## HAFELE



Brought to you by Häfele



# 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 own sales offices in all states around Australia and warehouses in Victoria, Queensland and Western Australia, we are at your side Australia wide. Among experts in the field, **"Häfele"** has become synonymous with greater convenience and pioneering ideas.



#### **INFORMATION**

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PAGE





Häfele offers GEZE door closer systems for any type of door, with a range of individual setting options. From the most basic overhead door closer, to the multi-faceted variations suitable for use with fire and smoke protection doors. The GEZE door closer range offers a range of options to meet every requirement.

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The integrated door closers of the GEZE Boxer range are installed fully inside the door leaf. Therefore, the guide rail can only be seen when the door is open. The system can be used with single and double leaf doors and offers a wide range of setting options when installed.



GEZE floor springs from Häfele, can be used to close single and double action doors made of various materials in a reliable manner whilst remaining subtle. The product range includes systems for light and heavy leaf weights.



Häfele's automatic door systems by GEZE open up an almost unlimited range of door design options. Daily, millions of people enjoy their natural convenience. As the most modern of innovative drives, in which high performance capability, security, convenience and design are a priority, automatic door solutions from GEZE are both the focus and the eye catcher of every entrance area.

#### DOOR WEIGHT CALCULATION GUIDE

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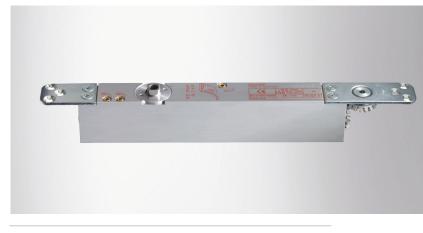




TS 5000 - OVERHEAD DOOR CLOSERS







BOXER CONCEALED DOOR CLOSER





EMD - AUTOMATIC SLIDING DOOR DRIVE



TS 550 NV - FLOOR SPRING





2



SLIM DRIVE - AUTOMATIC SLIDING DOORS

## GEZE DOOR TECHNOLOGY FROM HÄFELE

### INNOVATIVE, VERSATILE & RELIABLE

Häfele Australia are proud to announce the formation of a new partnership with GEZE for the Australian market.

This exciting development will combine the strength of one of Australia's most progressive Architectural Hardware companies with one of the world's leading manufacturers of door technology systems.

### An extensive range of optical and technical options.

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 technology systems from GEZE impress with their intelligent functionality, their high perfomance, and their long life spans, as well as the integrated design lines. GEZE's quality management system has been certified to ISO 9001. GEZE door closers have been inspected and certified in accordance with the applicable standards EN 1154, EN 1155, 1158 AND AS 1428. The manufacture of these products is regularly monitored by independent test institutes. All these measures guarantee the high quality of GEZE products.



## DOOR TECHNOLOGY

### INFORMATION

The products in this catalogue are divided into the following groups:

- > Surface mounted door closers with projecting arm assembly
- > Surface mounted door closers with guide channel
- > Concealed door closers
- > Floor springs
- > Automatic swing door operators
- > Automatic sliding door operators

Accessories for the door closer and floor spring systems can be found directly after the individual systems.

#### Appropriate Application

Door closers must be used appropriately only to close pivoted or hinged doors made of timber, metal, PVC or glass after these have been opened manually. Individual floor springs can also be used for double acting doors. Door closers need to be replaced when a satisfactory and safely functioning closing action is no longer guaranteed.

The following inappropriate use must be avoided under any circumstances:

- Use of the door closer for applications other than closing of doors.
- Obstruction of the closing action for example by scraping doors, catching seals or stiff locks.
- Incorrect or inappropriate installation and setting such as banging doors.
- > Incorrect selection of the closer size or closing force
- Catching between door frame and door leaf (risk of injury).

#### Installation and Initiation



The following points must be observed during the installation and initiation of door closers:

- > Before the installation and initiation of the door closer, including additional installation and accessories, the relevant legal regulations need to be observed.
- Door closers must be installed and adjusted correctly by qualified personnel.
- Product information must be observed and has to be passed on to the clients and end users.
- Door closers with hold-open devices are subject to legal controls, monitoring and maintenance procedures.
- In case of particularly unfavourable local conditions (i.e. wind influence), door closers with a higher closing force must be used.
- If, due to the circumstances of the door and surrounds, it cannot be avoided that the door leaf knocks against the door frame near the door pivot point, a door stop should always be used, which will limit the maximum opening angle of the door closer.
- If a floor spring is in contact with water or moisture (i.e. external doors), the space between the cement casing and the housing must be filled with a suitable sealing compound.

#### Maintenance and Repair

3

Carry out the following maintenance works regularly:

- Check the safety relevant components for their sturdy positioning and for wear and tear.
- Re-tighten the fixing screws and exchange defective components.
- > Test the settings (i.e. closing speed) and movement of the door.
- If necessary, apply grease to the moving components (i.e. arm assembly).

Repairs must be carried out by qualified personnel.

Only cleaning agents which do not contain corrosive elements may be used.

#### Fire and Smoke Control



Normally, fire and smoke control doors which have been approved by the building inspector must not be modified. The installation of a door closer or hold-open devices may require a proof of suitability in connection with the fireproof and smoke control door, a final check and an agreement or authorisation.

The construction of fireproof doors is subject to the clearly defined regulations of AS1905.1-2005. In addition, there are smoke-proof doors, the regulations of which are listed in AS1905.1-1997.



# FUNCTION

### GENERAL DOOR FUNCTIONS

#### **Closing Force**



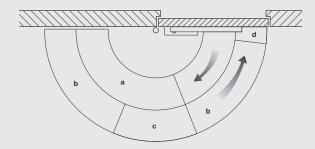
The closing force depends on the width of the door leaf. With most door closers, it can be set and adjusted exactly to the respective door situation. In case of particularly unfavourable local conditions (i.e. wind influence), door closers with a higher closing force must be used.

#### **Door Co-ordination**



In case of 2-leaf doors, the door coordinator ensures the correct closing sequence of both door leaves (inactive passive leaf before active leaf).

#### General Functions in the Door Operating Range



EN Force	Leaf Width (mm)
1	up to 750
2	750 - 850
3	850 - 950
4	950 - 1100
5	1100 - 1250
6	1250 - 1400

A door hold-open device (fixed opening) can be achieved

with additional special fittings (eg: hold-open arm) or with

With a free-swing arm assembly, the doors remain freely

function), however the door closes securely in case of a

movable (comparable with a door without closing

integrated construction elements (interlocking hold

open function). Door closers with hold-open arm or

interlocking hold-open functions are not suitable for

fireproof and smoke control doors.

Free-Swing Arm Assembly

fire.

#### a Back Check

With backcheck, the swing of a forcefully opened door (manually or for example by gusts of wind) is reduced. Damage to the door handle or wall are therefore minimised or eliminated. All GEZE door closers supplied by Häfele are fitted with Back Check functionality.

Hold-Open Device

#### **b** Closing Speed

The exact setting of the closing speed guarantees a controlled closing of the door leaf.

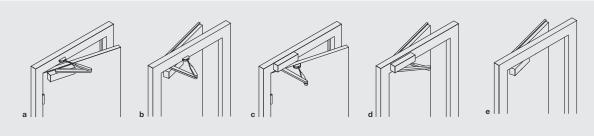
#### c Closing Delay

The Closing Delay increases the closing time so that, for example, persons carrying luggage or bulky items, mothers with prams, elderly persons, etc. have sufficient time to walk through the door.

#### d Latching Action

The Latching Action controls the closing of the door and ensures, that the lock closes reliably.

### **Fixing Types**



- **a** Standard fixing (door leaf fixing) on the pull side
- **b** Standard fixing (door leaf fixing) on the push side
- c Top jamb fixing on the pull side

- **d** Top jamb fixing on the push side
- e Parallel arm fixing on the push side



			Clo	osing	g for	се			Ver	rsion	1						
	Туре	Page	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
Overhead door closers with arm	1										1						
	TS 1500 BC	10			✓	✓					~		~				
	TS 2000 NVBC	12		✓	✓	✓					$\checkmark$		$\checkmark$				
	TS 4000	15	~	$\checkmark$	✓	~	~	~			$\checkmark$		$\checkmark$				
tosset	TS 4000 E	17	✓	$\checkmark$	✓	✓	$\checkmark$	✓		$\checkmark$			$\checkmark$				$\checkmark$
Overhead door closers with guid	de rail																
•	TS 1500 BCG	11	✓								$\checkmark$		$\checkmark$				
(1953)	TS 2000 NVBCG	13	✓	$\checkmark$	✓						$\checkmark$		$\checkmark$				
	TS 3000 VBC	14	✓	$\checkmark$	✓	✓					$\checkmark$		$\checkmark$				
	TS 4000 G	16	~	$\checkmark$	~	~	~				~		$\checkmark$				
	TS 5000	18		$\checkmark$	~	~	$\checkmark$	~			~		$\checkmark$				
	TS 5000 L	19		$\checkmark$	~	~	$\checkmark$	~			~		~				
	TS 5000 E	20		~	✓	~	$\checkmark$	~	~				$\checkmark$				
	TS 5000 L-E	21		$\checkmark$	✓	1	$\checkmark$	~	~				$\checkmark$				
	TS 5000 R	22		$\checkmark$	~	~	$\checkmark$	~	~			$\checkmark$	$\checkmark$				
	TS 5000 L-R	23		~	✓	~	~	~	~			~	~				
	TS 5000 ISM	24		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$					$\checkmark$	$\checkmark$		$\checkmark$	
	TS 5000 L-ISM	25		~	~	~	~	~					~	$\checkmark$		~	
	TS 5000 E-ISM	26		$\checkmark$	$\checkmark$	~	$\checkmark$	~	~				$\checkmark$	$\checkmark$		$\checkmark$	
	TS 5000 L-E-ISM	27		~	✓	✓	✓	~	~				~	~		~	
	TS 5000 R-ISM	28		$\checkmark$	~	~	$\checkmark$	~	$\checkmark$			$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	
	TS 5000 L-R-ISM	29		~	✓	~	✓	~	~			~	$\checkmark$	~		~	
	TS 5000 EFS	30		$\checkmark$	$\checkmark$	~	$\checkmark$			$\checkmark$			$\checkmark$		$\checkmark$		
	TS 5000 RFS	31		~	~	~	~			~		~	~		~		
	TS 5000 S	32		$\checkmark$	~	~	$\checkmark$	~			$\checkmark$		$\checkmark$				$\checkmark$
	Accessories	33															
Concealed door closers				·			·			I							
	Boxer I	36		✓	✓	<ul> <li>✓</li> </ul>			✓		~						
Ha-	Boxer II	37			$\checkmark$	~	$\checkmark$	~	$\checkmark$		$\checkmark$						
	Boxer P	38		~	~	~					~						
Floor springs	<u> </u>				I		I	1			1	I	I				
0 0 0	TS 500 NV	40	<ul> <li>✓</li> </ul>	✓	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>					~						
	TS 550 NV	41			~	~	$\checkmark$	~			$\checkmark$						$\checkmark$
	Accessories	42-45															
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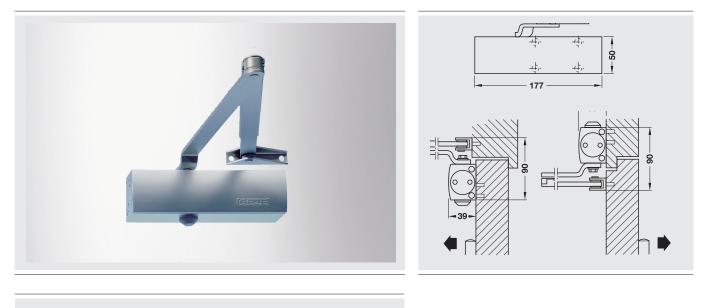


### GEZE OVERHEAD DOOR CLOSERS



### TS 1500 BC

EN 3, 4



> >

Version:	Supplied with back check function
Adjustment facility:	Closing force, closing speed and latching action adjustable
	,
Installation:	Suitable for standard installation on pull side or overhead
	installation on push side
Closing force:	3 or 4 in compliance with EN 1154
Door width:	<1,100 mm
Hold open angle:	70 – 150°
Mounting:	For DIN left hand and DIN right hand use
Standard:	Certified in compliance with EN 1154:1996/A1:2002
Finish:	Silver coloured

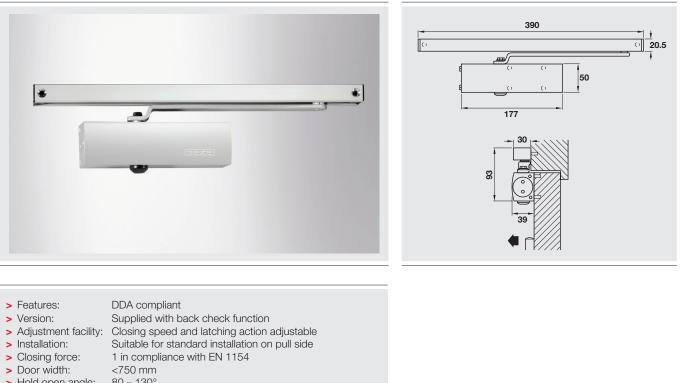
	Version	Cat. No.
F	TS 1500 BC with standard arm	931.17.149
	TS 1500 BC with hold-open arm	931.17.159
	Parallel arm bracket to suit TS 1500	931.16.329
Packi	ing: 1 piece	

#### Fire resistance and smoke control IF



### **TS 1500 BCG**

EN 1



>	F	loid	open	angle:

> Mounting:

- > Standard:
- > Finish:

80 – 130° For DIN left hand and DIN right hand use Certified in compliance with EN 1154:1996/A1:2002 Silver coloured

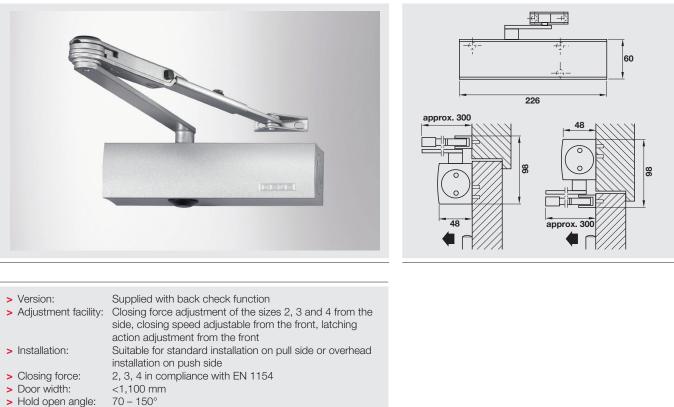
931.17.169
931.17.179
rt

#### Fire resistance and smoke control F



### **TS 2000 NVBC**

EN 2, 3, 4



- > Mounting: > Standard:
- > Finish:

F

70 – 150° For DIN left hand and DIN right hand use Certified in compliance with EN 1154:1997 Silver coloured

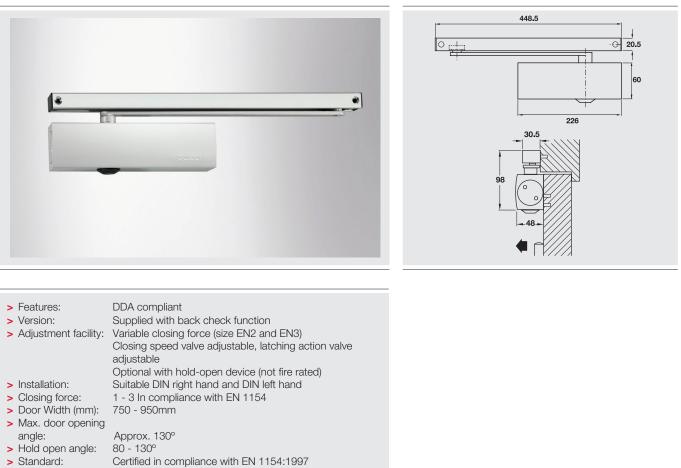
F TS 2000 NVBC	ith standard arm	931.16.269
TS 2000 NVBC	ith hold open arm	
	iumou-open am	931.16.279
Parallel arm brac	ket to suit TS 2000	931.16.329

#### Fire resistance and smoke control



### TS 2000 NVBCG

EN 1, 2, 3



Standard: Certified in corr
 Finish: Silver coloured

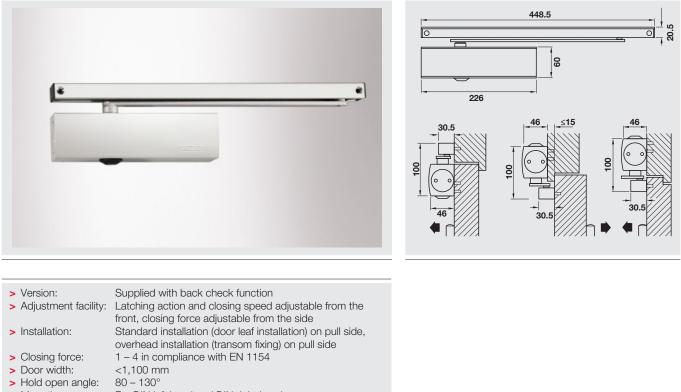
	Version	Cat. No.
F	TS 2000 NVBCG with guide rail	931.16.289
	TS 2000 NVBCG with hold-open guide rail	931.16.299
Pack	ing: 1 piece	

#### Fire resistance and smoke control



### **TS 3000 VBC**

EN 1 - 4



> Version:	Supplied with back check function
> Adjustment facility:	Latching action and closing speed adjustable from the
> Installation:	front, closing force adjustable from the side Standard installation (door leaf installation) on pull side, overhead installation (transom fixing) on pull side
Closing force:	1 – 4 in compliance with EN 1154
> Door width:	<1,100 mm
Hold open angle:	80 – 130°
> Mounting:	For DIN left hand and DIN right hand use
> Standard:	Certified in compliance with EN 1154:1996/A1:2002
> Finish:	Silver coloured

E	TS 3000 VBC with guide rail	931.10.699
Т	TS 3000 VBC with guide rail and hold-open insert	931.10.709
Т	TS 3000 VBC set with T-Stop guide rail	931.10.899



IF

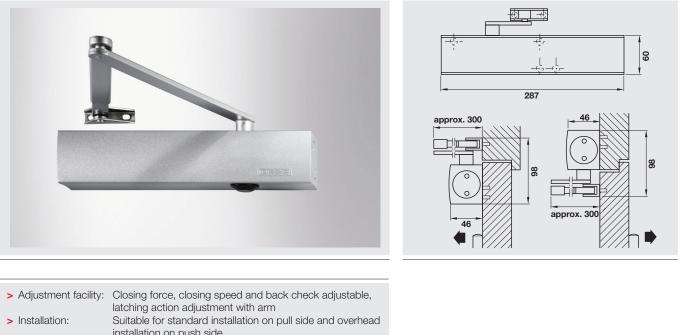
TS 3000 VBC is designed for pull side operation only.

Fire resistance and smoke control



### TS 4000

EN 1 - 6



	latching action adjustment with arm	
Installation:	Suitable for standard installation on pull side and overhead	
	installation on push side	
> Closing force:	1 – 6 in compliance with EN 1154	
> Door width:	<1,400 mm	
> Hold open angle:	Up to approx. 150°	
Mounting:	For DIN left hand and DIN right hand use	
Standard:	Certified in compliance with EN 1154:1996/A1:2002	
> Finish:	Silver coloured	

F TS 4000 set with standard arm	931.16.579
TS 4000 set with hold-open arm	931.16.589
Parallel arm bracket to suit TS 4000	931.16.329

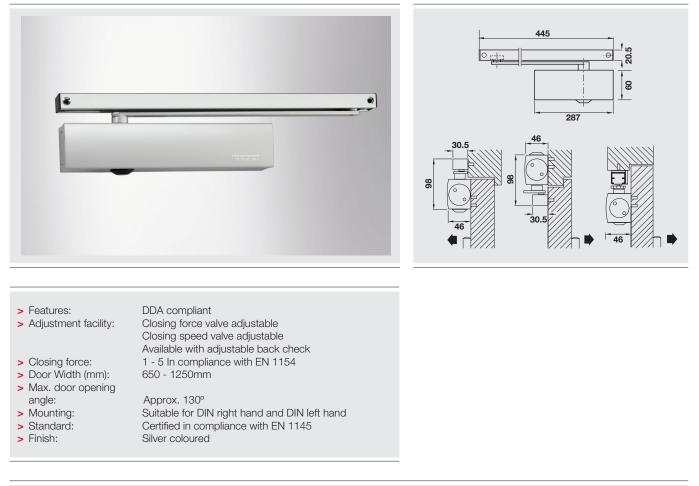
#### Packing: 1 piece

### F Fire resistance and smoke control



### TS 4000 G

EN 1 - 5



	Version	Cat. No.
F	TS 4000 G set with guide rail	931.17.189
	TS 4000 G with hold-open guide rail	931.17.199
	king: 1 piece	

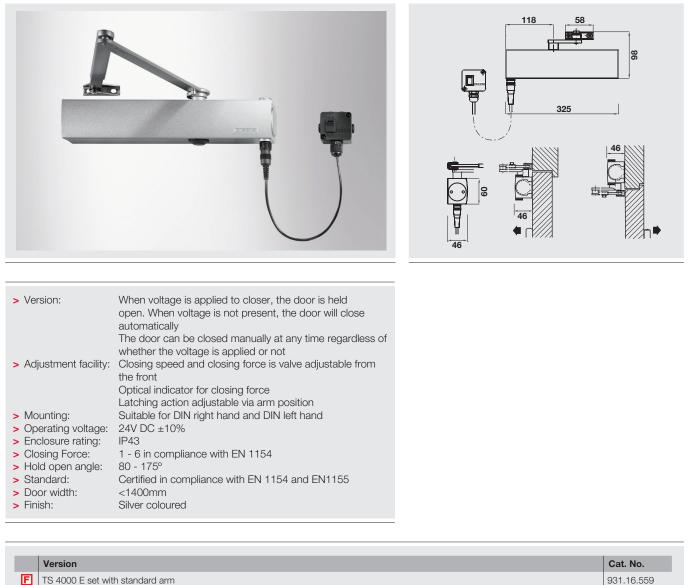


IF

TS 4000 G is designed for pull side operation only.

Fire resistance and smoke control





E	<b>F</b> TS 4000 E set with standard arm	
<b>-</b>	and the state of t	

Packing: 1 piece

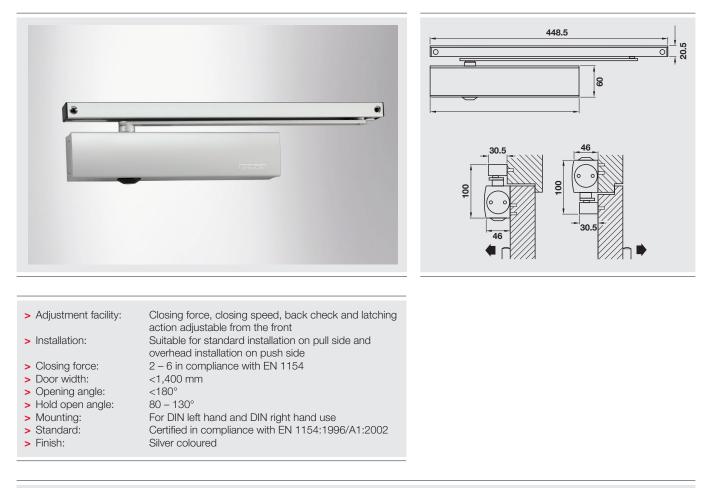
F

### Fire resistance and smoke control



### TS 5000

EN 2 - 6



	Version	Cat. No.
F	TS 5000 set with guide rail	931.10.609
	TS 5000 set with guide rail and hold-open insert	931.10.619
	TS 5000 set set with T-Stop guide rail	931.11.249
Pack	ing: 1 piece	



IF.

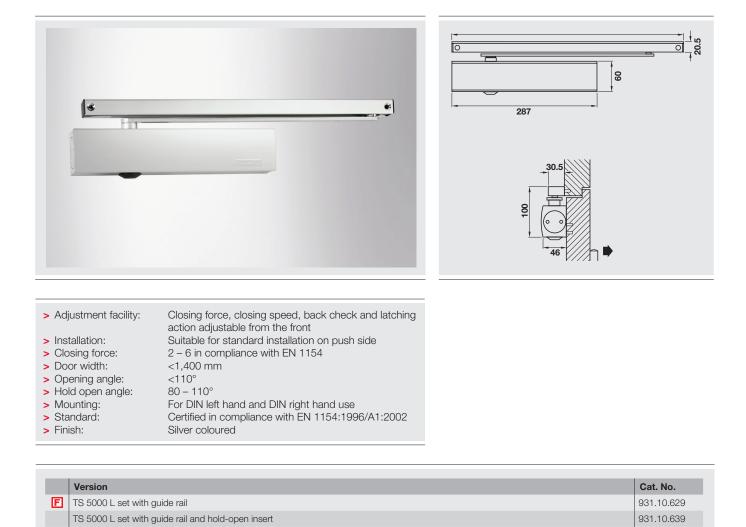
T-stop guide rail should be used for all external installations

Fire resistance and smoke control



### TS 5000 L

EN 2 - 6



Packing: 1 piece



F

T-stop guide rail should be used for all external installations

Fire resistance and smoke control

TS 5000 L set set with T-Stop guide rail

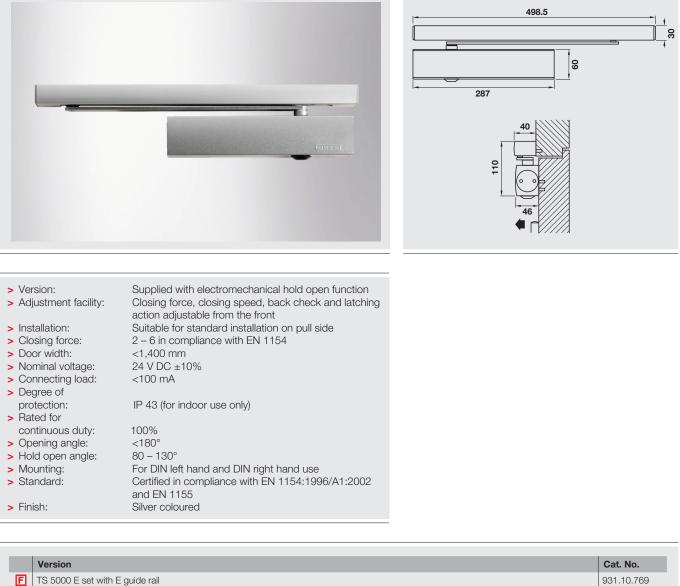
Tested for fire resistance and smoke control doors. Further information available upon request.

931.11.259



### TS 5000 E

EN 2 - 6



Packing: 1 piece

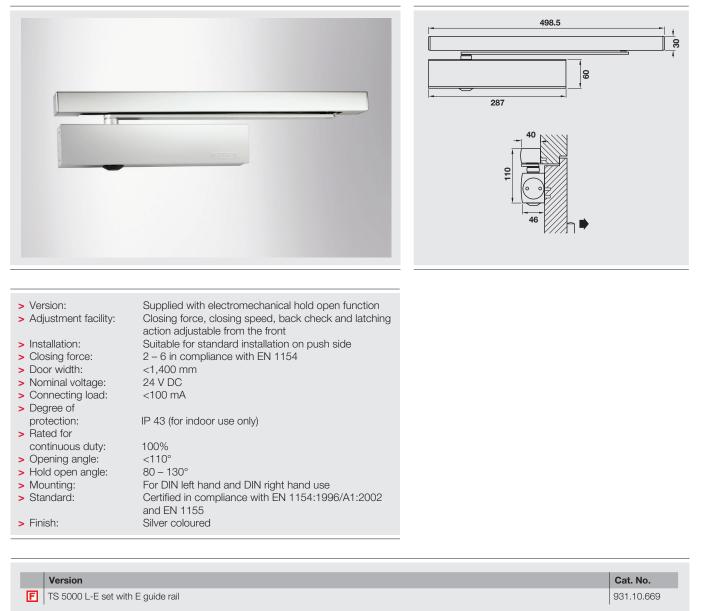
931.10.769

#### Fire resistance and smoke control F



### TS 5000 L-E

EN 2 - 6



Packing: 1 piece

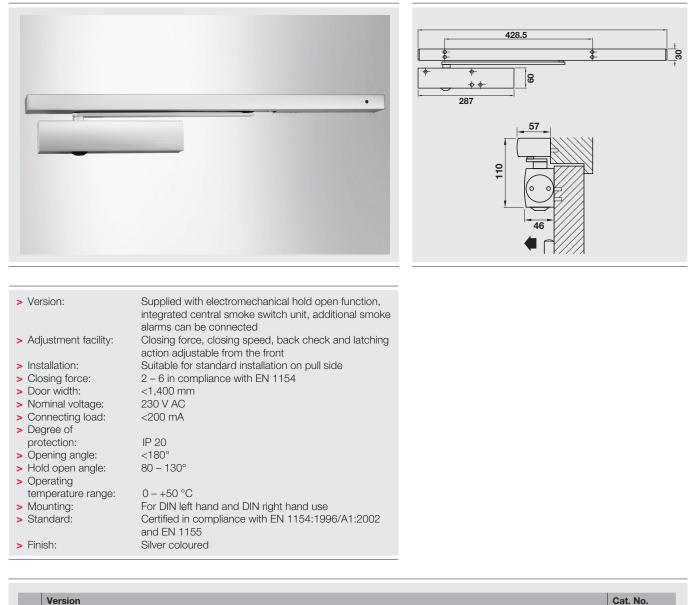
F

#### Fire resistance and smoke control



### TS 5000 R

EN 2 - 6



931.10.789

#### Version

F TS 5000 R set with R guide rail

Packing: 1 piece

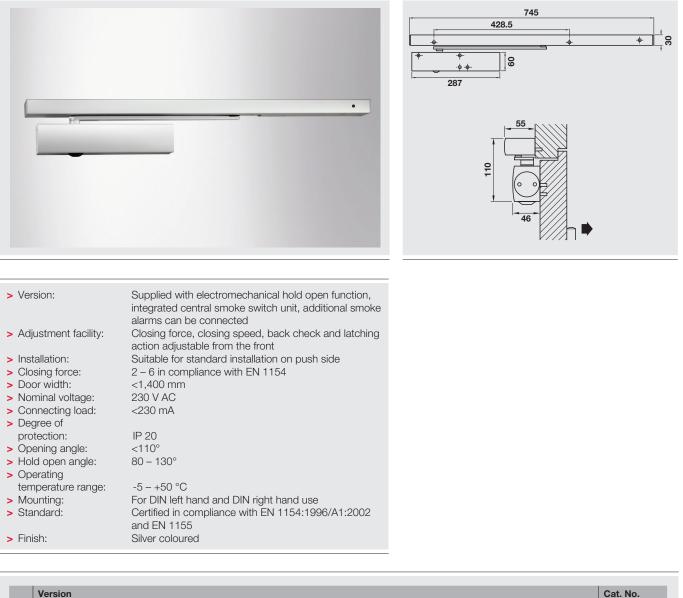
F

### Fire resistance and smoke control



### TS 5000 L-R

EN 2 - 6



#### Version

F TS 5000 L-R set with R guide rail

Packing: 1 piece

F

### Fire resistance and smoke control

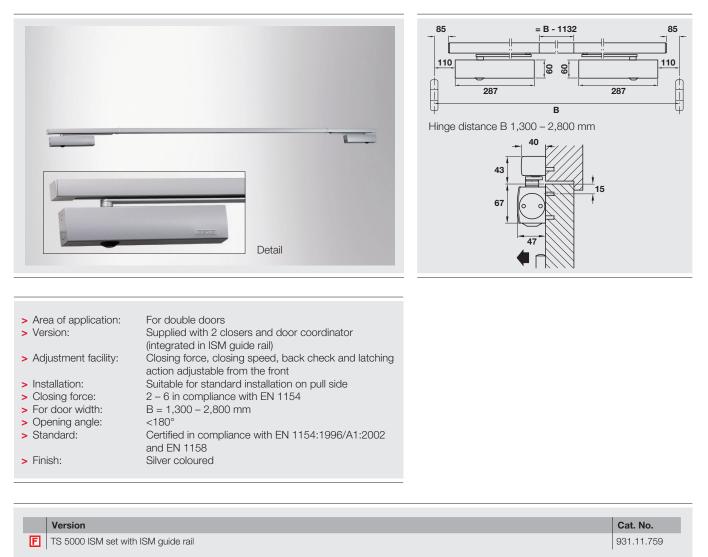
Tested for fire resistance and smoke control doors. Further information available upon request.

931.10.679



### TS 5000 ISM

EN 2 - 6



Packing: 1 piece

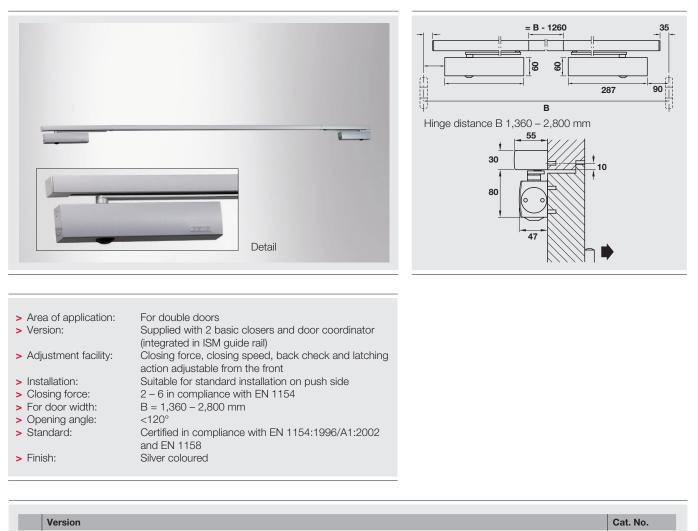
F

Fire resistance and smoke control



### TS 5000 L-ISM

EN 2 - 6



F TS 5000 L-ISM set with ISM guide rail

Packing: 1 piece

F

Fire resistance and smoke control

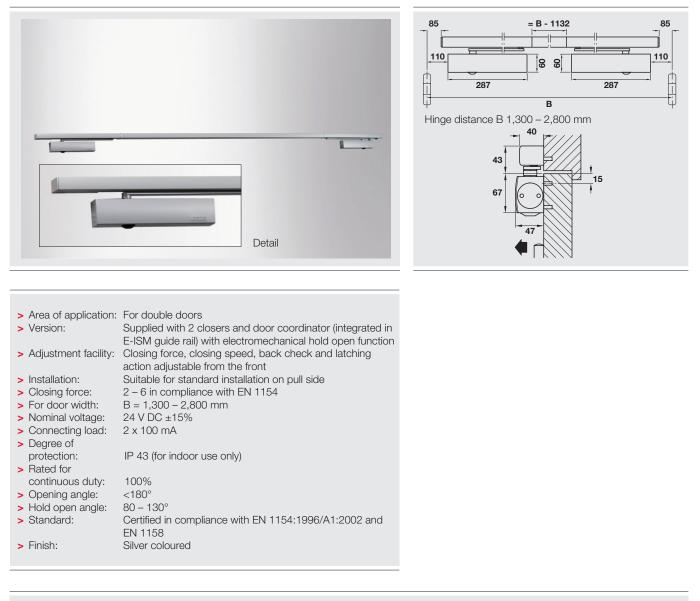
Tested for fire resistance and smoke control doors. Further information available upon request.

931.11.369



### TS 5000 E-ISM

EN 2 - 6



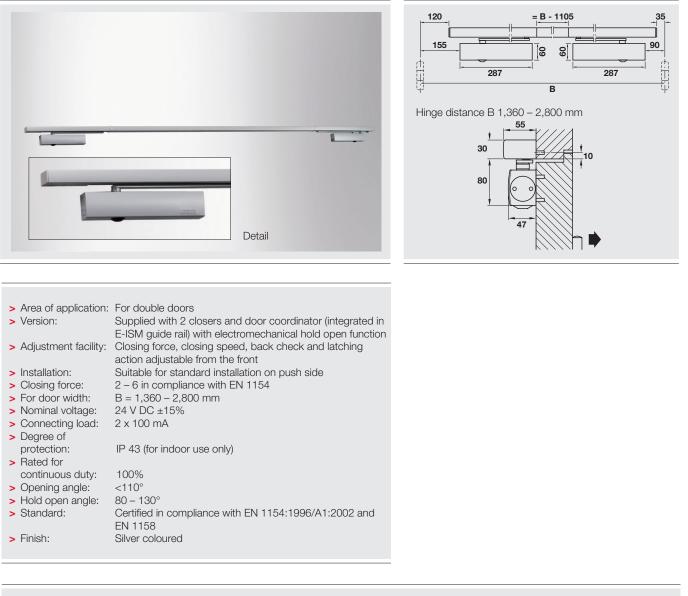
	Version	Cat. No.
F	TS 5000 E-ISM with E-ISM guide rail	931.11.769
Pack	sking: 1 piece	

### F Fire resistance and smoke control



### TS 5000 L-E-ISM

EN 2 - 6



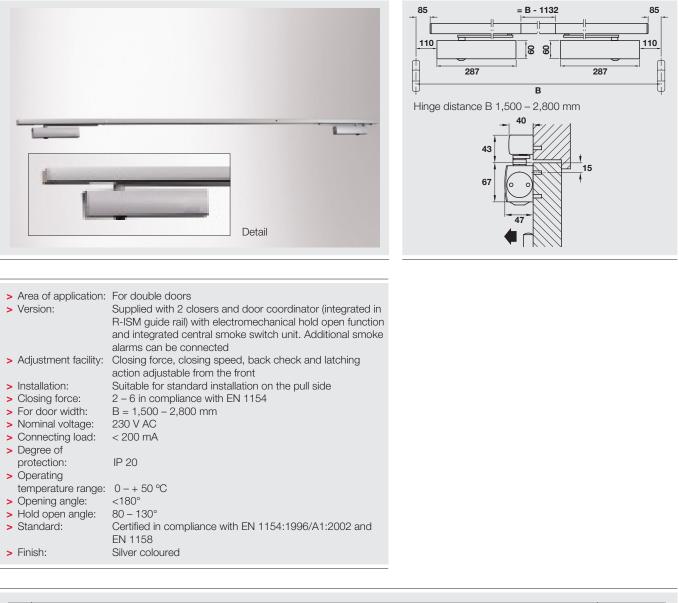
		Version	Cat. No.
	F	TS 5000 L-E-ISM with E-ISM guide rail	931.11.329
Ρ	acki	ing: 1 piece	

### Fire resistance and smoke control



### TS 5000 R-ISM

EN 2 - 6



	Version	Cat. No.
F	TS 5000 R-ISM with R-ISM guide rail	931.11.799
Pack	sing: 1 piece	

### Fire resistance and smoke control

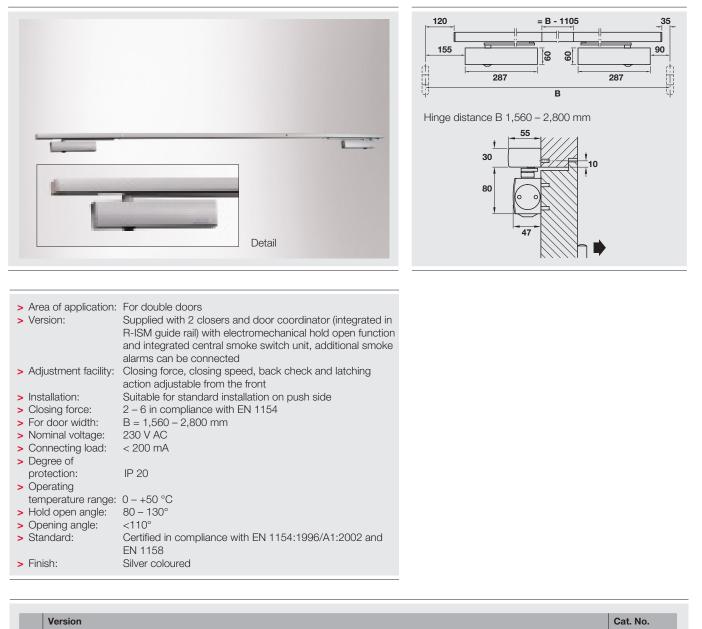
Tested for fire resistance and smoke control doors. Further information available upon request.

F



### TS 5000 L-R-ISM

EN 2 - 6



F TS 5000 L-R-ISM set with R-ISM guide rail

Packing: 1 piece

F

### Fire resistance and smoke control

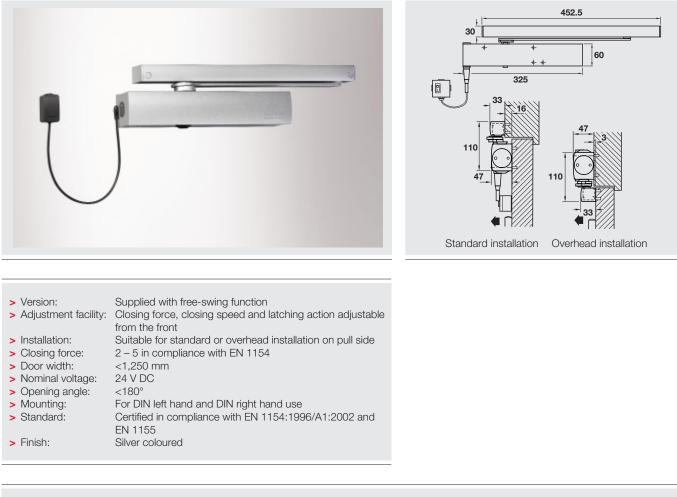
Tested for fire resistance and smoke control doors. Further information available upon request.

931.11.349



### TS 5000 EFS

EN 2 - 5



	Version	Cat. No.
F	TS 5000 EFS set with guide rail for standard installation	931.10.069
E	TS 5000 EFS set with guide rail for overhead installation	931.10.079
Deel		

Packing: 1 piece

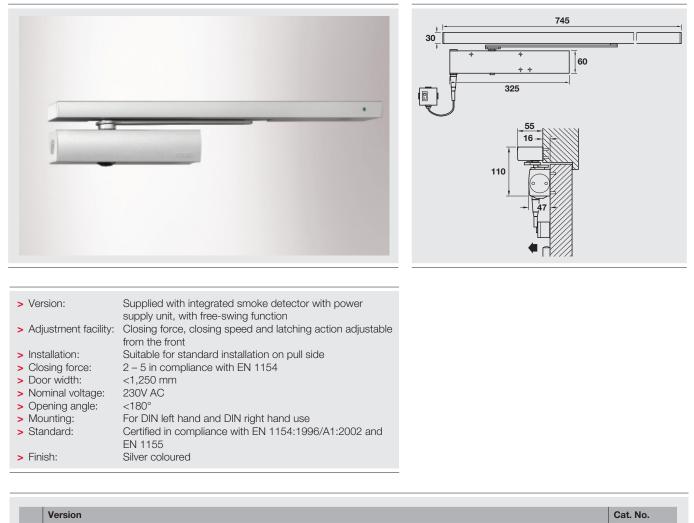
F

### Fire resistance and smoke control



### TS 5000 RFS

EN 2 - 5



**F** TS 5000 RFS set with guide rail for standard installation

Packing: 1 piece

F

Fire resistance and smoke control

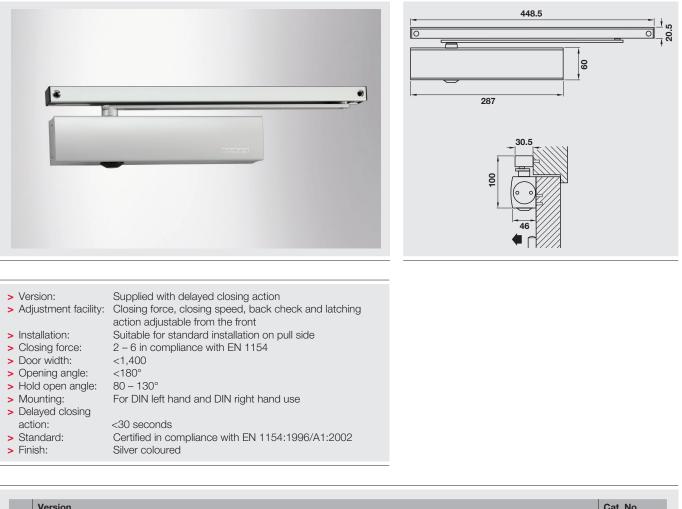
Tested for fire resistance and smoke control doors. Further information available upon request.

931.10.059



### TS 5000 S

EN 2 - 6



	Version	Cat. No.
E	TS 5000 S set with guide rail	931.11.859
	TS 5000 S set with guide rail and hold-open insert	931.11.899
Pack	ing: 1 piece	

Fire resistance and smoke control

Tested for fire resistance and smoke control doors. Further information available upon request.

F



### ACCESSORIES

### CLAMPING PLATES FOR FRAMELESS GLASS DOORS

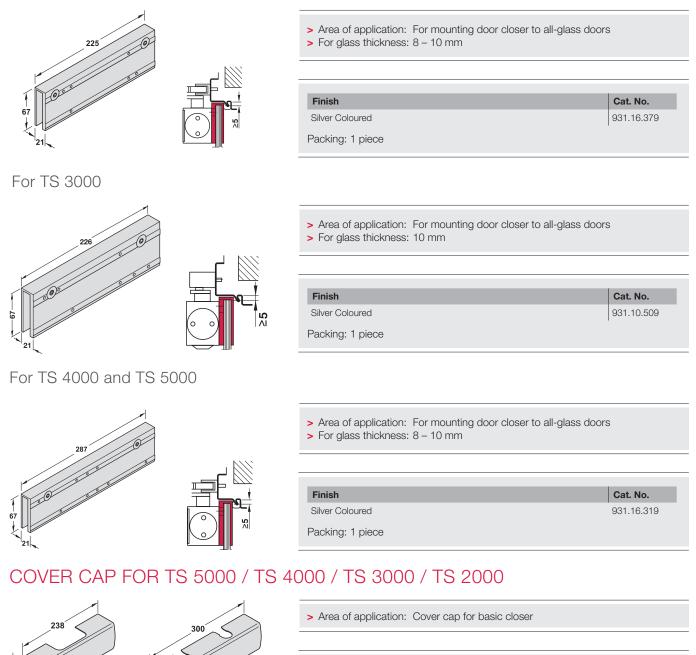
For TS 2000

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02 1

56



To suit door closer	Silver coloured	Stainless steel coloured	Dark bronze	Brass coloured	White, RAL 9016
TS 2000 / TS 3000	931.10.429	931.10.420	931.10.421	931.10.428	931.10.427
TS 4000 / TS 5000	931.10.409	931.10.400	931.10.401	931.10.408	931.10.407

### HAFELE

360° Project Service

## 360° PROJECT SERVICE

### 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, 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.





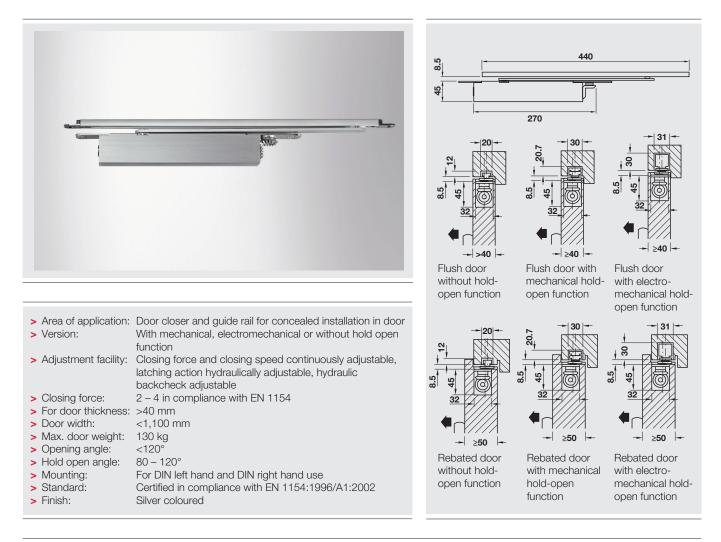
### CONCEALED DOOR CLOSERS



### CONCEALED DOOR CLOSERS

### BOXER I

EN 2 - 4



Version	Cat. No.
Boxer I set with guide rail	931.14.689
Boxer I set with guide rail and hold-open insert	931.15.009
Boxer I set with guide rail and electromechanical hold-open function	931.14.529

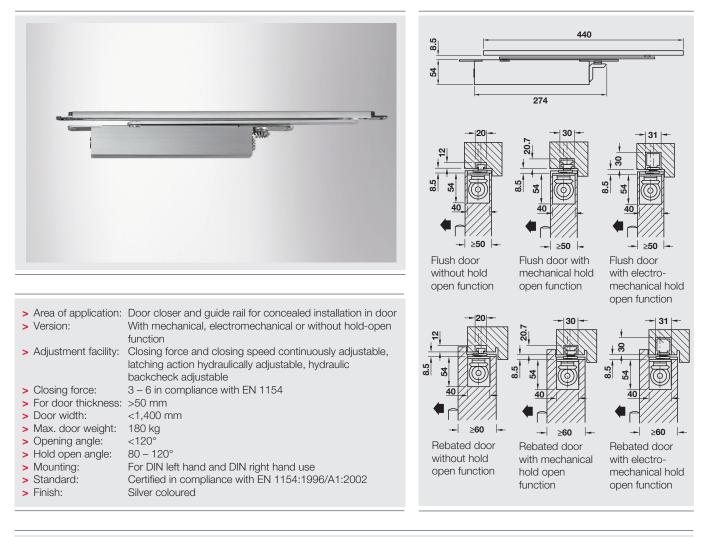
Packing: 1 piece



# CONCEALED DOOR CLOSERS

## BOXER II

EN 3 - 6



Version	Cat. No.
Boxer II set with guide rail	931.14.699
Boxer II set with guide rail and hold-open insert	931.15.019
Boxer II set with guide rail and electromechanical hold-open function	931.14.559

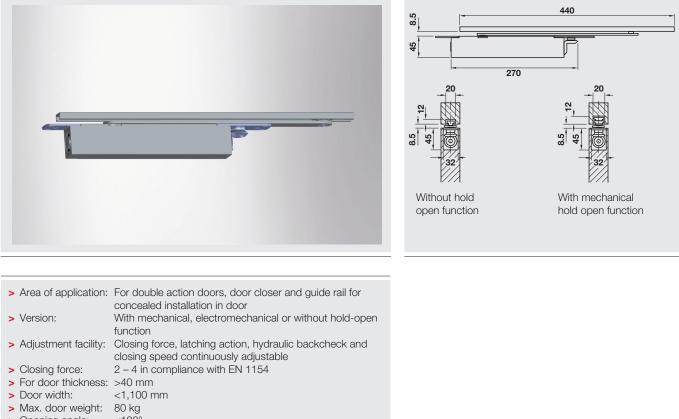
Packing: 1 piece



# CONCEALED DOOR CLOSERS

### BOXER P

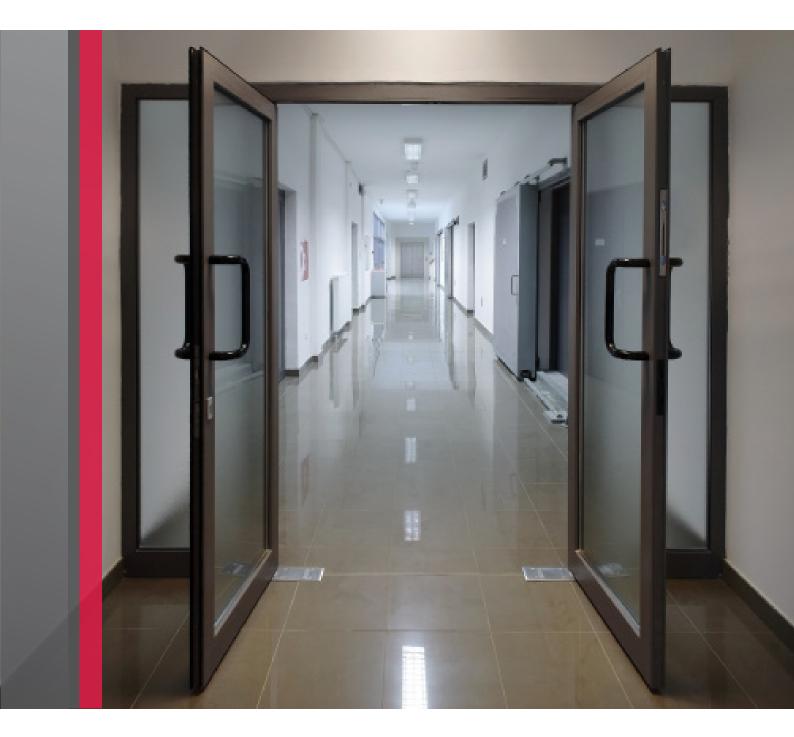
EN 2 - 4



> wax. door weight:	60 Kg
> Opening angle:	<120°
> Hold open angle:	80 – 120°
> Standard:	Certified in compliance with EN 1154:1996/A1:2002
> Finish:	Silver coloured

931.14.789
931.15.029





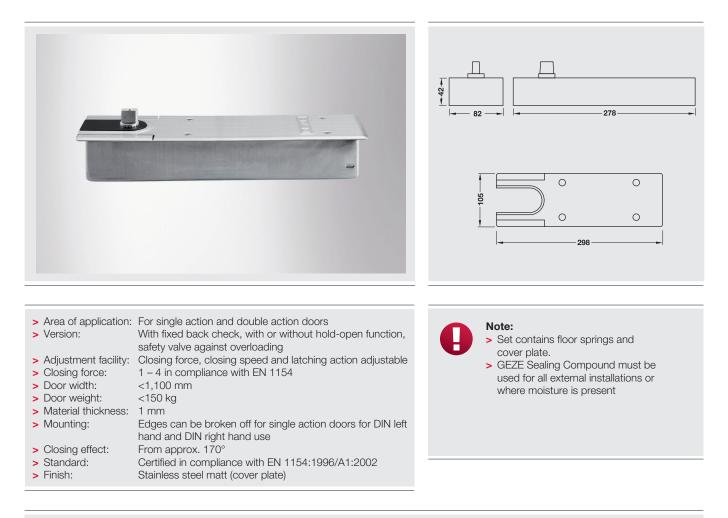
# FLOOR SPRINGS



# FLOOR SPRINGS

## TS 500 NV

EN 1 - 4



Cat. No.
932.10.047
932.10.049

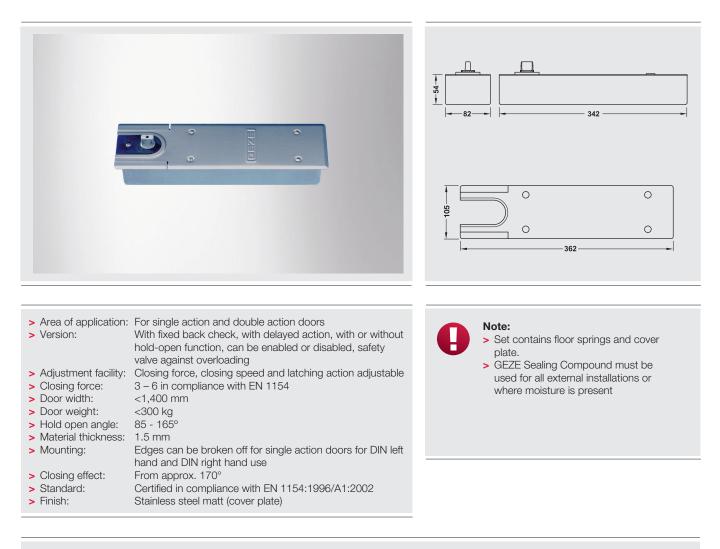
Packing: 1 set



## FLOOR SPRINGS

## TS 550 NV

EN 3 - 6

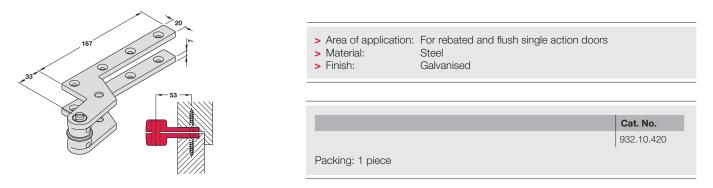


Version	Cat. No.
TS 550 NV set	932.10.054
Packing: 1 set	



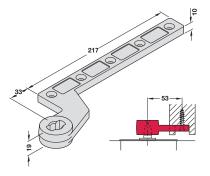
# ACCESSORIES

Top pivot for single action doors

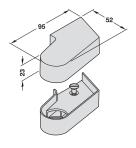


Packing: 1 pair

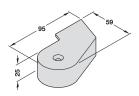
### Lower door strap for single action doors



Top pivot cover cap



### Lower door strap cover cap



> Area of application:	For welding to steel doors, for screw fixing to rebated and
	flush wooden doors or light metal doors
> Material:	Steel
> Finish:	Galvanised

	Cat. No.
	932.10.200
Packing: 1 piece	

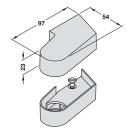
<ul><li>&gt; Area of application:</li><li>&gt; Material:</li><li>&gt; Finish:</li></ul>	For flush doors Aluminium Silver coloured		
		Cat. No	) <b>.</b>
		932.10.	529

	<ul><li>&gt; Area of application:</li><li>&gt; Material:</li><li>&gt; Finish:</li></ul>	For flush doors Aluminium Silver coloured	
ŝ			-

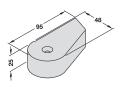
	Cat. No.
DIN left	932.10.519
DIN right	932.10.509
Packing: 1 piece	



### Top pivot cover cap



## Lower door strap cover cap

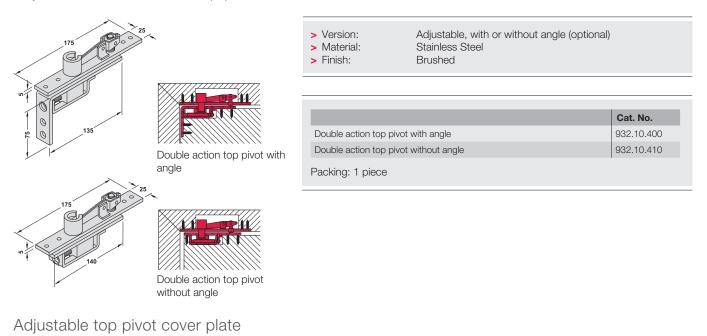


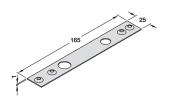
<ul><li>&gt; Area of application:</li><li>&gt; Material:</li><li>&gt; Finish:</li></ul>	For rebated doors Aluminium Silver coloured	
_		Cat. No.
DIN left		932.10.569
DIN right		932.10.559
Packing: 1 pair		

> Area of application: For rebated doors
 > Material: Aluminium
 > Finish: Silver coloured

	Cat. No.
DIN left	932.10.549
DIN right	932.10.539
Packing: 1 piece	

Adjustable double action top pivot for double action doors



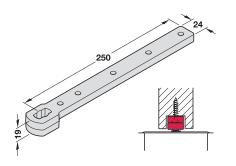


<ul><li>Material:</li><li>Finish:</li></ul>	Steel Galvanised	
		Cat. No.
		932.10.589
Packing: 1 piece		

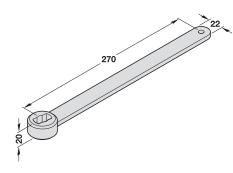


# ACCESSORIES

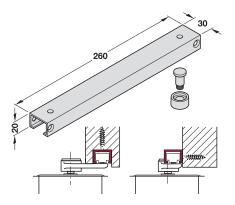
Door strap for double action doors



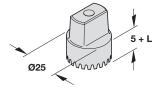
Double action bottom strap



Guide rail



Spindle extensions for floor springs



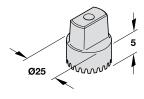
<ul><li>Material:</li><li>Finish:</li></ul>	Steel Galvanised	
		Cat. No.
		932.10.270
Packing: 1 piece		
	For doors with bearing hinges	
<ul><li>Material:</li><li>Finish:</li></ul>	Steel Galvanised	
_		Cat. No.
		932.10.440
Packing: 1 piece		
0		
> Area of application:	For double action bottom strap, for doors	with bearing
> Material:	hinges Steel	
<ul><li>Material:</li><li>Finish:</li></ul>	Galvanised	
		Cat. No.
		932.10.430
Packing: 1 piece		
Packing: 1 piece		

> Features:	To increase the floor clearance (i.e. for doors with thresholds or floors fitted with carpets)
> Mounting:	With radial serrations Suitable for DIN right hand and DIN left hand

Length (L) mm	Cat. No.
5	932.10.700
10	932.10.703
15	932.10.705
20	932.10.706
25	932.10.707
Packing: 1 piece	

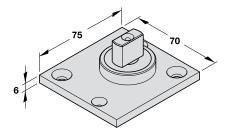


## 5° Offset spindle for floor springs

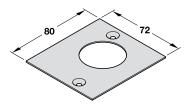


> Features:	Provides a preload pressure to	hold door in closed posit
		Cat. No.
Left Hand		932.10.770
Right Hand		932.10.771
Packing: 1 piece		

### TS 137B Pivot bearing with flat conical axle



## TS 137B Cover plate



Sealing Compound



> Max. door leaf weight (kg):	250	
Finish Brushed Stainless Steel Packing: 1 piece		<b>Cat. No.</b> 932.10.601
Finish Brushed Stainless Steel Packing: 1 piece		<b>Cat. No.</b> 932.10.602
> Features:	Low viscous, 2-part reactive resin to be us	sed for sealing
	gaps between floor spring and installation For use with external or wet area application	box
_		<b>Cat. No.</b> 932.10.310

Note:

> GEZE Sealing Compound must be used for all external installations or where moisture is present

Packing: 1 piece (0.4kg) 0.8kg



# AUTOMATIC SWING DOORS







EMD-F



EMD



EC-Turn

Powerturn

> GEZE offer a comprehensive range of electronically operated swing door mechanisms to suit all commercial and residential applications.

> GEZE automatic swing door mechanisms are designed specifically for large and heavy doors, and also to provide maximum accessibility and increased safety.

> Please contact your local Häfele sales office for further details on the GEZE automatic swing door product range.

# AUTOMATIC SLIDING DOORS







EC Drive



Power Drive

Slim Drive

- > GEZE offer a comprehensive range of sliding doors are space saving, elegant and modern.
- > The large number of variations available in the GEZE automatic sliding door product range, means that the perfect system can be provided for every application large or small, commercial or residential.
- > Please contact your local Häfele sales office for further details on the GEZE automatic sliding door product range.



# 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



Palacio de las Artes, Valencia, Spain



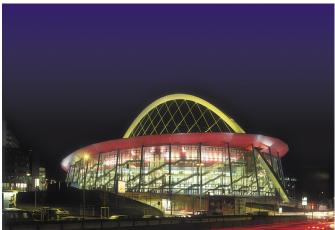
BMW Museum, Munich, Germany



Vienna University of Economics and Business, Vienna, Austria



Neuer Zollhof, Dusseldorf, Germany



Cologne Arena, Cologne, Germany



## DOOR WEIGHT CALCULATION GUIDE



Please refer to the Building Code and relevant Australian Standards for Glass to determine suitable glass type and maximum permissible size for each individual application. The information on this page is a guide only.

### Softwoods and Hardwoods

Standard doors 2040 mm high x 35 mm thick		
Width (mm)	Hollow core (kg)	Solid core (kg)
620	11.8	22.8
720	13.0	31.6
770	14.0	33.8
820	14.8	36.0
870	15.0	38.2

### Softwoods and Hardwoods

Seasoned weight:	kg/m3
Blackbutt	930
Brush Box	930
Canada Pine	460
Douglas Fir (Oregon)	480/ 560
Hoop Pine	540
Pacific Maple (Meranti)	450/ 720
Radiata Pine	480
Red Cedar	420
Red Mahogany	500
Redwood	450
Spotted Gum	930
Sydney Blue Gum	910
Tallowwood	990
Tasmanian Oak	680
Turpentine	910
Western Red Cedar	370
White Cypress Pine	690

### Ply, Hardboard, Wallboards, MDF etc.

Туре	Thickness (mm)	kg/m2
Plywood	4.5	2.50
Hardwood	3.0	3.30
Wallboard - Plaster	10.0	6.70
	13.0	8.50
Fibre Cement	6.0	11.00
	9.0	17.00
	12.0	22.50
Medium Density Fibreboard	6.0	4.80
(MDF)	9.0	7.20
	12.0	9.40
	16.0	12.60
	18.0	13.88
	25.0	19.30
	32.0	25.10
	40.0	27.00

#### Aluminium

Туре	Thickness (mm)	kg/m2
Sheet	1.2	3.71
	1.6	4.88
	2.0	6.20

### Steel

Туре	Thickness (mm)	kg/m2
Steel Sheet	0.5	3.93
	1.0	7.85
	2.0	15.70
	3.0	23.55
Steel Cladding	0.5	5.03
	0.7	6.90
	0.9	8.82
Expanded 10 mm mesh	0.6	1.61

### Various Materials

Туре	kg/m3
Brass	8,410
Expanded Polystyrene	16
Lead	11,422
Marble	2,723

### **Solid Timbers**

Туре	Thickness (mm)	kg/m2
Oak	16	10.88
	19	12.92
Pine	16	8.80
	19	10.50
Teak	16	9.92
	19	11.80

### Laminex Structural MR, Lamiwood and Vertiboard

Туре	Thickness (mm)	kg/m2
Structural MR	18	14.32
	25	20.04
	33	26.88
Lamiwood	5	4.86
	9	7.44
	12	9.82
	16	13.08
	18	14.32
	25	20.04
	32	26.06
Vertiboard	10	8.14
	13	10.48
	16	12.90
	18	14.11
	25	19.75
	35	26.49

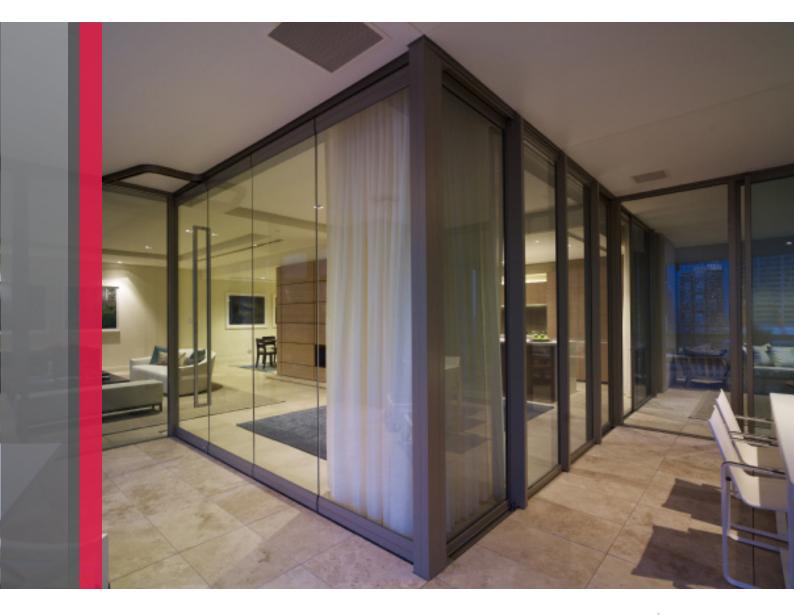
#### Glass

Туре	Thickness (mm)	kg/m2
Glass	4	10
	6	15
	8	20
	10	25
	12	30
	15	37.5
	19	47.5



# SLIDING AND FOLDING

ERGONOMICS, EFFICIENCY AND AESTHETICS. WE SIMPLY CALL IT FUNCTIONALITY.



The 2014 Häfele Sliding and Folding catalogue for Furniture and Buildings contains the very latest ergonomic, efficient and aesthetically pleasing sliding and folding door solutions available from Häfele for you, the architect, the developer, investor, builder or installer.

With solutions for timber, glass or framed doors, there is a new design freedom that can be found within these pages to make your next project exciting and successful.

Download your free copy now at: **www.hafele.com.au** 





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GEZE SLIDING, TELESCOPIC AND FOLDING DOORS - 11.2015

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