

## GEZE AUTOMATICS DOOR & WINDOW SYSTEMS

Brought to you by Häfele

Among experts in

the field, "Häfele" has become

synonymous

with greater convenience and pioneering ideas.

# WHY HÄFELE?

## WHY CHOOSE HÄFELE?

#### Häfele HQ, Dandenong, Victoria



HÄFELE: THINKING

AHEAD FOR MORE

THAN 90 YEARS

Häfele represents a world of solutions spanning many countries and industries. As a global supplier of quality hardware to a dozen industries, Häfele is an innovator for everything from joining timber to moving walls.

As a creator of brilliant designs for decorative elements, or simply an established partner for every customer, Häfele doesn't just sell hardware, they provide solutions.

Since the beginning Häfele have been dedicated to bringing quality not only to their products, but to each customer relationship. Quality is the driving force guiding the efforts of their employees worldwide. As the company's reach has expanded around the world, Häfele strives to make these values universal. This is accomplished through the remarkable breadth of expertise that Häfele uses every day to help customers. Whether an architect is designing a high-tech building or a manufacturer is attempting to drive down costs, Häfele will find better ways.

This is our promise and commitment to all our clients and partners worldwide. Established in 1982, Häfele Australia has been bringing you the latest innovations, sourced from either our own factories, or from our partners around the world, for over 30 years. With our Australia, we are at your side Australia wide.

own sales offices in all states around Australia and warehouses in Victoria, Queensland and Western

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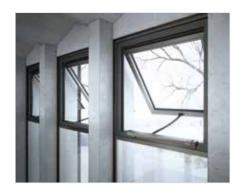
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# PROJECT REFERENCES

A wide range of projects in many different categories, qualities and equipment have successfully utilised GEZE door technology both in Australia and abroad. You can request project references in your area from Häfele at any time.



Burj Al Arab, Dubai, UAE



BMW Museum, Munich, Germany



Palacio de las Artes, Valencia, Spain



Vienna University of Economics and Business, Vienna, Austria



Neuer Zollhof, Dusseldorf, Germany



Cologne Arena, Cologne, Germany



### **GEZE** Automatic sliding door system - Comfort and perfection

Sliding doors are space-saving, elegant and modern. Glass sliding doors are ideal when it comes to making good use of daylight and fulfilling optical criteria. Automatic sliding doors from GEZE can be used to implement the widest range of application requirements within a building. The variations in the Slimdrive series, having an overall height of only 70 mm, fit perfectly into any building's architecture and offer a wide range of application possibilities.

The ECdrive is economical and extremely reliable in its functionality.

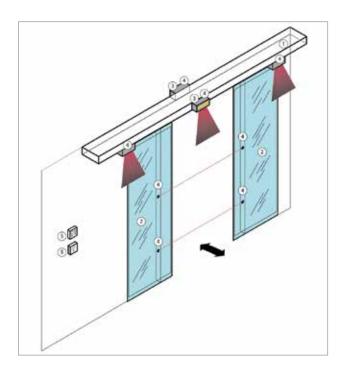
The Powerdrive is a real 'power house' and is capable of moving heavy doors conveniently and safely.

#### **DIN 18650**

The industrial standard DIN 18650 was created to be able to guarantee operators and users of automatic doors optimum safety. Sliding door systems have been type-tested to DIN 18650 and certified.



Design possibilities with the sliding door system



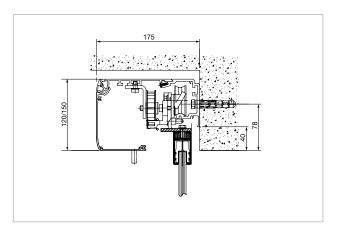
- 1 = Drive
- 2 = Fitting
- 3 = Actuation
- 4 = Safeguard / Note: According to DIN 18650, light barriers are not suitable for people in need of special protection!
- 5 = Operation

### **GEZE ECdrive**

## Drive system for linear sliding doors in high traffic areas



The linear sliding door system ECdrive GEZE offers numerous convincing benefits at an excellent cost/performance ratio. Suitable for usage for doors in high traffic areas, ECdrive covers door leaf weights up to 120kg with uncompromising reliability. Service costs are reduced thanks to the self-cleaning roller carriage.





## **GEZE ECdrive**

## Drive system for linear sliding doors in high traffic areas

Product features	Specification
Number of door leaves	Single or double leaf
Running track height (mm)	120/150 (optional)
Track depth (mm)	175
Max. Leaf weight per leaf (kg) , same as double	120
Opening width 1 leaf (mm)	700 - 3000
Opening width 2 leaf (mm)	900 - 3000
Operation Temperature range (°C)	-15 to 55
Enclosure rating	IP 20
Disconnecting from power supply	Main switch in the drive
Max. adjustable opening speed (m/s)	0.8
Max. adjustable closing speed (m/s)	0.8
Max. adjustable opening and closing force (N)	150
Automatic reversal when an obstacle is detected	•
Lock function	•
Automatic opening in the event of a power failure	Adjustable
Automatic closing in the event of a power failure	Adjustable
Approvals	DIN 18650, BGR232 DIN EN ISO 13849: Performance Level D

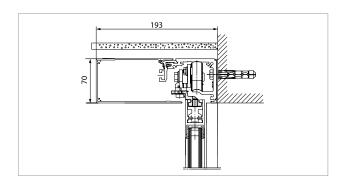
<sup>• =</sup> Yes

#### **GEZE Slimdrive SL NT**

Drive system for linear sliding doors using the latest technology



Facade with slim post rail structure seems even lighter and more inviting, and they discreetly and easily blend in with the building architecture. GEZE Slimdrive SL NT particularly hides in glass facades where large door leaves have to be moved and all components have to appear slim and delicate. With its low drive height of only 70 mm, Slimdrive SL NT integrates almost invisibly in the facade and moves door leaf weights up to 125kg.





## **GEZE Slimdrive SL NT**

## Drive system for linear sliding doors using the latest technology

Product features	Specification
Number of door leaves	Single or double leaf
Running track height (mm)	70
Track depth (mm)	190
Max. Leaf weight per leaf (kg) , same as double	125
Opening width 1 leaf (mm)	700 - 3000
Opening width 2 leaf (mm)	900 - 3000
Operation Temperature range (°C)	-15 to 55
Enclosure rating	IP 20
Disconnecting from power supply	Main switch in the drive
Max. adjustable opening speed (m/s)	0.8
Max. adjustable closing speed (m/s)	0.8
Max. adjustable opening and closing force (N)	150
Automatic reversal when an obstacle is detected	•
Lock function	•
Automatic opening in the event of a power failure	Adjustable
Automatic closing in the event of a power failure	Adjustable
Approvals	DIN 18650, BGR232 DIN EN ISO 13849: Performance Level D

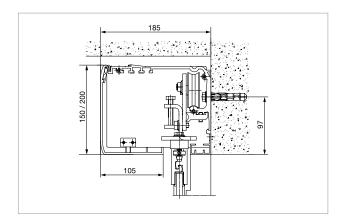
• = Yes

#### **GEZE Powerdrive PL**

Drive system for linear sliding doors with large, heavy door leaves



Powerdrive PL are convenient and safe even for heavy doors. Large entrances and opening widths combined with high leaves make special demands on door drive technology. Economic and powerful, this drive moves heavy door leaves up to 200 kg. Optimum running characteristic and low wear which used compatible profiling of the rollers and running rail allows use in high traffic areas.





### **GEZE Powerdrive PL**

## Drive system for linear sliding doors with large, heavy door leaves

Product features	Specification
Number of door leaves	Single or double leaf
Running track height (mm)	150 / 200 (optional)
Track depth (mm)	185
Max. Leaf weight per leaf (kg) , same as double	200
Opening width 1 leaf (mm)	700 - 3000
Opening width 2 leaf (mm)	800 - 3000
Operation Temperature range (°C)	-15 to 55
Enclosure rating	IP 20
Disconnecting from power supply	Main switch in the drive
Max. adjustable opening speed (m/s)	0.8
Max. adjustable closing speed (m/s)	0.8
Max. adjustable opening and closing force (N)	150
Automatic reversal when an obstacle is detected	•
Lock function	•
Automatic opening in the event of a power failure	Adjustable
Automatic closing in the event of a power failure	Adjustable
Approvals	DIN 18650, BGR232 DIN EN ISO 13849: Performance Level D

 $<sup>\</sup>bullet$  = Yes

#### GEZE Automatic swing door system - Open and close doors easily

The 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. GEZE enables object-specific solutions and ensures planners the greatest possible degree of design freedom.

The electromechanical 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 safety with optimum door design. It automatically opens and closes doors "invisibly".

Thanks to their uniquely small overall height of only 70 mm, the drives in the Slimdrive range can be fitted almost invisibly to any building architecture. The electrohydraulic TSA range is first choice for doors in areas of high frequency of use. Durability and strength characterise this range.

#### DIN 18650

The industrial standard DIN 18650 was created to be able to guarantee operators and users of automatic doors optimum safety. GEZE swing door systems with automatic function have been type-tested to DIN 18650 and certified.

#### EN 16005

The new European standard EN 16005 sets out the design requirements and testing methods used to ensure the safe use of automatic doors. The new standard has created a Europe-wide safety standard for automatic doors. All automatic door systems and safety sensors from GEZE meet the EN 16005 standard and are available.

#### Design possibility for swing door systems



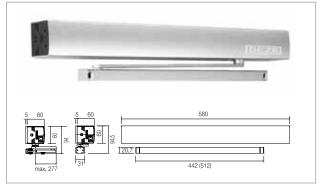
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- 3 = Safeguard
- 4 = Operation

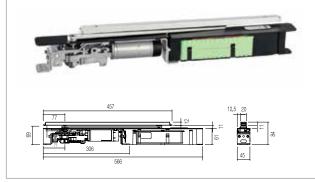


### **GEZE ECturn**

## Electromechanical swing door drive for 1-leaf single action internal doors.

Extremely quiet electromechnical swing door meets the requirement of barrier-free construction. It is convenient especially for people with mobility problem and little strength. Door can be opened automatically, or open manually and closed automatically. The new ECturn Inside further enhance the look for your door by concealing the operator inside the door and offer the same function as the ECturn.





ECturn Inside

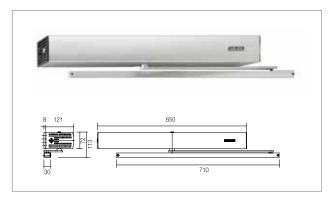
ECTurn	ECTurn Inside
60	61
580	566
60	45
125	125
650 - 1100	650 - 1100
Electromechanical	Electromechanical
10	10
100 °	100 °
110 / 230 VAC	24.5-30 VDC
-15 to 50	-15 to 60
IP20	IP20
Fully Automatic	Fully Automatic
Adjustable	Adjustable
DIN 18650	DIN 18650
•	•
	60 580 60 125 650 - 1100 Electromechanical 10 100 ° 110 / 230 VAC -15 to 50 IP20 Fully Automatic Adjustable DIN 18650

#### **GEZE Slimdrive EMD**

## Electromechanical swing door drive for 1 and 2 leaf single action doors

The 70 mm high compact drive that's able to move large and heavy internal and external doors comfortably and quietly. State-of-the-art control technology combined with low-wear and low maintenance high-power motor guarantees reliable operation even for high usage doors. The push and go function can be activated on request, a perfect solution for the elderly.





Product features	Slimdrive EMD
Height (mm)	70
Width (mm)	650
Depth (mm)	121
Max Leaf weight (kg)	180
Opening width 1 leaf (mm)	750-1400
Drive Type	Electromechanical
Maximum activation delay (seconds)	20
Max door opening angle	230
Operating voltage (V)	230 V
Temperature range (°C)	-10 to 50
Enclosure rating	IP20
Automatic function	Fully Automatic
Push and Go	Adjustable
Approval	DIN 18650
Low energy	•

• = Yes



## GEZE Swing door systems for fire and smoke protection doors (F)



Drive systems in the F variant are used to automatically open and close single-leaf fire protection doors. The usual types of impulse generator can be used to actuate the drive. In addition to automatic opening and closing, fire protection doors can also be held open. In the event of a fire, an appropriate fire detection system must cancel the automatic function or any hold-open mechanism. Power supply to the mains cable is interrupted via a mains switch-off board (F-accessory) and the drive retains the normal door closer function. This means that door closers with automatic opening function in accordance with DIN 18263 Part 4 are a component part of hold-open systems and require official building approval.

## GEZE Swing door systems with integrated closing sequence control (IS)



Swing doors in the IS variant are always equipped with an integrated closing sequence control. The mechanical closing sequence control ensures that the fixed leaf closes first on double-leaf doors. The active leaf only closes once the fixed leaf has closed completely. The mechanical closing sequence control also works without electricity and in the event of a power failure. This variant can be achieved using the following drive series: Slimdrive EMD-F.



## GEZE Swing door systems for fresh air supply as well as doors in emergency exit routes (Invers)



Inversely installed swing door drives are used on single and double-leaf single-action doors made of wood, plastic or steel. There is an electrical closing sequence control available for double-leaf doors. Inversely installed drives are suitable for emergency exit routes and for fresh air opening systems for RWA systems. The doors are opened by spring force and closed by motor. This guarantees that the door will open safely in the event of a power failure or fire alarm. An emergency power supply is no longer required. This variant can be achieved using the following drive series: Slimdrive EMD.

## **ACTUATION, MOTION & SAFETY DEVICES**

### GEZE Actuation device and sensor system - Perfectly controlled automatic door drives

For the reliable operation of an automatic door, the choice of the appropriate control element is of considerable importance.

The range of the actuation devices GEZE offer are of optimum control for every door situation.

GEZE actuation devices control and safeguard all products in accordance with international standards. A single source supplier enabling complete solutions designed to meet individual requirements.

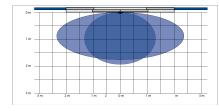
#### **GEZE Movement detectors**

A wide range of movement detectors such as radar movement detector with individual adjustment for the activation of automatic doors, with integrated self-monitoring additionally for the use in escape and rescue routes and a combination of radar movement and infrared detector fulfil your requirements.

The detectors may be chosen depending on area size as you need.

#### Radar movement detector

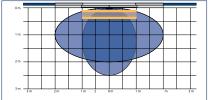


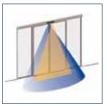




#### **Combine detector**







#### **Switches**



Several switches for a wide range of different requirements for the opening and closing of automatic doors The switches are offered for a wide range of installation possibilities: wall, floor or ceiling installation. All switches can be used for inside and outside areas. Wire or wireless solution is selectable.



## **ACTUATION, MOTION & SAFETY DEVICES**

#### **GEZE Safeguard sensors**

Various of safeguarding sensors, offer guaranteed safety in hazardous areas while opening and closing of automatic doors. They are selectable to safeguard automatic swing door, sliding door and revolving doors

### Opening and closing safeguard, Swing doors



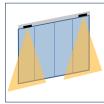




#### Opening safeguard, Sliding doors







### Programme switches



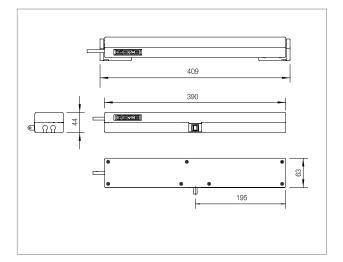
Programme switches for selection of automatic door operating modes Up to 5 different operating modes can be set: Off, Night, Shop closing, Automatic and Permanently open.

## **VENTILATION WINDOW SYSTEM**

## **GEZE Electric ventilation window system**







ECchain
Simple automation possibilities for ventilation operation (230 V)

The GEZE chain drive ECchain is suitable for straightforward ventilation automation (230 V). As a low-price and powerful entry-level model, it is also suitable for private residential buildings. The ECchain can also be used as a variant on small fanlights, since a maximum opening angle is reached with very low casement heights. The stroke length can be set to 200 mm or 400 mm. The integrated stroke setting option allows for adjustment in line with different ventilation requirements. A range of colour variants allows the drive to be adapted to existing window profiles. The ECchain can be installed quickly and easily.





## **VENTILATION WINDOW SYSTEM**

#### **GEZE ECchain**

## Simple automation possibilities for ventilation operation (230 V)

Product features		ECchain
Application	oplication Type of hanging	
	Type of opening	Inward-opening and outward-opening casements
Length of ECchain (mm)	With console	409
	Without console	390
Height of ECchain (mm)		44
Depth of ECchain (mm)		63
Min. space required on frame (mm)	Bottom -hung casement	55
	Top -hung casement	35
Stroke adjustable depending on cable connection (mm)		200/400
Opening/ closing speed (mm/s)		9
Max. pushing/ pulling force (N)		250
Max. casement weight (kg)		130
Operating voltage (V)/ current consumption (A)		230 +10% / 0.13
Length of power supply cable (m)		2
Cable dimensions (mm)		4 x 0.75
Temperature range (°C)		-5 to 60
Enclosure rating		IP 30 / II
End position cut-off extended		Limit switches
End position cut-off retracted		Electric, electronic via current consumption
Overload cut-off		Yes

#### **GEZE Manual Door Closers - Versatile and reliable**

#### Innumerable optical and technical options

As one of the world's leading suppliers of door technology systems, GEZE offers innovative solutions for door closer systems. GEZE products have always been developed around the needs of customers, therefore the company offers direct solutions for individual requirements - Aesthetic, functional and economical.

Door closers from GEZE impress with their intelligent functionality, their high performance, and their long life spans, as well as the integrated design lines. GEZE's quality management system has been certified to ISO 9001. Door closers from GEZE have been inspected and certified in accordance with the applicable standards EN 1154, EN 1155 and EN 1158. Production of these products is regularly monitored by independent test institutes. All these measures guarantee the high quality of GEZE products.

#### Overhead door closers with sliding arm



TS 2000 NVBCG

#### Concealed door closers



Boxer

#### Overhead door closer with standard arm



TS 4000

#### Floor springs



TS 550 NV



Type  1 2 3 4 5 6 6 1 1 2 1 2 3 4 5 6 6 1 1 2 1 3 4 5 6 6 1 1 1 2 1 3 4 5 6 6 1 1 1 2 1 3 4 5 6 6 1 1 1 2 1 3 4 5 6 6 1 1 1 2 1 3 4 5 6 6 1 1 1 1 2 1 3 4 5 6 6 1 1 1 1 2 1 3 4 5 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Closing force							Version								
TS 1500 BC TS 2000 NVBC TS 4000 E V V V V V V V V V V V V V V V V V V V		Туре	1	2	3	4	5	6	Electromechanical hold open function	Electrohydraulic hold open function	With hold-open insert	Central smoke alarm system	Suitable for fire resistant doors	Integrated door coordinator	With free-swing function	For double doors	Delayed action	
TS 2000 NVBC TS 4000 TS 5000 NVBCG TS 2000 NVBCG TS 2000 NVBCG TS 3000 VBC TS 5000 TS	Overhead door closers with arm																	
TS 4000	Æ	TS 1500 BC			✓	✓					✓		✓					
TS 4000 E	1	TS 2000 NVBC		✓	✓	✓					✓		✓					
TS 1500 BCG		TS 4000	✓	✓	✓	✓	✓	✓			✓		✓					
TS 1500 BCG TS 2000 NVBCG TS 3000 VBC TS 4000 G TS 5000 TS 500	68117	TS 4000 E	✓	✓	✓	✓	✓	✓		✓			✓				✓	
TS 2000 NVBCG TS 3000 VBC TS 4000 G TS 5000 C TS 500 C TS 5000 C TS 5000 C TS 5000 C TS 500 C T	Overhead door closers with guid	de rail																
TS 3000 VBC TS 4000 G TS 5000 TS 5000 TS 5000 L TS 5000 L TS 5000 E TS 5000 L-E TS 5000 L-E TS 5000 L-R TS 500 NV TS 550 NV	•	TS 1500 BCG	1								✓		✓					
TS 4000 G TS 5000 TS 5000 TS 5000 L TS 5000 L TS 5000 E TS 5000 L TS 5000 R TS 5000 L TS 5000 L TS 5000 L TS 5000 R TS 5000 L TS 5000 L TS 5000 R TS 5000 L TS 5000 L TS 5000 L TS 5000 R TS 5000 L TS 5000 R TS 500 R TS 5000 R T		TS 2000 NVBCG	✓	✓	✓						✓		✓					
TS 5000 TS 5000 L TS 5000 L TS 5000 E TS 5000 L-E TS 5000 L-E TS 5000 R TS 5000 L-R TS 5000 L-R TS 5000 L-R TS 5000 L-R TS 5000 L-SM TS 5000 L-E-ISM TS 5000 L-E-ISM TS 5000 L-E-ISM TS 5000 L-E-ISM TS 5000 L-R T		TS 3000 VBC	✓	✓	✓	✓					✓		✓					
TS 5000 L TS 5000 E TS 5000 E TS 5000 L= TS 5000 L-E TS 5000 L-B TS 5000 L-R TS 5000 R-ISM TS 5000 L-R-ISM TS 500 L-R-ISM TS		TS 4000 G	✓	✓	✓	✓	✓				✓		✓					
TS 5000 E TS 5000 LE TS 5000 LE TS 5000 R TS 5000 LR TS 5000 LR TS 5000 LSM TS 500 LSM TS 50		TS 5000		✓	✓	✓	✓	✓			✓		✓					
TS 5000 L-E TS 5000 R TS 5000 R TS 5000 L-R TS 5000 ISM TS 500 ISW TS 500		TS 5000 L		✓	✓	✓	✓	✓			✓		✓					
TS 5000 R TS 5000 L-R TS 5000 L-R TS 5000 ISM TS 5000 L-ISM TS 5000 E-ISM TS 5000 E-ISM TS 5000 E-ISM TS 5000 L-E-ISM TS 5000 L-E-ISM TS 5000 L-E-ISM TS 5000 R-ISM TS 500 R-ISM TS 5000		TS 5000 E		✓	✓	✓	<b>✓</b>	<b>✓</b>	✓				✓					
TS 5000 L-R TS 5000 ISM TS 5000 ISM TS 5000 L-ISM TS 5000 E-ISM TS 5000 E-ISM TS 5000 L-E-ISM TS 5000 L-E-ISM TS 5000 L-E-ISM TS 5000 L-R-ISM TS 5000 E-R-ISM TS 500 E-R-ISM		TS 5000 L-E		✓	✓	✓	✓	✓	✓				✓					
TS 5000 ISM TS 5000 L-ISM TS 5000 L-ISM TS 5000 E-ISM TS 5000 E-ISM TS 5000 E-ISM TS 5000 L-E-ISM TS 5000 E-ISM TS 5000 R-ISM TS 5000 E-R-ISM TS 5000 R-R-ISM TS 500 R		TS 5000 R		✓	✓	✓	✓	✓	✓			✓	✓					
TS 5000 L-ISM TS 5000 E-ISM TS 5000 E-ISM TS 5000 L-E-ISM TS 5000 R-ISM TS 500 R-ISM TS		TS 5000 L-R		✓	<b>✓</b>	✓	✓	✓	✓			✓	✓					
TS 5000 E-ISM TS 5000 L-E-ISM TS 5000 L-E-ISM TS 5000 R-ISM TS 5000 R-ISM TS 5000 EFS TS 5000 EFS TS 5000 S Accessories  Boxer I Boxer P  TS 500 NV TS 500 N		TS 5000 ISM		✓	✓	✓	✓	✓					✓	✓		<b>✓</b>		
TS 5000 L-E-ISM TS 5000 R-ISM TS 5000 R-ISM TS 5000 R-ISM TS 5000 L-R-ISM TS 5000 L-R-ISM TS 5000 EFS TS 5000 RFS TS 500 RFS		TS 5000 L-ISM		✓	✓	✓	✓	✓					✓	✓		<b>✓</b>		
TS 5000 R-ISM TS 5000 L-R-ISM TS 5000 L-R-ISM TS 5000 EFS TS 5000 EFS TS 5000 RFS TS 5000		TS 5000 E-ISM		✓	✓	✓	✓	✓	✓				✓	✓		<b>✓</b>		
TS 5000 L-R-ISM TS 5000 EFS TS 5000 RFS TS 500 NV TS 550 NV TS 5		TS 5000 L-E-ISM		✓	✓	✓	✓	✓	✓				✓	✓		<b>✓</b>		
TS 5000 EFS TS 5000 RFS TS 5000 S Accessories    V   V   V   V   V   V   V   V   V		TS 5000 R-ISM		✓	✓	✓	✓	✓	✓			✓	✓	✓		<b>✓</b>		
TS 5000 RFS TS 5000 RFS TS 5000 S Accessories    V   V   V   V   V   V   V   V   V		TS 5000 L-R-ISM		<b>✓</b>	1	✓	✓	1	✓			✓	✓	✓		<b>✓</b>		
TS 5000 S		TS 5000 EFS		✓	✓	✓	1			<b>✓</b>			✓		✓			
Accessories		TS 5000 RFS		✓	✓	✓	✓			✓		✓	✓		✓			
Boxer	tends -	TS 5000 S		✓	✓	✓	1	1			✓		✓				✓	
Boxer I		Accessories																
Boxer II	Concealed door closers																	
Boxer P		Boxer I		<b>✓</b>	<b>✓</b>	<b>✓</b>			<b>✓</b>		✓							
TS 500 NV		Boxer II			<b>✓</b>	<b>✓</b>	✓	✓	<b>✓</b>		✓							
TS 500 NV		Boxer P		✓	1	1					✓							
TS 550 NV	Floor springs																	
		TS 500 NV	<b>✓</b>	<b>✓</b>	<b>V</b>	<b>✓</b>					<b>✓</b>							
Accessories		TS 550 NV			<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>			✓						✓	
		Accessories																

#### Overhead door closers with standard arm

From the smallest overhead door closer to numerous variations for use with fire and smoke-proof doors: The door closer range with standard arm offers versatile combination options. These have a variably adjustable closing force and are suitable for right and left single-action doors without conversion being necessary.



TS 1500 BC



TS 2000 NVBC

## TS 1500 BC: Door closer with adjustable closing speed up to 1100 mm leaf width

With the overhead door closer TS 1500, the closing speed and latch action can be adjusted. The variable closing force in EN3/4 is set by simply turning the shoe of the link arm around. It is optionally availble with a mounting plate and is suitable for both right and left single action doors without conversion.

## TS 2000 NVBC: Door closer with variable closing force up to 1100 mm leaf width

With the TS 2000 V overhead door closer with variable closing foce in accordance with DIN EN 1154 in EN2/4/5, the closing speed can conveniently be set from the front. The latching action setting is made using the link arm.



#### Overhead door closers with standard arm



TS 4000



TS 4000 E

#### TS 4000: Door closer with backcheck

With the overhead door closer TS 4000, the closing force is set from the front. The backcheck and the thermo-stabilised closing speed with large optical size indicator can also be set from the front.

#### TS 4000 E: Door closer with electric hold-open device

This overhead door closer TS 4000 E with electric hold-open device is authorised for installation on fire and smoke-proof doors in combination with an external smoke switch control unit. In the event of fire or a power failure, the hold-open function is released and the door closes safely. The closing force and the thermo-stabilised closing speed with large optical size indicator can easily be set from the front.

# Overhead door closers with guide rail For single-leaf doors

Door closer for single-leaf doors with guide rails represent modern closing 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 free swing function. These products meet the DIBt guidelines for hold-open devices as well as the norms and standards, such as DIN EN 1154 and 1155, and also have a CE mark respectively a general building approval (DIBt).



TS 1500 G

## TS 1500 G: Door closer with guide rail

The overhead door closer TS 1500 G with guide rail for single-leaf doors is particularly suitable for internal doors with door leaf widths up to 750 mm and can be used for right and left single-action doors without conversion.



TS 3000 VBC

## TS 3000 VBC: Door closer with variable closing force up to 1100 mm leaf width

With the overhead door closer TS 3000 VBC with variable closing force in accordance with DIN EN 1154 in EN1-4, closing speed can conveniently be set from the front.



TS 5000

#### TS 5000: Door closer with backcheck

With the overhead door closer TS 5000, the closing force is set from the front. The blackcheck and the thermo-stabilised closing speed with large option size indicator can also be set from the front.



#### For double-leaf doors

The integrated closing sequence control (ISM) ensures the correct closing sequence of both leafs at double-leaf doors. When the door is closed, the active leaf remains in waiting position until the inactive leaf is closed and releases the active leaf via the closing sequence control.

The double-leaf door closer systems of the ISM series offer numerous specific setting options. Various versions, for example, the electric hold open device, with smoke switch control unit or freeswing function fulfil almost every requirement. These products meet the guidelines for hold-open devices as well as the norms and standards, such as DIN EN 1154 and 1155, and also have a CE mark respectively a general building approval (DIBt).

#### TS 5000 ISM / TS 5000 L-ISM / TS 5000 L-ISM VPK: Door closers with closing sequence control



TS 5000 ISM / TS 5000 L-ISM / TS 5000 L-ISM VPK

System solutions comprising two TS 5000 with adjustable closing force EN2-6 in accordance with EN 1154, combined with the ISM guide rail, tested in accordance with EN 1158 and approved for fire and smoke-proof doors.

For opposite hinge side standard or panic function on the active leaf only: TS 5000 L-ISM

For opposite hinge side full panic requirements up to X-dimension 125 mm: TS 5000 L-ISM VPK

#### Floor springs

Floor springs GEZE can be used to close single and double-action doors made of different materials in a reliable manner whilst remaining optically noteless. The product range includes systems for light and heavy leaf weights as well as door closers for use on fire and smoke-proof doors.



TS 500 NV



TS 550 NV

### TS 500 NV: Floor springs for doors up to 1100 mm

The TS 500 NV versions with variable closing force in accordance with DIN EN 1154 in EN1-4 are floor springs for use with doors with a maximum leaf width of 1100 mm. The very low overall height of just 42 mm is a welcome benefit for both new constructions and renovation projects.

#### TS 550 NV: Floor spring for frequently used and heavy doors

The TS 550 NV has been specifically further developed and is used for heavy doors. Its versatility and sturdiness make the TS 550 NV ideal for use in highly frequented areas.

#### **Concealed door closers**

The concealed door closer Boxer is installed completely in 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 latch action and the hydraulic backcheck can be adjusted conveniently from above when installed. For fire protection doors an additional suitability certificate is required with the door. The door opening angle must be limited to approx. 120°.



#### **Boxer: Concealed door closer**

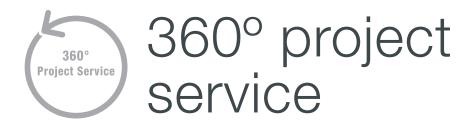
The concealed door closer Boxer in the versions EN2-4 and EN3-6 can be used for left and right single-action doors without conversion.



Boxer P

#### Boxer P: Concealed door closer for double-action doors

The concealed door closer Boxer 2-4 with double-action guide rail is suitable for use on lightweight double-action doors with low access frequency.



#### **HELPING YOU PUT THE PIECES TOGETHER**

It takes time to complete a new building and carry out the work that is subsequently required. Planning, tendering and order placement, order processing and the post-handover phase each have their own requirements.

Based on specific market demands and with a background of over 90 years experience worldwide, Häfele's 360° Project Service represents a portfolio of services that can meet these needs.

A comprehensive service on the one hand and an extensive range of Architectural Hardware and Furniture Fittings on the other hand effectively relieves the pressure on Property Developers, Architects, Planners and Processing Companies. The wide range of services means that the customer has a single contact for all phases of the project.

This is not just convenient, but also ensures the construction decisions that have been made are consistently implemented, and the interests of all parties involved are looked after from the planning phase to the completion of the project.

#### **ORDER PROCESSING & HANDOVER**

Häfele coordinates and monitors all deadlines and logistical services over the entire construction period This is made possible because of our individual construction site logistics and just-in-time delivery capability, which Häfele provides with its global sales network and state-of-the-art logistics centres.

Integrated project coordination until handover ensures that the standard of all construction work is consistently high, and guarantees adherence to the defined interests of Property Developers, Architects and Planners throughout all phases of a project.





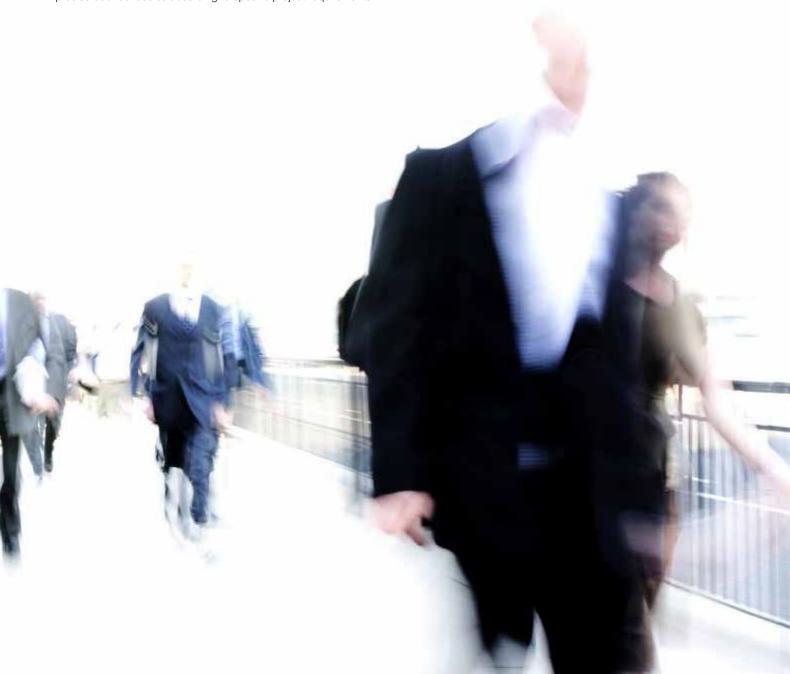
#### **COMPETENCE IN PROJECT SUPPORT & SERVICES**

During the course of planning, 360° Project Service provides assistance with the creation of detailed planning manuals, tailored seminars addressing specific topics, tendering texts, application examples, CAD files and other planning and support such as mounting instructions, available at www.hafele.com.au

However, planning also means: calculating, evaluating and comparing. One of the objectives of project advice is to look for and find the best individual solution for the project. This includes not just in depth requirement analysis, but also consistent brand and manufacturer-independent advice.

Häfele's enthusiastic and qualified design consultants can assist with integrated and coordinated hardware selection and prepare clear and precise door schedules according to specific project requirements.

A central pillar of this service offering is manufacturer independent advice on Architectural and Furniture Hardware. Häfele's specification team are competent, solution oriented partners for architects, builders, investors, specialists, consultants and general contractors. In addition, Häfele also offers extensive support in all phases of the project development. For example, specialized planning aids facilitate the development and implementation of electronic access control systems, lighting concepts in furniture and furnishings, as well as sliding door solutions.





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