

# record portfolio

automatic door systems



Portfolio



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## record – automatic door system

We have been designing, developing, building, selling, installing and maintaining automatic door systems for 60 years. During this length of time, we have accumulated a wealth of knowledge, from which, in turn, a wealth of solutions can be derived.

Our automatic door systems reflect this knowledge in all its facets, and results in a wide range of models capable of fulfilling the requirements of practically any entrance.

### Typical record!

Whether in functional applications such as escape routes, fire containment or separating two climate zones; whether enhancing convenience by providing barrier-free access in nursing homes, or enabling touch-free access to operating theatres, or as a welcoming gesture in department stores; whether functioning as a security interlock in sensitive areas, permitting one-way access only, or functioning as a representative telescopic, revolving or curved sliding door: record makes all these options possible!

### record system 20

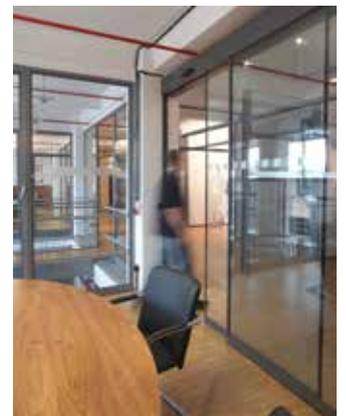
Even our so-called classic "standard" two-leaf sliding doors are sophisticated structures that, together with their complex security systems and refined operational features, are justifiably called "high-tech". They also benefit from the record system 20, a comprehensive control platform, which sets new safety standards, primarily due to the ability of its individual modules to interact, and is also unmatched with regard to user-friendliness!

The record system 20 is used in all our sliding and folding door models, and has also recently been fitted to the record FlipFlow. The integration of other door drives using the record system 20 control platform is a continuous process, and impressively demonstrates the System's enormous diversity.

Automatic door systems that do not use the record system 20 due to their type of construction, such as swing door operators and revolving doors, also benefit from the knowledge derived from the development of system 20.

### Your record partner

The solutions shown in this portfolio only cover a small range of the possibilities they provide, and serve to give you just a first impression of our extensive product range. The record partners in your area are glad to assist you should you have any further questions about the planning or design of your automatic door system.





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## record – automatic sliding doors

Although our sliding doors can be designed to look very different from one another, they are all characterized by a host of features, which, taken together, we consider «typical record». For you the customer, their most striking feature is their conspicuous smoothness, which is the conscious result of our design and engineering skills. However, the overall impression becomes favourable only when all door movements work harmoniously together. Which is where our experience as developers comes into play, experience that stretches back over 60 years.

Automatic sliding doors are the basis of our success. Sliding doors are not only the type that customers favour, they are also the most versatile. Starting with the different types of glazing available, the variety and type of surface treatments for door and frame profiles, or the option of all-glass construction, the diversity of designs is a challenge to anyone's creativity.

### Linear Sliding Doors

Our classic single or double leaf sliding doors can be found where automatic doors are usually fitted. They have opening widths of 800 to 3000mm, and the most powerful model can accommodate door weights of up to 1 x 250 or 2 x 200 kilos.

Just as inviting and reliable, but more impressive in construction and operation are our two or four leaf telescopic sliding doors. In comparison with the traditional sliding door, they take up about 30% less space thanks to their narrower leaves, and can cover especially large opening widths of up to 4000mm. The maximum door weights range from 2 x 170kg for single, and 4 x 130kg for telescopic sliding doors on both sides.

### Radial Sliding Door

Round and curved sliding doors are ideal as stylistic features of a facade. They offer the unsurpassed elegance of revolving doors, but are in comparison less structurally complex, possessing highly flexible design possibilities. The door can be integrated into almost any radius, and can be curved both outward and inward.

### Angled sliding door

This is an entrance of originality, with extraordinary looks. The angle is freely selectable between 90° and 180° and can be applied inside or outside. With obtuse angles, this type of door is often fitted to operate over a large radius, and is also widely used in place of curved doors.





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## record – swing door drives

The record DFA 127 is a universal drive system for the automation of swing doors. It features sophisticated technology, compact design and incredible record-typical smoothness of operation. Our constructive approach to a broad range of applications makes it a full door drive suitable for a wide range of different applications.

### Universal applications

These are possible because of its modular construction and electro-mechanical operation. When the door opens or closes using the drive, tension is simultaneously added to the spring integrated in the housing. The counter movement is powered using the energy stored in the spring, which, depending on requirements, can also be motor assisted. Even without motor assistance, ingenious mechanics ensure optimal force is distributed over the entire swing area. This is necessary to ensure the door arrives at its end position in spite of resistance from drafts, for example, and corresponds to the norms and standards of the relevant safety requirements.

The record DFA 127 can be used with door sizes of EN4 to EN6. The different spring forces required can be quickly and accurately adjusted on the spot using a special screw.

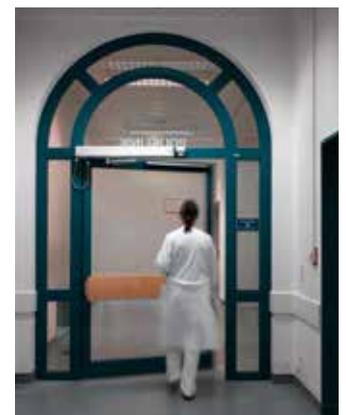
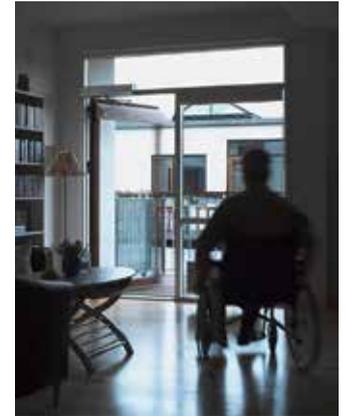
### The right choice every time

The record DFA 127 FULL POWER and LOW ENERGY versions are the correct choice when you need a door capable of meeting conflicting requirements. Extremely strong, the FULL POWER version can move doors of several hundred kilos, whereas the kinetic energy of the LOW ENERGY model is limited to 1.6 joules, enabling it to operate safely without safety sensors.

For escape routes and fire protection applications, we provide the INVERT and FIRE versions. Externally identical to the others, these are basically other variations of the record DFA 127 electro-mechanical swing door drive.

### Possible variations:

- Dual swing door, with or without master / slave operation
- Energy saving mode, adjustable opening of one or both door leaves (sister opening)
- Integrated sequential control for double leaf fire door applications
- Interlock function for two single doors installed consecutively
- Direction-oriented opening for two-way traffic in corridors
- Normal opening or closing





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## record – automatic revolving doors

Revolving doors are undoubtedly the most prominent part of our portfolio. This is not just because of their sometimes imposing dimensions, but because of the remarkably individual way they allow architects to change and interpret their shape and design, with new and extensive variations.

### Applications

Revolving doors are the first choice when it comes to counteracting drafts, noise, dust, and temperature fluctuations. Revolving doors are particularly effective at preventing drafts, and other door systems, such as two consecutive sliding doors, are unable to equal this. Revolving doors can greatly reduce heat loss, minimising the heating and air conditioning required, in some cases dramatically.

### Versions

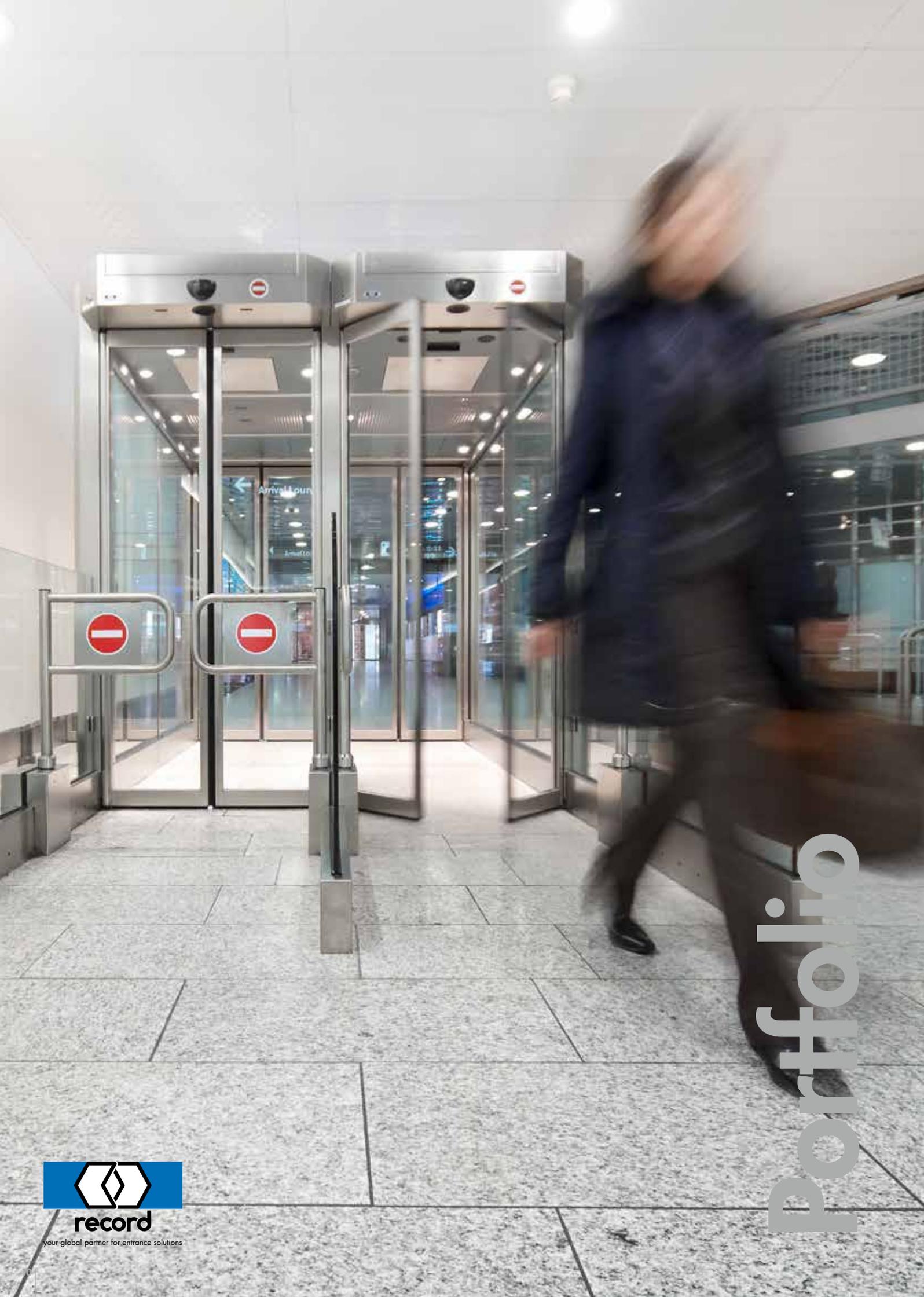
Revolving doors are almost always unique. This is shown by the fact that they have to be integrated much earlier into the general architectural design and planning process than is commonly the case with our other automatic door systems. It is also obvious that you have enormous leeway, not only in terms of aesthetics, but also in the selection of materials and surface finishes, all of which enable a wide range of possibilities.

Our revolving doors are available in two, three and four leaf versions, depending on your needs; a variety of options are possible. Features such as built-in showcases, interior or exterior night shutters, or drives located below ground are all part of the design. The well-known BDE-D door control unit, adapted from our other systems, further enhances convenience of operation. Ensuring the highest level of operational safety, a control unit of the latest generation uses several coordinated sensors to reliably detect potentially dangerous situations; if it does, it immediately performs an emergency stop.

### Variations:

- Available with two, three or four leaves
- Diameters from 1 600mm to 7 000mm
- Aluminium, brass, stainless steel or full glass model
- All RAL or anodized colours
- Door drive fitted below ground or conventionally in the ceiling
- Revolving showcases can be located in the leaves or in the middle of the installation
- Night shutters
- Integrated or attached air curtain





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## record – automatic folding doors and entrance systems

Our folding doors and their variants use another design principle of automatic doors.

### record FTA 20

If there is only limited space for door leaves to open in the passage area, which excludes the use of sliding doors, an automatic folding door provides a good solution.

The width of passage can be almost fully retained. Automatic folding doors can be retrofitted relatively easily; they are designed to work particularly well when fitted in corridors. Depending on the total width available, the folding door is built as one- or two-sided. Typical applications for the record FTA 20 can be found in gastronomy, in the passage to the pantry, for example, or from the kitchen to the dining area, but a recent trend is to use the door to implement no smoking laws by separating non smokers from newly set up «smoking lounges».

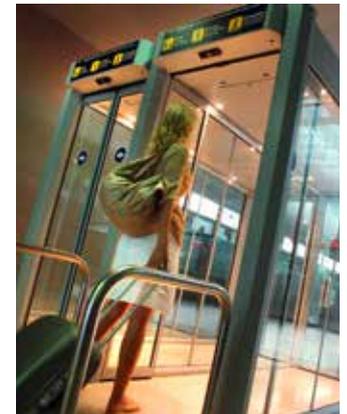
A special feature is the optional «break-out» function (FBO), permitting the record FTA 20 to be used as an escape door in accordance with local conditions and regulations. As with the TOS (Total Opening System) of our automatic sliding doors, the FBO enables swing doors to function as emergency exits by opening in the direction of escape as quickly as possible.

### record FlipFlow

Belonging to record's product family, the FlipFlow is a more advanced folding door. FlipFlow products control pedestrian flow automatically, and are used in security-sensitive areas, like airports, to prevent the uncontrolled entry of persons from public to secure zones.

Pedestrians pass through this one-way access system one at a time, and in one direction only. Attempts to pass through the FlipFlow in the opposite direction are recognized by the intelligent sensor system, which triggers an alarm, automatically closing the doors and blocking the way back with barriers.

Depending on security requirements, FlipFlows come with one or two doors and / or barriers. Several selectable operating modes enable the door to react quickly to changing security situations. Free-flow mode enables fast passenger check-in; the FlipFlow closes and locks only when a person stops, or moves against the scheduled direction. The restrictive interlock mode, by contrast, is designed to allow access one at a time. When a person is present in the interlock, at least one door remains closed, thus effectively preventing objects being thrown or passed through. Automatic switching between these modes is selectable, and is controlled by the volume of passenger traffic.





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## record – special applications

record also offers solutions for emergency exits and highly specialized designs for special applications.

### Escape door systems

The internationally approved redundant design (RED) for escape doors consists of a double drive unit, two combined but independent controls, and a battery to perform an emergency movement in case of power failure. For admission as an escape door in the UK and Denmark, the drive is fitted with battery monitoring (BAT). Also available is the CO48-opening system, originally provided for the French market, with mechanical energy storage.

Our classic sliding and folding doors can also be ordered as a Total Opening System (TOS). Doors can be swung open in the direction of escape, enabling the widest possible area to be used. Doors with side panels can also be integrated into TOS (standard on the escape door system).

### Special applications

The record CLEAN series of automatic door models are used when there are requirements for hermetic seals with clearly defined properties. It is often the case in the medical field, for instance in operating theatres, that our doors support the maintenance of a sterile environment by their hermetic closing and easy-to-clean qualities. These tightly closing sliding doors are available as single or twin leaf models.

The German Institute IFT Rosenheim has certified the record SAFECORD 20, our burglar resistant sliding door, to resistance class RC 2, i.e. providing effective but unobtrusive protection against intruders. In addition to multi-point locking, reinforced running gear and continuous floor guides, this model also features special laminated safety glass and a framework reinforced with steel plates.

### High speed gates

record SPEEDCORD crash-safe high-speed gates can be found inside distribution centres in the food industry and at logistics companies.

The SPEEDCORD can be used as a connecting element between storage areas with different temperatures, to name just one application. The high opening and closing speeds mean shorter open times, which help to counteract thermal exchange on the one hand, and virtually eliminate waiting in front of the gates, on the other. With a maximum size of 3000 x 3000mm and the low drive cover height of 236mm, this model can be used in an extremely wide range of applications.





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## record – Inspection and Maintenance Services

We have been manufacturing and marketing automatic door systems since 1953. The very first applications were to operate doors in laundries, but automatic door drives rapidly developed into attractive entrance systems with very different functional principles, initially driven by time-saving needs. Later came the prestige element, and today our door systems enhance the architecture of any building, actively contributing to its security and safety, and saving energy by reducing heating and air conditioning costs.

In the course of these developments, our products have become increasingly more refined, their functionality more comprehensive and their operation more convenient and user-friendly. At the same time, the legal requirements have become more demanding in order to enhance operational safety.

### The right service package for your needs

Today there are over 8 000 record automatic door systems installed all over Switzerland, our home market, still operating smoothly, even after 20 years or more! Our customers use them every day and this enhances their satisfaction. Reliability such as this is only possible with a combination of clear aims and goals, the highest standards of design, construction and installation, and long-term maintenance by record's highly skilled in-house service technicians.

For your automatic door to function smoothly over decades and be able to fulfil the relevant safety and security regulations, periodic servicing and maintenance is unavoidable. Benefit from the flexibility of a record maintenance contract, which will allow you to vastly reduce your operational and maintenance costs.

### Your nearest record partner

Inspection and maintenance have a particularly high priority at record. The fact that record products are designed and built to last a long time also means they face changing legal requirements. To avoid unpleasant situations for our customers, we make it our priority to personalise our service and maintenance packages, enabling you to fully meet your legal requirements of due diligence.

In consultation with you, our advisor will find the ideal maintenance and service package to meet all your needs.

To know more, please get in touch with your record partner!



## Contact

→ **record UK limited**

Head Office: Unit D, 9 Watt Place – Hamilton International Park – Blantyre – G72 0AH – UK  
Central Office: 450a Bradford Road – Batley, WF17 5LW – UK  
Southern Office: 17 Invincible Road – Farnborough, GU14 7QU – UK  
tel.: +44 1698 376411 – fax: +44 1698 376422 – [info@recorduk.co.uk](mailto:info@recorduk.co.uk) – [www.recorduk.co.uk](http://www.recorduk.co.uk)

→ **Rest of world**

record international – Allmendstrasse 24 – 8320 Fehrltorf – Switzerland  
tel.: +41 44 954 91 91 – e-mail: [international@agta-record.com](mailto:international@agta-record.com) – [www.agta-record.com](http://www.agta-record.com)

→ **Headquarters**

agta record ltd – Allmendstrasse 24 – 8320 Fehrltorf – Switzerland  
tel.: +41 44 954 91 91 – e-mail: [info@agta-record.com](mailto:info@agta-record.com) – [www.agta-record.com](http://www.agta-record.com)

