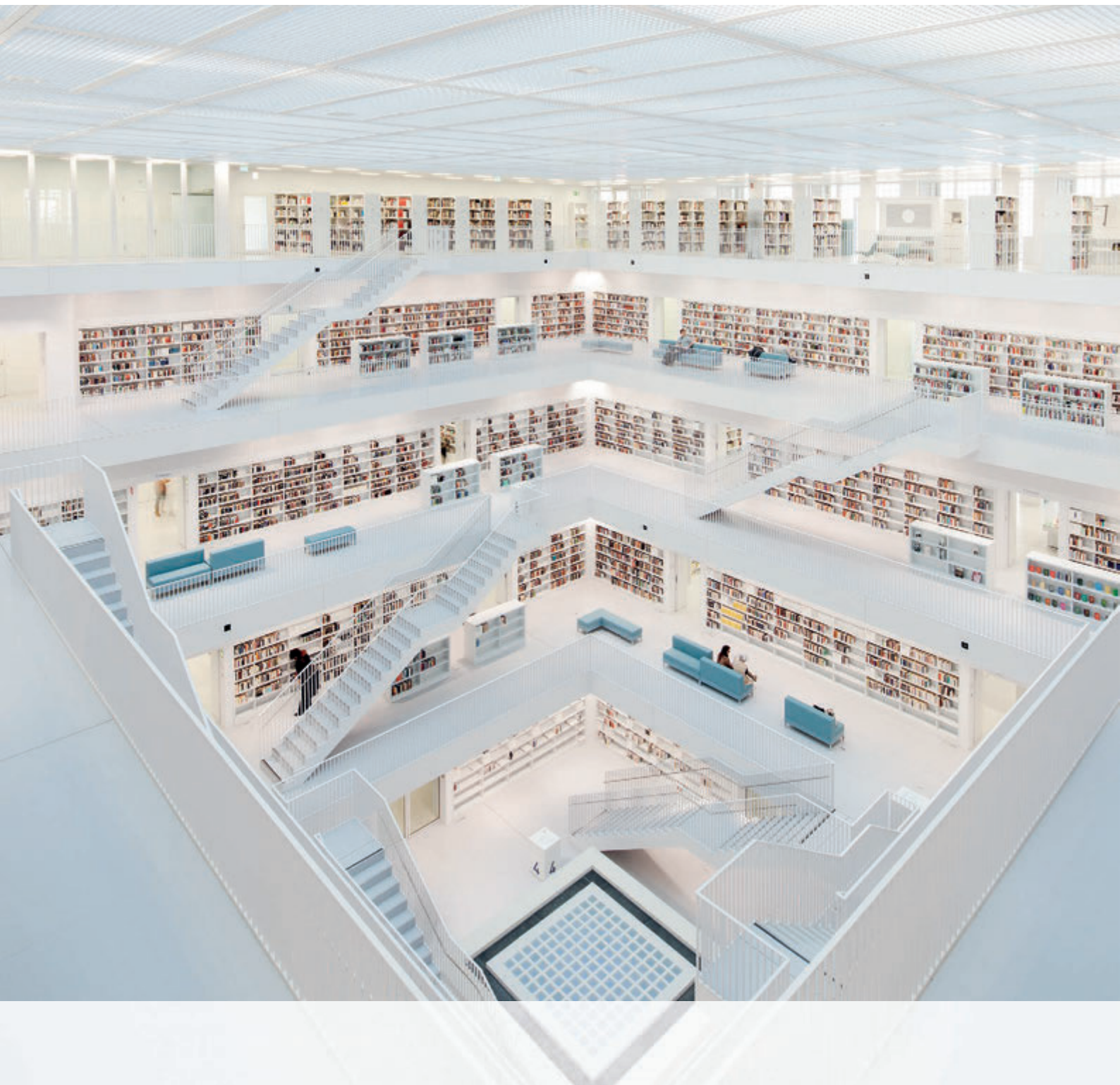




GEZE PRODUCT OVERVIEW
FOR DOOR, WINDOW AND SAFETY TECHNOLOGY



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GEZE - A Tradition of Innovation

Quality “Made in Germany”

GEZE GmbH is numbered amongst the world’s most successful suppliers of systems for door, window and security engineering. As one of the market leaders in innovation and design, the company, which was established in Stuttgart in 1863, develops, produces and distributes top quality technology that has had a major influence on building management systems. The products undergo ongoing further development in the company’s own technology centre.

GEZE stands for quality “Made in Germany”. Around the world. Which is why GEZE products are manufactured and installed at all its locations in accordance with German quality standards. But the quality mark stands for much more. At GEZE, it is confirmed through innovations and a focus on the future, which are systematically supported and promoted. And this isn’t just reflected in the technology but also in terms of intelligent functionality, sustainability and unique design.

GEZE products and system solutions constantly undergo internal and external monitoring and have been awarded various internationally recognised approvals, test certificates and quality marks by both national and international institutes. These guarantee the high GEZE quality, not just in Germany but around the world.

In step, locally and globally

GEZE’s headquarters have been in Leonberg, close to Stuttgart, since 1959, where over 900 highly qualified employees use knowledge and skills in the company’s own technology centre and state-of-the-art manufacturing plant. They work together using corporate know-how to create innovative and ground-breaking products. Leonberg and Germany will continue to provide the central development and manufacturing facilities going forward. GEZE also has production locations in China and Serbia, in order to be able to deliver to their customers around the world, in as timely a manner as possible. With 31 subsidiary companies and an extensive network of agents, GEZE is represented worldwide.

GEZE locations

Asia-Pacific, Austria, Benelux, Brazil, China, Czech Republic, Croatia, France, Germany, Hungary, Iberia, India, Italy, Middle East, Poland, Romania, Russia, Scandinavia, Serbia, Slovenia, South Africa, Switzerland, Turkey, Ukraine and United Kingdom





Accessibility, Safety, Comfort, Design

Whether in residential care homes, facilities for the disabled, hospitals or airports, the topic of accessibility in public buildings is here to stay. At the same time, reliable safety systems for personal protection and fire detection are essential in buildings where many people congregate together. GEZE creates accessible and comfortable solutions in combination with tailored standard solutions. And these are system-solutions, as the different GEZE components can be combined with each other as required.

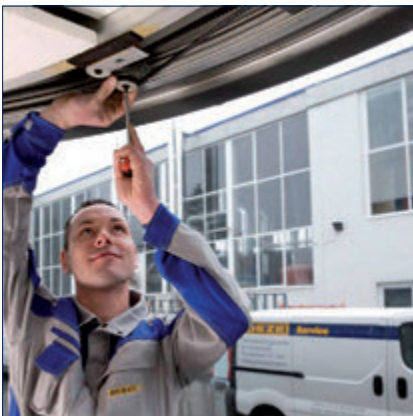
As well as safety and comfort, the look of the utilised technology plays a decisive role for architects and planners. With its new developments, GEZE is continually making moves towards creating an unobtrusive, low-key design - always with the goal of integrating intelligent technology attractively and discreetly into buildings.



Sustainability

Working for the long-term has always been the GEZE way. As a family business, our focus is on achieving stable, long-lasting returns rather than short-term profit-maximisation. In order to secure our innovation power, we set great store on continuously developing the potential of our staff. They are the basis for the long-term success of the company, which helps to maintain jobs and to create new ones around the world. Global corporate activity also means global corporate responsibility. The company places the highest priority on continuously improving the ecology of our products and manufacturing facilities as well as on the responsible use of natural resources. From product development and production through to sales, GEZE works according to the latest environmental standards. Our QM system has ISO 9001 certification.

In addition to this, GEZE products meet the DGNB and LEED criteria for sustainable buildings. The DGNB Certificate recognised in Germany or the international LEED Certificate (Leadership in Energy and Environmental Design) are amongst the most important indicators of the sustainability of a building.



GEZE Services

Reliable, competent and highly efficient customer service is one of our most important objectives when it comes to customer satisfaction. And this is why GEZE has a range of offerings for the service and maintenance of its own and third-party products. The regular servicing and qualified maintenance of automatic systems are essential to ensuring long-term personal and operational safety.

With GEZE Building Management, architects, specialist planners, general construction contractors and property developers benefit from targeted consultancy and a wide spectrum of related services. Our support starts with the draft planning and extends through to the completion of the building and beyond. We deliver detailed product information and coordinate the interfaces between the individual disciplines. This doesn't just save our customers money. It saves them time as well. In addition, we also offer an extensive programme of seminars, which give our customers the opportunity to find out about GEZE products, according to their needs.



Standards

GEZE products such as hold-open systems, automatic door systems or smoke and heat extraction systems (RWA), raise the comfort levels within a building. At the same time, they are also elements of a security concept. For this reason, planning and building legislation stipulates high normative requirements for the maintenance and installation staff when working on security-relevant door and window technology, both during installation and during the testing and maintenance of the equipment.

In order to ensure these high levels of qualification and the resulting optimum service, we train over 3000 service engineers every year in more than ten different specialist areas. They receive a GEZE certificate, which is valid for four years. As well as subjects such as general official building approvals for hold-open systems or regional and special building codes, the GEZE training plan also includes standards such as DIN 18650 for automatic door systems, the directive for electrical locking systems on escape route doors (ELTVTR) and safety at work.

GEZE Project solutions

Requirements for the successful implementation of larger building projects are comprehensive planning and complementary products for achieving optimum building functionality. GEZE project solutions meet the highest standards in terms of functionality, quality and design. Products from GEZE can be found in renowned buildings across the whole world.



Project solutions for hotels

Hotels are places for rest and relaxation, for new experiences and for meeting people. The character of the building is a decisive factor for the events and celebrations that are held there. There are particular requirements in respect of the design of the lobby area, the restaurants, the event rooms and the hotel rooms as elements within a holistic security concept.



Project solutions for the health services

In hospitals and residential care homes, the focus is on economic functionality and creating an atmosphere of well-being. GEZE creates tailor-made, property-specific solutions for complete door, window and safety technology and provides a comprehensive range of services. All the requirements specifically related to the health sector are taken into consideration – from „accessibility“ to the applicable laws and regulations.



Project solutions for barrier-free construction

Whether in residential care homes, facilities for the disabled, hospitals, pre-school nurseries or public buildings, the topic of accessibility is here to stay. With an eye permanently on the environmental considerations, GEZE creates barrier-free solutions in combination with tailored security systems.



Project solutions for educational facilities

Pre-school nurseries, schools or universities present particular challenges within a framework of fulfilling important security criteria. GEZE provides support at all phases of the construction project with the implementation of a holistic security concept, through the use of suitable door and window technology.



Project solutions for the building stock

Architecture also has to face up to new challenges. Changes in legislation and guidelines in respect of public buildings, growing demands in terms of functionality and design or town-planning concepts are triggers for the root-and-branch modernisation of existing buildings.



Project solutions for retail and shopping centres

Shop-fronts seem even lighter and more inviting the more discreetly and easily they blend in with the building architecture. GEZE offers an impressive variety of options when it comes to shop design, including of course barrier-free solutions.



Project solutions for railway stations and airports

Railway stations and airports are faced with a myriad of potential risk situations. They call for end-to-end security solutions and the implementation of concepts to optimise the flow of passengers and staff. This means tailored solutions both for the areas open to the public and those only accessible to certain people, e.g. staff areas.



Project solutions for transport technology

Special requirements also have to be taken into account when building manual and automatic doors into means of transport such as cruise ships, trains and commercial vehicles. GEZE contributes to the well-being of passengers with a wide range of specially adapted door closers and automatic revolving and sliding doors. They integrate harmoniously into the passenger areas or the ship's architecture and turn carriages and decks into barrier-free areas.

GEZE offers a broad programme of door solutions for road and rail vehicles and for ships - stable and weather-resistant.



Project solutions for individual concepts and requirements

A building reveals its special character from the moment you walk through the front door. GEZE creates top-quality tailored solutions that combine high levels of convenience and a sophisticated design with the latest technology. Because you only get one chance to make a first impression.

GEZE offers multi-faceted system solutions:

- Corner sliding doors - Every angle between 90° and 270° is possible
- Revolving doors - both eye-catching and a "pivotal point"
- Curved sliding doors - drive design with just 7 cm overall height

Door technology

01	Overhead door closers
02	Hold-open systems
03	Integrated door closers
04	Floor springs and all-glass fittings
05	Sliding fitting systems and linear guides

Automatic door systems

06	Swing doors
07	Sliding, telescopic and folding doors
08	Curved sliding doors
09	Revolving doors
10	Actuation devices and sensors

Smoke and heat extraction and window technology

11	Fanlight opening systems
12	Electric opening and locking systems
13	Electrical spindle and linear drives
14	Electric chain drives
15	Smoke and heat extraction systems

Safety technology

16	Emergency exit systems
17	Access control systems
18	Panic locks
19	Electric strikes
20	Building management system

Glass systems

21	Manual sliding wall systems (MSW)
22	Integrated all-glass systems (IGG)





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.

Overhead door closer with guide rail

Door closers with guide rails for 1 and 2 leaf doors provide modern locking technology at every door. The wide range of GEZE door closer technologies ensures that there is a technical solution for every requirement, for example, with electric hold-open device, with smoke switch control unit or with a „freeswing“ function.

The integrated closing sequence control (ISM) ensures the correct closing sequence of both doors for double-leaf doors. When the door is closed, the active leaf remains in the waiting position until the fixed leaf is closed and releases the active leaf through the closing sequence control. The double-leaf door closer systems of the ISM series offer numerous specific setting options.

Products	
For 1-leaf doors	
TS 1500 G	Door closer with guide rail
TS 3000 V	Door closers up to 1100 mm leaf width
TS 5000 ECLine / TS 5000 L ECLine	Door closers with high access convenience and large closing force
TS 5000 / TS 5000 L	Door closers up to 1400 mm leaf width
TS 5000 E / TS 5000 L-E	Door closer with electric hold-open device
TS 5000 EFS	Door closer with free-swing function
TS 5000 RFS	Door closer with free-swing function and smoke switch control unit
TS 5000 R / TS 5000 L-R	Door closers with smoke switch control unit
For 2-leaf doors	
Version possible with TS 5000 Standard and TS 5000 ECLine	
TS 5000 ISM / TS 5000 L-ISM / TS 5000 L-ISM VPK	Door closers with closing sequence control
TS 5000 ISM-EFS	Door closer with freeswing function
TS 5000 E-ISM / TS 5000 L-E-ISM / TS 5000 L-E-ISM VPK	Door closer with electric hold-open device
TS 5000 R-ISM / TS 5000 L-R-ISM / TS 5000 L-R-ISM VP	Door closers with hold-open device and smoke switch control unit
TS 5000 R-ISM-EFS	Door closer with freeswing function and smoke switch control unit

Application range

- For 1 and 2 leaf single-action doors with a leaf width of up to 1400 mm
- For right and left hung doors
- For fire protection doors (door closer with mounting plate)

Product features

- Accessible in accordance with DIN 18040 up to EN5 (1250 mm leaf width)
- Closing force, back check, hydraulic latching action, delayed closing action and closing speed are adjustable
- Opening assistance integrated/can be deactivated
- Flexible opening restrictor
- Mechanical or electrical hold-open
- Integrated smoke switch control unit
- Integrated mechanical closing sequence control

GEZE TS 5000 ECLine





Augustinum, Stuttgart, Germany (Photo: Dirk Wilhelmy)



Häussler Global Office GmbH, Stuttgart, Germany (Photo: Dirk Wilhelmy)

Overhead door closers with link arm

From the smallest overhead door closer to numerous variants for use with fire and smoke-protection doors: The door closer range with link arm for 1 or 2 leaf doors offers a wide range of combination options. These have a variable adjustable closing force and are suitable for right and left single-action doors without any need for conversion.

The double-leaf door closer systems of the IS series with integrated hydraulic closing sequence control are approved for installation on fire and smoke protection doors. The integrated closing sequence control with protection against wilful damage ensures the correct closing sequence of both doors for double-leaf doors. The closing force according to EN 1154 with optical size indicator and closing speed can be set from the front. The latching action adjustment is made using the link arm.

Products	
For 1-leaf doors	
TS 1000 C	Door closer with adjustable closing speed up to 950 mm leaf width
TS 1500	Door closer with adjustable closing speed up to 1100 mm leaf width
TS 2000 NV	Door closer with variable closing force up to 1100 mm leaf width
TS 2000 V	Door closer with variable closing force up to 1250 mm leaf width
TS 4000	Door closer with back check
TS 4000 E	Door closer with electric hold-open device
TS 4000 R	Door closer with integrated smoke switch
TS 4000 EFS	Door closer with hold-open device and freeswing arm
TS 4000 RFS	Door closer with freeswing arm and smoke switch control unit
TS 4000 Tandem	Door closer for very large and heavy doors
For 2-leaf doors	
TS 4000 IS	Door closer with integrated closing sequence control
TS 4000 E-IS	Door closer with integrated closing sequence control and electric hold-open device
TS 4000 R-IS	Door closer with closing sequence control, hold-open device and smoke switch control unit

Application range

- For 1 and 2 leaf single-action doors with a leaf width of up to 1600 mm (>1600 mm Tandem)
- For right and left hung doors
- For fire protection doors (door closer with mounting plate)

Product features

- Accessible according to DIN 18040 up to EN4 (1100 mm leaf width)
- Door leaf width max. 1600 mm, > 1600 mm with Tandem version
- Closing force, back check, hydraulic latching action, delayed closing action and closing speed are adjustable
- Mechanical or electrical hold-open
- Integrated smoke switch control unit
- Integrated mechanical closing sequence control

GEZE TS 4000





Sports hall, Zadar, Croatia (Photo: Robert Les)



Sports hall, Zadar, Croatia (Photo: Robert Les)

Integrated door closers - Boxer series

The integrated Boxer door closer for 1 and 2 leaf doors is completely built into the door leaf and frame. The guide rail can only be seen when the door is open. The closing force is in accordance with DIN EN 1154, the closing speed, the hydraulic latching action and the hydraulic back check can be adjusted conveniently from above when installed. An additional suitability certificate is required with the door in the case of fire protection doors.

The Boxer ISM system is designed for double-leaf doors and has an integrated mechanical closing sequence control. This ensures that the active leaf always closes after the fixed leaf. When closing the active leaf whilst both doors are open, it remains in its waiting position until the fixed leaf is closed and releases the active leaf via the closing sequence control. The system can be used for active leaf types DIN left or right without conversion. In addition, the closing sequence control of the ISM rail is extremely resistant to vandalism, i.e. the system is not damaged even if the active leaf is pushed intentionally out of the waiting position.

Products

For 1-leaf doors

Boxer 2-4, 2-4 2V, 3-6	Integrated door closer for 1-leaf doors
Boxer E	Integrated door closer with electric hold-open device
Boxer EFS	Integrated door closer with electric free-swing function
Boxer P	Integrated door closer for double-action doors

For 2-leaf doors

Boxer ISM	Integrated door closer with integrated closing sequence control
Boxer E-ISM	Integrated door closer with electric hold-open device
Boxer ISM-EFS	Integrated door closer with freeswing function

Application range

- For 1 and 2 leaf single-action doors with a leaf width of up to 1400 mm
- For 1-leaf double-action doors with leaf width up to 1100 mm
- Leaf weights of up to 180 kg
- Opening angle up to 120°
- For right and left hung doors
- For fire protection doors (suitability certificate required)

Product features

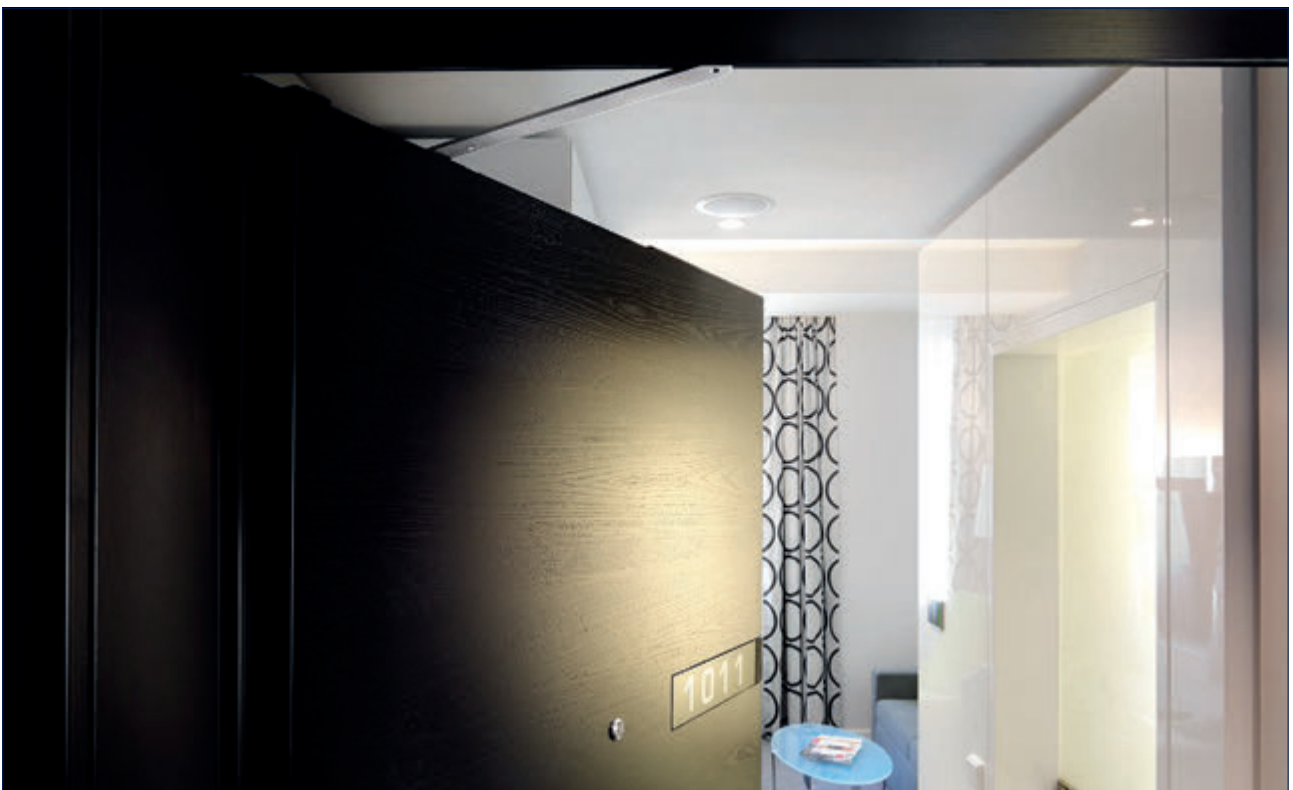
- Boxer 2-4 2V with additional latching action / end brake function
- Accessible according to DIN 18040 up to EN4 (1100 mm leaf width)
- Closing force, back check, latching action and closing speed are adjustable
- Mechanical or electrical hold-open
- Electric hold-open for freeswing
- Integrated mechanical closing sequence control
- Flexible opening restrictor
- Safety valve against wilful damage
- Valve control for regulating the latching action speed

GEZE Boxer





Vitra Haus, Weil am Rhein, Germany (Photo: Oliver Look)



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

Floor Springs

Floor-mounted door closers ensure convenience with all current 1 and 2 leaf double action and single-action doors. The product range includes systems for light and heavy leaf weights as well as door closers for use on fire and smoke-protection doors.

The floor springs for double-leaf doors are equipped with integrated closing sequence control according to EN 1158 or with an additional electric hold-open device. Optically subtle, multi-faceted and with concealed functionality, these are ideal for use with tall glass doors set in elegant sales rooms, hall doors or portals. This offers design freedom, particularly for doors without hinges or doors where only floor-mounted door closers can be used, for example, curved or all-glass doors.

Products	
For 1-leaf doors	
TS 500 NV / TS 500 N EN 3	Floor springs for doors up to 1100 mm
TS 550 NV	Floor spring for frequently used and heavy doors
TS 550 NV F	Floor spring for fire and smoke-protection doors
TS 550 NV E	Floor spring with electric hold-open device
TS 550 E-G / TS 550 F-G	Floor springs with lever and guide rail
For 2-leaf doors	
TS 550 IS	Floor spring with integrated closing sequence control
TS 550 E-IS	Door closer with integrated closing sequence control and electric hold-open device
TS 550 IS-G / TS 550 E-IS-G	Floor springs with integrated closing sequence control, lever and guide rail

Application range

- For 1 and 2 leaf single-action doors with a leaf width of up to 1400 mm
- Suitable for double-action doors
- For right and left hung doors
- Leaf weights of up to 300 kg
- Opening angle up to 180°

Product features

- Closing force, hydraulic latching action and closing speed are adjustable
- Fixed opening buffer
- Mechanical or electrical hold-open
- Integrated mechanical closing sequence control
- Safety valve against wilful damage
- Thermo-control valves

GEZE TS 550 NV





Vector, Stuttgart, Germany (Photo: Dirk Wilhelmy)



GEZE Entrance gate (Photo: Foto Line L. Filoglou)

Roller guided sliding fitting systems

GEZE offers the widest range of fitting solutions for functional and visually appealing sliding door systems, room partitions or other moving elements with wood, plastic, metal or glass leaves. These facilitate considerable design freedom and planning flexibility. Demanding technologies, high-quality materials and first-class workmanship move the roller carriages precisely, gently and quietly over the track and make the fitting system extremely durable with a long life. GEZE draw-in damping ensures comfort and security. The door is braked gently and returns to the zero position of its own accord. The gentle draw-in to the end position is easy on the door and the fitting and increases their lifetimes.

Products

For single and multi-leaf doors

Apoll	Roller guided fitting system for industrial and heavy-duty sliding doors with up to 600 kg leaf weight
Rollan 40 N / Rollan 80	Roller guided fitting system for simple manual sliding door concepts with up to 80 kg leaf weight
Perlan 140	Roller guided fitting system for multi-faceted installation options with individual accessories, up to 140 kg leaf weight GGs: All-glass fitting made of stainless steel, fixed panel, Duosync: moves 2-leaf sliding doors synchronously, Teleskop, KS: with corrosion-protection class 4, system for sliding shutters
Perlan AUT 2	Kit for the automation of Perlan sliding doors with up to 120 kg leaf weight
Perlan AUT-NT	Kit for the automation of Perlan sliding doors with up to 80 kg leaf weight, low-energy sliding door drive Compliant with DIN 18650
Levolan 60	Sophisticated universal fitting for all types of leaves up to 60 kg
Levolan 120	Design fitting for all-glass and wooden sliding doors with up to 120 kg leaf weight

Application range

- For single and multi-leaf doors, indoors and outdoors
- For leaf weights up to 600 kg
- For synchronous, telescopic and automatic doors
- For wooden, plastic, metal and glass doors
- For wall, ceiling and glass attachment
- For homes and offices
- For room, wardrobe and cupboard doors
- As partitioning and as screening
- Outdoor shading systems

Product features

- With single or double-sided draw-in damping
- Simple installation and operation
- Smooth-running roller carriage
- Suitable for new builds and retro-fitting
- TÜV certification (German Association for Technical Inspection) in accordance with DIN EN 1527

GEZE Levolan 120





Installation situation, Residential building (Photo: GEZE GmbH)



Installation situation, Restaurant (Photo: GEZE GmbH)

Swing Door Systems

Automatic swing door systems from GEZE make going through a door easier wherever manual operation is too complex or difficult. The outstanding features of the systems include reliability and safety, as well as a clear and modern design line. The electro-mechanical ECTurn drive enables doors in barrier-free interiors to be opened and closed gently and conveniently. Thanks to the glass guide rail available as an accessory, the ECTurn can also be used on glass doors. The ECTurn Inside combines accessibility and security with optimum door design. It automatically opens and closes doors „not visibly“. Thanks to their uniquely small overall height of only 7 cm, the drives in the Slimdrive range can be concealed-fitted into any building architecture. The electro-hydraulic TSA range is first choice for doors with high traffic numbers. Durability and strength characterise this range. The new electro-mechanical swing door drive Powerturn is also only 7 cm high and combines barrier-free convenience, functional diversity and creative freedom with an outstanding design. It even opens large and heavy single and double-leaf doors easily and safely. The Smart swing function makes manual door opening effortless.

Products

For 1-leaf doors

ECTurn	Electro-mechanical swing door drive for barrier-free internal doors up to 125 kg leaf weight
ECTurn Inside	Electro-mechanical swing door drive that can be integrated into the door leaf (min. leaf width of 55 mm) or the door frame - for barrier-free internal doors up to 125 kg leaf weight

For 1 and 2 leaf doors

Slimdrive EMD	Electro-mechanical swing door drive with ultra-low overall height (7 cm) and clear design lines for internal and external doors up to 230 kg leaf weight
TSA 160 NT	Electro-mechanical swing door drive for large and heavy doors (up to 310 kg), for interior and exterior usage. Particularly suited for doors with high traffic numbers
Powerturn	Electro-mechanical swing door drive with ultra-low overall height (7 cm) for large and heavy doors up to 600 kg (fire protection doors up to 300 kg). Flexible system component. Smart swing function for easy manual passage. Closing spring up to EN 7 for extra-wide fire protection doors (up to 1600 mm). Has an Environmental Product Declaration (EPD).

Variants

F	Swing door systems for fire and smoke protection doors
F/R	Swing door systems for fire and smoke doors with integrated smoke switch
IS	Swing door systems with integrated closing sequence control
F-IS	Swing door systems with integrated closing sequence control for double-leaf fire and smoke protection doors
IS/TS	Swing door systems with integrated closing sequence control for double-leaf doors, automatic doors and door closer function
Invers	Swing door systems for RWA fresh air supply as well as doors in emergency exit routes
EN7	Swing door systems for large and heavy and highly frequented doors

Application range

- For 1 and 2 leaf doors, indoors and outdoors
- For barrier-free internal doors, can also be integrated in the door leaf or door frame
- For right and left hung doors
- For fire protection doors
- Installation on the hinge side or opposite hinge side with link arm or guide rail
- For doors with high public usage
- For full-glass doors

Product features

- Leaf weights up to 310 kg, leaf widths up to 1600 mm
- Opening and closing speed can be adjusted
- Electrical or mechanical closing sequence control, obstruction detection, automatic reversing if an obstruction is detected, vestibule function
- Functions: Automatic, Push & Go, Low-energy mode, Smart swing function, Servo

GEZE Powerturn





Vitra Haus, Weil am Rhein, Germany (Photo: Oliver Look)



Installation situation (Photo: GEZE GmbH)

Sliding, telescopic and folding door systems

Automatic sliding doors are space-saving, elegant and contemporary. Glass sliding doors are ideal when it comes to making good use of daylight and where optical criteria have to be fulfilled. Automatic sliding doors from GEZE can be used to implement the widest range of application requirements within a building.

The variants in the Slimdrive series with an overall height of only 7 cm blend perfectly into any building's architecture and offer a wide range of application possibilities.

ECdrive operators are economical and extremely reliable in their functionality. Powerdrive operators are real power packs and are capable of moving heavy doors conveniently and safely.

Products	
For 1 and 2 leaf doors (SF for 2 and 4 leaf doors)	
Slimdrive	Drive system for automatic linear sliding doors with an exceptionally low overall height (7 cm) and a clear design line, for doors up to 125 kg leaf weight
ECdrive	Drive system for linear sliding doors with high movement cycles, for doors up to 120 kg leaf weight
Powerdrive	Drive system for automatic linear sliding doors with large heavy leaves up to 200 kg leaf weight
Variants	
FR	Redundant sliding doors for emergency exit routes
FR-RWS	Redundant sliding doors for locked emergency exit routes
FR-LL	Redundant sliding doors for emergency exit routes with locked shop closing function
FR-DUO	Redundant sliding doors for emergency exit routes in both directions
CO48	Sliding doors for emergency exit routes according to CO48 (France)
SL-BO	Sliding doors for emergency exit routes with break-out function
SL-RC2	Sliding doors with burglary resistance in accordance with resistance class 2
SL-RD	Smoke-proof sliding doors
SL-T30	Fire protection doors with resistance class T30
SLT	Telescopic sliding door for 2 and 4 leaf door systems
SF	Folding doors
SLV	Corner sliding doors
SL angled	Angled sliding doors

Application range

- For 1, 2 and 4 leaf doors, indoors and outdoors
- For escape and rescue routes
- For doors with high public usage
- Fitting versions: ISO glass fine-framed, MONO glass fine-framed, ESG clamp fitting fine-framed, all-glass system (GGS), integrated all-glass system (IGG), stainless steel and on-site leaves

Product features

- Leaf weights up to 200 kg, opening widths up to 3000 mm
- Opening and closing speed can be adjusted
- Functions: Automatic adaptation to traffic flow, automatic reversal when an obstacle is detected, pharmacy opening, air sluice function, vestibule function, automatic opening or closing in the case of a power failure



Modern Art, Oxford, Great Britain (Photo: GEZE GmbH)



Akbatı, Istanbul, Turkey (Photo: Tarık Kaan Muşlu)

Curved sliding door systems

Curved sliding door systems are both functional and design elements. Even with small outer dimensions they create enormous space for people to pass through. The door systems can have a convex or a concave shape and can be connected to the building in many different ways. With an overall height of just 7 cm, the Slimdrive operator is ideally suited for glass façades in slim post/rail construction. Fine-framed moving leaves and side parts support the light, transparent look.

Products	
Slimdrive SC	Drive for curved sliding doors, can be used as a vestibule in combination with linear sliding doors
Slimdrive SCR	360° drive solution for circular sliding doors
Variants	
FR	Approved for use in escape and rescue routes, type-tested and certified according to DIN 18650
GG5	Variant of the automated all-glass curved sliding doors with the all-glass fitting system GGS and glass roof
RC2	Variant with burglary resistance in accordance with resistance class 2

Application range

- Prestigious buildings
- Internal and external doors
- For escape and rescue routes
- For use in areas with a high through-traffic volume
- Fitting versions: 10 mm VSG, 10 mm ESG H with GGS fitting system (GG5 version), special glass on request

Product features

- Barrier-free drives that integrate particularly well into post-rail structures
- Leaf weights up to 120 kg, opening widths SC up to 3000 mm, opening widths SCR up to 2500 mm
- Clear passage height up to 3000 mm (higher on request)
- Opening and closing speed can be adjusted
- High performance capabilities with a low construction height of just 7 cm
- Very high passage space in spite of small external dimensions
- Drive for curved sliding doors, can be used as a vestibule in combination with linear sliding doors
- Two-motor technology to ensure the highest level of safety
- Safeguarded automatic opening of the door in the event of a fault or a power failure thanks to the redundant control of the drive
- Can be used in combination with the GEZE SecuLogic access control system and building technology management system



Lufthansa, Cologne, Germany (Photo: Lothar Wels)



Beaufort House, London, UK (Photo: Michael Molloy)

Revolving door systems

The TSA 325 NT drive is individual in terms of diameter, height and canopy height. It is the focal point in modern façade design, particularly with large and prestigious buildings. The use of different materials for door leaf and drum walls offers a wide range of design options. The revolving door can withstand heavy loads making it the ideal solution where there are high numbers of visitors. Thanks to its high insulation effects providing protection against the weather, it also saves energy and creates a good, balanced room climate.

Product	
TSA 325 NT	Standard drive for the manual or automatic operation of revolving door systems as a 3 or 4 leaf version
Variants	
BO	Break-out function for use in escape and rescue routes
GG	All-glass revolving door system for the highest transparency
RC2	Variant with burglary resistance in accordance with resistance class 2

Application range

- Prestigious entrance with an outstanding look
- For escape and rescue routes
- For use in areas with a high through-traffic volume
- Fitting versions: 10 mm for drum walls, 8/10 mm ESG for turnstile, special glass on request

Product features

- Manual or fully automatic operation
- For 3 or 4 leaf door systems
- Possible internal diameter from 1800 to 3600 mm, with GG up to 3000 mm, with RC2 from 2500 to 3400 mm
- Clear passage height up to 3000 mm, (higher on request)
- Speed limiter and automatic positioning device and servo are optional
- Break-out function for emergency exit routes
- High insulation effect against draughts, weather and noise
- Emphasis on transparency with the glass roof variant
- High-quality materials and state-of-the-art control technology guarantee high efficiency
- Simple installation through high levels of pre-fabrication before delivery
- Simple and efficient parameterisation and maintenance with the GEZEconnects software



Vitra Haus, Weil am Rhein, Germany (Photo: Oliver Look)



Flight Forum, Eindhoven, The Netherlands (Photo: Erwin Kamphuis)

Actuation devices and sensors

The choice of the appropriate control element is of considerable importance to ensure the reliable operation of an automatic door. The GEZE control elements product range offers the optimum variant for every door situation. The GEZE control elements control and safeguard all GEZE products in compliance with international standards. A single-source-supplier enabling complete solutions designed to meet individual requirements.

Products	
Activation	
Radar movement detectors	For activating automatic doors: GC 302 R, GC 302 SV, GC 304 R, GC 304 SF
AIR movement detectors	For activating and safeguarding automatic doors: AIR 12 Cleanscan, AIR 20
Wireless programmes	For the wireless control of doors and windows: radio transmitters, plastic elbow switches, metallic elbow switches, vent switches, radio receivers
Mechanical push buttons	For the opening and closing of automatic doors
Sensor push buttons	Capacitive LED sensor push button with IP class 69K in standard and glass showcase
Switches	For activating automatic doors: pull switches
Presence detectors	
Light barriers	For safeguarding automatic sliding doors: GZ 470 V, GZ 472 V (According to DIN 186050 / EN 16005 light barriers may not be used as sole safeguarding element)
Safety sensors	For safeguarding automatic swing doors and revolving doors: GC 335, GC 338 Optional: Sensor roller guide rail GC GR
Ultrasonic	For safeguarding automatic circular sliding doors
AIR light curtains	For safeguarding automatic sliding doors and revolving doors: GC 341, GC 339, GC 333 C
Combined detectors	
GC 365, GC 363 R, GC 363 SF	For activating and safeguarding automatic doors
Programme switches	
Programme switches	For changing the mode of operation of automatic door systems: manual programme switch MPS, keypad programme switch TPS, display programme switch DPS
Key push buttons	For authorised release of programme switches when changing operating modes
Main/safety switches	For switching off mains voltage and the emergency opening of automatic doors
Smoke switches and control units	
Smoke switches and control units	As an early smoke warning system or for controlling hold-open systems on fire and smoke protection doors

Application range

- Safeguarding and actuation of automatic doors

Product features

- GEZE control elements offer the optimum control element for every door situation
- Safeguarding and control of all GEZE products in compliance with international standards
- Single-source-supplier for individual requirements

GEZE GC 338





Z-UP, Stuttgart, Germany (Photo: Nikolaus Grünwald)



Radisson Blue Hotel, Uppsala, Sweden (Photo: Truls Busch-Christensen)

Fanlight opener systems

The manual window opening systems are used for convenient day-to-day ventilation. GEZE slimline scissors open fanlights with opening widths up to 320 mm. The range of applications includes rectangular, inward-opening bottom-hung or top-hung casements and outward-opening top-hung windows. Solutions are also available for special shapes, e.g. angular, triangular, round and segmental arch windows. GEZE fanlight opening systems are characterised by their ease of operation and installation.

Products	
OL 90 N	Surface-mounted slimline fanlight opener with an opening width of 170 mm, suitable for leaf weights of up to 80 kg OL 90 N top-hung casement, outward opening: with burglar resistant locking (SKG certified) OL 90 N for special shapes, e.g. angular, triangular, round and segmental arch windows
OL 95	Surface-mounted slimline fanlight opener with an opening width of 220 mm, suitable for leaf weights of up to 60 kg
OL 320	Surface-mounted slimline fanlight opener with an opening width of 320 mm, suitable for leaf weights of up to 250 kg

Application range

- For convenient day-to-day ventilation
- For vertically installed window casements made of wood, plastic or metal
- For rectangular, angular, triangular, round and segmental arch windows
- For inward-opening and outward-opening windows
- Suitable for installation in post & rail constructions

Product features

- Large variant diversity
- Slimline scissors open fanlights with opening widths up to 320 mm
- Leaf weights of up to 250 kg
- Adjustable opening width (stroke reduction)
- Casement lock integrated in the scissor stay
- Scissor stay unhooked by release button
- Burglary resisting lock (SKG)
- Lockable
- Unhinging inhibitor

GEZE OL 320





Killesberg, Stuttgart, Germany (Photo: N. Grünwald)



Ecksberg Foundation, Mühlendorf, Germany (Photo: Robert Sprang)

Cranked turn and tilt hardware system

The F 1200 cranked turn and tilt hardware system is suitable for use with large and heavy windows. It fulfils special requirements in terms of robustness and stability as well as demands for up-market living comfort.

Product	
F 1200	Cranked turn and tilt hardware system for large and heavy windows with an opening width of 180 mm, suitable for leaf weights of up to 200 kg

Application range

- For comfortable day-to-day ventilation with large and heavy windows
- Suitable for rectangular, inward opening windows

Product features

- Cranked turn and tilt hardware with an opening width up to 180 mm
- Leaf weights of up to 200 kg
- Fulfils special robustness and stability requirements
- Continuously adjustable ventilation – from the gap ventilation to the tilted end position
- Functional safety due to weight-independent crank handle actuation with control display
- Additional protection against incorrect operation and overload friction coupling
- Secure locking due to the arrangement of virtually any number of bolt positions on all 4 sides
- Arrangement of all fitting parts on the inner casement shell
- Requires low operating strengths
- Lockable

GEZE F 1200





Europa Center, Berlin, Germany (Photo: MM Fotowerbung)

Chain drives

The chain drives are designed for vertically installed, rectangular bottom, top and side hung and horizontally as well as vertically pivoted windows. They are suitable for day-to-day room ventilation, for smoke and heat extraction systems (RWA) and as natural smoke and heat exhaust ventilation (SHEV). The drives are positioned parallel to the window and, depending on the colouring chosen, match well to the window architecture. They have a special chain which can transmit both pulling and pushing forces. When closed the chain is concealed in the drive housing.

Products	
ECchain	Chain drive, 230V version for the simple automation of ventilation operations, an inexpensive and powerful entry-level model which is specifically designed for private apartments and homes
E 740	Chain drive, 230V version for everyday window and façade ventilation operations
Slimchain	All-purpose, attractively designed chain drive for ventilation and smoke and heat extraction modes
Powerchain	Powerful chain drive for large and heavy window units, in ventilation or smoke and heat extraction mode

Application range

- Natural ventilation
- Smoke and heat extraction system (RWA)
- Natural smoke and heat exhaust ventilator (SHEV)
- Façade or roof installation
- Suitable for bottom-hung, side hung, top-hung, pivot-hung or skylight casements
- For inward-opening and outward-opening windows
- Can be mounted on a frame or a casement or it can be integrated
- System solution in combination with the locking drive Power lock or E 905/E 906

Product features

- Chain drives are available with stroke lengths of 200 - 1200 mm and are suitable for solo and synchronous operation
- ECchain: Integrated stroke adjustment to 200 mm or 400 mm, ease of installation through all-purpose fixtures and brackets for standard profile systems, available in various colour variants
- E 740: Very easy to use thanks to variable stroke adjustment via a rotary switch. Quick installation from the front. Solo version provided for stand-alone use, Syncro version for the synchronised operation of up to four drives
- Slimchain/Powerchain: Continuously adjustable drive stroke and individual speeds for ventilation and RWA mode, integrated synchro-module for synchronising max. 3 drives without external control unit, DIP switches for changing the operating mode (solo/synchro, master/slave), connection to GEZE RWA control units

GEZE Slimchain





Installation situation (Photo: GEZE GmbH)



Installation situation (Photo: GEZE GmbH)

Spindle drives

RWA electrical spindle drives are an electrical motor-driven solution, suitable for the opening and closing of bottom-hung, top-hung and side-hung windows, skylights and light domes. They are suitable for day-to-day room ventilation, for smoke and heat extraction systems (RWA) and as natural smoke and heat exhaust ventilation (SHEV).

Products	
E 250 NT	Compact design spindle drive with large range of uses for the direct opening of heavy and wide windows with tensile and pressure force of 750 N
E 350 N	Spindle drive in 230 V version in compact design with large application range for the direct opening of heavy and wide windows with tensile force and force of pressure of 750 N
E 1500 N	RWA spindle drive for heavy window elements, drive with slim dimensions for highest design demands, with tensile and pressure force of 1500 N
E 1500 S	Spindle drive for heavy roof windows with large compressive force and high speed (full stroke in under 60 seconds)
E 3000	Spindle drive for heavy roof windows (up to 600 kg) with tensile and pressure force of 3000 N

Application range

- Natural ventilation
- Smoke and heat extraction system (RWA)
- Natural smoke and heat exhaust ventilator (SHEV)
- Façade or roof installation
- Suitable for bottom-hung, side hung, top-hung or skylight casements and louvre windows
- For inward-opening and outward-opening windows
- Can be mounted on a frame or a casement

Product features

- Spindle drives are available with stroke lengths of 100 - 1200 mm and suitable for casement weights up to 600 kg
- Additional security and protection against weather conditions through locking drives
- Suitable for connection to GEZE RWA control units
- Several drives can be synchronised for large casement widths
- Robust, corrosion-resistant version (E 1500 N / S, E 3000)
- E 250 NT: Adjustable stroke length, synchro-function, adjustable opening speed (ventilation), overload cut-off

GEZE E 250 NT





Installation situation (Photo: Foto Line L. Filoglou)



Saarbrücken Station, Germany (Photo: Nikolaus Grünwald)

Locking drives

Along with the holding force of the drive at the locking point, the trend towards larger and larger windows requires an additional locking unit. In this way the performance classes defined in EN 14351-1, especially the wind load, sealing in the event of pelting rain and airtightness can be guaranteed. When installing large windows, an additional locking function should therefore be planned. With the E 905 / E 906 and Power lock operators GEZE offers two locking drives that can be used for operation of additional locking points.

Products	
Power lock	Locking drive in combination with Slimchain, Powerchain or E 250 NT
E 905 / E 906	Locking drive in combination with the GEZE IQ-Windowdrives

Application range

- Natural ventilation
- Smoke and heat extraction system (RWA)
- Natural smoke and heat exhaust ventilator (SHEV)
- Façade installation
- Suitable for bottom-hung, side hung, top-hung, pivot-hung or vertically pivot-hung casements
- For inward-opening windows
- Can be mounted on a frame or a casement (Power lock) or integrated (E 905 / E 906)

Product features

- Additional security and protection against weather conditions
- Can be used with standard central locks
- Suitable for connection to GEZE RWA control units
- Electronic end-position cut-off offers protection against incorrect operation and overloading
- Power lock: Drive design matches the look of the GEZE chain and spindle drives, locking and unlocking in 6 seconds
- E 905 / E 906: System solution for profile-integrated installation in combination the GEZE IQ-Windowdrives

GEZE Power lock





Installation situation (Photo: Foto Line L. Filoglou)

Opening and locking systems

RWA 100 NT, RWA 105 NT and RWA 110 NT are opening and locking systems for façade windows. They are suitable for day-to-day room ventilation, for smoke and heat extraction systems (RWA) and as natural smoke and heat exhaust ventilation (SHEV). Thanks to the mechanical locking it is not necessary to use additional electrical locking drives. The systems consist of a mechanical bracket set combined with the high-quality RWA electric spindle drive E 250 NT.

Systems	
RWA 100 NT OL 350 EN (for 230 V ventilation)	RWA system for inward-opening bottom-hung, top-hung and side-hung windows Combination of an E 250 NT electric spindle drive mounted on the surface of the profile in frame installation and a mechanical bracket set with locking
RWA 105 NT OL 370 EN (for 230 V ventilation)	RWA system for bottom, top and pivot hung windows in post & rail constructions Combination of an E 250 NT electric spindle drive installed in the casement flush to the profile and a mechanical bracket set with double locking mechanism
RWA 110 NT OL 360 EN (for 230 V ventilation)	RWA system for outward-opening bottom-hung, top-hung and side-hung windows Combination of an E 250 NT electric spindle drive installed in the casement flush to the profile and a mechanical bracket set with locking

Application range

- Natural ventilation
- Smoke and heat extraction system (RWA)
- Natural smoke and heat exhaust ventilator (SHEV)
- For exhaust air (as smoke vent (SHEV) or smoke dissipation) or fresh air
- Façade installation
- Suitable for bottom-hung, side hung or top-hung casements
- For inward-opening and outward-opening windows
- Depending on the system, installation on frame or casement

Product features

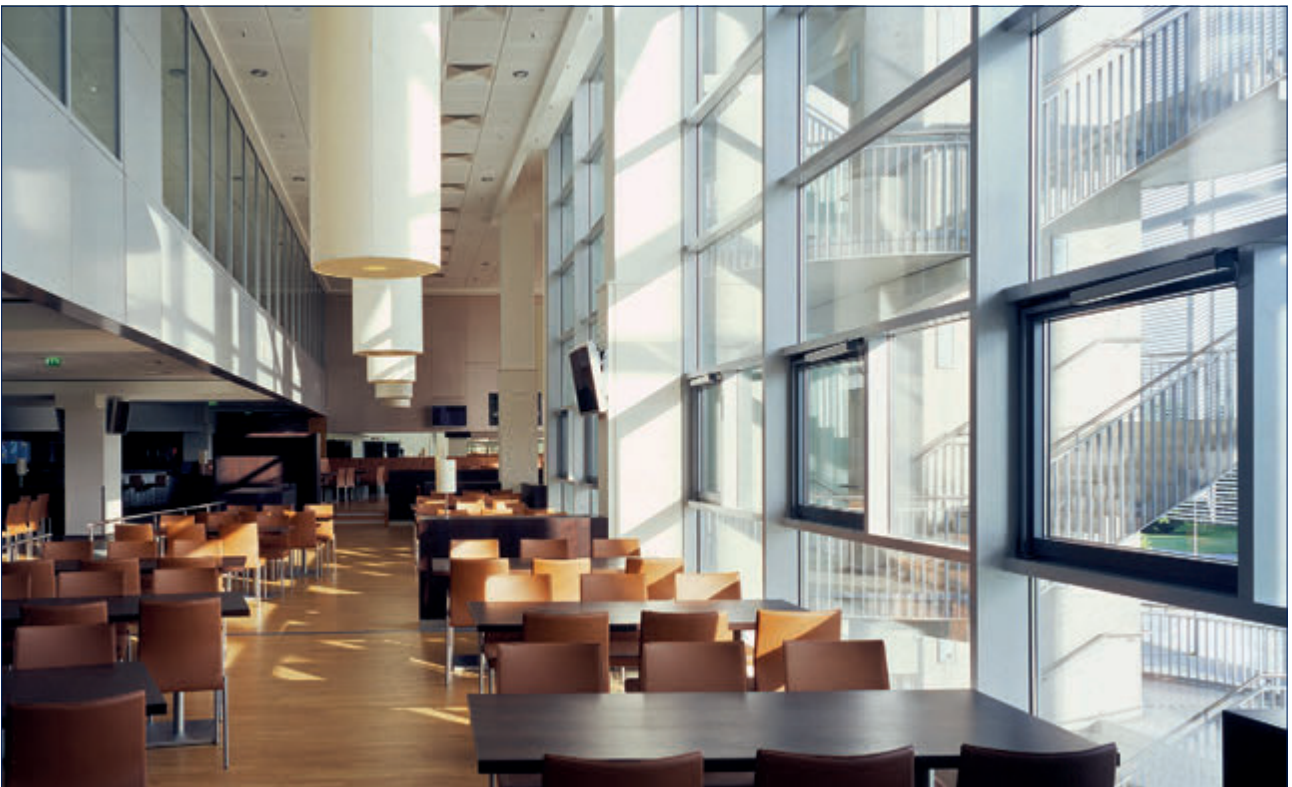
- System consists of mechanical bracket-set and E 250 NT spindle drive
- Large opening widths with small spindle stroke in less than 60 seconds
- Synchronous operation on wide casements by using two systems
- RWA 100 NT: Available in 4 stroke lengths for all standard vertically installed casement types; mechanical locking at the primary closing edge and additional mechanical locking at the secondary closing edge are possible
- RWA 105 NT: Available in 3 stroke lengths for vertically installed, inward-opening casements, 2-way mechanical locking mechanism for protection against burglary and high air-tightness
- RWA 110 NT: Available in 3 stroke lengths for all standard vertically installed casement types; mechanical locking at the primary closing edge

GEZE RWA 100 NT





Installation situation (Photo: GEZE GmbH)



LTU Arena, Düsseldorf, Germany (Photo: MM Fotowerbung)

Electromagnetic RWA system

The GEZE RWA EM „OPEN“ system is a simple solution for opening windows used exclusively for RWA. With a casement width of 300 - 1000 mm (top-hung casement) or 1200 mm (bottom-hung casement) locking is by means of a magnetic primary lock. With a casement width of up to 2000 mm (top-hung casement) or up to 2400 mm (bottom-hung casement) locking is by means of a magnetic primary lock, a connecting link arm and a secondary lock. The magnetic primary lock and mechanical secondary lock keep the window casements securely closed against the pressure of the spring arms and the pressure of the wind. The magnet is continuously supplied with current and keeps the bolt in the closed position against a compression spring (closed-circuit principle). If the power is interrupted in a RWA case by the RWA control unit, the magnetic locking is released and the spring arms push the casements open.

System

RWA EM „OPEN“	Simple solution for opening pure RWA windows
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Application range

- Smoke and heat extraction system (RWA)
- Façade installation location
- Suitable for bottom-hung, side hung or top-hung casements
- For inward-opening and outward-opening windows
- Can be mounted on a frame or a casement

Product features

- Secure locking of the windows through electromagnetic locking
- The magnetic primary lock and mechanical secondary lock keep the window casements securely closed against the pressure of the spring arms and the pressure of the wind
- For casement widths of 300 - 1000 mm (top-hung casements) and 1200 mm (bottom-hung casements) the locking occurs via the magnetic primary lock
- For casement widths up to 2000 mm (top-hung casements) and up to 2400 mm (bottom-hung casements) the locking occurs via a magnetic primary lock, a connecting link arm and a secondary lock
- Retrofitting with minimum effort
- Suitable for connection to GEZE RWA control units



Installation situation (Photo: GEZE GmbH)

Electric linear drives

The GEZE slimline fanlight openers (OL 90 N, OL 95 and OL 320) can be operated electrically in combination with the electric linear drive E 212 and used for ventilation operation. In the case of several heavy windows these represent inexpensive and simple motorised solutions for operating several scissors. The slim design allows discreet adaptation to the appearance of window frontages. The components are completely pre-assembled. Limit switch and drive protection have already been installed and are adjustable. The stroke is also variably adjustable so that the opening width can be regulated on site.

Products

E 212	For the automation of the GEZE fanlight openers (OL 90 N, OL 95, OL 320), 1,500 N tensile pressure force
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Application range

- Natural ventilation
- Smoke and heat extraction system (RWA), only 24 V version
- Façade installation
- Suitable for top-hung casements
- For inward-opening and outward-opening windows
- Installation on the frame

Product features

- Cost-effective and simple motorised solutions for actuating several scissor stays
- The narrow design allows unobtrusive adaptation to the appearance of window frontages
- The components are completely pre-assembled, the limit switch and drive protection are already installed and adjustable
- Stroke variably adjustable so that the opening width can be flexibly controlled on site
- Suitable for connection to GEZE RWA control units, only 24 V version

GEZE E 212





VGH Versicherungen, Hanover, Germany (Photo: Lothar Wels)

Scissor drives

The linear drive in conjunction with slimline fanlight openers is an attractive solution for activating several windows. The system is flexible and can be used for daily aeration and ventilation as well as for safe smoke dissipation via fanlights. The scissor drive E 170 or E 170/2 combines the advantages of OL 90 N and E 212 and supplements these with an attractive appearance and ease of installation. The scissors are in the cover profile. Benefits include an improved design and additional soiling protection. The stroke is variably adjustable so that the opening width can be regulated on site. The 2-scissor version E170/2 also moves wide, heavy casements, conveniently and safely.

Products	
E 170	Linear drive in conjunction with slimline fanlight openers for activating several windows
E 170/2	2-scissor version for wide and heavy casements

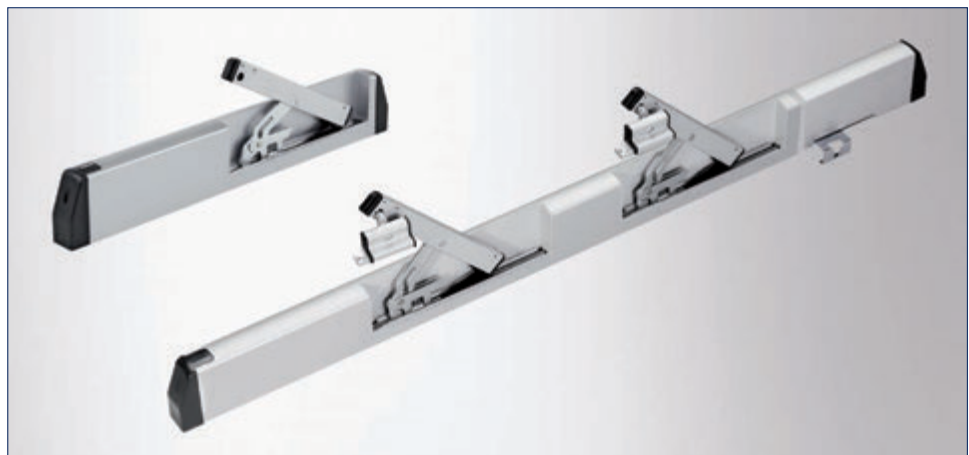
Application range

- Natural ventilation
- Smoke and heat extraction system (RWA), only 24 V version
- For exhaust air (as smoke vent (SHEV) or smoke dissipation) or fresh air, only 24 V version
- Façade installation
- Suitable for top-hung casements
- For inward-opening windows
- Installation on the frame

Product features

- Suitable for connection to GEZE RWA control units, only 24 V version
- Design advantages and additional protection against dirt due to the integration of the scissors in the cover profile
- Stroke variably adjustable so that the opening width can be flexibly controlled on site
- The 2-scissor version E170/2 also moves wide, heavy casements, conveniently and safely

GEZE E 170 und E 170/2





GEZE GmbH, Leonberg, Germany (Photo: Dirk Wilhelmy)

Ventilation systems

Adequately dimensioned fresh air areas are always required for safe, reliable functioning of natural smoke and heat exhaust ventilation. Cold air flows in via the fresh air areas in the lower part of the building so that – due to the stack effect – any existing smoke rises and can be drawn out through the extraction areas in the upper part of the building. GEZE offers a range of several completely coordinated fresh air systems for the interaction between fresh and exhaust air openings.

Systems	
RWA TÖ	RWA control unit in combination with inversely installed door closer
RWA K 600	Retractable arm drive for opening doors and windows
RWA AUT	Automatic opening of the doors in RWA case

Application range

- Natural ventilation
- Smoke and heat extraction system (RWA)
- Natural smoke and heat exhaust ventilator (SHEV)
- For fresh air and smoke extraction (RWA K 600)
- Façade, roof or door installation
- Suitable for doors and windows (RWA K 600)

Product features

- Suitable for connection to GEZE RWA control units
- RWA TÖ: Straightforward system for creating large fresh air areas, triggered by the emergency power control unit the door opens in the RWA case through the force of the inversely installed door closer, in combination with the RWA TÖ system the door can also be used as a smoke extraction opening, in combination with the GEZE emergency exit system (RWS) also possible as emergency exit solution
- RWA K 600: For all-purpose use on the hinge side and opposite hinge side of windows and doors, makes opening angles of more than 90° possible on windows and doors, integrated control makes synchronised multiple operation and closing sequence controls possible without additional module, integrated status contact for the direct connection of a door opener
- RWA AUT: Use for automatically passable doors which, depending on their location in the building, are used as fresh air openings in case of an emergency. The large opening widths of the automatic GEZE doors allows large fresh air areas to be created, the automatic doors are safeguarded in compliance with DIN 18650, guaranteeing convenience and safety, combination with the GEZE emergency exit system (RWS) allows their use on emergency exit doors

GEZE RWA K 600





IKEA, Taastrup, Denmark (photo: Morten Bak)

RWA control units

Emergency power control units make the coordinated actuation and release of fresh and exhaust air openings which are equipped with electromotive drives possible. Activation in the event of a fire is via automatic smoke detector, manual RWA switch or external alarms. By means of vent switch drives at the windows and smoke extraction openings can be controlled for normal ventilation operation. GEZE offers different types and sizes of control units, so that the right solution can be found for every RWA.

Products	
THZ	The staircase control unit - a compact solution for small RWA systems
THZ Comfort	The additional safety and convenience for small RWA systems, e.g. in staircases
E 260 N	Central control units for small to medium-sized RWA solutions
MBZ 300	Modular control unit for the flexible adaptation to building-specific requirements

Application range

- Control of natural smoke and heat extraction systems (SHEV in accordance with EN 12101) or smoke extraction systems (RWA), e.g. in staircases
- Control and emergency power supply for 24 V DC drives in the case of fire
- Controlling of a controlled natural ventilation
- Small, mid-size and complex RWA systems are possible

Product features

- THZ: compact control unit with an understated design, parameterisation options for individual adjustment, 3.4 A output current, e.g. for a fresh and exhaust air solution; 10 smoke or heat detectors, up to 8 RWA buttons and an external alarm signal can be connected
- THZ Comfort: same connection and parameterisation options as the THZ, robust metal housing, also includes a backlit RWA and ventilation button integrated in the housing and a convenient commissioning interface
- E 260 N: tried and tested supply and control of RWAs, depending on the model, up to 8 drive groups, second alarm group possible, 10 - 15 RWA buttons per alarm line and up to 20 smoke or heat detectors
- MBZ 300: modular design and diverse setting options through a PC software enable an RWA control unit for specific buildings or projects, output power 10 A, 24 A, 48 A or 72 A, flexible and expandable to include fire compartments and ventilator groups as well as the linking of several control units

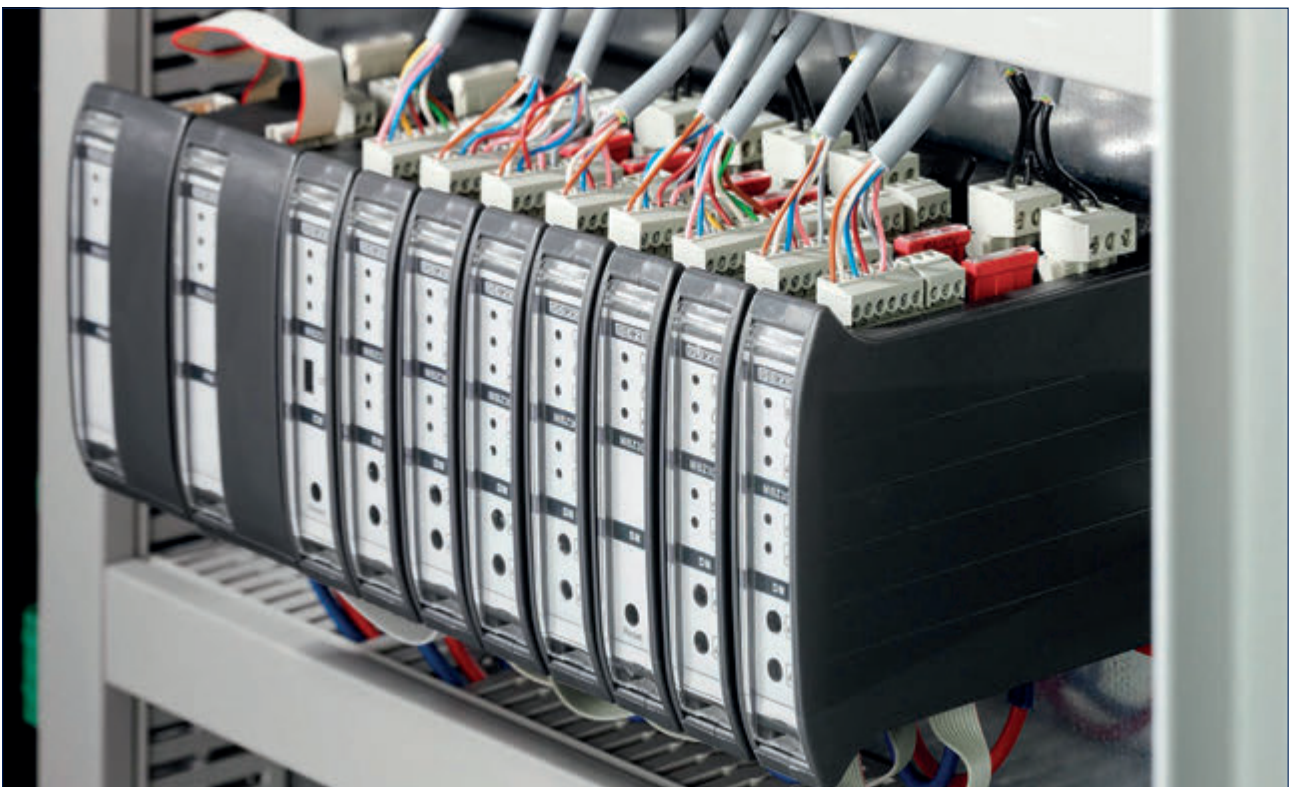
GEZE THZ and THZ Comfort



On the left: THZ, on the right: THZ Comfort



Augustinum, Stuttgart, Germany (Photo: Dirk Wilhelmy)



Installation situation (Photo: GEZE GmbH)

Emergency exit systems

The GEZE SecuLogic emergency exit system is built around the interplay of the various GEZE system components, for example, automatic door drives, door closers, motor locks, emergency door openers, fire and danger alarm systems or access control systems all using TZ 320 the door central unit as the „brain“ of the system. This system lives up to all of the demands made of an extremely modern, reliable and design-oriented system solution. The SecuLogic emergency exit system meets the EltVTR guideline and the European norm prEN 13637.

Products	
TZ 300	Monitoring and controlling individual non-networked doors
TZ 320	Standard Plus solution for monitoring and controlling doors on rescue routes with network function (3 inputs / 2 outputs)
TZ 320 with terminal box KL 220	Comfort solution for monitoring and controlling several emergency exits (7 inputs / 8 outputs)
FTV 320	Escape door lock used to control and monitor doors on escape and rescue routes according to static current principle

Application range

- Control and monitoring of individual electrically locked emergency exit doors, can be networked
- For simple application or smaller buildings as well as complex building structures
- Monitoring of emergency exits with network functions
- Flexible concept for several emergency exit doors - individually tailored as a 3, 2 or 1 box solution
- Suitable for flush or surface mounting

Product features

- TZ 300: low-cost entry-level version with simple installation, safe triggering through large palm-operable impact cover
- TZ 320: numerous inputs and outputs for more functionality, simple assembly due to clearly separated connections, setting of parameters via the ST 220 service terminal, operation via an integrated power supply
- TZ 320 with terminal box KL 220: extended application area thanks to multiple inputs and outputs, can also be installed in the hood of a swing door drive, transmission of alarm messages, open/closed state, door handle operation, bolt extended
- FTV 320: lock for numerous safety applications thanks to its high retention force, secure and immediate unlocking under preload and unlocking in a de-energised state (closed circuit current principle)

GEZE TZ 320



Access control systems

As a compact web-based „all-in-one“ system solution with all door components, for example, the biometric fingerprint reader or the door interface with integration authorisation management system, the GEZE SecuLogic access control system fulfils the demands of modern identification systems. The minimal dimensions of the access control manager and the optimum integration of the ID readers into the building installations offer considerable design freedom with regard to the doors. Whether with fingerprint recognition or a card-based system - the GEZE SecuLogic access control system can be used for a single door or for networked door systems.

Systems	
Basic-Line (standard variant)	Stand-alone system for one reader module Access evaluation unit for one door works without a PC/network connection
Individual-Line	Tailor made solution for any building

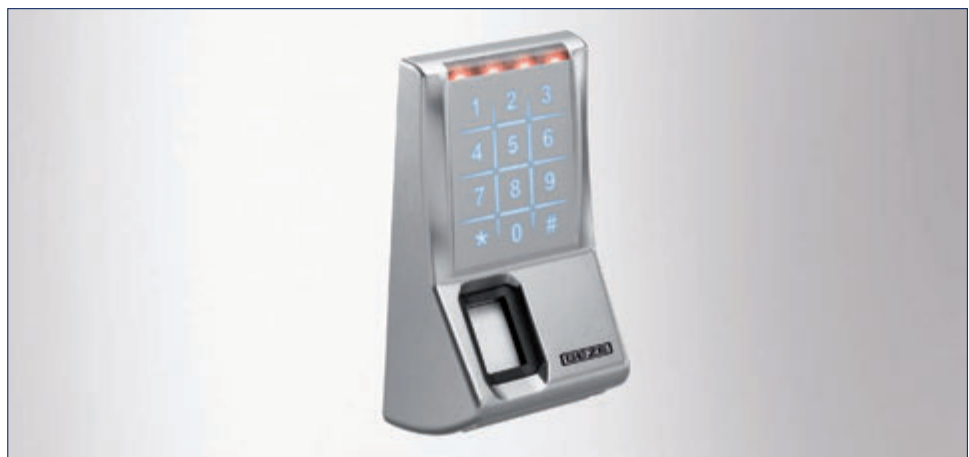
Application range

- Access control as a stand-alone system, also for domestic use
- Access control with simple monitoring and control through the standard browser
- Access control for individual requirements

Product features

- Basic-Line: 1 reader module, 1 door unit, for max. 20 persons System components: GEZE Single Door Unit GCDU 100/2, GEZE RFID Reader GCVR 200, GEZE RFID Reader GCRR 200, GEZE Finger Print GCFP 401, GEZE power unit NET 320
- Individual Line: open system leaves room for tailor-made design possibilities, e.g. interfaces to alarm systems or building management systems, 24 control points possible, extension to up to 300 control points possible through cluster operation, 3000 users with biometric version, time recording, integration of mechatronic cylinders / digital fittings / wide-range readers, encrypted data transmission HTTPS, alarms sent by e-mail, reporting

GEZE Finger Print GCFP 401





Catholic Church Administration Building, Stuttgart, Germany (Photo: Dirk Wilhelmy)

Panic locks and panic bars (IQ locks)

In an emergency it is necessary to be able to leave a building within seconds, particularly when people are in danger. But on the other hand, sensitive areas also need to be protected from unauthorised access. Self-locking panic locks provide uncompromising safety for both people and property. With the IQ Lock range, GEZE has developed optimum solutions for individual security and safety requirements. Not just for emergency exit routes, the clever lock actually thinks for itself.

The GEZE panic bar is a horizontal actuating bar for every application area in accordance with the European norm EN 1125 for the simple opening of emergency exits.

Products	
For 1-leaf doors	
IQ lock EL	Electronic motor lock for combination with swing door drives
IQ lock EM	Electro-mechanical lever lock for combination with access control system
IQ Lock C	Mechanical contact lock with feedback contacts
IQ lock M	Mechanical panic lock for simple panic function
For 2-leaf doors	
IQ lock AUT	Multifunctional system solution for full panic doors with automated door leaves on both sides, consisting of: IQ lock EL DL motorised lock, DL strike box, IQ AUT bar drive
IQ lock EL DL	Electronic motorised lock for combination with swing door drives
IQ lock EM DL	Electro-mechanical lever lock for combination with access control system
IQ lock C DL	Mechanical contact lock with feedback contacts
IQ lock M DL	Mechanical panic lock for simple panic function
Panic bar	Horizontal actuating bar for the simple opening of emergency exits in accordance with the European norm EN 1125

Application range

- Doors along emergency exit routes
- 2-leaf full panic function with twin-sided automated door leaves
- Fire protection doors
- Emergency exits
- Access control / emergency exit systems
- Use with GEZE automatic swing door systems and door technology products
- RWA fresh air

Product features

- Possible features: motorised unlocking, mechanical self-locking, full panic, mechanical or electrical time out function, various operating modes, outside handle electrically engaged, feedback contact for lock states
- The broad product spectrum of the IQ lock family offers multi-faceted solution options
- Integration in access control and RWA system
- Split cross-latch (3 mm gap between the latch and bolt prevents forcing)

GEZE IQ lock AUT





Academy of Finance, Bonn, Germany (Photo: Lothar Wels)



Vector, Stuttgart, Germany (Photo: Dirk Wilhelmy)

Electric door opener (IQ eStrike)

GEZE IQ eStrike A5000 / A5300 compact door openers for standard applications can be used on all door systems where doors need to be held closed easily. A further variant, the GEZE IQ eStrike FT500/FT501 is the smallest approved fire protection door opener and is used on fire protection doors with increased safety demands.

The A5000 compact door opener is also approved for use on smoke protection doors without any further modification. A new option is the A5000, which now also has an integrated radio receiver. The IQ eStrike A5000--F working current door opener can likewise be used for all standard and smoke control doors, and in a power-off state it is locked. If it receives a signal via the wireless transmitter it is unlocked. The A5000--F is, for example, suitable for controlling a garage door drive using the GEZE wireless programme as well as for opening the house door with the same remote-control door opener.

Products	
A5000--B	Compact door opener, approved for use on smoke protection doors, 5000 N retention force
A5001--B	Compact door opener with door status contact (door closed), approved for use on smoke protection doors, 5000 N retention force
A5000-FB	Compact door opener with lock latch guide, 5000 N retention force
A5000--E	Compact door opener with signal processor and energy-saving mode approved for use on smoke protection doors, unlocking under side-load of approx. 160 N, energy-saving of approx. 75% after unlocking
A5000--F	Compact door opener with integrated radio receiver for doors that should be opened by hand-held transmitter, approved for use on smoke protection doors, 5,000 N retention force
A5300--B	Compact door opener in static current version, 5000 N retention force
FT500--B	Compact door opener for use on smoke protection doors, 8000 N retention force, 6.5 mm latch engagement depth
FT501--E	Compact door opener for use on smoke protection doors with door status contact, signal processor, energy-saving mode, sideload approx. 160 N, energy saving approx. 75%

Application range

- For all doors which are to be held closed conveniently
- For fire protection doors with increased security requirements
- Use on smoke protection doors
- For right and left hung doors
- Doors that should be opened wirelessly through a hand-held transmitter

Product features

- Compact door openers with slim dimensions
- Vertical or horizontal installation
- Bipolar EMC protective diode integrated in all variants
- Minimum latch engagement depth 6 mm
- A5000 model series with smoke protection approval
- GEZE compact door opener IQ eStrike FT500/FT501: the smallest approved fire protection door opener
- Multi-faceted door opener variants for different security requirements

GEZE A5000--B





Ammersee Grammar School, Dießen, Germany (Photo: MM Fotowerbung)

Manual sliding wall systems (MSW)

Manual sliding wall systems open up, divide and separate rooms and are flexibly suited to your particular use. The sliding wall systems from GEZE are particularly suitable for modern, design-oriented all-glass solutions set in demanding architecture. The use of insulation glass that does not cause any significant visual restriction is possible through using the slimline frame technology of the manual sliding wall system with its fine-framed leaves. The demand for energy-efficient solutions is becoming increasingly important in shop fitting also. A flexible building block system and the integration of leaf elements with varying functions offer a wide range of design freedom not only in locations such as hotels, congress halls, shopping centres, railway stations or airports. All manual sliding wall systems from GEZE can be opened and closed quickly and conveniently even without swing door end panel using the SmartGuide roller carriage.

Products	
MSW SmartGuide	Technology for all MSW leaf versions with automatic switching of the guide side Stacking areas with disengagement possibility and multiple successively arranged stacking areas can be implemented, even in the case of systems without a swing door end panel
MSW Classicline, Pureline, Protectline	Individual sliding wall design systems with ESG or VSG glazing Classicline: The profiles run slightly angled directly on the glass and have a profile height of 107 mm Pureline: Contemporary, angled design, the profiles can be combined excellently with existing systems Protectline: The profiles offer increased protection against glass damage by cleaning equipment for example and are therefore particularly suited for use in airports and railway stations
Manual sliding wall system with fine-framed leaves	Improved energy efficiency through the use of insulation glass without impacting on the transparency of the façade
MSW with IGG	MSW with integrated all-glass systems - profile and fitting system are concealed through being integrated between the panes
MSW with on-site door leaves	Wooden, aluminium or plastic door leaves can be used with the GEZE MSW system to achieve property-specific solutions and innovative space concepts

Application range

- Shopping centres: Complete or partial opening of the shop-front, can be used as presentation space/ shop window at night
- High-street shops: complete opening of the shop-front in the summer, partial opening in the winter, we recommend using MSW with fine-framed leaves because energy efficiency is improved through the use of insulation glass
- High quality architecture with IGG, integrated, concealed profile in the edge seal of the insulation glass
- Connection profile for on-site leaves, in order to achieve property-specific solutions and innovative space concepts

Product features

- SmartGuide roller carriage with automatic switching of the guide side for smooth running, flexible stacking area layout and simple operation
- Outstanding running characteristics and practically silent operation through the use of plastic coated rollers, even with large door leaves
- Various combined sliding and revolving door variants with simple to operate change-over mechanism for a wide range of design options
- Maximum transparency with the installation of insulation glass, because the frame width is only 30 mm
- Leaf weights up to 150 kg, system heights up to 4000 mm
- Customised system planning is possible through the use of a modular system

GEZE MSW Classicline, Pureline, Protectline, fine-framed, IGG and on-site leaves (from the right)





Installation situation (Photo: GEZE GmbH)



Installation situation (Photo: GEZE GmbH)

Integrated all-glass systems (IGG)

With the GEZE integrated all-glass system (IGG), the profile and the fitting system are integrated invisibly between the glass leaves without bulky or visible elements at the surface of the glass. The complete design of façades can be implemented without interruptions, regardless of whether planning calls for sliding walls or doors, single action or swing doors. The GEZE IGG can be used for all-glass façades, both inside and outside.

Products	
Slimdrive SL NT with IGG	Sliding door drive with just 7 cm drive height combined with the integrated all-glass system for visually attractive façades, the design of the glass elements remains completely untouched due to the integrated all-glass technology
Slimdrive SLT with IGG	Telescopic sliding door drive with just 7 cm drive height, combined with the integrated all-glass system, ideal for narrow glass façades in post & rail constructions The profiles and fitting system are integrated invisibly between the glass leaves
MSW with IGG	Manual sliding wall system with movable glass elements ensure bright and transparent room partitioning as well as the flexible use of spaces
Single-action and double-action door with IGG	Frameless all-glass system with integrated fittings for single-action and double-action doors facilitates freedom of design with new builds and renovations
Perlan 140 with IGG	Manual sliding doors in integrated all-glass systems create understated and elegant designs, ideal for long-term use in busy residential and working areas

Application range

- For interior and exterior systems
- Automatic and manual sliding doors
- Manual sliding wall system (flexible room partitioning)
- Automatic and manual swing doors

Product features

- The profiles and fittings are integrated invisibly between the glass leaves
- Flush-fitting look without protruding elements
- All-round edge printing in the space between the leaves
- Adjustable to meet individual customer wishes



Düsseldorf Hospital, Germany (Photo: Lothar Wels)



Ronald McDonald House, Tübingen, Germany (Photo: Lothar Wels)

Pendulo System

The Pendulo all-glass partition system creates rooms without visual restrictions. Numerous elegant solutions can be realised with this transparent partition in offices, in shop fitting or at home. The high level of convenience of the single and double leaf double-action doors is achieved by integration of the fully-fledged door closer in the lower design profile. The double-action doors have an opening angle of +/- 90° to the partition axis and are equipped with 90° hold-open devices as standard. All settings on the door closer including the zero position can be carried out without removing the cover panels. The system comprises different single and double leaf door types with or without fanlight which can be combined with corresponding fixed panel types.

The partition system is available both as a customer-specific system (mass-produced version) as well as a modular system (kit). The kit version is made up of fixed lengths of the individual element types which can be shortened to certain dimensions on site.

Produkte	
Pendulo System	The double-action door types and fixed panel variants can be freely combined as required and form a complete all-glass wall system
Double-action door types	All double-action door variants are equipped with a door closer with hold-on function in 90° position in the bottom door profile; a floor lock can be integrated in the door profile as an Option
Pendulo double-action door PT 01	Double-action door with design profile at the bottom, top pivot on site
Pendulo double-action door PT 02	Double-action door with design profile at the bottom and top
Pendulo double-action door PT 03	Double-action door with design profile at the bottom and glass fitting PT 20 at the top
Pendulo double-action door PT 04	Double-action door with design profile at the bottom and glass fitting PT 20 at the top
Pendulo double-action door PT 04 BS	Double-action door as type 02 but with fanlight incl. attachment fitting
Pendulo double-action door PT 05	Double-action door as type 04 but with an insert for defining the opening direction
Pendulo double-action door PT 05 BS	Double-action door (2-leaf) as type 04 but with a fitting for defining the opening direction
Pendulo fixed panel versions	All fixed panel variants are equipped with a continuous design profile at the bottom, variable positioning of the glass clamping units in the basic profile, tolerance compensation integrated in the clamping units
Pendulo fixed panel type 01	Fixed panel with continuous design profile at the bottom and top
Pendulo fixed panel type 02	Fixed panel with continuous design profile at the bottom and top
Pendulo fixed panel types 03-05	Fixed panel with continuous design profile at the bottom and glass fitting PT 90 at the top

Application range

- For systems indoors and in protected outdoor areas
- For areas with medium passage frequency
- For toughened safety glass
- For glass thicknesses 8 and 10 mm

Product features

- Door leaf weights up to 80 kg, door leaf width up to 1,100 mm, door leaf heights up to 2,600 mm
- Height of partition system up to 3,000 mm
- Surface silver and stainless steel colour, anodised and RAL painted
- Modular structure of all fittings, consisting of base plates, functional kits and covers which can be clipped on
- Integrated closer as standard
- The closer is held open +/- 90° to the partition axis
- Closing speed and zero position can be adjusted without removing cover panels
- No floor and ceiling clearance
- Optional floor lock prepared for profile cylinder
- Configurable product system

GEZE Pendulo System





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



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

Glass clamp fitting systems (Patch Fittings)

Patch Fittings is an assembly-friendly all-glass fitting system for multi-faceted applications for both interior and exterior use. The Pendulo System combines the Patch Fittings system with a continuous door rail with the Pendulo C door closer integrated in the profile. The double-action door is moved conveniently and controllably from the option hold-open (90°) to its closing position. Neither the protection of the lower edge of the glass nor the installation of door closers in the floor is necessary with the Pendulo System.

Products	
PT 10 / PT 20	Lower corner fitting / upper corner fitting for double-action doors
PT 24 / PT 21	Upper pivot bearing
PT 30	Fanlight fitting with hinge pins
PT 40 / PT 75	Angle fanlight fitting / Double fanlight fitting
US 50-RD	Central lock with round bolt
PL 50-RD	Corner lock with round bolt
PL 55	Floor lock with round bolt
GK 50 / GK 20	Lock counter-fitting / Double lock counter-fitting
PT 63 / PT 70, PT 80 / PT 84, PT 90	Connecting fitting with stop / Connecting fittings / Connecting fittings for wall-fixing
FP-P	Modular fixed panel profile system
Products in combination with Patch Fittings	
Pendulo C	Door rails with integrated door closer guides the opened door leaf conveniently and controllably back to its closed position, with or without 90° position hold-on function
TS 500 NV / TS 500 N EN3	Floor springs for single-action and double-action doors

Application range

- Fitting solutions for all-glass systems
- For internal and external systems
- For static glass partitioning walls
- For double-action doors

Product features

- Door leaf weights up to 100 kg, door leaf widths up to 1000 mm, door leaf heights up to 2800 mm
- Shorter assembly times thanks to the quick pre-assembly of all all-glass fittings
- Patch fittings enables technically perfect and optically attractive implementation of standard all-glass systems
- Modular structure of all fittings, consisting of base plates, functional kits and covers which can be clipped on
- Usage of standard glass cut-outs and drill holes
- Problem-free adjustment to glass thicknesses of 8 – 12 mm
- Elegant cover plates made of polished or ground stainless steel, aluminium EV1
- Reciprocal threaded joint prevents the unauthorised de-installation of the glass

Modular fixed panel profile with clip-on cover profile design 40, Modular fixed panel profile with clip-on cover Pendulo profile design (from the right)





Glas Trösch, Kempten, Germany (Photo: Nikolaus Grünwald)

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