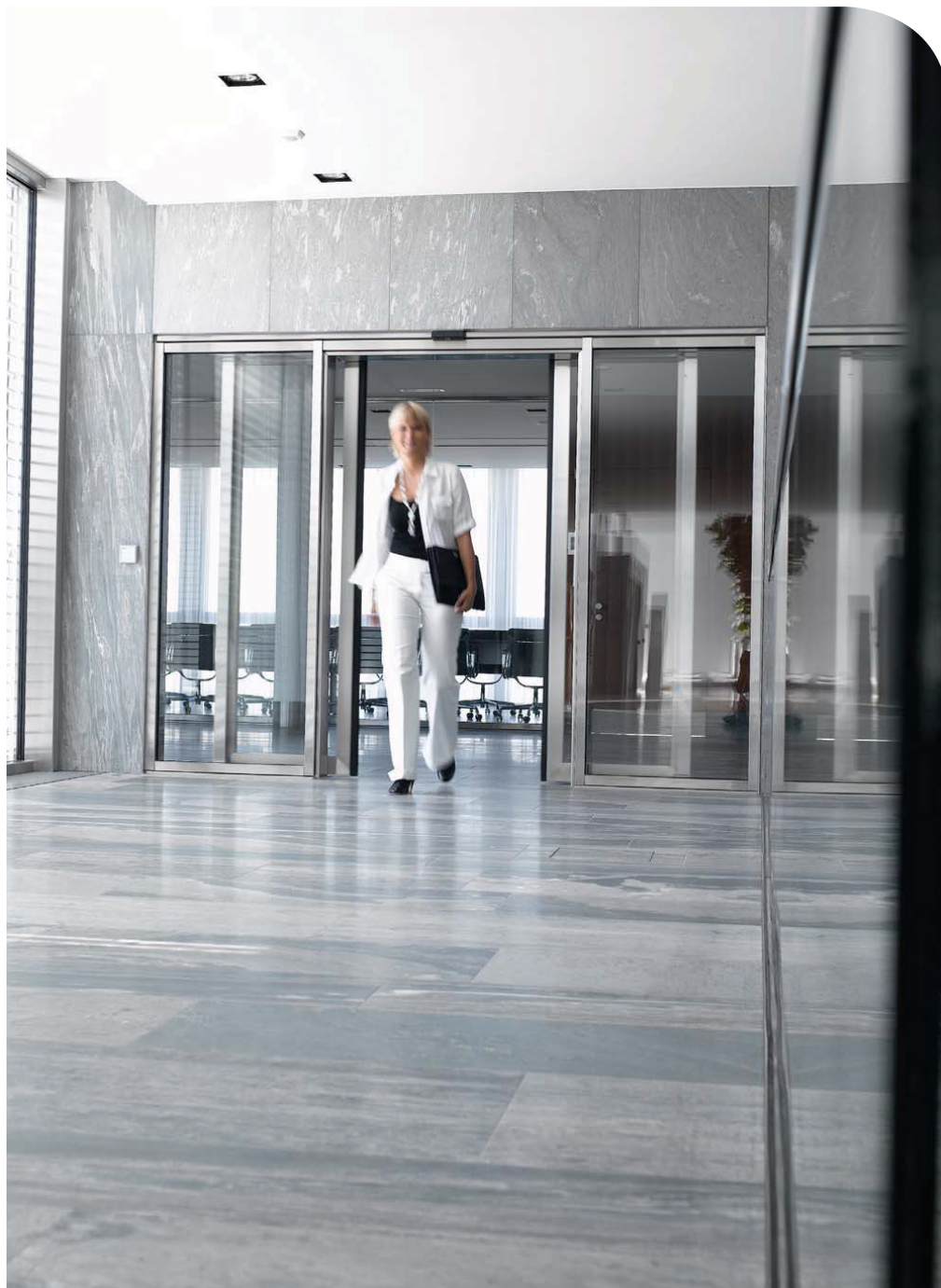


Automatic Doors - RECORD STA 20

Trend - setting automatic door system for most application



***“Silent
Safe
Smooth”***

The Essences of
Automatic Doors



Automatic Doors

Automatic sliding doors system

Fortress Land Door Hardware

Record System 20 - Features

The Record system 20 is the automatic door system featuring interactive communication, simplified commissioning, intuitive control and greatly enhanced operational safety and reliability.

Qualities

The record sytem 20 supplies the basis of our automatic door drives. It enables us to provide a wide range of models for the market, all of which are based on this system and use the same component, modified to suit the needs of the individual customer. The result is quicker assembly and lower service and maintenance costs.

The record system 20 fulfils 2006/42/EG industrial guidelines for machine, DIN 18650 as well as meeting all relevant national and international norms and standards.

Standard Applications

The Record system 20 covers practically the entire range of applications single and twin leaf standard sliding doors, two and four leaf telescopic sliding doors, curved and round sliding doors, record's original angled sliding doors, as well as space-saving folding doors: all these are based on the record system 20.

Special Applications

The record system 20 range of products is also available for escape routes or specially equipped for specific applications.

Benefits

The record system 20 is the very latest generation in automatic door system. In addition to the qualities for which record has become legendary. i.e. exceptionally low-noise operation and typical Swiss quality, the innovative features of the record sytem 20 make it the market leader from the technological point of view.

Maintenance and inspection

Direct from factory and officially tranined overseas, our skilled engineers and service technicians make sure the customer get the best of it.

Service and maintenance contracts, tailor-made to suit the needs and circumstances of the customer, ensure that your installation functions smoothly and retains it's value for many.

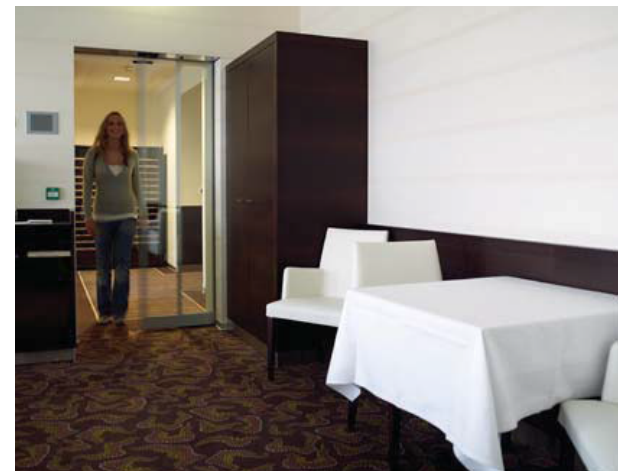
Our hotline staff are ready to provide advice and practical support: which guarantees rapid support for you and reduces unnecessary waiting time.



Offices & Retail shop (noiseless advantages)



Offices & Retail shop (safety & smooth advantages)



Restaurants with telescopic (easy at tough space)



Automatic folding sytem where no space for sliding



Round and curved automatic doors



Cornered automatic door

Record system 20 - Qualities

The Record system 20 enables the construction of a vast range of door models. Designed using modular construction principles, it can be adapted to suit the widest range of conditions and yet is largely based on the same components. This shortens installation time and reduces service and maintenance costs.

Mechanism

The absence of noise is the most striking feature of record automatic doors. Our combination of short, low-momentum toothed belts, rollers made from hard-wearing, low-noise plastic, acoustically decoupled running tracks, guide pulley wheels with ball bearings and door leaf guides with specially developed guide profiles all attribute to an exceptionally quiet running door.

Electronics

The record system 20 components can communicate with one another interactively, which among other things, enhances safety and security. The ability of drive, sensors and remote to communicate enables continuous monitoring of component status. The operational status of the door system and its individual electronic components also continuously undergo plausibility checks.



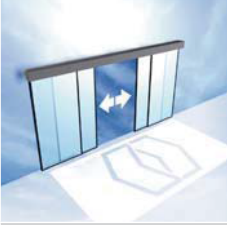


Doors can be operated using a remote control featuring a graphic display with background lighting, and easy-to-use, menu-led navigation with text in the language of your choice; if required, an additional key operated switch is available.

Design

Drive unit heights for both the normal, DUO and RED versions are available in either 108mm or 150mm. 200mm for STA20-200 and STA22 reinforced model. The drive unit can be fitted to the lintel, freestanding or integrated in the ceiling.



2 door telescopic

	Linear standard-sliding door		Linear telescopic sliding door	
				
Door type	E-STA (one leaf)	D-STA(two leaves)	E-TSA (two leaves)	D-TSA (four leaves)
Opening width	800 – 3000mm	800 – 3000mm	800 – 3000mm	1440 – 4000mm
Clear height of passage	3000mm	3000mm	3000mm	3000mm
Max. door leaf weight	1 x 150 kg	2 x 120kg	2 x 90 kg	4 x 80kg
DUO / RED model	1 x 150 kg	2 x 150 kg	2 x 120 kg	4 x 90 kg
Reinforced (20-200/22)	1 x 200 / 1 x 250 kg	2 x 150 / 2 x 200 kg	2 x 130 / 2 x 170 kg	4 x 90 / 4 x 130 kg
Recommended application	single leaf door automation for tight spaces	for most normal applications	for maximum width of passage in tight spaces	for elegant entrances and generous width of passage



Automatic Doors

Automatic sliding doors system

Fortress Land Door Hardware

Record system 20 Standard Applications

The record system 20 provides the right product for every application. Whether you require one of our highly versatile sliding doors, standard or telescopic, curved or angled, or one of our space-saving folding doors that fits into the tightest of spaces, record system 20 can deliver all of this and more.

Linear Sliding Door

Single or two leaf standard sliding doors can typically be seen wherever automatic sliding doors are required. Standard sliding doors have an opening width of 800 to 3000mm, and the strongest model takes door leaf weights of up to 2 x 200kg. Equally attractive and reliable, but more impressive in construction and range of motion, are our two or four leaf telescopic sliding doors. Thanks to their narrower door leaves, they require about 30% less space compared to standard sliding doors, and can cover particularly large opening widths of up to 4000mm.

Radial Sliding Door

Round and curved sliding doors are ideally suited to lending any facade a real touch of style. They provide the unsurpassed elegance of a revolving door, but are less complex and far more flexible with regard to looks. This type of door can be integrated into virtually any curved space and be curved inwards or outwards.

Angled Sliding Door

This is a highly original design, eye-catching and unusual. Angles are available between 90° to 180°.

Folding Door

Folding doors are necessary when the full width of entrances has, if possible, to be used. They are simple to retrofit, and integrate well into existing entrances. For example, a typical application is in restaurants to provide access to preparation area, or from the kitchen to dining room. The automatic folding door is also very useful for hallways in hospitals.

	Radial sliding door	Angled sliding door	Folding door
			
Door type	One or two leaves	Two or four leaves	Two or four leaves
Opening wide	800 – 3000 mm	800 – 3000 mm	800 – 2000 mm
Clear height of passage*	3000 mm	3000 mm	2500 mm
Door leaf weight max.	1 x 200 or 2 x 100 kg	2 x 120 or 4 x 80 kg	2 x 40 or 4 x 40 kg
as DUO / RED model	1 x 250 or 2 x 200 kg	2 x 200 or 4 x 90 kg	-
Recommended application	for elegant entrance solutions	for impressive entrances	for tight spaces and simple retrofitting

*recommended maximum value



Radial sliding door



Angled sliding door



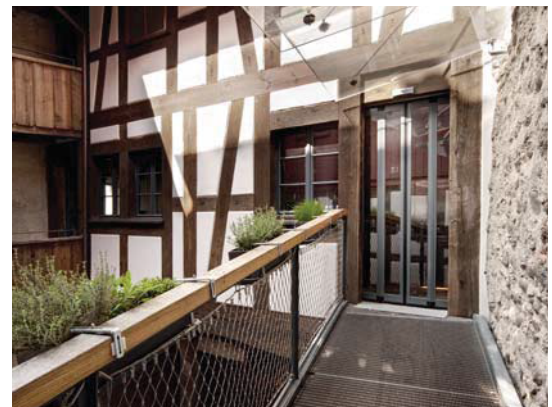
Radial sliding door



Angled sliding door



Folding doors



Record system 20 - Your Benefits

The record system 20 is the very latest generation of automatic door systems. In addition to making the development of tried and tested designs a permanent feature of their work, our developers have brought to market many innovative ideas which they have integrated into the record system 20.

In-house Development

The fruits of this innovative thinking are features such as opening widths that adapt to traffic frequency, and the ability of the sensor to suppress the interference of extraneous signals in the door area.

Thanks to the fact that record develops and produces both controls and sensors in-house and the ability to optimize the design and functionality of these devices to suite our products right from the design and planning phase.

Our sensors, which feature combined radar/infrared, radar only or active-infrared trigger devices are available for assembly on the lintel or flush with it.

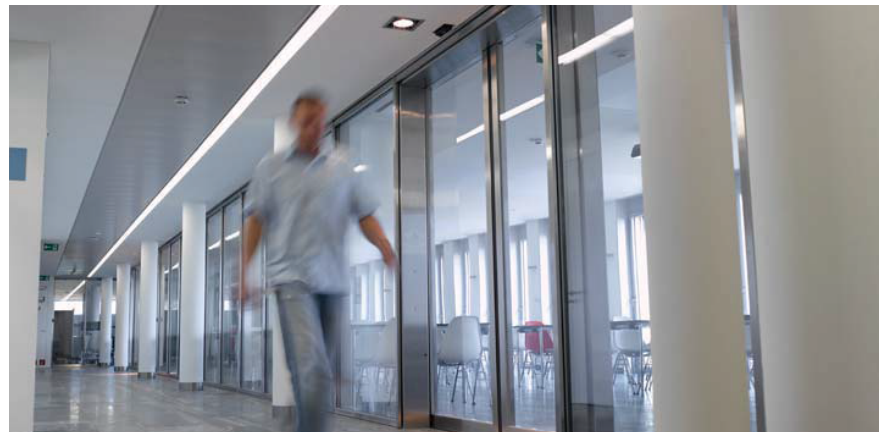
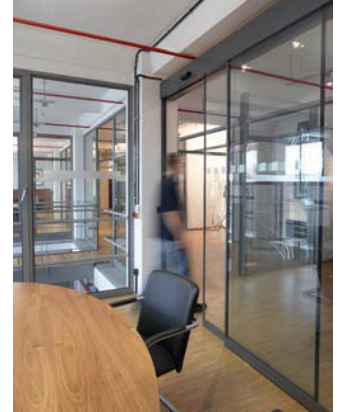
Faster Assembly

Considerations about reducing the complexity of installation, as well as the possibility of reducing assembly time through more drive pre-assembly, have led to the development of the slide bar. This enables us to manufacturer drives of identical widths, independent of the opening width, thur streamlining the manufacturer of the drive unit. As a result our automatic doors are by and large assembled and ready to run in a day.

Record have developed the slide bar drive design and are now in a position to provide it fro most linear sliding doors, even those with drive covers of just 108mm.

Mechanically the Best

Our efforts to produce the quietest automatic doors possible can also be seen in their operation. They open and close exceptionally quietly, which is indicative of the highest precision and the perfect matching of materials; this precision engineering can also be seen in the harmonious sequence of door leaf movements.



Record STA-20 - Options and Equipment



record system 20

- Standard sliding door, single or twin leaves
- Telescopic sliding door, two or four leaves
- Round or curved sliding door
- Angled sliding door
- Folding door
- Specific Sliding door solutions



Escape door systems



- Redundant (RED)
- Electrical power storage device BAT (UK/DK)
- Mechanical power storage device CO48 (F)
- Total opening system (TOS)

Installation Variants

- On lintel, freestanding or recessed in ceiling



Drive Covers

- Drive unit height 108mm and 150mm
- 200mm drive unit height for STA22
- Hinged, foldable drive unit cover and/or in several parts



Surface Finishes and Treatments

- In any RAL finish, powder-coated
- Clear or special anodized finish



Control Unit (STG)

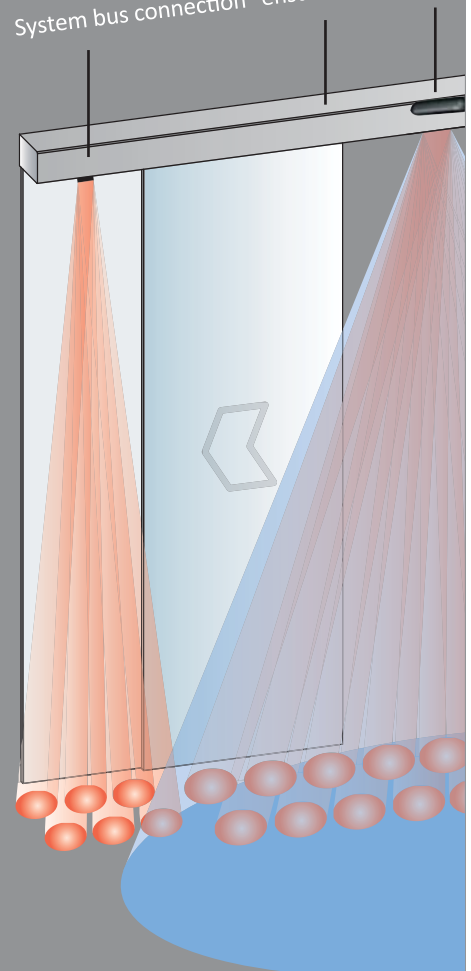
- Self-learning, 32-bit microprocessor control
- Controllable, adjustable door leaf motion sequence
- Low power consumption despite very high-performance drive unit



Burglar Protection Options

- SAFECORD burglar-resistant sliding door (tested and approved by WK2)
- Multipoint locking (MPV)
- Floor rails (stainless)
- Safety rails
- Floor locks (mechanical)

System bus connection ensures interactive



Special Options

- Optical locking display (OVA)
- Use-dependent opening width (TOWA)
- Bell contact
- Monitoring of locking
- Other options available in line with customer's wishes



Trigger Devices, Safety and Security Sensors

- RAD 290 (Radar motion sensor)
- AIR 290 (Active infrared motion sensor/ monitoring of persons)
- RIC 290 (combined sensor)
- Proximity switch (Infrared)



Buttons and Switches

- Wireless trigger device EASY open,
- Remote Control Device for RADAR
- Passive infrared sensors (PIR)



Key-operated contact (SSK)

- Built-on or remote controlled



Manual Unlocking

- HEI (indoors)
- HEA (outdoors)

Rechargeable batteries for emergency operation

- Available in a range of capacities



Locking

- Motorized bolt-operated locking (VRR 20)
- Magnetic locking (VRR 16)
- Multipoint locking (MPV)
- Magnetic catch



Protective screens

- Elegant protection against trapping



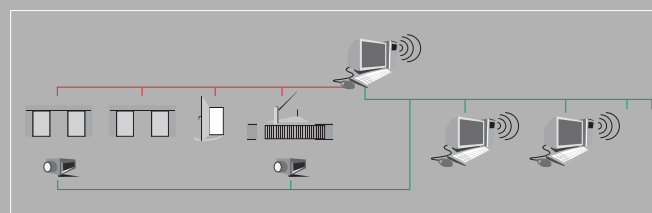
Remote Control Devices

- BDE-D (display with background lighting)
- Available in narrow fitting or square for standard built-in frames
- Equipped with key-operated lock if required



Central Door Management

- record ADM (from about middle of 2012)
- Web camera



Fire Protection System

- Several country-specific systems in accordance with E 30, EI 30



Record STA20 Specifications

	Standard sliding door		Telescopic sliding door	
	E-STA (single leaf)	D-STA (twin leaves)	E-TSA (twin leaves)	D-TSA (four leaves)
Drive dimensions				
d x h with side screen (mm)	194 x 108/150 or 197 x 200		259 x 108/150 or 262 x 200	
d x h without side screen (mm)	157 x 108/150 or 160 x 200		222 x 108/150 or 225 x 200	
Door movement	1.5s to 0.7m	1.0s to 0.7m	1.5s to 0.7m	1.0s to 0.7m
Electrical connection data	230V/50/60Hz/100W			
Ambient temperature	-15°C to +50°C			
Remote control unit	Graphic display with background lighting			
Modes of operation	<ul style="list-style-type: none"> → Automatic operation → Continuously open → Manual operation → One-way traffic → Locked 			
Optional functions	<ul style="list-style-type: none"> → Energy saving functions (automatic opening width TOWA) → Defining customer-specific door parameters → Control lock → Bell contact → Emergency opening or closing (programmable parameters) 			
Options	<ul style="list-style-type: none"> → Remote control unit BDE-D, compact model → Key operated contact (SSK) → record trigger devices: RAD 290, RIC 290, AIR 290 with record system bus connection → record ADM (central control and monitoring – from about middle of 2012) → optical lock indicator (OVA) → Manual unlocking on outside or inside of door → Locking device surveillance → Emergency stop switch → Rechargeable battery for emergency operation in power failures → Approved escape door systems → Hinged, foldable drive unit cover or in several parts → Module to extend functionality for optional upgrades (FEM) 			
Assembly variants	Lintel installation, free-standing or inside ceiling			

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