our versatile KTC revolving doors with an integrated sliding door offer a multitude of configuration options with their diverse styles and flexible variability. They are available with a range of internal diameters and allow travellers to enter the airport without disrupting passenger traffic. When combined with integrated ST FLEX automatic sliding doors, the facility operator can simply use a program switch to activate the automatic sliding door function at times with increased foot traffic. A functional and elegant solution for greater convenience.

Sustainable, barrier-free and durable. Our automatic sliding doors save energy and are also designed for use in the external building envelope. They combine barrier-free design, transparency and thermal insulation in a single solution. The improved thermal separation provided by the profiles results in extremely good insulation values. The long service life of the drive also contributes to the sustainability of the door.



Benefits:

- Wide range of spacious and elegant automated access solutions
- Suitable for a high volume of passengers
- Barrier-free solutions for a non-stop passenger flow
- Sustainable, energy efficient systems for thermal insulation of airport buildings
- Optional: version approved for use on emergency exits and escape routes

- 01** Automated access solution with elegant curved sliding door and integrated escape route function
- 02** KTV 3/KTV 4 automatic revolving doors for continuous use and reduced temperature exchange
- 03** Innovative, energy efficient and durable: ST PRO Green automatic sliding door

Boarding Route Management (BRM)

How long does it take to activate a safe boarding route? Less than 30 seconds.

Maintaining the highest level of security, whilst ensuring efficiency and still offering the best experience to passengers and airlines alike, is probably the greatest challenge faced by airports. Automating key processes with Boarding Route Management (BRM) enables a smooth user journey throughout the airport building.



Optimized passenger flow

This involves steering numerous homogenous groups along pre-defined routes to and out of the aircraft according to their authorization level and without mixing them. An optimized passenger flow requires countless doors which need to be simultaneously opened and closed – always according to the flight schedule.

Safety at all times

Furthermore, in case of an emergency, all doors must open or close according to a defined emergency plan and remain operational to ensure the safe escape of passengers and staff.

Increased speed and security

Manual route control can be lengthy, take up to twenty minutes per flight and may involve several staff members. Furthermore, should a case of emergency arise, they are needed to set up escape routes.

The new dormakaba BRM allows the automatization of these security-sensitive processes and control all connected automatic doors. This leads to an increased security level and the minimized handling time allows you to carry out more flights per gate. Additionally, staff can instead focus on personal customer care and special assistance.

Last but not least, passengers benefit from faster processes and now have more time to browse duty-free shops, visit a restaurant or just relax.

At the push of a button

The intelligent, reliable and efficient door control system BRM can be connected to all relevant standard airport systems such as local access, building, flight schedule and escape route management. Any automatic door on premise can be integrated into the BRM. Initially, you set up all boarding and unboarding routes. According to the flight schedule you can then activate each route centrally from your back office or on site, via the BRM terminals. Easily at the push of a button.





TERMINAL



A



Connect your Boarding route and escape route management to ensure safety at all times.



BRM =

Automated boarding and disembarking of passengers to and from the aircraft without risking security breaches.

- Activity for boarding and disembarking takes no more than 30 seconds to select
- Arrivals and departures are never mixed due to security blocks between both zones
- More control over passenger flow processes
- Passengers can spend more time in the duty-free area or in lounges. This increases the profitability of the whole airport



Features:

- Brilliant 7" touchscreen with glass front
- Energy-efficiency thanks to smart proximity sensor
- Intuitive operation via freely configurable content and icons (with your company CD)
- WLAN and mobile connection for wireless data transfer
- App integration – for specific corporate requirements with HTML5 support
- RFID reader for contactless identification (biometric reader optional)

BRM Terminal – elegant and intuitive

The touch panel sets standards in function and design. And it also saves energy thanks to the proximity sensor. The versatile modular solution enables modern and easy configuration and activation of boarding routes on site. Each operation is only accessible upon authorization via card, or optionally biometric reader.

BRM – Your ticket to an optimized passenger flow

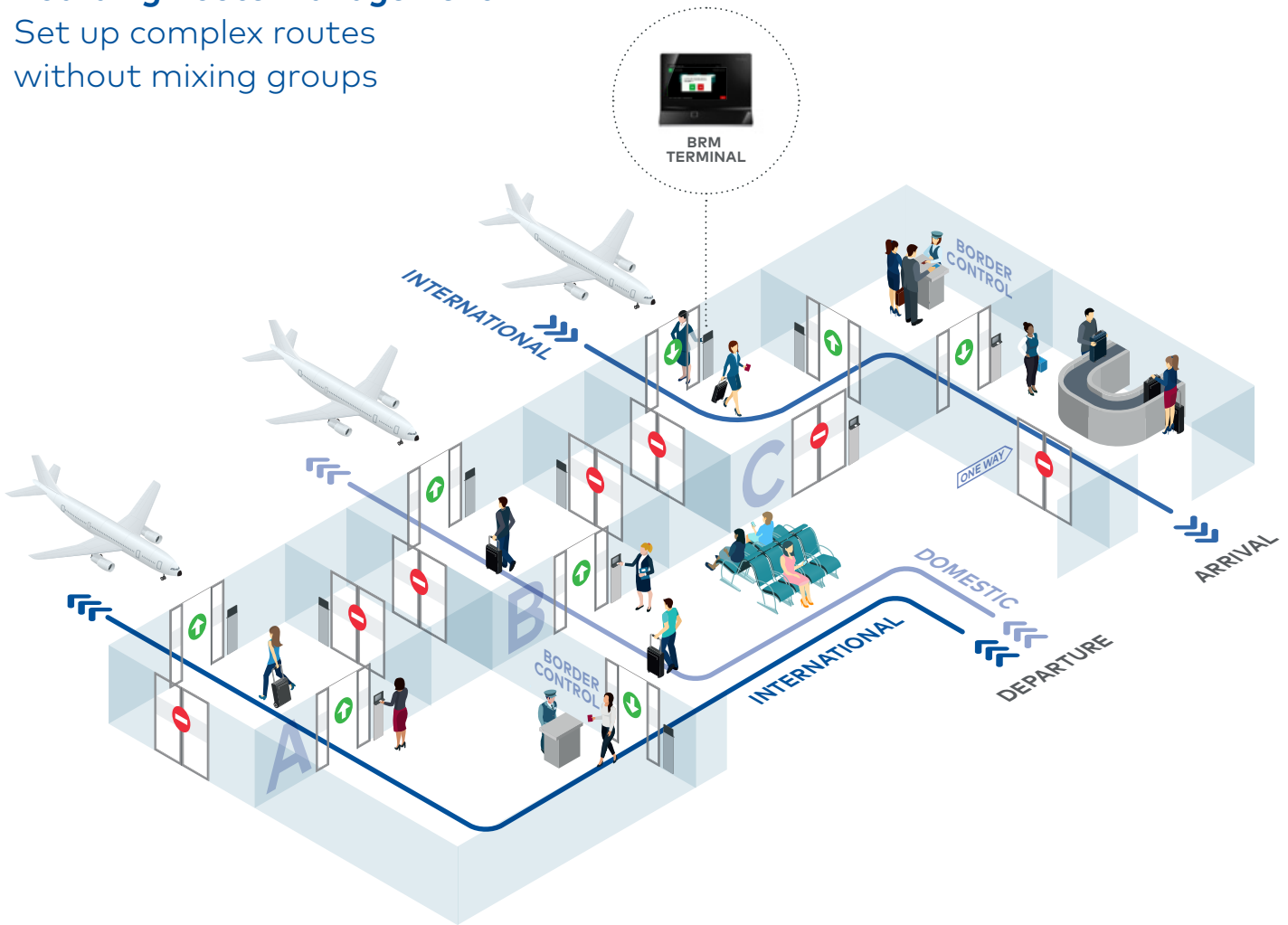
The automated boarding and disembarking of passengers to and from the airplane enables a smooth, safe and secure passenger flow. The automatization of these operational processes and the integration of emergency plans enhances the overall speed and security. Staff can focus on personal customer care and passengers benefit from reduced waiting times and an improved travel experience.



If we want to increase the passenger volume, we need to accelerate the routes to and from the aircraft. At the same time, safety and security of passengers and staff remains of utmost importance to us.

Boarding Route Management

Set up complex routes without mixing groups



INTERNATIONAL DEPARTURE

Passengers proceed from departure area through border control via Gate A to the aircraft (Left).

DOMESTIC DEPARTURE

This route takes us from the departure area directly through Gate B (no passport control required). The doors between A and B remain closed so the groups do not mix after border control.

INTERNATIONAL ARRIVAL

Entering through Gate C international passengers pass border reclaim. All doors between arrival and departure area remain closed so all three groups stay separated – where needed.



We create your individual BRM solution with our broad portfolio of hardware and software.



Airport entrance



Airport safety



Access Control Management Systems



Electrified Door Hardware



Stylish access and partition systems



Workforce management



Services

Boarding pass control

How can we achieve maximum security at the entrance to the boarding area?

With maximum precision and convenience for all.

The safety of passengers and staff is paramount, particularly in light of the steadily increasing number of travellers and security threats. This applies when en route to security areas and when crossing borders. Only those who are actually permitted to enter must be allowed to do so, but then the procedure must be quick and easy. We provide impressive automated solutions for just this purpose.





Benefits:

- Swift passenger flow thanks to access control with zero waiting time
- Exclusive access for authorised persons
- Airport staff have more time for other tasks
- Priority access (first class and business class passengers and frequent flyers)
- Priority access for staff
- Detailed report sent to a higher-level system in case of jostling or attempts to bypass the barrier or pass through it from the wrong direction

- 01** Automated, secure boarding pass control at Zurich airport with Argus HSB-M03
- 02** The new generation of automated boarding pass control: the cutting-edge Argus Air Security

The core of the boarding pass control system is our automatic sensor barrier that facilitates convenient, reliable and seamless access control. These space-saving eGates fit perfectly into the available space – vital for airports that are soon to be expanded or modernised. The high-precision sensor system protects the user and only allows one person at a time to pass through the swing door. They also detect any luggage or trolley bags being carried by passengers. This system relieves the strain on security staff effectively leaving them with more capacity free to concentrate on passenger needs

A further benefit is that the solution can be integrated into almost any data system without the need for serious intervention. State-of-the-art biometric systems further increase both security and convenience. Data is transmitted within microseconds. Simple integration of the eGates into CUTE and CUPPS systems makes it quick and easy to access important passenger data (such as current whereabouts) from any terminal in the airport.



Airports are particularly sensitive places. Maximum security must be guaranteed at all times despite steadily increasing passenger volumes. And it must be possible for all parties to transfer between separate security areas easily and without hassle. Automated solutions clearly represented a huge advantage to me and my team.

Automatic Border Control (ABC)

How can we simplify border control? With more time for the essentials.

Passport control is one of the security areas in which automated systems can provide a range of benefits. They ensure a smooth flow of passengers, reduce the workload of border officials and help to detect invalid or counterfeit documents.

This gives officers more time for spot checks and for dealing with unusual cases. Biometric functions can be integrated to improve both security and convenience: these are usually contactless processes that quickly check whether the person in question is the rightful holder of the passport. Only authorised persons may pass, simply by looking into the camera. Quick and contactless control has a further advantage: passengers have their hands free. And staff know exactly who is permitted to enter.

Benefits:

- Supports border control
- Reduces waiting time
- Biometric verification prevents the misuse of travel documents
- Smooth passenger flow with direct referral if manual inspection is required
- Compatible with all conventional biometric methods





Business lounge access

How can we combine exclusivity with reliability and design? With a holistic solution.

First class and business class passengers and frequent flyers expect the business lounge to be peaceful and exclusive, offering premium service and outstanding hospitality. Airports require elegant solutions that provide the highest levels of security whilst making a design statement.

dormakaba's automatic sensor barriers, such as the Argus Air Lounge, control access to business lounges reliably, quickly and conveniently. Only members are granted access. Automated, contactless verification of each individual's access authorisation is paramount for this special area. Smooth operation is facilitated by near field communication (NFC) and easily integrated biometric technology linking boarding passes to passengers, amongst other things. Monitored lounge access reduces the staff workload and gives staff members more time for personal customer care.



Argus Air Lounge User-friendly and bi-directional



01

Benefits:

- Rapid flow of traffic thanks to access with zero waiting time
- Exclusive access for authorised persons
- Members can sign in guests
- Contemporary, modern access systems make a design statement



01 The new generation of eGates for lounge access: the attractive and stylish Argus Air Lounge

02 Automatic sliding door for easy access and a welcoming reception

03 Exclusive, rapid access with the HSB-M02 eGates at Zurich airport (customer solution, not standard)

04 Structural advantages and simple operation of the mobile Variflex partition systems



Self-boarding

What's the best way to get passengers on board?

Quickly and comfortably.

Quick boarding is vital for a smooth flow of passengers, not least in order to minimise costly airline downtime. Passenger safety and care must also be guaranteed.

Seamless, automatic self-boarding verification provides an additional layer of security directly at the gate and is more convenient for passengers. Our self-boarding gates, such as the new Argus Air, aid ground staff with rapid operation and maximum precision. A real plus for passengers: staff have more time to deal with major or minor issues. Optional integrated biometric technology links individual features with the boarding pass to guarantee that only passengers booked on the respective flight can embark.



Benefits:

- Reduced waiting times for faster passenger flow
- Passengers enter the correct aircraft
- Reduced ground staff workload
- Separate verification of first class and business class passengers
- Compatible with all biometric methods
- Certified for all CUTE systems

01 Safe and rapid self-boarding with the HSB-M02 eGates

02 The new generation of self-boarding gates: Argus self-boarding system in a space-saving, slim and short version



Security requirements are increasing all the time, but so too are passengers' demands. This makes sense, as security must never become a burden, in my opinion. We have been using dormakaba intelligent systems for many years. They unite not only security and convenience, but also speed and precision. In this way, we can offer our passengers a better travel experience and efficiently support the ground staff.

One-way corridors

How to manage passenger movement between secure areas?

Using reliable systems.

Transfers from airside to landside areas and between Schengen and non-Schengen areas place the highest demands on access security. The efficient separation of restricted and public areas is critical. It is clearly regulated by law for a very good reason: unauthorised persons must be prevented from entering the airside area. In addition to the security aspects, arriving passengers expect a welcoming reception.





Our one-way Orthos PIL-M02 corridors put everything straight: it is impossible for unauthorised persons to pass through. The modular corridors cleverly meet both requirements. They are monitored by high-precision sensors and combined with quick-reaction door systems. After landing, passengers are guided to the exit quickly and smoothly whilst the system reliably ensures that unauthorised persons cannot enter the security zone or the non-Schengen area.

Benefits:

- Excellent reliability
- High-sensitivity sensor technology detects left items
- Easy to integrate into existing systems
- Various security levels
- Flexible integration into ambitious architectural concepts



High security using biometric technologies

How do you combine efficiency with the highest security requirements?

Using modular biometrics.

A growing number of new technologies are being used in security-relevant areas in particular. For me, the modularity of a system is crucial in addition to secure and efficient data transmission. I know that dormakaba provides state-of-the-art solutions, such as the integration of biometric technologies.





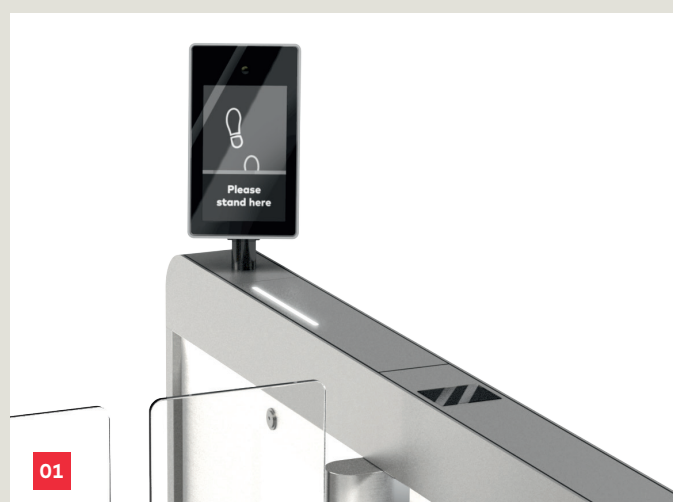
Every airport has different requirements for automated access control in the passenger process. Biometric solutions are a hot topic, but they are neither standard nor mandatory. However, dormakaba eGates can be completely integrated thanks to their modular construction.

Benefits:

- Prevents misuse of documents
- Quick and reliable identity checks
- Convenient travel and hands-free processing once travel documents, such as the e-passport and boarding pass, are linked to biometric data

Modern electronic passports and staff ID cards verify identities using an integrated chip on which the holder's biometric features are saved. This data allows an identity to be verified fully automatically for even safer and more efficient passenger processes.

The procedure is very simple: the passenger scans their passport themselves when checking in. All background checks are carried out automatically, such as authenticity checks or blacklist checks. At the same time, a live picture is taken of the passenger, the picture on the e-passport is recorded and both are linked to the passport data. All data can then be retrieved from a database. Then, passengers can run through the entire process using only their biometric data, e.g. with the help of facial recognition. This saves a huge amount of time and improves the travel experience because it eliminates the need to have travel documents inspected at every check point.



01 Argus Air solutions: 10-inch colour LCD with integrated biometric facial recognition

Argus Air: The new formula for improved passenger flow efficiency



The new generation of Argus Air eGates for airports also guarantee an efficient and convenient flow of passengers thanks to biometric scanners. These barriers cover all essential touch points in the passenger process:

- Boarding pass control/security
- Self-boarding
- Business lounge access
- Border crossing and border controls

Know who is there. **Argus Air Security.**

The self-controlled journey starts as soon as the passenger enters the security area. Argus Air Security guarantees maximum security and a rapid flow of traffic.

- Access only for authorised persons
- Recognition of persons and luggage/trolley bags being transported by passengers
- Compatible with all conventional brands of document readers (2D barcode readers, ID card readers etc.)
- Space-saving, slim and short version
- Optional printer



A warm welcome from any direction. **Argus Air Lounge.**

Business lounge guests expect uncomplicated and convenient access control as well as a first-class service. Individual customer solution.

- User-friendly bi-direction design
- Multiple access approvals for signing in guests
- Biometric identity verification
- Exclusive access for authorised persons
- Reduces staff workload, improves customer service
- Elegant, attractive design
- Space-saving, slim and short version
- Data-based system for effective and secure counting and localisation of VIP guests

All aboard! **Argus Air Boarding.**

Seamless, automatic self-boarding verification provides additional security at the gate and is more convenient for passengers.

- Priority boarding and boarding by zone
- Deboarding possible using the same gate
- Space-saving, slim and short version
- Reduces staff workload, more time for passengers with special requirements
- Secure and quick biometric identification for domestic and international flights
- Easy-load printer: extremely quick and easy replacement of paper rolls

Design for shops, restaurants, rental offices, conference rooms and other public areas

How can we make a design statement in a small space?

With modern, flexible and well-thought-out concepts.

Shops, cafés, restaurants, retail outlets, business centres and parking, i.e. non-aviation business, contribute more to the turnover and success of an airport than the core business. Large numbers of visitors are drawn by the prospect of enjoyable leisure activities and luxury. The objective is for travellers to thoroughly enjoy their time at the airport instead of it being a tedious layover. Therefore, a pleasant atmosphere is vital in these lucrative areas to lift the mood of passengers.





- 01 HSW horizontal sliding wall with integrated sliding door
- 02 Compact and stylish: time registration and access control with the dormakaba 96 00 terminal
- 03 HSW Easy Safe horizontal sliding wall for an open-plan, transparent and elegant shopping ambiance
- 04 Mobile partition systems in Bristol airport: flexible separation of temporarily unused areas



03



04

Our products work brilliantly in these attractive surroundings by generating transparency and a pleasing aesthetic. An open-plan, bright ambiance is welcoming, but enclosed spaces are also required. Transparent and flexible room systems are, therefore, both functional and visually attractive.

Elegant and modern glass systems create a relaxed air, particularly when used in interior design. Horizontal sliding wall systems and movable walls leave plenty of scope for configuring the layout and form clear-cut transitions between areas with different functions.

Sensor-controlled sliding doors create structured units depending on the available space and current needs and requirements. Elegant electronic readers and door locks blend harmoniously into any architectural structure and provide a high level of security.

We combine modern construction materials, such as glass and metal, with modern technologies to create smart holistic solutions.

Benefits:

- Numerous attractive, high-quality access solutions that guarantee security
- Flexible, functional room systems for increased freedom of design
- Greater convenience and a welcoming ambience for passengers
- Open structures, transparency and a wide range of interior design options
- Consistent, premium design, high-quality materials and meticulous production of modern systems



Design for conference rooms, offices and lounges





- 01** Compact, energy efficient and modern: digital cylinders for access control
- 02** Space-saving and sound-absorbing: mobile partition system
- 03** Combination of elegant glass door fittings and electronic locks for controlling access authorisations
- 04** Modern, versatile, c-lever compact electronic lever handle suitable for diverse applications
- 05** Minimalist, consistent design and barrier-free access: Door closer TS 93

Our design language

Design with three letters: XEA

XEA unifies dormakaba's product worlds to form a universal design whose functions and appearance are instantly recognisable

Visitors are placing increasingly high demands on airports, including in terms of design. For this reason, access systems must blend seamlessly into the overall look. The XEA design language is based on a holistic approach, consistently resolving our own demands for compatibility, high quality, innovation, perfection and aesthetics in 10 points. This principle unites basic forms, colours and surface finishes in a single, uniform appearance.



#1

Recognisable details. Our distinctive logo and the interaction between XEA elements make dormakaba product design unmistakable.



#2

Intuitive symbols.

All symbols used are reduced to their essential elements but are easily recognisable and self-explanatory.



#3

Standardised surface finishes.

The four basic colours used on every product ensure that all combinations will always match. The XEA colour-coding system adds clarity.



#4

Clear forms. The holistic styling uses flat planes and two-dimensional surfaces. Radii and sharp edges contrast with and complement each other.

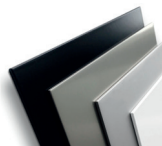


#5

User-friendly operation.

The user interfaces have a minimalist, uniform design, making them immediately recognisable. The operation is self-explanatory.





#6

Contrasting surface finishes.

The combination of light and dark, matt and glossy surface finishes creates a multi-faceted overall image. The various functional areas can be clearly recognised.



#7

Robust housing.

Products that are encased in an all-round housing frame have additional protection from external influences.



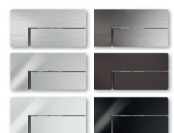
#8

Multi-layer compositions. The high construction quality can be seen at a glance. The solid edge of the decorative front plate shows the high quality of the materials used.



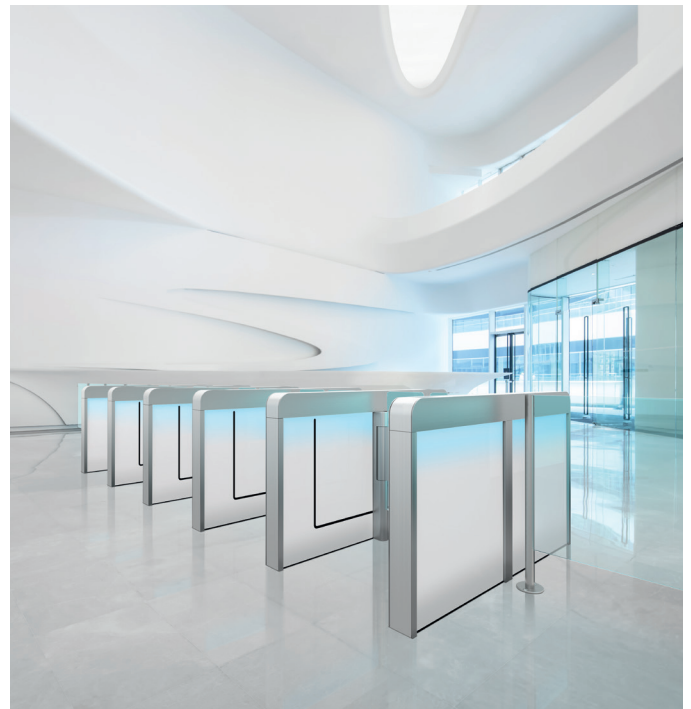
#9

LED indicator. All applications across the product range can be quickly learned. For instance, LED light strips either signal access permission, guide users or display the status.



#10

Individual design. The system of materials and colours creates a broad spectrum of solutions to suit any architectural style. And furthermore: XEA adds a touch of individual style.



All airports generally have similar structures and functions, but the differences are in the details. Bright, open-plan, pleasant access points, barriers and shops make us feel welcome, so a simple and clear design is desirable. In my opinion, the dormakaba XEA design language amalgamates all of these crucial factors in a homogeneous image.

When do passengers truly have freedom of movement?

When transfers feel natural while still being secure.

Business travellers and holidaymakers come and go from airports every day and expect excellent service and convenience. This calls for intelligent, reliable and efficient access solutions that enable passengers, particularly those with limited mobility, to move freely. Intelligent infrastructures and perfectly coordinated measures that comply with the stringent standards and regulations are essential.



Barrier-free design is not only a statutory specification, it is indispensable in the overall system of airport solutions. Our versatile barrier-free systems also facilitate an efficient passenger flow and ensure a high degree of security combined with maximum convenience. All solutions can be perfectly integrated into the existing architecture.

Just one example is our range of heavy fire doors: they are easy to open yet still provide maximum safety. They therefore meet fire protection requirements as well as the demands of barrier-free design.

Our proven and intelligent EASY OPEN technology allows children, the elderly and people with physical disabilities to open doors much more easily. This technology was devised for barrier-free applications in line with DIN SPEC 1104 and DIN 18040. It is used in almost all of our slide channel door closers.

Sensor-controlled self-boarding gates with automatic door elements enable any passenger to pass through using contactless processes, even when carrying luggage.

We can help you to remove barriers used in airport operations to make procedures more passenger friendly. We can assist you from the planning stage, through implementation and on to operation.

Benefits:

- Extensive range of secure, barrier-free products
- High-quality and cost-effective solutions for simple or complex barrier-free access concepts
- Innovative solutions that comply with legal regulations and standards



01 Superior user convenience and easy access with TST FLEX automatic sliding door

02 Automatic and controlled opening with the ED 250/ED 100 swing door operator

03 Argus HSB-M03 eGates with automatic door components for contactless and effortless passage



Barrier-free design is an absolute necessity in modern airports. Personally, I also think it is important to give our passengers the greatest possible freedom of movement, particularly persons with limited mobility. I put my trust in the expertise of dormakaba from the planning stage onwards. Their access designs are perfectly tailored to airport operation from the simple solutions to the highly complex ones.

Accessibility

Barrier-free access to restrooms

We offer various solutions that can be adapted to specific room layouts for barrier-free, space-saving and contactless access to restrooms. These include our automatic, practically silent sliding and swing door operators, both of which are fitted with a control unit for restrooms for the disabled.



01 Barrier-free design and security united: the c-lever compact electronic door lock controls access to specific cubicles

02 CS 80 Magneo sliding door operator

03 Automatic opening with the ED 250 swing door operator







01

Airport safety

What does it take to make your airport safer for everyone?

Systems that comply with legal requirements and detailed expertise.

No other type of building is expected to withstand such loads and be so perfectly designed and monitored as an airport. Tens of thousands of people come and go and the highest safety standards must be maintained. Safety and security are of the utmost priority. Doors in escape routes pose an enormous challenge in this context. An important criterion when planning airport infrastructure is to enable passengers to escape from the building in emergencies while at the same time preventing people from entering restricted areas. If, for example, a fire were to occur, rapid and safe smoke evacuation is essential.



02



- 01 SafeRoute emergency exit and escape route system for reliable and safe management of doors in a system
- 02 TS 98 XEA Ubivis battery-powered hold-open system with integrated smoke detector
- 03 ED 200 swing door operator for fire doors



Structural conditions and legal and security requirements demand intelligent solutions. We offer integrated, innovative technologies for precisely this purpose, especially for sensitive applications such as fire protection and escape route systems. In the event of a fire, rapid smoke extraction is the first priority. Doors must also be open and escape routes must be unobstructed for the people in the building. This poses a technical challenge: doors must open automatically, even in the event of a power failure, where normally only authorised persons are granted access. Our tried and tested automatic doors with emergency exit and escape route systems think ahead: as soon as smoke detectors are triggered, the doors open automatically clearing the emergency exits and the smoke outlets.

Benefits:

- Comprehensive range for securing airport buildings, doors and the flow of passengers
- Door systems that comply with fire and smoke protection regulations and barrier-free design standards
- Innovative automatic solutions for easy access
- Comprehensive planning and consulting services to suit individual requirements



Restricted areas in the airport

How can we fulfil high security standards? With modern access control systems

Most airports need to secure countless access points across the site and manage the access of an incalculable number of persons. And all of this must be done in line with legal requirements: airport operators must always be able to guarantee and verify that all access points are controlled. For example, entrances and exits for airport staff must be securely and efficiently separated into the restricted airside and the public landside. Access to the relevant areas must only be granted to authorised persons at the permitted times according to various security levels.



Access control for airport staff and crew

Entrances and exits for airport staff are often distributed across various sections of the building around the sensitive and often unmonitored dividing line between restricted and public areas. dormakaba provides comprehensive, reliable solutions for the highest security requirements, including sensor barriers, revolving security doors, interlock units and barriers. For example, the Orthos interlock barriers feature weighing scales, ID card readers and optional integrated biometric technology to offer the highest level of security.

Benefits:

- Contact mats for high security
- Additional security through the use of weighing scales for weight limits or actual weight
- Resistance classes RC2/WK2, WK3 and up to WK4 in cubic interlocks
- Elegant glass systems
- Low space requirement



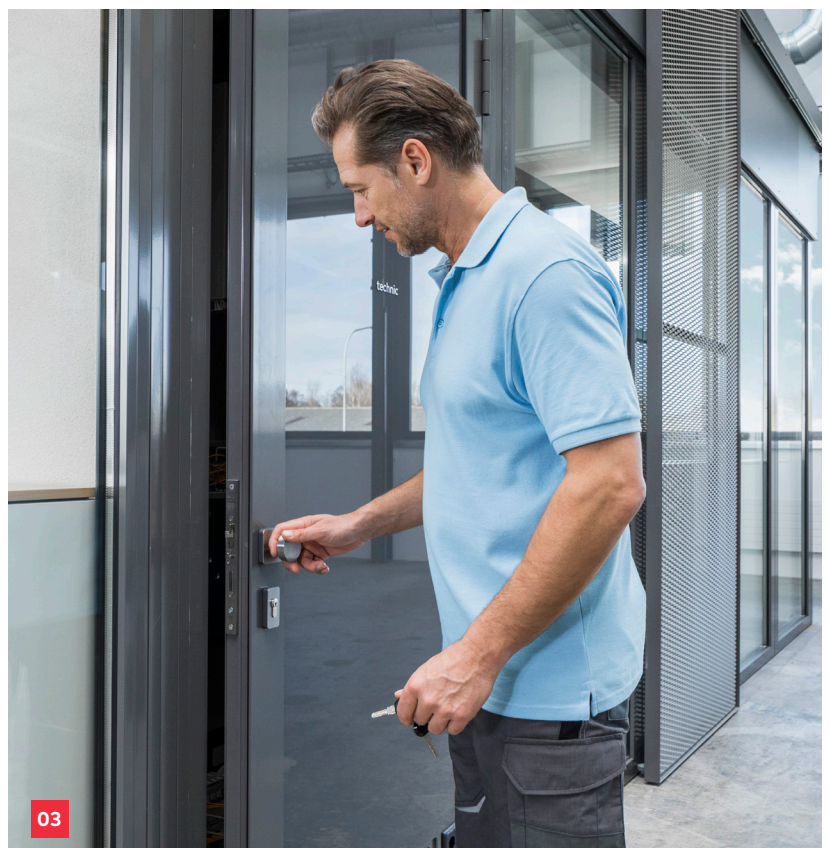
Perimeter security

Airport perimeter security is an enormous task that can only be met by the intelligent deployment of physical protective measures and automated controls. dormakaba full-height turnstiles are a smart solution for securing the entire perimeter of the airport. A combination of electronic access control and advanced biometric technology guarantees maximum security levels.

- 01** Orthos PIL-C01 personal interlock
- 02** Kentaur turnstiles with integrated components for access control
- 03** The reliable dormakaba penta locking system combined with mechatronic or electronic access systems

Access control with Master Key Systems

Depending on the specific requirements a infrastructure has, it may be more efficient to secure security assets with a master key system. Increased access points result in multiple locks that require efficient security management. A master key system can deliver solutions for even the most complex access management challenges and helps maintain better control, saves key replacement costs and is convenient, as there are a lower number of keys in circulation.





Customs exit

One exit with three requirements: smooth one-way passenger flow. No turning back. No unauthorised access from outside. Fully automatic swing doors are hugely convenient for passengers with luggage trolleys and suitcases. They also reliably block the path in the other direction.

Benefits:

- High reliability
- High security level as the opposite direction is blocked
- Barrier-free access possible
- Highly convenient automatic doors
- Elegant, transparent design



Visitor terrace

Visitor terraces are popular with guests across the world. They often require special functions to control the flow of visitors. Two entrance functions of this kind are an automatic limit on the number of visitors and a payment function. Further functions can also be implemented. For example, we offer space-saving turnstile systems that reliably allow one person at a time to enter the terrace.

Benefits:

- High reliability
- Optimum flow of traffic
- Transparent, appealing design
- Space-saving double unit



Comprehensive access control systems

Our electronic access control systems are the perfect blend of form, flexibility and function. Our comprehensive range of networked access solutions, electronic access controls and wireless and standalone access systems are designed to secure access throughout the airport. We provide a wide range of hardware and software systems with cutting-edge security functions that enable you to manage, audit and lock down specific systems, control access and track access data in your security network for any number of users.

Benefits:

- Improved site security
- Access only granted to authorised persons
- Seamless integration in the building structure
- Simple, flexible organisation and secure monitoring of the flow of traffic



Workforce solutions

Accurate recording of attendance and work data is of key importance for monitoring workforce costs and profitability. dormakaba provides state-of-the-art devices and technology that are scalable and flexible. Our data collection methods allow employers to choose the solution that best suits their workforce and business needs:

Benefits:

- Various attendance recording and staff management systems to suit the size of your company
- Smart access management, targeted employee communication and attendance recording in a single system
- User-friendly interface and a wealth of configuration options
- Optional integrated biometric identification

Service

Put your trust in our expertise.

We are committed to the security of your building.

Airport operation places high demands on infrastructure and equipment. High utilisation, time-critical business and special security measures necessitate high availability and functionality to ensure a seamless flow of traffic. A disrupted flow of traffic may not only lead to delays, but also incur substantial costs due to missed slots, for example.





Superb reliability. Access solutions are critical parts of the infrastructure that are constantly in use and that must function with absolute reliability. This applies just as much to automatic sliding doors, automatic sensor interlocks, barriers, turnstiles and access control systems as it does to time recording systems. Regular maintenance and fast response times are vital ingredients for a properly functioning airport.

Always up to date. With over 150 years of experience in the access solutions sector, dormakaba provides a reliable service that goes beyond mere maintenance and repair. The dormakaba customer service team is made up of experienced, highly-qualified and trained service technicians. We also offer training courses during which your employees will learn how to fix minor issues independently. We also provide monitoring solutions for your doors and advise you accordingly to keep your systems up to the latest technological standards.

Available around the clock. We ensure that your staff are safe, and your building is protected at all times.



Our diverse range of services includes automatic door systems, door controls, system solutions for access and time logging as well as hotel access systems.

Our diverse range of services encompasses:



Maintenance



Repair



Replacement parts



Installation



Upgrades and modernisation



Updates and consulting



Training

Assistance in meeting technical security requirements and other access-related requirements

Success story:
Our access solutions
at Zurich airport,
Switzerland



01 Zurich airport: an essential hub for international air traffic since 1948

02 Custom design of the Argus-HSB business lounge sensor barrier provides secure and convenient access to the Swiss Lounge in the Airside Center

03 Easy and quick self-boarding with Argus-HSB eGates

04 Geryon revolving security doors protecting restricted areas are only accessible for authorised persons



03



04



05

05 Barrier-free, double-leaf door locking system in transfer and transit areas for absolute freedom of movement



06

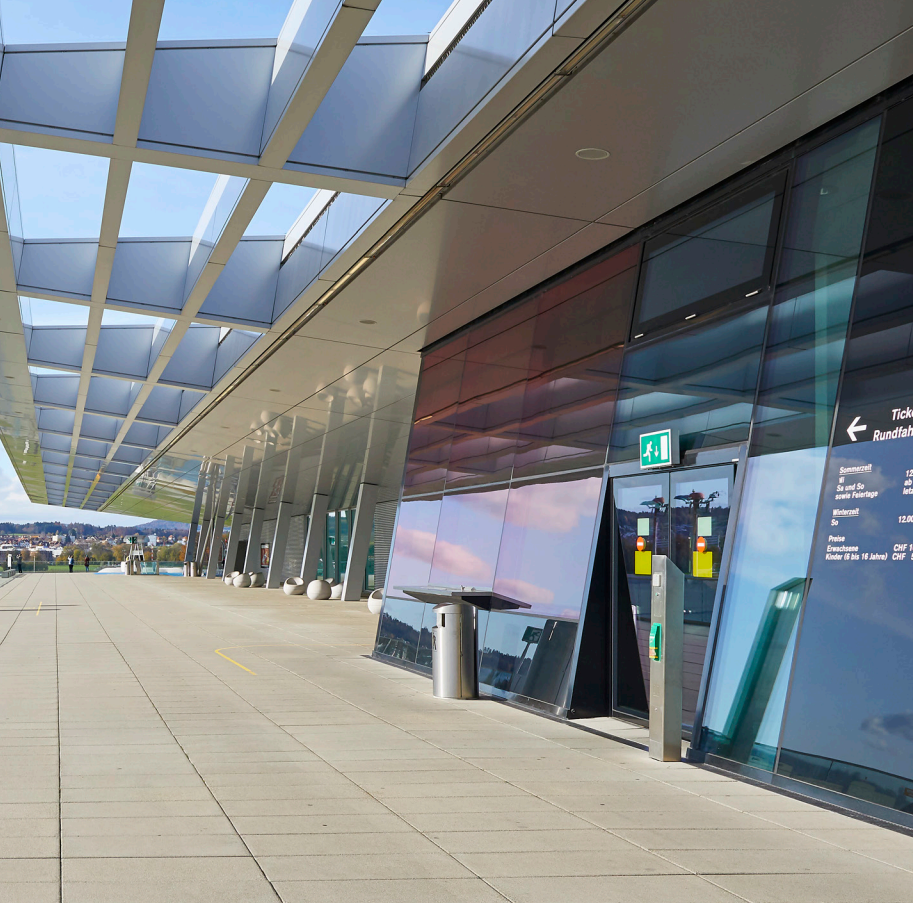
08



07

- 06 Automated boarding pass verification with the Argus HSB-M03 for reliable, easy and seamless access control.
- 07 Flexible and scalable exos access management system: all restricted-access entrances and exits monitored and controlled by the parking control centre

- 08 Flow of traffic to the visitor terrace controlled by access readers
- 09 Simple, easy access with the TS 93 door closer



09



10



11

- 10** dormakaba readers and registration units secure and control access to various customs areas
- 11** Arriving passengers are guided to the exit by one-way Orthos PIL-M02 corridors

Sustainability

How can we make airports more sustainable?

With full commitment and sustainable products.

Sustainability can be integrated. We incorporate economic, ecological and social responsibility into every part of our value chain. The result: the future can already be found in today's solutions.



Environmental product declarations (EPDs) are a global industrial standard. EPDs create transparency throughout the entire life cycle of a product.



Sustainability as a factor for success. To become an industry leader, it is necessary to promote transparent reporting and recognised product declarations. You can be sure that we work sustainably in every aspect of our business. We encourage open and transparent dialogue with all stakeholders, and with you, to enable us to continuously improve.

Certification and declaration. We always keep one eye on our environmental responsibilities. Building certifications are an important factor in the global construction industry. We support this by providing environmental product declarations (EPD) for an extensive range of our products, amongst other things.

Forward planning. Sustainable construction requires flexible product solutions. Our module access systems enable you not only to save resources, but also to improve the wellbeing of the people using the buildings.

The pleasure of saving energy. Barrier-free design and thermal separation can be easily reconciled using our well-engineered product systems. For instance, automatic sliding doors have excellent insulation values thanks to improved thermal separation of the profiles. Reducing power consumption is sustainability in action.

Our philosophy: Sustainability as a foundation

Actions

We reduce environmental impact during production and comply with environmental protection laws and regulations. A safe and healthy working environment is of fundamental importance to us.

Products

Our mission is to always provide reliable products. We act so that our customers can also reduce their environmental impact thanks to the efficient use of materials and energy-efficient products.

People

We offer fair working conditions. We encourage our employees to make use of their strengths and extend their skillsets. We believe in the commitment of every single employee.

Transparency

Our company is a responsible member of society. Adherence to international treaties, laws and internal company rules is crucially important to us.



"The airport of tomorrow must already look to the future today. For me, the topic of sustainability is of the utmost importance. Thanks to intelligent, energy-efficient solutions and durable products, dormakaba access solutions help me to achieve my goals with a clear conscience."



dormakaba 360° City

dormakaba 360° City

Immerse yourself in the virtual airport



The award-winning dormakaba 360° City app whisks you away to the 3D world of dormakaba. In this virtual world, we show you where and how our wide range of products can be used in your airport:

- dormakaba solutions are presented in a 3D environment from the perspective of users
- Detailed information on the various products, such as key benefits, options for surface finishes and materials, datasheets, films and images
- Explanation of functional principles
- Available in 12 different language and country versions
- Experience all products as installed using the integrated virtual reality function
- Navigate through the various sectors from the perspective of a user

We make access in life **smart and secure**

Our Offering

Door Hardware
Entrance Systems
Electronic Access & Data
Interior Glass Systems
Mechanical Key Systems

Lodging Systems
Safe Locks
Key Systems
Movable Walls
Services



Consulting
Planning
Realization
Operation
Maintenance

Our Focused Industries



Our Values

Customer first

We always focus what we do on the needs of our customers, partners and users.

Curiosity

We constantly scout for trends as the inspiration for future-focused solutions.

Performance

We go the extra mile to ensure customer satisfaction and set the bar high in terms of security, quality and reliability.

Courage

We are committed to continuously developing solutions that generate genuine added value for our customers and users.

Trust

Our core corporate value is at the heart of everything we do, so customers can rest assured that they are in good hands.

Our Company

More than
150
years of experience

Around
15,000
employees
worldwide

130
countries

ISO 9001
Certificate



More than
2,000
patents



Sustainability Report
GRI Standards



stock-listed at
SIX Swiss Exchange (DOKA)

We call it **trusted access**



**Door
Hardware**



**Entrance
Systems**



**Electronic
Access & Data**



**Interior Glass
Systems**



**Mechanical
Key Systems**



**Lodging
Systems**



**Safe
Locks**



**Movable
Walls**



Service