



# record STA 21

record system 20 technologies for light to medium-heavy applications



**record**

your global partner for entrance solutions



Developed and manufactured by record –  
quality, reliability and long life

**MINI**



**STA 21**

## 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

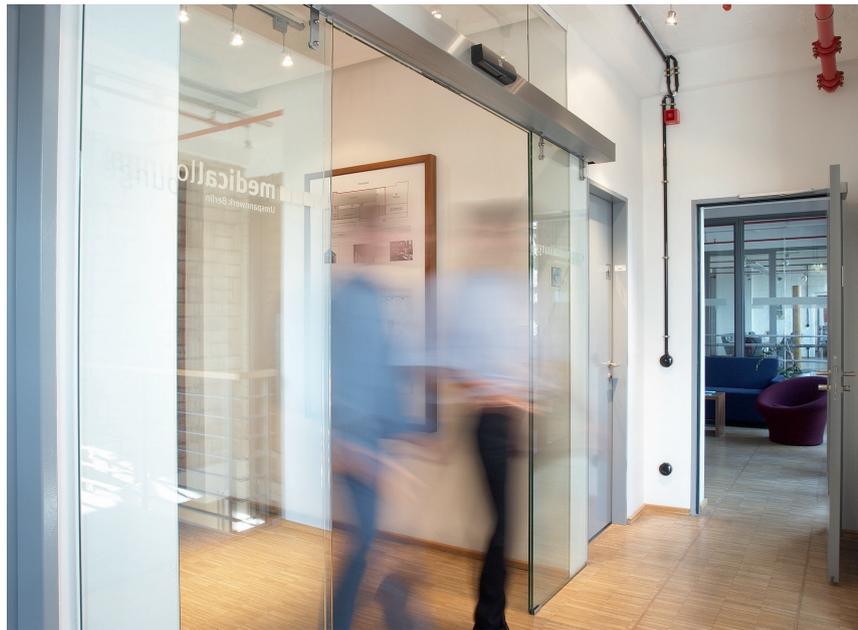
Standard 2 leaf and 4 leaf telescopic sliding doors feature our tried-and-tested slide bar assembly design. This simplifies the installation, helping to reduce assembly time and avoid potential malfunctions. Another desirable modification is that we have shortened the length of the toothed belt, thus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



ETSA 2 leaves



record slide bar operation reduces assembly time and simplifies installation



The elegant solution for standard or telescopic sliding doors



STA 21

# 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. We even supply even the CO48 emergency opening system, a legal requirement in France.

	record STA 21 – standard sliding doors (STA)		record STA 21 – telescopic sliding doors (TSA)	
<b>Door models</b>	E-STA 1 leaf	D-STA 2 leaves	E-TSA 2 leaves	D-TSA 4 leaves
<b>Opening width</b>	800 – 2000 mm	800 – 2500 mm	800 – 2500 mm	1440 – 3000 mm
<b>Max. height of passage</b>	2500 mm	2500 mm	2500 mm	2500 mm
<b>Max. door leaf weight</b>	1 x 120 kg	2 x 75 kg	2 x 80 kg	4 x 50 kg
<b>Recommended application</b>	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 / 150 mm	108 / 150 mm	> 150 mm
Escape route systems RED ● / CO48 ● / TOS ●	●	● ● ●	● ● ●
<b>Optional equipment</b>			
Standard- ● or multi-point locking (MPV) ●	●	● ●	● ●
Compatible with ADM (available about end 2010)		●	●
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 ●	●	● ●	● ●
<b>Peripheral devices</b>			
record BDE-D remote control device with text display	●	●	●
record sensor systems (RAD 290, RIC 290)	●	●	●
record diagnostic maintenance tool	●	●	●





record system 20 technologies for light to medium-heavy door applications



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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

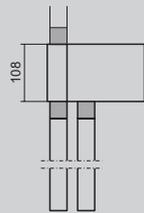
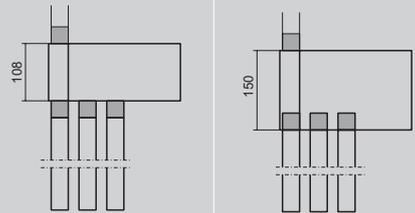


BDE-D slim-line (44 x 92 mm)



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
<b>Operator dimensions</b>	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	
<b>Door movement</b>	0.5 m/s	0.7 m/s	0.5 m/s	0.7 m/s
<b>Mass</b>				
<b>Power supply</b>	230 V / 50 / 60 Hz / 100 W			
<b>Power consumption</b>	100 W in operation / 25 W in idle mode			
<b>Ambient temperature</b>	-15°C to +50°C			
<b>Remote control</b>	Electronic with illuminated display (BDE-D)			
<b>Operational modes</b>	<ul style="list-style-type: none"> <li>→ Automatic operation</li> <li>→ Continuously open</li> <li>→ Manual operation</li> </ul>		<ul style="list-style-type: none"> <li>→ One-way traffic</li> <li>→ Locked</li> </ul>	
<b>Programmable functions</b>	<ul style="list-style-type: none"> <li>→ Customer-specific door parameters</li> <li>→ Control lock</li> <li>→ Bell contact</li> </ul>		<ul style="list-style-type: none"> <li>→ Emergency opening and closing (programmable parameters)</li> <li>→ Energy-saving function (automatic entrance widening TOWA)</li> </ul>	
<b>Options</b>	<b>Sensor, safety and security</b> <ul style="list-style-type: none"> <li>→ Bolt locking device (VRR 20)</li> <li>→ RIC 290 multi-purpose sensor</li> <li>→ RAD 290 motion detector</li> <li>→ Floor safety rail</li> <li>→ Finish profile (burglar-resistant)</li> <li>→ Floor lock</li> <li>→ Key operated switch SSK</li> <li>→ CO48 escape route door system (France)</li> <li>→ Protective screen</li> </ul>		<b>Additional equipment</b> <ul style="list-style-type: none"> <li>→ Optical locking display</li> <li>→ Emergency-open button</li> <li>→ Manual unlocking inside and outside of door</li> <li>→ Battery for emergency operation during power failure</li> <li>→ Locking device surveillance</li> <li>→ Extended functions module (FEM) for optional accessories</li> <li>→ Detachable operator housing</li> </ul>	
<b>Assembly variants</b>	→ Lintel-mounted, free standing or on the ceiling			



[www.agta-record.com](http://www.agta-record.com)

**Near the customer and rapidly available via the service network**

Record service technicians attend regular training courses and guarantee reliable, high quality maintenance, which also preserves the long-term value of your installation. Diagnosis and intervention from a remote site or troubleshooting on-site: **record service is always in your proximity.**



Personal consulting | Professional assembly and commissioning | Professional maintenance | Hotline for rapid troubleshooting | Guarantee of long-term functionality



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