GEZE SLIDING, TELESCOPIC AND FOLDING DOOR SYSTEMS

VERSATILE AND COMFORTABLE

Cover photo: Tarık Kaan Muşlu, photo on page 2: Siegelwerk GmbH

GEZE SLIDING, TELESCOPIC AND FOLDING DOORS

Automatic sliding doors (standard)

Variety and safety

Automatic sliding door drives in particular often have to meet above-average demands in terms of functionality and economy. GEZE sliding door systems are suitable for universal use.

Automatic sliding doors from GEZE can be realised with the following drive series: Slimdrive, ECdrive and Powerdrive.

Standard sliding door

Augustinum, Stuttgart, Germany (Photo: Dirk Wilhelmy)

Application range

- Public buildings and authorities
- Businesses and car dealerships
- Shopping centres and retail
- Airports and railway stations
- Health and care sector, e.g. hospitals, pharmacies
- Hotel and restaurants
- Banks and education institutes e.g. schools, universities
- Industrial buildings
- Vestibule systems

Redundant sliding doors for emergency exit routes (FR)

Function maintained in the event of a power failure thanks to several different drive components

To guarantee the safety of emergency escape routes, extra redundant components are integrated into the complete system. This redundancy guarantees that in the event of a power failure or fault, the sliding door will automatically open safely in the operating modes "Automatic" and "Shop closing". In the operating mode "Night" the locking system prevents unauthorised opening of the door. There is no emergency escape function in this operating mode.

This variation can be realised using the following drive series: Slimdrive, ECdrive and Powerdrive.

FR sliding door

Kolbenschmidt Pierburg, Neckarsulm, Germany (Photo: Nikolaus Grünwald)

Redundant sliding doors for locked emergency exit routes (FR-RWS)

Additional locking with duplicate processing system and redundant emergency opening key

With the FR-RWS variation for automatic GEZE sliding doors, the door system can be adjusted by an intelligent control unit and monitored locking system in such a way that it is only possible to pass through the door on request. In the event of a power failure or other problems, the door reliably opens as part of the escape route. FR-RWS sliding doors are used particularly in airports, railway stations, nursing and care homes.

This variation can be realised using the following drive series: Slimdrive, ECdrive and Powerdrive.

FR-RWS sliding door

Cologne-Bonn airport, Germany (Photo: Martin Jakob)

GEZE SLIDING, TELESCOPIC AND FOLDING DOORS

Redundant sliding doors for emergency exit routes with locked shop closing function (FR-LL)

Protected against forced opening from the outside through permanent locking with duplicate processing

This GEZE solution allows door systems on emergency escape routes that are set in the operating mode „Shop closing" (one-way) to be locked via the intelligent control and monitored locking system. This increases the protection of the door against unauthorised opening from the outside. This type-tested FR-LL variation is ideal for use in areas where the shop closing operating mode is to be used over a longer period. FR-LL sliding doors are used especially in banks, theatres and universities.

This variation can be realised using the following drive series: Slimdrive, ECdrive and Powerdrive.

FR-LL sliding door

Sparkasse bank, Ulm, Germany (Photo: Nikolaus Grünwald)

Redundant sliding doors for emergency exit routes in both directions (FR-DUO)

For public buildings with several emergency exit routes

This GEZE solution for special applications can be used in public buildings. Depending on how the rooms or building sections are used, escape routes in both directions are often required. The type-tested GEZE automatic sliding door can be used as an escape route door in both directions by using two monitored movement detectors on both sides. FR-DUO sliding doors are used especially in offices, airports and railways stations.

This variation can be realised using the following drive series: Slimdrive, ECdrive and Powerdrive.

FR-DUO sliding door

Cafe Luitpold, Munich, Germany (Photo: Robert Sprang)

Sliding doors for emergency exit routes with break-out function (BO)

Emergency opening by pivoting leaves and sides open

GEZE sliding doors with break-out function are used on emergency escape routes. The BO function allows the leaves to be pivoted open in the direction of escape – as a sliding door system with a swing fitting, so to speak. Sliding doors with BO function have pivoted side parts and are available for 1 or 2-leaf door systems. Doors with escape route requirements are used in regions where redundant drives are not recognised. They are also used in entrance areas where a large opening width is required, e.g. in car dealerships.

This variation can be realised using the following drive series: Slimdrive.

BO sliding door

Rechts der Isar Hospital of the Technical University of Munich, Germany
(Photo: Robert Sprang)

Sliding doors for emergency exit routes according to CO48 (France)

Emergency opening using elastic rope

In the event of a power failure, the door can be opened once via the built-in elastic rope. CO48 sliding doors with escape route requirement are used in France and other regions where this solution is recognised.

This variation can be realised using the following drive series: Slimdrive, ECdrive and Powerdrive.

CO48 sliding door

Hippauf & Stegmüller, Arnstorf, Germany (Photo: Robert Sprang) - exemplary picture

GEZE SLIDING, TELESCOPIC AND FOLDING DOORS

Sliding doors with burglar resistance in accordance with resistance class 2 (RC 2)

Special protection from burglary and vandalism

The burglar-resistant automatic linear sliding door system GEZE Slimdrive SL RC 2 and the emergency exit route variation SL-FR RC 2 makes burglars' lives difficult. It was specially developed for building entrances with increased security requirements. Both variations have been tested according to component resistance class 2 (RC 2) in line with DIN V ENV 1627 to 1630. This means that they can withstand attempts to be levered open using tools of the RC 2 class such as screwdrivers, pliers and wedges, and can withstand static and dynamic loads. Burglars are stopped effectively and security companies gain reaction time. RC 2 sliding doors are particularly used in banks, pharmacies, jewellers, petrol stations and IT rooms.
NOTE: The burglar-resistant function RC 2 is only enabled in „NIGHT" mode. In „NIGHT" mode the door does not fulfil any emergency exit requirements. It is necessary to ensure that there is nobody in the building or that sufficient other emergency exits are available.
This variation can be realised using the following drive series: Slimdrive.

RC 2 sliding door

Hycro Grand Centre, Zagreb, Croatia (Photo: Robert Les)

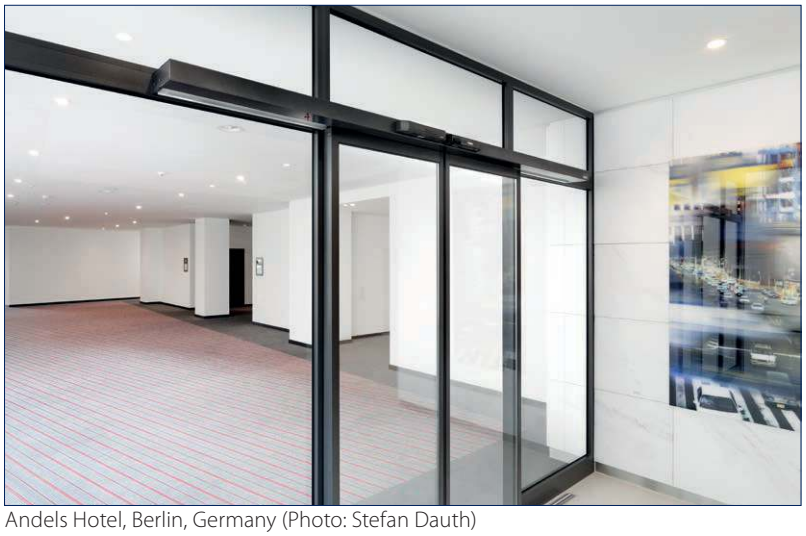
Smoke-proof sliding doors (RD)

Increased safety through smoke protection

Smoke-proof sliding doors from GEZE meet all smoke protection requirements and allow a wide range of versatile design possibilities, thanks in part to the 7 cm drive height of the Slimdrive product series. This sliding door system is made up of the drive and the sophisticated smoke-proof profile system. The continuous floor guide and all-round, flexible and heat-resistant seals guarantee smoke-proofness. In the event of a fire, release is via a smoke detector or external fire alarm system.

This variation can be realised using the following drive series: Slimdrive.

RD sliding door



Andels Hotel, Berlin, Germany (Photo: Stefan Dauth)

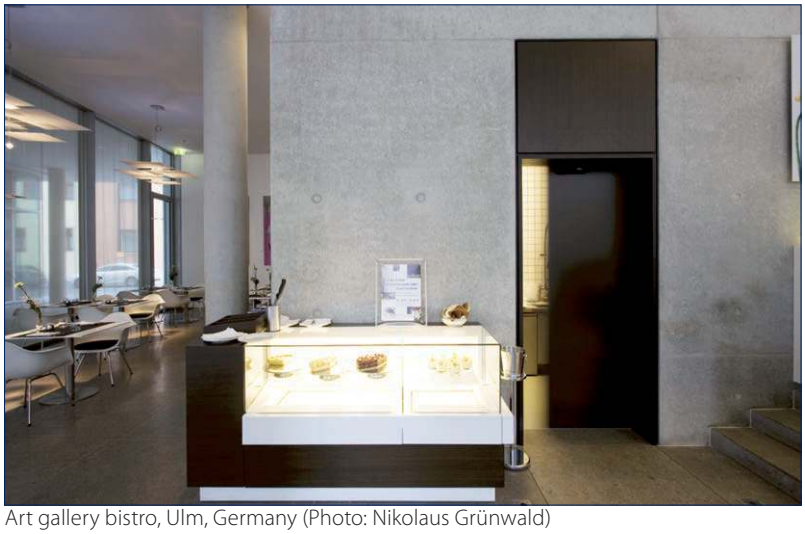
Fire protection sliding doors (T30)

With hold-open and release device, permanent closing in the event of a fire

Fire protection doors are used to stop fire getting through wall openings in fire-retardant walls. Fire protection doors of resistance class T30 are fire-retardant doors according to DIN 4102 and smoke-proof according to DIN 18095. The closing function is guaranteed in the event of a fire too. After the fire alarm has been raised and/or the mains supply voltage has failed, the door automatically closes by means of stored energy. The fire resistance class a door requires depends on what the building is used for and the requirements made on the wall where the door is installed. The T30 sliding door systems are offered in cooperation with partner companies.

This variation can be realised using the following drive series: Slimdrive.

T30 sliding door



Art gallery bistro, Ulm, Germany (Photo: Nikolaus Grünwald)

Telescopic sliding doors (SLT)

Perfect integration even in the narrowest of glass facades

The GEZE drives for telescopic sliding doors are ideal for narrow glass facades in post-rail structures. These sliding doors are used on 2 or 4-leaf doors and allow opening widths of up to 3600 mm. Telescopic sliding doors are also suitable for retrofitting to existing facades and are thus the number one choice for renovation and conversion work.

This variation can be realised using the following drive series: Slimdrive.

Telescopic sliding door

Robert Bosch hospital, Stuttgart, Germany (Photo: Nikolaus Grünwald)

GEZE SLIDING, TELESCOPIC AND FOLDING DOORS

Folding doors (SF)

Versatility for optimum use of space

Wherever maximum passage widths must be achieved in tight spaces, the use of automatic doors with horizontal folding door leaves is the optimum solution. The GEZE automatic folding door system, with the 7 cm drive height characteristic of the Slimdrive series, guarantees maximum passage height for conversions, for example. The low overall height of the drive makes it almost unnoticeable, yet it is highly efficient. Retrofitting to existing facades is no problem. The break axle locking ensures the door is locked safely at night.

This variation can be realised using the following drive series: Slimdrive.

Folding door

Spa hotel Fürst Pückler, Bad Muskau, Germany (Photo: Stefan Dauth)

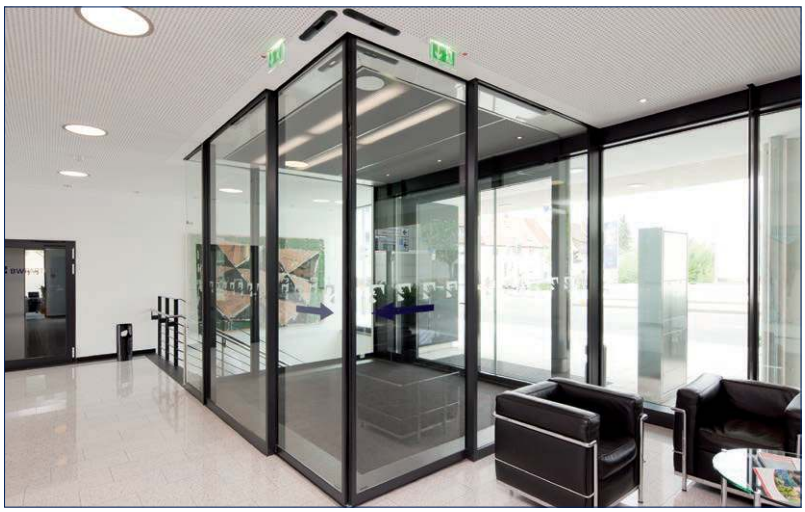
Corner sliding doors (SLV)

Freedom of design – for angles between 90° and 270°

GEZE offers the perfect technical solution for the simple movement of corner sliding doors: The Slimdrive SLV drive – with an overall height of only 7 cm of course – is used wherever a special design is required or the entrance area has to follow certain architectural requirements. The Slimdrive version SLV-FR is used, the corner sliding door can also be used in emergency exit routes.

This variation can be realised using the following drive series: Slimdrive.

Corner sliding door



Trendpark, Neckarsulm, Germany (Photo: Dirk Wilhelmy)

Inclined sliding doors (SL inclined)

Fancy appearance and perfect integration in inclined glass facades

The GEZE drives for inclined sliding doors are ideal for narrow glass facades in post-rail structures. These sliding doors are used on 2-leaf doors and allow opening widths of up to 2500 mm. Inclined sliding doors are framed and offer a sleek appearance in fancy application. They can be used for incline angle up to 9.9°. Larger angles are available on request.

This variation can be realised using the following drive series: Slimdrive SL inclined.

Inclined sliding door

Villa Soravia, Millstatt, Kärnten, Austria (Photo: Helmut Kolaric)

ECdrive, Akbati, Istanbul, Turkey (Photo: Tarık Kaan Muşlu)

GEZE SLIDING, TELESCOPIC AND FOLDING DOORS


ISO-glass fine-framed

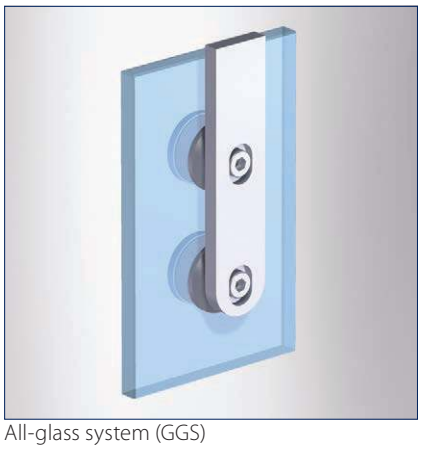

MONO-glass fine-framed

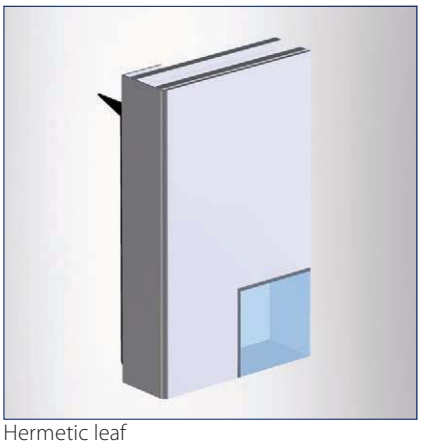

ESG clamping profile


Frame leaf (provided by customer)


Wooden leaves (provided by customer)


Integrated all-glass system (IGG)


All-glass system (GGS)


Hermetic leaf

Operating automatic sliding doors

GEZE offers programme switches for a wide range of individual requirements. The switches are suitable for universal use – for surface-mounted or flush-mounted installation. The following switch types are available:

Display programme switch (DPS)
Key programme switch (TPS)
Mechanical programme switch (MPS)

The following operating modes can be set:

"Permanently open"
The door moves to the OPEN position and remains open. Movement detector or opening button are deactivated.

"Night"
The movement detectors are switched inactive, the door closes.
Option: The door leaves are locked electrically to prevent forced opening.

"Shop closing" (one-way)
The door only opens and closes when someone goes out from the inside.
The movement detector outside is switched inactive, the one inside is switched active.

"Automatic"
The door opens as soon as it is actuated via the movement detector or keys, and closes after a certain individually adjustable time. Safety sensors protect the leaves' travel path. If there is someone in the door opening, the door will not close.

"Reduced opening width"
The settings determined in teach mode are activated or deactivated.

"OFF"
Drive and sensors are switched off, the door leaves can be moved manually.

Key switch
The programme switch can be disabled using a key switch.

Securing the programme switches
Automatic sliding doors in emergency exit routes must be secured against operation by unauthorised people. The mechanical programme switch (MPS) is also available in a lockable version. The display programme switch (DPS) and key programme switch (TPS) can be combined with a key switch. Alternatively, these programme switches can be secured using a code.

Display programme switch (DPS)


Key programme switch (TPS)


Mechanical programme switch (MPS)

Automatic actuation

Reliable actuation with GEZE sensors

Combined detector

Combined detectors are radar movement detectors using an infrared light curtain. Actuation and protection are integrated in the sensor, reducing installation efforts. Individual attachment possibilities through wall, ceiling or integrated ceiling recess installation provide lots of design freedom. The use of a remote control guarantees quick and easy commissioning. The sensor is actuated reliably on the basis of direction of movement and the fading out of cross-traffic. Slow movements can be detected thanks to the "slow motion detection" feature. The protection area can be configured as required. Combined detectors for emergency exit routes offer maximum safety through integrated self-monitoring.

Combined detector GC 363

Combined detector GC 365

Radar movement detector

Radar movement detectors register all objects that move within the radar field. All movements within the radiation range cause a time-delayed reflection which is forwarded as a door opening signal. The pre-programmed convenience setting of the GEZE radar movement detectors ensures they can be put into operation quickly. Automatic configuration is possible via keys or a remote control. Reliable detection is achieved with a clearly defined radar field. Energy can be saved through detection of people's direction of movement. Excessive door opening is avoided since cross-traffic can be faded out.

Radar movement detector GC 302

Radar movement detector GC 304

ACCESSORIES

Manual actuation

Push buttons
GEZE push buttons for the wireless actuation of system doors – reliable, convenient and safe at the push of a button.

Non-contact capacitive push button
The design-oriented and sturdy LED sensor button makes intuitive and straightforward operation possible. No great efforts are required for actuation – touching the button slightly is sufficient. Suitable for use both indoors and outdoors, the LED sensor button can be recognised easily in the dark thanks to the blue LED lighting. In addition, the sensor has raised Braille lettering on it. An acoustic and visual signal initiates actuation through the push button. The push button is waterproof, impact-resistant and vandalism-proof. This makes it very well suited for outdoor use or installation in the floor.

Non-contact infrared-sensor
Open doors in a flash: With GEZE infrared sensors, internal doors without precise perception requirement can be actuated cleanly and comfortably. Active infrared sensors ensure hygienic access to toilet facilities, for example. The risks of infection are also minimised in hotel kitchens, hospitals and doctors' surgeries. The impulse generator is installed at hand height and precisely detects people and objects – independently of their direction of movement – both in the direct vicinity of only 5 cm as well as 0.6 m away. The different scanning ranges can be optimally adapted to existing environmental conditions and the wishes of the user groups. The non-contact sensor system provides maximum operating convenience – people only need to approach them to trigger the automatic opening mechanism. The optimum system structure permits simple and time-saving installation in the flush-mounted box.

Radio actuation
GEZE radio transmitters are used for wireless actuation of doors and windows as a multi-channel solution. For every additional channel, an additional electrical device or function can be switched at the push of a button. Thanks to the very small size of the radio modules, radio transmitters can easily be integrated in the drive or in a flush-mounted box. They can also be clipped directly into the elbow switched and mounted without wires on glass.


Push buttons


Non-contact capacitive push button


Non-contact infrared sensor


Radio actuation


Large-scale button made of plastic


Large-scale button made of stainless steel

Electronic protection

Infrared light curtain
GEZE light curtains are used to secure posts, main and secondary closing edges both inside and outside. The light curtains have an invisible and non-contact protective device. Precise detection is possible through a clearly defined field, the size of which can be adjusted. Individual applications allow the use of light curtains as protective sensors or opening impulse generators.

Infrared light barrier
GEZE safety light barriers are available as single-beam and double-beam versions. This guarantees the easy and reliable protection of main closing edges with tried-and-trusted technology. The design permits flexible installation in different door profiles. The integrated electronics guarantee fast installation and compact space requirements.
Note: In Europe (CEN Countries), as of 2013, the use of light barriers is not permitted according to EN 16005 / DIN 18650.

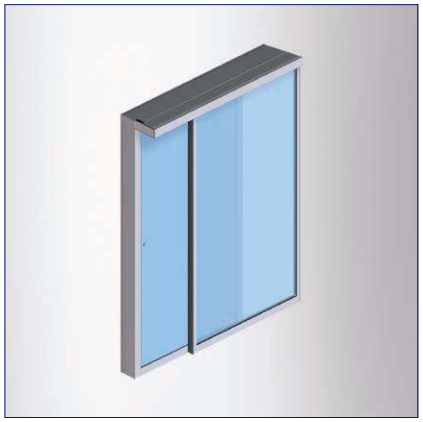

Infrared light barrier

Mechanical protection

Protective door leaf
Protective door leaves are used on escape and rescue routes if it is not possible to secure the secondary closing edges using light curtains. Automatic sliding doors on escape and rescue routes must be able to be opened at any time.

Safety leaf
Safety leaves are used to secure the cavities behind automatic sliding doors in post-rail structures.


Protective door leaf


Safety leaf

ACCESSORIES

Automatic locking

Toothed belt locking

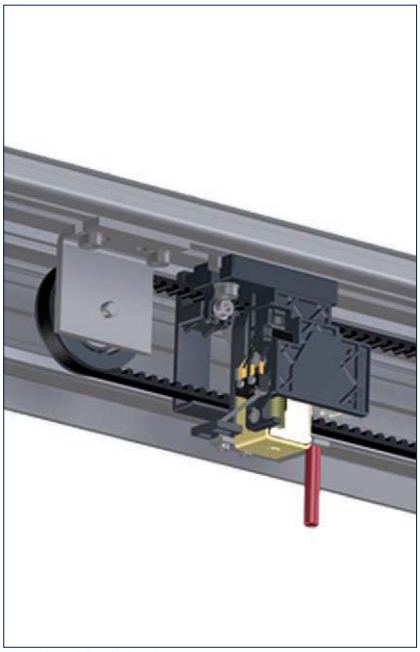
This electromagnetic bi-stable locking system ensures more safety, because it stays locked even without electric current. Manual emergency unlocking is possible at any time. Typical for this type of locking is permanent monitoring by the control unit. Up to two contacts for external applications (e.g. alarm systems) can be integrated as an option. Thanks to the free choice of positioning in the drive, the toothed belt unit is not only easy to install, it also makes special locking functions possible, e.g. locked pharmacy opening of the sliding doors.

Rod locking

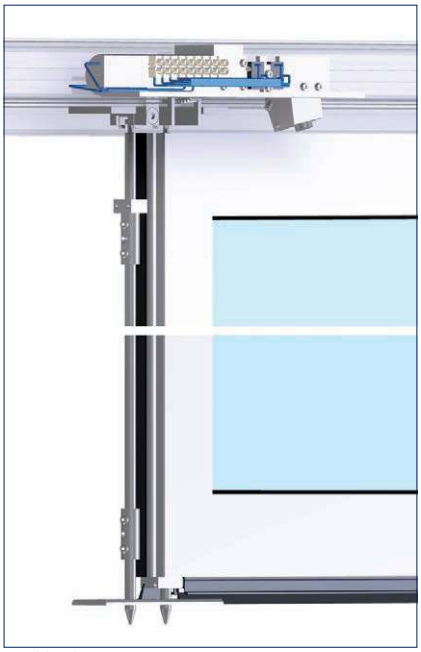
Rod locking increases safety and burglary protection. The multi-point lock – both upwards and in the ground – provides solid resistance against attempts to be levered open. The locking rod is integrated invisibly in the fine-framed ISO profile system. The system can be unlocked both electrically or mechanically. Rod locking can be used in the Slimdrive SL and Slimdrive SLT drives. Emergency exit routes can also be protected by rod locking.

GEZE Lock A hook bolt lock

The new GEZE Lock A is an automatic hook bolt lock for the Slimdrive SL NT and ECdrive sliding door systems. The top quality single or two-point locking mechanism allows the door to be locked and unlocked quickly and reliably. The locking motor is invisibly integrated into the vertical profile of the door leaves. The sliding door control unit makes parameter setting and control easy. The manual emergency unlocking facility allows the door to be opened from the inside at any time in the event of a power failure.



Toothed belt locking



Rod locking

GEZE Lock A hook bolt lock

Manual locking

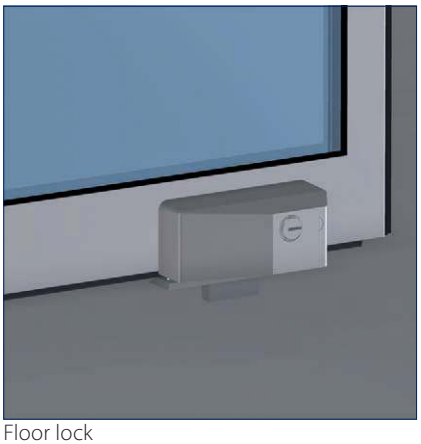
Floor lock

The GEZE floor lock is used to lock door leaves with the fine-framed ISO profile system easily at floor level. Standard profile cylinders can be used for the floor locks. This means the solution is suitable for optimum integration in locking systems. Operation is manual, with the key, either only from the inside or from the inside and outside.

GEZE Lock M hook bolt lock

The new GEZE Lock M is a manual hook bolt lock for the Slimdrive SL NT and ECdrive sliding door systems. The top quality locking mechanism is invisibly built into the vertical profile of the door leaves, allowing the door to be locked and unlocked quickly and reliably. The door can be locked and unlocked from the inside or outside using a key in the lock which is installed at a convenient height. The lock has a profile cylinder with 3, 6 or 9 keys and can be integrated into an existing closing system. The extremely sturdy GEZE Lock M provides excellent protection against vandalism and unauthorised access.

As an option, GEZE can provide a pushing rosette for standard lock cylinders for installation on the drive side / inside. If the door leaves are protected by a protective door leaf, the system can only be used without a pushing rosette.



Floor lock

GEZE Lock M hook bolt lock

Service Tools

GEZEconnects

Bluetooth is an internationally standardised short-distance radio signal with a range of up to ten metres. The software GEZEconnects makes wireless connection via Bluetooth possible between a computer and the automatic door systems from GEZE. All door system settings can be carried out via an intuitive graphic interface, stored, sent by e-mail and transferred to a word processing programme as a protocol. Diagnosis functions show the most important function parameters of the door system in real time, so that problems are recognised at a glance and can be eliminated. All the pre-settings can be taken over very easily for further door systems. The convenient documentation of initial operation, servicing and diagnosis protocols as well as all statistical data can be downloaded at any time. Password protection to freeze operating parameters and servicing data guarantees there will be no unauthorised modifications made.

Service terminal ST 220

Mobile, handy and straightforward – that is parameter setting for the automatic GEZE door systems using the service terminal ST 220. Communication and data exchange between the service terminal and the door drive is via an integrated RS485 interface. The large illuminated interface is easy to operate thanks to the plain text display. The service terminal is equipped with a readout function for servicing and diagnosis work. Power is supplied via the door system. Password protection to freeze operating parameters and servicing data guarantees there will be no unauthorised modifications made.

GEZEconnects

Service terminal ST 220

References

Slimdrive SL NT with vestibule, Augustinum, Stuttgart, Germany (Photo: Dirk Wilhelmy)

ECdrive, Augustinum, Stuttgart, Germany (Photo: Dirk Wilhelmy)

GEZE FLOOR SPRINGS AND ALL-GLASS FITTINGS

CLEAR SOLUTIONS. FOR ELEGANT TRANSPARENCY.

Cover photo: S. Dauth, photo on page 2: N. Grünwald

Glass Trösch, Kempten, Germany (Photo: N. Grünwald)

Meesenburg GmbH, Flensburg, Germany (Photo: Jochen Stüber)

Meesenburg GmbH, Flensburg, Germany (Photo: Jochen Stüber)

POTENTIAL APPLICATIONS OF GEZE PRODUCTS

You will find more product information in the relevant brochures, see ID numbers.

Door technology	
01	Overhead door closers ID 091593, ID 091594
02	Hold-open systems ID 091593, ID 091594
03	Integrated door closers ID 091609
04	Floor springs and all-glass fittings ID 091607
05	Sliding fitting systems and linear guides ID 123605, ID 000586
Automatic door systems	
06	Swing doors ID 144785
07	Sliding, telescopic and folding doors ID 143639
08	Curved sliding doors ID 135772
09	Revolving doors ID 132050
10	Actuation devices and sensors ID 142655
Smoke and heat extraction and window technology	
11	Fanlight opening systems ID 127787
12	Electric opening and locking systems ID 127785, ID 127789
13	Electrical spindle and linear drives ID 127785, ID 127789
14	Electric chain drives ID 127785, ID 127789
15	Smoke and heat extraction systems ID 127785, ID 139075
Safety technology	
16	Emergency exit systems ID 132408
17	Access control systems ID 132158
18	Panic locks ID 132848
19	Electric strikes ID 148666
20	Building management system ID 132408
Glass systems	
21	Manual sliding wall systems (MSW) ID 104377
22	Integrated all-glass systems (IGG) ID 104366

POTENTIAL APPLICATIONS OF GEZE PRODUCTS

Door technology

The functionality, superior performance and reliability of GEZE door closers are impressive. A common design across the range, the ability to use them on all common door leaf widths and weights, and the fact that they can be individually adjusted makes their selection simple. They are continually being improved and enhanced with up-to-date features. For example, the requirements of fire protection and accessibility are fulfilled with a door closer system.

Automatic door systems

GEZE automatic door systems open up a huge variety of options in door design. The latest, innovative high-performance drive technology, safety, ease of accessibility and first class universal drive design set them apart. GEZE offers complete solutions for individual requirements.

Smoke and heat extraction and window technology

GEZE smoke and heat extraction systems and ventilation technology provide complete systems solutions combining the many requirements of different types of windows. We supply a full range from energy efficient drive systems to natural ventilation and complete solutions for supplying and extracting air, also as certified SHEVs.

Safety technology

GEZE safety technology sets the standards where preventative fire protection, access control and anti-theft security in emergency exits are concerned. For each of these objectives GEZE offers tailored solutions, which combine the individual safety requirements in one intelligent system and close doors and windows in case of danger in a coordinated manner.

Building systems

In GEZE's Building Management System GEZE door, window and safety products can be integrated in to the security and control systems of the building. A central control and visualisation system monitors various automation components in the building and offers security through many different networking capabilities.

Glass systems

GEZE glass systems stand for open and transparent interior design. They can either blend discreetly into the architecture of the building or stand out as an accentuated feature. GEZE offers a wide variety of technologies for functional, reliable and aesthetic sliding wall or sliding door systems providing security with lots of design scope.