

record STA 21

record system 20 technologies for light to medium-heavy applications



STA 21

MILANO



STA 21



record

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Remarkably inconspicuous

record STA 21 is operator technology with outstanding price/performance characteristics suitable for automatic and telescopic sliding doors both inside and outside buildings. The STA 21 has been designed in line with record's mission statement to manufacture safe, low-noise, reliable, use-friendly products.

Benefit from cutting edge technology with record system 20

The majority of the record STA 21 components are taken from the famous record system 20, which has a proven track record in international markets, and fitted with smaller, lighter electrical motors and a modified control. This meets the requirements of automatic sliding doors with light to medium-heavy door leaves, and also means the operator is remarkably economical on electrical consumption.

The record system 20 actively communicates between operator, sensors and remote control, enabling constant monitoring of the status of individual components, further enhancing their functionality, safety and security. Our engineers pay particular attention to ensuring their long, trouble-free life. Together with these core priorities of product development, it is the carefully thought-out details that make record's door systems so popular among customers. By pre-defining door movements, unnecessary triggering of opening impulses can be eliminated. Undesirable opening movements caused by extraneous traffic, or by plants swaying in the wind, and even self-triggering (so-called "ghosting") caused by impulses generated by movements of the installation's own door leaves can be eliminated entirely, thanks to system 20's self-learning capabilities.

Save on assembly time thanks to slide bar operation

Standard 2 leaf and 4 leaf telescopic sliding doors feature our tried-and-tested slide bar assembly design. This simplifies the installation, helping to reduce assembly time and avoid potential malfunctions. Another desirable modification is that we have shortened the length of the toothed belt, thus reducing its tendency to vibrate. This results in even quieter operation.

Tasteful Design

All applications share the same profile system, which features clear, elegant lines. Door leaf guides and floor rails are made of stainless steel. Responsible for the whisper-quiet operation typical of record products is our refined gear and roller technology, augmented by profile end guides and parts made from special low-noise plastic.

Approved for the highest levels of safety and security

The record STA 21 product line fulfils all relevant European and national norms and standards. Sensor technology possesses the latest safety and security features, effectively preventing pushing, crushing or trapping.



D-STA 2 leaves



D-STA 2 leaves



E-TSA 2 leaves



record slide bar operation reduces assembly time and simplifies installation



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Designed for light to medium-heavy door applications

Based on the record system 20, the record STA 21 has been modified to meet the requirements of less weight and medium-sized door applications. Both have the same system, enabling the interactive exchange of information between control, sensors and electronic remote control unit.

The most important functions

The 32-bit microprocessor control enables a wide variety of operational modes and functions. The mode of operation is selected intuitively using the BDE-D electronic remote control; the display features text in the language of your choice. The convenient and user-friendly BDE-D remote control can also be used to set or modify application-specific door parameters such as opening and closing speeds, opening widths for reduced opening, duration of open times, etc. Alternatively, parameter setting can also be done mechanically using the robust, key-operated switch.

Safety and security equipment

The record STA 21 can be fitted with motorized bolt locking. Fitting security floor rails with extended blades can further enhance burglar protection levels.

One optional available is manual unlocking in or outside buildings to guarantee the opening of the automatic door during power failures. Another is a rechargeable battery equipped with charging status monitoring to open or close the door in emergencies. The CO48 emergency opening system provided for the French market is also available, but with restrictions in the door leaf weights.

	record STA 21 – standard sliding doors (STA)		record STA 21 – telescopic sliding doors (TSA)	
	E-STA 1 leaf	D-STA 2 leaves	E-TSA 2 leaves	D-TSA 4 leaves
Opening width	800 – 2000 mm	800 – 2500 mm	800 – 2500 mm	1440 – 3000 mm
Max. height of passage	2500 mm	2500 mm	2500 mm	2500 mm
Max. door leaf weight	1 x 130 kg	2 x 90 kg	2 x 90 kg	4 x 60 kg
Recommended application	For light duties in tight spaces	For functional entrances with large entrance widths	For maximum entrance widths in tight spaces	For elegant entrances with large entrance widths



D-STA 2 leaves



E-STA 1 leaf

Door applications	record STA 21	record STA 20	Special door automation
Standard sliding doors with 1 or 2 leaves	●	●	record STA 22 – STA
Telescopic sliding doors with 2 or 4 leaves	●	●	record STA 22 – TSA
Sliding doors with break-out system		●	
Round and angled sliding doors			RST / PST
Folding doors			FTA
Special models		possible	possible
Operator height	108 / 150mm	108 / 150mm	> 150mm
Escape route systems RED ● / CO48 ● / TOS ●	●	● ● ●	● ● ●
Optional equipment			
Standard: ● or multi-point locking (MPV) ●	●	● ●	● ●
Compatible with ADM (from about middle of 2012)		●	●
Profile system 20 (up to 10 mm single layer glass)	●	●	●
Profile system 32 (up to 24 mm insulating glass)	●	●	●
Foreign profiles up to 65 mm	●	●	●
Door protective screen (designed entirely in glass)	●	●	●
Rechargeable battery for emergency opening ● or emergency operation ●	●	● ●	● ●
Peripheral devices			
record BDE-D remote control device with text display	●	●	●
record sensor systems (RAD 290, RIC 290)	●	●	●
record diagnostic maintenance tool	●	●	●



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record peripheral equipment for efficient interactive communication

The reason record products rarely malfunction is the fact that we are one of the few manufacturers of automatic doors that develops and makes both the hardware and software found in our control and sensor devices. This enables us to implement the improvements made by our developers and engineers in the most effective way possible by allowing the coordination of individual improvements on an on-going basis.

Developed and manufactured entirely in-house

When analysing its immediate environment, the RAD 290 motion detector permanently communicates with the control device. The field of the 24 GHz radar-equipped motion detector is defined electronically, allowing it to eliminate previously acquired door movements. The detector is set up to distinguish between traffic moving towards the entrance and across it.

The RIC 290 sensor device uses both radar and infrared technologies. It is equipped with both motion and presence detectors to ensure optimal safety and security during opening and closing. The convex system of lenses enables individual light sources to be collected and processed. The device actively communicates with the door control, eliminating door movements and interference caused by traffic moving across the entrance.

Remote control unit with text display

The electronic remote control device BDE-D is equipped with an illuminated display and features user-friendly, highly convenient menu navigation. Several operational modes are available to programme door functions. The BDE-D is available in standard and slim-line models, and is also available with a key-operated switch.

Sensors



RIC 290



RAD 290



RIC 290/RAD 290 flush-mounted model

Remote control units



BDE-D with surface-mounted housing



BDE-D with key-operated contact



BDE-D slim-line (44 x 92 mm)



Mechanical with key-operated switch

Specifications

	record STA 21 – standard sliding doors (STA)		record STA 21 – telescopic sliding doors (TSA)	
	E-STA 1 leaf	D-STA 2 leaves	E-TSA 2 leaves	D-TSA 4 leaves
Operator dimensions	with cladding 194 x 108 / 150 mm without cladding 157 x 108 / 150 mm		with cladding 259 x 108 / 150 mm without cladding 222 x 108 / 150 mm	
Door movement	0.5 m/s	0.7 m/s	0.5 m/s	0.7 m/s
Mass				
Power supply	230V / 50 / 60Hz / 100W			
Power consumption	100W in operation / 25W in idle mode			
Ambient temperature	-15°C to +50°C			
Remote control	Electronic with illuminated display (BDE-D)			
Operational modes	<ul style="list-style-type: none"> → Automatic operation → Continuously open → Manual operation 		<ul style="list-style-type: none"> → One-way traffic → Locked 	
Programmable functions	<ul style="list-style-type: none"> → Customer-specific door parameters → Control lock → Bell contact 		<ul style="list-style-type: none"> → Emergency opening and closing (programmable parameters) → Energy-saving function (automatic entrance widening TOWA) 	
Options	Sensor, safety and security <ul style="list-style-type: none"> → Bolt locking device (VRR 20) → RIC 290 multi-purpose sensor → RAD 290 motion detector → Floor safety rail → Finish profile (burglar-resistant) → Floor lock → Key operated switch SSK → CO48 escape route door system (France) → Protective screen 		Additional equipment <ul style="list-style-type: none"> → Optical locking display → Emergency-open button → Manual unlocking inside and outside of door → Battery for emergency operation during power failure → Locking device surveillance → Extended functions module (FEM) for optional accessories → Detachable operator housing 	
Assembly variants	→ Lintel-mounted, free standing or on the ceiling			

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 8000 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!

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