

# SOMMERZEITung

No. 44 | Winter 2017

**SOMMER:** New swing gate operators

**SOMMER:** GIGASedo FU industrial gate operator

**GROKE:** Open house review

**DOCO:** HOME: Innovative private door system

NEW OPERATORS  
FOR UNDERGROUND  
GARAGES

#### IMPRINT

The "SOMMER ZEITung" is published by SOMMER Antriebs- und Funktechnik GmbH, Hans-Böckler-Str. 21-27, D-73230 Kirchheim / Teck

MANAGEMENT: Gerd Schaaf, Dieter Walddörfer, Werner Gollmer

PUBLISHED BY: SOMMER Antriebs- und Funktechnik, Markus Beck

TEXT: Markus Beck, Steffen Schaaf, Hans Ahlfeld, Jochen Lude, Boj Gerards

CREATION: Wagnerwagner GmbH

PHOTOS / LOGOS: SOMMER Antriebs- und Funktechnik GmbH, Groke Türen und Tore GmbH, Doco International B.V, APERTO Torantriebe GmbH, Fotolia LLC, iStock by Getty Images

This magazine and all pictures and contributions are protected by copyright. Subject to misprints and errors.

In accordance with the German Data Protection Act (BDSG), you are authorized to object to being contacted for purposes of advertising.

If you would prefer not to receive information such as this, we ask that you inform us of this in writing.



# EDITORIAL

*Dear business partners,  
dear readers,*

We've got a lot planned for 2017. Some of our new features have already arrived and are showing their mettle in day-to-day use. Others are waiting to move on to their next step in the development process, get their final finishing touch or undergo their final tests. In this issue of SOMMERZEITung, we'll be giving you yet another exciting insight into the various areas of the SOMMER Group. What's going on at GROKE and DOCO? Of course, you will also find out more about our product innovations and gain a glimpse behind the

scenes of the SOMMER corporate group. The individual companies and their creative force are the drive behind our corporation. Take a look behind the doors of SOMMER and meet our innovations, ideas, and the people who come up with them and help bring them to life. Ultimate customer satisfaction is at the heart of everything we do here at SOMMER.

We hope you enjoy reading our SOMMERZEITung.

Your SOMMER team

## CONTENTS

<b>In focus</b>	<b>04</b>
tiga and tiga+	04
Giga sedo	10
<b>Products</b>	<b>14</b>
twist AM	14
twist UG	14
Hand-held transmitters	17
GTA accessories	18
<b>Inside SOMMER</b>	<b>20</b>
Proceeds from SOMMERdays	20
Innovation through research	22
<b>DOCO News</b>	<b>24</b>
<b>GROKE News</b>	<b>28</b>

# Versatility in a box

---

*The demands on underground garage door systems are pretty high. These drive systems are often subject to high loads and need to be flexible enough to meet the various demands of complex systems, while at the same time guaranteeing maximum safety and protection.*

---



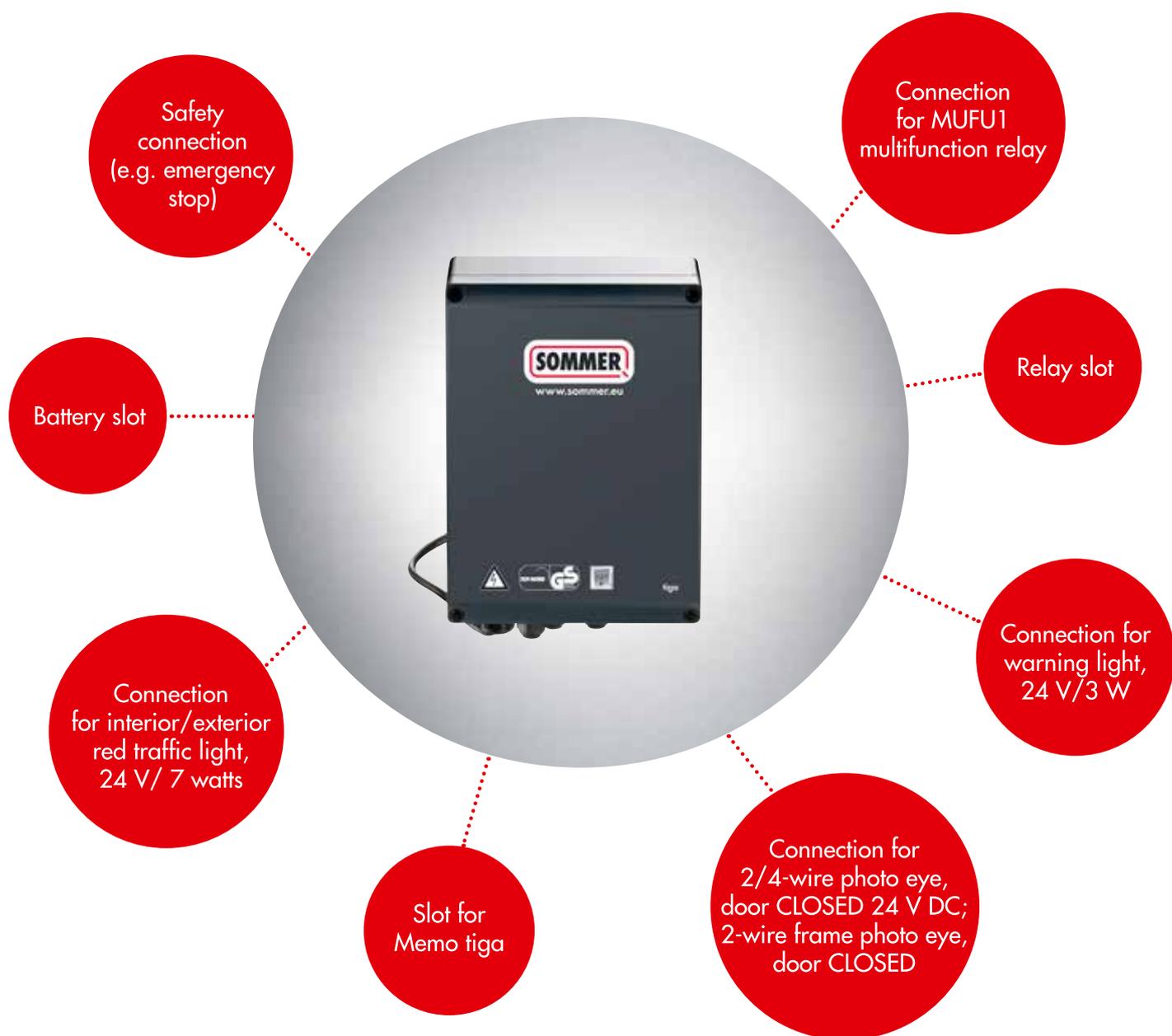
[www.sommer.eu](http://www.sommer.eu)



tiga

## RANGE OF CONNECTION OPTIONS

# tiga



RANGE OF CONNECTION OPTIONS

# tiga+



Connection for 2/4-wire photo eye, door CLOSED 24 V DC; 2-wire frame photo eye, door CLOSED

Red/green traffic light, one way street control

Slot for Memo tiga

Induction loop connection

Connection for interior/exterior green traffic light

Connection for MUFU1/MUFU2 multifunction relay

Effective commands for exit / entrance

Battery pack socket

OSE/8k2 connection for door OPEN/CLOSED

Safety connection (e.g. emergency stop)

Connection for warning light, 24 V/3 W

Timer terminal connection

Connection for interior/exterior red traffic light, 24 V/ 7 watts

Connection for 4-wire photo eye for door OPEN, 24 V DC

Alarm connection, e.g. fire alarm system

## GATE OPERATORS FOR UNDERGROUND GARAGES

The travelling motor system is one of the main strengths of a SOMMER drive system as it allows the motor's power to be used with maximum efficiency and ultimate precision. When applied in heavy-duty underground garage gate operators, this mixture of power and intelligence results in a low-wear, maintenance free and durable solution.

### SECURE OPERATIONS: 24/7

The soft-start and soft-stop features provide additional protection to the moving components. The operator can be engaged and disengaged when the door is in any position to allow for emergency release. A battery pack for emergency operation is also available as an option. With strong self-locking at any opening angle, the motor provides a high level of safety. For further protection against break-ins, you can add locking magnets.

### SMART ELECTRONICS

The electronics systems (which comes with a wide array of add-on functions) continuously adapts the motor power to the current conditions using a self-learning force curve. Speed profiles are optimised for quick opening and secure closing. Short cable runs enable users to connect additional components, such as photo eyes, warning lights, traffic lights or external buttons. Underground garages and commercial operations also have access to an additional 450 storage locations in the Memo memory expansion. Safety contact strips and slip door switches can be connected directly to the carriage. The system can also be used for direct control of underground garage lighting.

### VERSATILE AND ENERGY-EFFICIENT

In the default configuration, the tracks allow sectional doors to be opened to a height of 2,500 mm and swinging doors up to 2,750 mm. Track extensions can be used for higher door types. In standby mode, the systems are exceptionally energy-efficient, consuming under one watt of power. The built-in LED lighting on the carriage also consumes very little power.





tigo

The connection options available for the tigo include a red traffic light (24 V/7W).



tigo+

The tigo+ offers plenty of space in the housing. As a result, you can fit functions such as a timer or stairwell lights with ease for added convenience. It also comes with a range of connection options for features such as red/green traffic lights or a fire alarm system.

# GIGA

## Sedo FU



Full power with the GIGASedo FU. The operators in our GIGA range use a whole lot of technical finesse to perfectly combine the properties of a cutting-edge, reliable industrial gate operator with a frequency converter.





# GIGASedo FU

*Cutting-edge, reliable industrial  
gate operator*

The difference is in the details, which come together with the new frequency converter to generate high overall power.

## **The new frequency converter**

Following an intensive development phase, SOMMER is now ready to present its new frequency converter for industrial gate operators. The combination of power and intelligence once again forms the focus of the technical innovation and our work within the development process. For industrial operations,

powerful and, above all, reliable operators are the only choice. However, this new generation of systems impresses with an additional benefit when it comes to comfort. The unique versatility of the GIGA family has long made SOMMER products the number one choice for situations requiring a high standard of materials, technology and safety. So if you're looking for the perfect fit for your installation or for daily use in an industrial location, SOMMER industrial gate operators are always a safe bet.



## GEARING SYSTEM HEATER

*Having troubles starting your motor?  
Not with us.*

SOMMER is also completely reliable in winter. Our industrial gate operators like things cosy. That's why we always recommend installing a heating system, particularly in operators with safety catches. The self-regulating heating systems are secured to the side of the gearing system and can also be installed retroactively. Activation, temperature regulation and safety switch-off are controlled by three thermal contacts.

# YOUR BENEFITS

*With the new GIGA Sedo FU*

- The display for the system's GIGAcontrol A control unit shows measurements for the voltage, current and temperature in the converter.
- Automatic identification of the frequency converter can be configured directly via the GIGAcontrol A control unit
- Built-in braking resistance for motor braking and the brake rectifier, allowing for the direct connection of an electromagnetic/spring brake
- Added torque for frequency ranges above and below the nominal speed (50Hz)
- PFC (power factor control) – state of the art technology according to DIN EN 61000-3-2 (EMC standard)
- Improved cooling thanks to compact design
- Higher immunity thanks to improved EMC properties





# Getting into the swing of things with twist

*With our twist AM and twist UG operators, you can put some movement into your swing gates with top-class SOMMER quality.*

**Back and forth:** One and two-wing doors do not pose a challenge to twist operators. They also come with an automatic closing function, which can be adjusted individually, so you can make sure that your doors close behind you in a fully or semi-automatic process.

**twist AM:** For swing gates with a maximum leaf width of 2.5 m and a maximum leaf weight of 250 kg

**twist UG:** For swing gates with a maximum leaf width of 3.5 m and a maximum leaf weight of 350 kg\*

**Stay calm:** In the event of power failures, the twist AM and twist UG are fitted with emergency releases and optional battery pack connections so they remain reliable at all times.

**The twist UG has another feature under its belt:** In addition to the qualities we have already mentioned, the twist UG has another special feature. It can be mounted flush with the ground so that it is completely hidden. The "invisible" operator is a particularly popular choice for newly built entrances. For existing entrances, it can, of course, be retrofitted though this does require additional work.

To find out more and check all the technical details for the twist AM and twist UG, please visit our websites.



twist AM: [www.twist-am.de/en](http://www.twist-am.de/en)



twist UG: [www.twist-ug.de/en](http://www.twist-ug.de/en)

\* (For leaf widths from 3 m and gate weights of 300 kg or more, active safety contact strips must be used.)

# SOMlink

*Service interface with  
a wide array of settings*

With intelligent control technology, there are additional options for easily adjusting features and parameters with a web app using your smartphone or tablet. The SOMlink start app facilitates connection between your smartphone/tablet and the SOMlink. This means it is also ideally suited to service and diagnosis. Select the SOMlink you need from the list of all SOMlink units within range and use all available functions in the app. For a demonstration see <http://som4.me/SOMlink>



# SOMplug

*Radio receiver in power socket housing  
1 channel, 868 MHz*

With SOMloq2, SOMMER provides customers with a cutting-edge radio system and convenient functions. The bi-directional SOMplug radio receiver in the power socket housing is well-suited for the easy conversion and retro-fitting of gate operators to the SOMloq2 radio system. It comes with a cable outlet with a potential-free switching contact. The system is able to forward radio commands and receive feedback. Thanks to the SOMlink service interface, you can also operate the SOMplug with ease and execute commands like "Program" and "Delete" without any hassle.



## In focus

One of most unique things about the 3-command hand-held transmitter is its red button for door status requests. This means that you can check the door position and receiver status at any time without moving the system. The bi-directional SOMloq2 radio system provides ultimate transmission security. Maximum reliability is guaranteed thanks to the hop function, which actively forwards the SOMloq2 receiver's signals, thereby increasing the radio range. At just the touch of a button, the auto-repeat function allows for convenient and reliable opening while approaching the door.

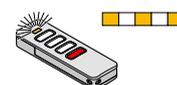
### DOOR STATUS REQUEST



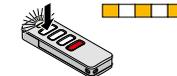
1.



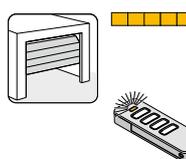
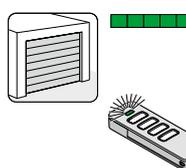
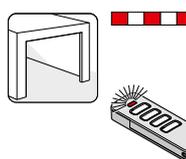
2.



3.



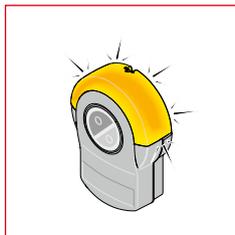
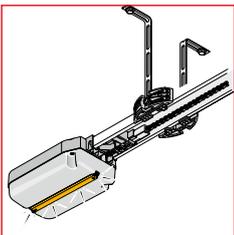
4.



# Accessories

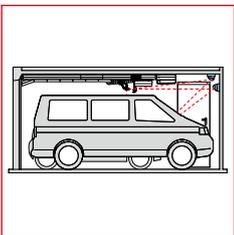
*For the base+ and pro+ garage door operators:  
tailor-made to your needs*

With an extensive selection of various accessories, you can make your garage door operator even better. Discover the range of options available for upgrading your operator. All of the accessories can be easily retrofitted thanks to the plug & play solution.



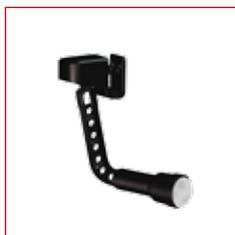
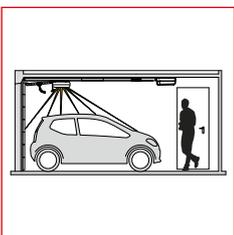
### Lumi+ and Lumi pro+

Additional LED lighting for ceiling and wall control units for your operator. It is switched in parallel with the lighting in the carriage and can be easily switched on and off using the light function by means of a hand-held transmitter.



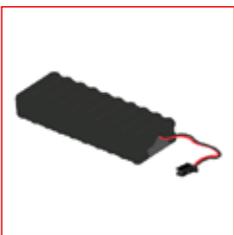
### Parking position laser

Provides optical assistance for perfectly positioning a vehicle in the garage. The laser is active during the opening process and the set light burning time.



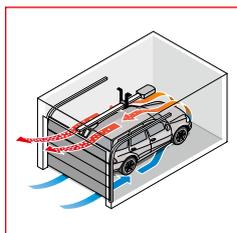
### Motion

A passive infrared sensor detects invisible thermal radiation from moving bodies and reacts. When you enter the garage, the lighting on the operator is automatically switched on (supplemental lighting/relay) so that you can move around safely.



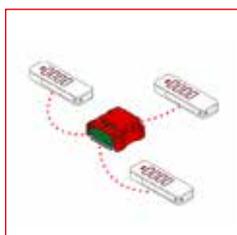
### Battery

Speedily supplies energy to the operator in the event of a power failure. It can handle at least 5 door cycles, by which point your power will hopefully be back on again.



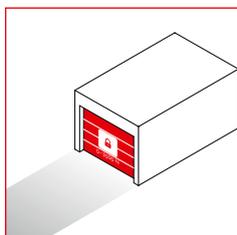
### Senso

The moisture sensor provides ideal protection against mould in your garage. At high humidity levels, the system opens the door slightly, just enough to allow moisture to escape and prevent the build-up of mould in the interior, before then closing the door again automatically.



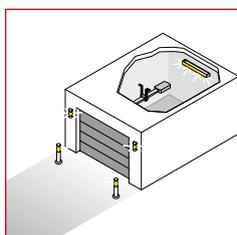
### Memo

Used to expand the memory to 450 hand-held transmitter commands. During service, saved data can be easily adopted for a new carriage.



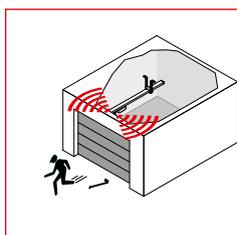
### Lock

Magnetic motor lock which mechanically blocks the motor in any position (including during ventilation) up to an attack force of 300 kg, thereby improving the existing break-in protection, even when the door is in its upper end position.



### Relay

Additional relay for additional switching of a garage or courtyard light.



### Alarm/warning buzzer

Three options in one product: The alarm buzzer recognises a break-in attempt and outputs a loud signal tone. The warning buzzer, on the other hand, outputs an acoustic signal during the closing process or when the pass door is open.



# INNOVATIVE

*Verified with a German seal of approval*

In 2016, door operator specialist SOMMER was awarded the "Innovation through Research" seal of quality from the Stifterverband für die Deutsche Wissenschaft e.V. (Donors' Association for the Promotion of Sciences and Humanities in Germany). The seal of quality is awarded to companies who stand out due special achievements in research and development (R&D). According to studies by the association, only one percent of around 3.5 million German companies do their own research. The "Innovation by Research" seal of quality, which is awarded by the association every two years, is proof that SOMMER Antriebs- und Funktechnik is one of these innovation leaders. The seal is awarded in the framework of a survey of "research and development of the German economy" that the association conducts every two years on the behalf of the Federal Ministry of Education and Research. The federal government uses this data when creating policy regarding the economy, innovation and technology; this information is also available to companies, trade associations and research institutes as a foundation for decision-making.

## **In-house testing centre**

Dieter Walddörfer, Managing Director of Technology at SOMMER, feels this award vindicates his strategy. According to Walddörfer, around five percent of com-

pany turnover goes to research and development. The lies above the percentage of the gross domestic product (GDP) used for R&D in Germany which, according to preliminary figures from the association, was about 2.87% of the GDP in 2014. In addition to the development department, SOMMER has its own test centre. As many as 35 test benches, a climatic chamber as well as state-of-the-art test devices such as a thermal imaging camera, three-phase A.C. current measuring device, volume measuring device, data logger, magnetic field tester and illumination level measuring device are in use. "We invest an above-average amount in research and development", explains Walddörfer "because, for us, innovation is the key to remaining at the forefront in a competitive market with German production."

SOMMER also places a great deal of emphasis on responsible production and sustainability, and has the certificates to demonstrate this. The companies in the SOMMER Group create their products using successful energy management systems. In doing so, it focuses on the responsible use of resources and climate protection.





# TRAINING

*Refresh your knowledge,  
now available online!*

To make you are ready to tackle the challenges of the future, qualified, ongoing professional development is a must. The full range of courses offered by our academy as well as all dates and further information on the content of the courses is available at [www.sommer.eu/de/akademie.html](http://www.sommer.eu/de/akademie.html)

**Garage door operators & innovations**

- 31.01.2017 Kipfenberg
- 28.02.2017 Berlin

**Swing and sliding gate operators (basic)**

- 01.02.2017 Kipfenberg
- 09.02.2017 Unna
- 13.02.2017 Soltau

**Underground garage operators (tiga/tiga+)**

- 30.03.2017 Kipfenberg

**Industrial gate operators**

- 08.02.2017 Unna
- 15.02.2017 Soltau

**Groke aluminium front doors (basic)**

- 02.02.2017 Kipfenberg
- 07.02.2017 Unna
- 14.02.2017 Soltau

**Road shows for garage door operators and  
DOCO HOME garage door systems**

- 10.02.2017 Sittard (NL)
- 16.02.2017 Soltau
- 28.02.2017 Berlin
- 17.03.2017 Walding (AT)
- 06.04.2017 Knüllwald bei Kassel
- 19.04.2017 Ingolstadt
- 27.04.2017 Hofheim bei Frankfurt
- 05.05.2017 Kirchheim

**Service partner training**

- 03.02.2017 Kipfenberg
- 17.02.2017 Soltau

A list of our latest webinar dates is available at:  
<http://som4.me/webinare>

# DOCO HOME

*Modular system with universally adjustable track set design to suit any private door solution*

## HOME – The new system for private doors

The modular system enables a range of different door types to be operated with a universal set. Three different versions are available: HOME-X, HOME-F and HOME-R.

The frame and tracks for all three systems are the same, meaning that there is a single frame system for three different door systems. As a result, you don't have to keep to several different systems in stock, offering you maximum flexibility.



## HOME X and HOME F – Ready for the toughest task

With a door panel weight of 130 kg, HOME-X can be used to build extra wide tension sprung doors. The HOME-F system can even tackle XXL garage doors. With a door panel weight of 295 kg, you can build the biggest door imaginable.

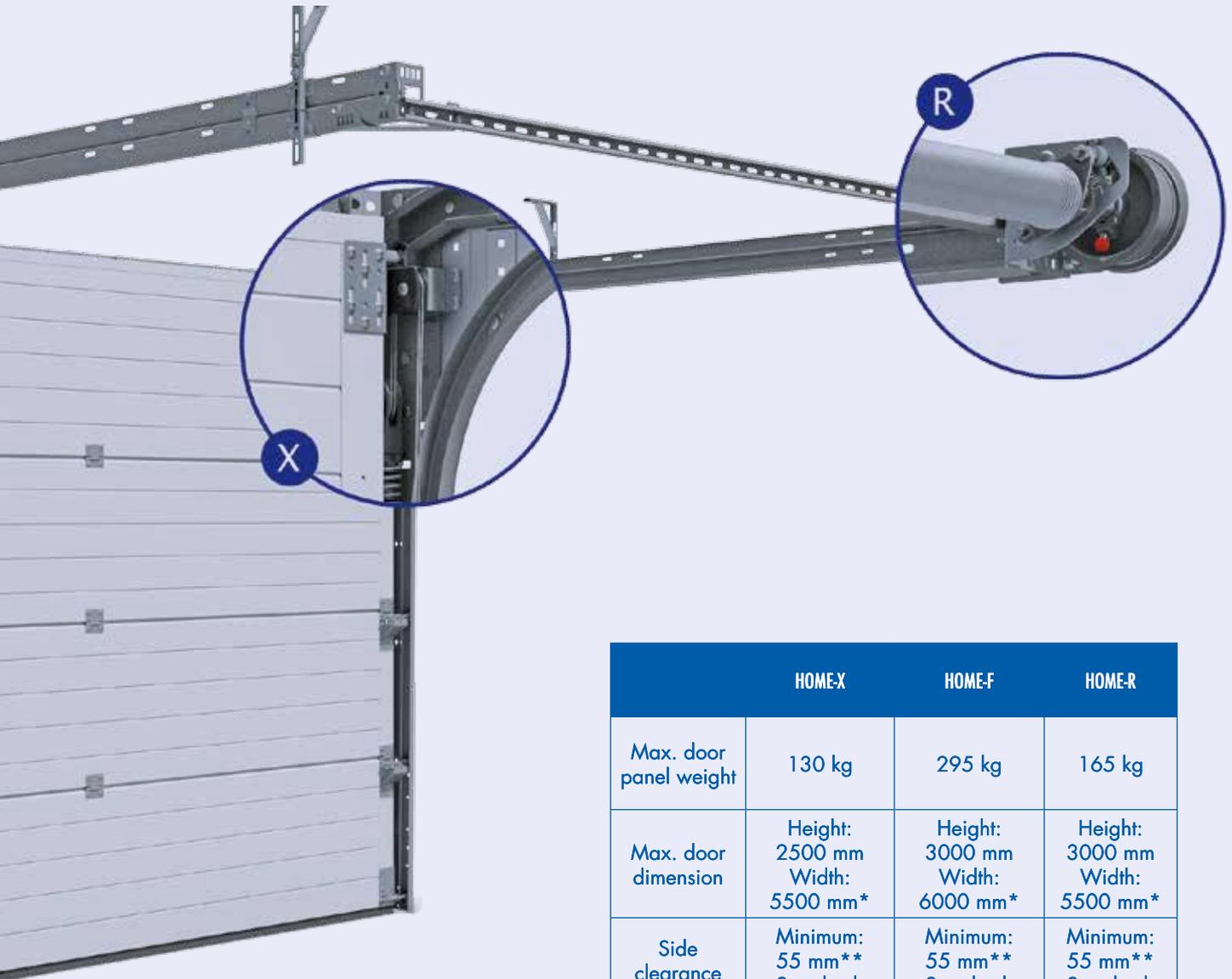


## HOMER – For something new

The unique thing about HOME-R is its reduced installation space. This makes the system perfect for renovation projects with doors with maximum door panel weight of 165 kg.

As well as a high level of flexibility, the speedy and simple installation process for all systems provides added comfort. The technical data is available in the table opposite.





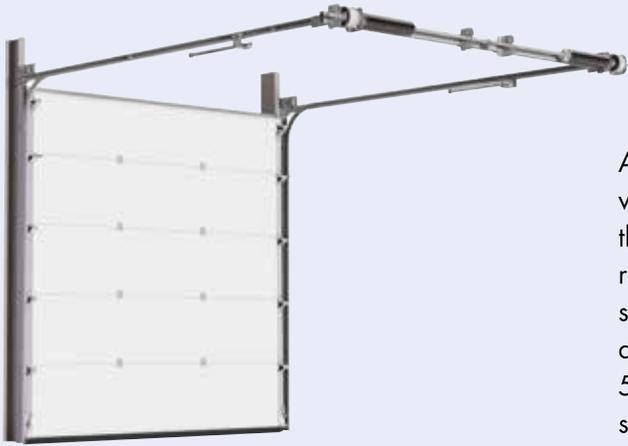
	HOME-X	HOME-F	HOME-R
Max. door panel weight	130 kg	295 kg	165 kg
Max. door dimension	Height: 2500 mm Width: 5500 mm*	Height: 3000 mm Width: 6000 mm*	Height: 3000 mm Width: 5500 mm*
Side clearance needed:	Minimum: 55 mm** Standard: 85 mm	Minimum: 55 mm** Standard: 85 mm	Minimum: 55 mm** Standard: 85 mm
Vertical clearance needed for manual operation	Minimum: 60 mm** Standard: 90 mm	Minimum: 160 mm** Standard: 190 mm	Minimum: 60 mm** Standard: 90 mm
Vertical clearance needed for operator	Minimum: 90 mm** Standard: 120 mm	Minimum: 160 mm** Standard: 190 mm	Minimum: 90 mm** Standard: 120 mm



## DOCO INTERNATIONAL CONTINUES TO EXPAND ITS DEVELOPMENT

DOCO International has opened a new building in The Netherlands with its own development and testing facilities. The location, which covers an area of over 600 m<sup>2</sup>, is directly opposite the main office in Sittard. Over the last two years, DOCO has invested heavily in sales, both in terms staff levels and sales activities, a tactic that has been rewarded with strong growth. In a bid to keep up with this structural growth in the long term, the DOCO product portfolio requires a few more innovations. "The expansion of the development

department will play a very important role in this process," says Managing Director Johnny Creemers. "A large number of employees in the Netherlands work hard on the ongoing development of our products. This calls for the best possible underlying conditions. We are also expecting the number of employees in the development department to keep growing in 2017, which will enable us to concentrate on market-ready innovations. In turn, these innovations will form an important part of our growth strategy."



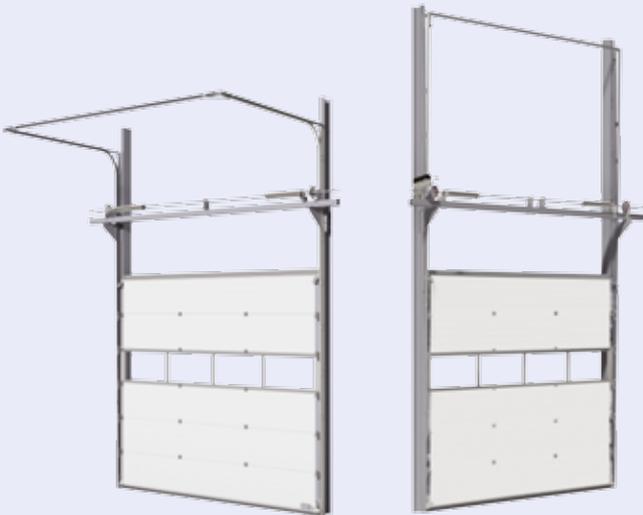
Low headroom system

## INDUSTRIAL GATE SYSTEMS

An industrial gate system for installation situations with a low vertical drop: With a single top roller, the lowest clearance is 300 mm. With a double top roller, it is only 200 mm! This system is CE-certified system and is suited for doors of up to 350 kg with a maximum width of 6000 mm and a height of 5000 mm. A universal track set can be used for all suitable door sizes.

By using special alignment profiles, the parallel alignment of the horizontal tracks is really simple. The made-to-measure track is available as a kit.

DOCO is expanding its product range with a new loading door. The loading door system has been specially developed for HGV loading ramps in an industrial environment and is available as a high-lift and vertical fitting version. The CE-certified system is suited for doors of up to 150 kg with a maximum width of 3200 mm and a maximum height of 3200 mm. The option of positioning the drive shaft at a lower level improves the installation and maintenance process.



Loading door system

## THE INDUSTRIAL DOOR CONFIGURATOR

The new configurator for industrial doors enables detailed planning and development of new projects in accordance with CE guidelines. Once you have configured a door, it provides a complete parts list, production and installation drawings, and information on specific door properties, such as wind load classes.

Can be found at: [configurator.doco-international.com](http://configurator.doco-international.com)



# ALL-INCLUSIVE

## All in for the start of the year

Groke's sales models are available for a special all-inclusive price all year round. To give your sales an extra boost at the start of the year, we are giving you a spring discount of 10% on the special all-inclusive price until 30 April 2017 (excluding side parts and accessories).

Starting with the standard design, all our models include amazing door designs and top-class equipment:

- + Optional door frame with Arcade (flush) or Symphonie (rounded) profile look
- + Certified break-in protection according to DIN EN 1627 – RC 2, eligible for KfW funding
- + Including triple glazed P4A on the outside, ornamental glass in centre acc. to brochure, float on the inside
- + Ud values compatible for Passiv buildings (up to 0.71), eligible for KfW funding
- + Two door models with motif glazing in the form of clear strips
- + The following colours are available: Standard gloss colour: Traffic White similar to RAL 9016 / Trend colours with microstructure: White Aluminium similar to 9006, Grey Aluminium similar to RAL 9007, Effect finish similar to DB703, Anthracite Grey similar to RAL 7016, Wine Red similar to RAL 3005 and Brown similar to RAL 8077

Certified break-in protection in accordance with DIN EN 1627 – RC 2 provides certified security and is recommended by the police. It is also eligible for funding. This means that you can obtain funding from the Kreditanstalt für Wiederaufbau (KfW – a German bank for reconstruction projects) for your door. If you're keen to find out more about KfW funding, visit [kfw.de](http://kfw.de). You will find a wealth of information about individual funding models for your customers under "Private Individuals".

# GROKE SALES MODELS





## EXPRESS 2017

The new EXPRESS deal offers ten top models for an attractive price all-year round. The equipment in the Design house doors with insert panels (thickness: 42 mm) alone guarantee a top-class solution

- + Optional Arcade (flush) or Symphonie (rounded) profile look
- + 3-point hook bolt lock
- + 2 safety bolts on the hinge side
- + Triple glazing with break-in protection P4A glass on the outside
- + 7 trendy RAL colours
- + Ud values that are eligible for KfW funding
- + Certified break-in protection according to DIN EN 1627 – RC 2, eligible for KfW funding
- + **NEW:** Two door models with motif glazing in the form of clear strips
- + **NEW:** Standard model now available with handle 14030 (SG403) and angled brackets or “Liverpool” security door fitting.



# OPEN HOUSE

On 9 December 2016, the aluminium door manufacturer Groke invited installation experts and wholesalers to attend an open house at the company's headquarters in Karlsruhe and its new factory in Hagenbach. Over 500 specialists from the door industry attended the event, where they found out more about the latest developments in door technology, as well as learning about Groke's production facilities and future projects.

## One of the most cutting-edge production plants in Europe

The action-packed programme started at around 11 a.m. with guided tours of the factory, covering the metal shop, panel construction, final assembly and coating. Customers were impressed by the performance of the systems, including the new powder coating system in Hagenbach. With a daily capacity of up to 100 doors, it is one of the most cutting-edge and powerful production systems in Europe. "This gives us a better and quicker way to respond to our clients' needs," explains Groke CEO Wolfgang Schank.

## Stress test for house doors in climatic chamber

A quality test for warp-free house doors using a climatic chamber also attracted a great deal of atten-

tion. During the test, doors are subjected to extreme conditions at temperatures between  $-30^{\circ}\text{C}$  and  $+80^{\circ}\text{C}$  and examined for development and quality assurance purposes.

## Early look at new products for 2017

Guests also got an early glimpse of future models for 2017. The Hagenbach site also presented a new project for the development of special doors with copper panels for China. In Karlsruhe, guests learned about the Kreadoor door configurator, the SOMMER gate operators and a number of new door hardware innovations by DOCO. They also received a lot of background knowledge, such as international hurricane certificates, fire safety inspections and the company's plans for the future.

## Networking with live music and fireworks

The majority of the guests stayed on for a social closing event, including live music, catering, dance performances and fireworks. Many people took the opportunity to chat in a relaxed setting and network with new people. Chocolates were also on sale to raise funds for the Sterntaler children's hospice in Dudenhöfen.



**SOMMER**