



## **GEZE Door Technology**

A Combination of Ease, Comfort and Convenience

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# GEZE TS 1000C

## Overhead Rack and pinion door closer

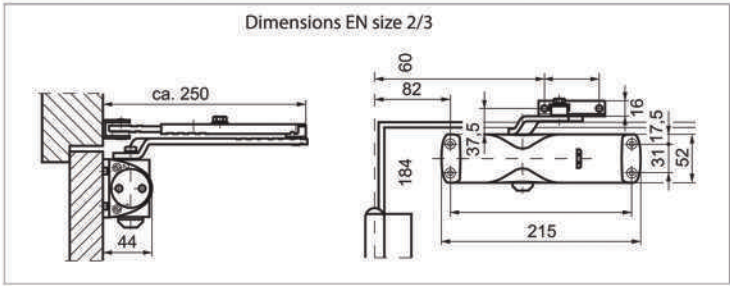


### Data and Features

|                           |                                  |
|---------------------------|----------------------------------|
| Closer Strength           | EN2/3                            |
| Maximum Door Width        | 950mm                            |
| Maximum Door weight       | 80 Kg                            |
| Handling of the closer    | Non Handed                       |
| Power Transmission        | Link Arm                         |
| Closing Speed 1           | 180-15 Degrees                   |
| Closing Speed 2           | 15-0 Degrees                     |
| Back Check                | No                               |
| Delayed Closing           | No                               |
| Hold Open                 | Optional with Hold open Link Arm |
| Weight of the closer body | Approx 2.2 Kg                    |
| Dimensions                | 215 (L)x52 (H)x 44 (D)           |

### PRODUCT FEATURES

- ▶ Variable closing force in two sizes achieved by simply turning the link arm's power shoe
- ▶ 'Weak' (closing force size 2 to EN 1154) for leaf widths up to 850 mm.
- ▶ 'Strong' (closing force size 3 to EN 1154) for leaf widths up to 950 mm
- ▶ Closing speed adjustable, as is hydraulic latching action
- ▶ Option: with hold-open link arm allowing the closer to hold doors open between 70° and 150°



### Accessories

|                      |
|----------------------|
| Mounting back plate  |
| Parallel arm bracket |

### Specification Text

Overhead rack and pinion door closer  
GEZE TS 1000 C with adjustable closing speed  
and adjustable latching action, also available  
with optional mounting plate

- Finish:
- () silver
  - () dark bronze
  - () white
  - () black
  - () brass-colored
  - () RAL ...

**GEZE TS 1500**

## Overhead Rack and pinion door closer

**Data and Features**

|                           |                                  |
|---------------------------|----------------------------------|
| Closer Strength           | EN 3/4                           |
| Maximum Door Width        | 1100 mm                          |
| Maximum Door weight       | 80 Kg                            |
| Handling of the closer    | Non Handed                       |
| Power Transmission        | Link Arm                         |
| Closing Speed 1           | 180-15 Degrees                   |
| Closing Speed 2           | 15-0 Degrees                     |
| Back Check                | No                               |
| Delayed Closing           | No                               |
| Hold Open                 | Optional with Hold open Link Arm |
| Weight of the closer body | Approx 2.2 Kg                    |
| Dimensions                | 177 (L)x50 (H)x39 (D)            |

**Accessories**

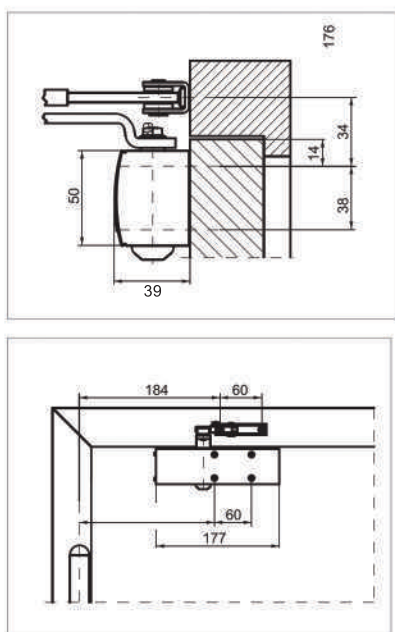
|                     |
|---------------------|
| Mounting back plate |
| Cover caps          |

**Other models**

|                                        |
|----------------------------------------|
| TS 1500 BC Door closer with Back check |
|----------------------------------------|

**PRODUCT FEATURES**

- ▶ Variable closing force in two sizes achieved by simply turning the link arm's power shoe
- ▶ 'Weak' (closing force size 3 to EN 1154) for leaf widths up to 950 mm
- ▶ 'Strong' (closing force size 4 to EN 1154) for leaf widths up to 1100 mm
- ▶ Closing speed adjustable, as is hydraulic latching action
- ▶ Option: with hold-open link arm allowing the closer to hold doors open between 70°-150°

**Specification Text**

Over head Rack and pinion door closer GEZE TS 1500 complete with arm, adjustable closing speed and latching action

Finish:

- () silver
- () dark bronze
- () white
- () RAL

## GEZE TS 1500 G

Overhead Rack and pinion door closer with guide rail

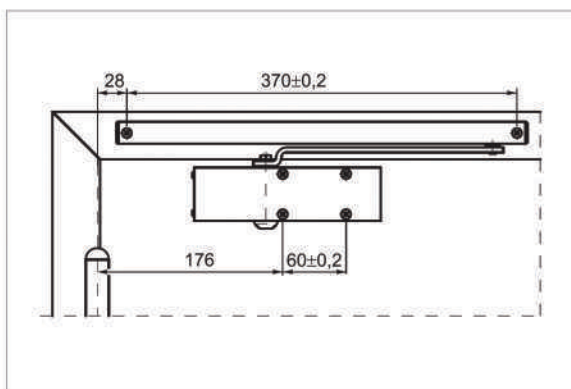
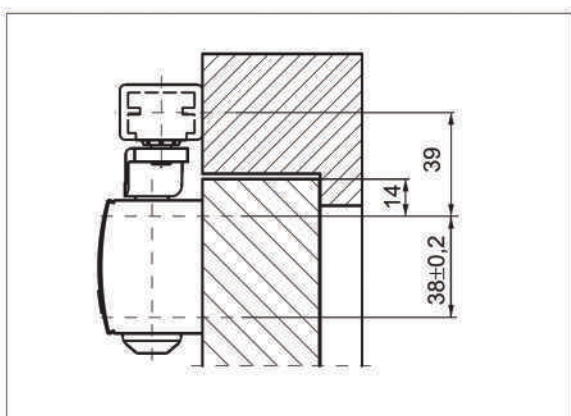
### Data and Features



|                           |                                |
|---------------------------|--------------------------------|
| Closer Strength           | EN1                            |
| Maximum Door Width        | 750mm                          |
| Maximum Door weight       | 40 Kg                          |
| Handling of the closer    | Non Handed                     |
| Power Transmission        | Guide Rail                     |
| Closing Speed 1           | 180-15 degrees                 |
| Closing Speed 2           | 15-0 Degrees                   |
| Back Check                | No                             |
| Delayed Closing           | No                             |
| Hold Open                 | Optional with Hold open Device |
| Weight of the closer body | Approx 2.4 Kg                  |
| Dimensions                | 177 (L)x50 (H)x39 (D)          |

### PRODUCT FEATURES

- ▶ Fixed closing strength of EN1
- ▶ Recommended for interior application
- ▶ Closing speed and latching speed adjustable
- ▶ Optional T-Stop guide rail
- ▶ Optional hold open mechanism to keep the door open between 70°-150°



### Specification Text

Overhead rack and pinion door closer GEZE TS 1500 G with guide rail, for leaf widths up to 850 mm, adjustable closing speed and latching action,

Finish:

- () silver
- () dark bronze
- () white
- () RAL ...

**GEZE TS 1100C**

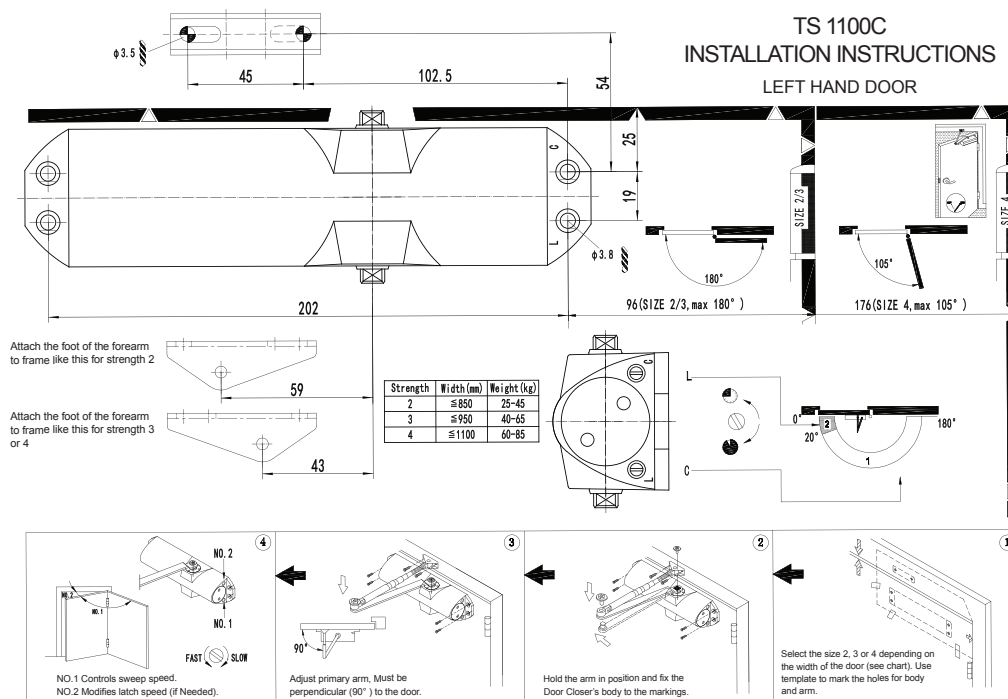
Surface mounted door closer with link arm - Fire rated

**PRODUCT FEATURES**

- ▶ Variable closing force of EN2/3/4 by reversing the bearing block
- ▶ Can be used for right and left hand doors without conversion
- ▶ Max door weight 80Kg
- ▶ Tested on steel fire door as per
  - EN 1634--1:2014+A1:2018
  - EN 1154:1996+A1:2002+AC:2006
- ▶ Closing speed can be individually adjusted
  - Speed1 180-0 degrees
  - Speed2 20 – 0 degrees

**Areas of Application**

- Right and left single-action doors in the interior area
- Single-action doors up to 1100 mm leaf width
- Door leaf installation on hinge side and transom installation on opposite hinge side
- Door leaf installation on the opposite hinge side in parallel arm installation



## GEZE TS 2100

Surface mounted door closer with link arm - Fire rated

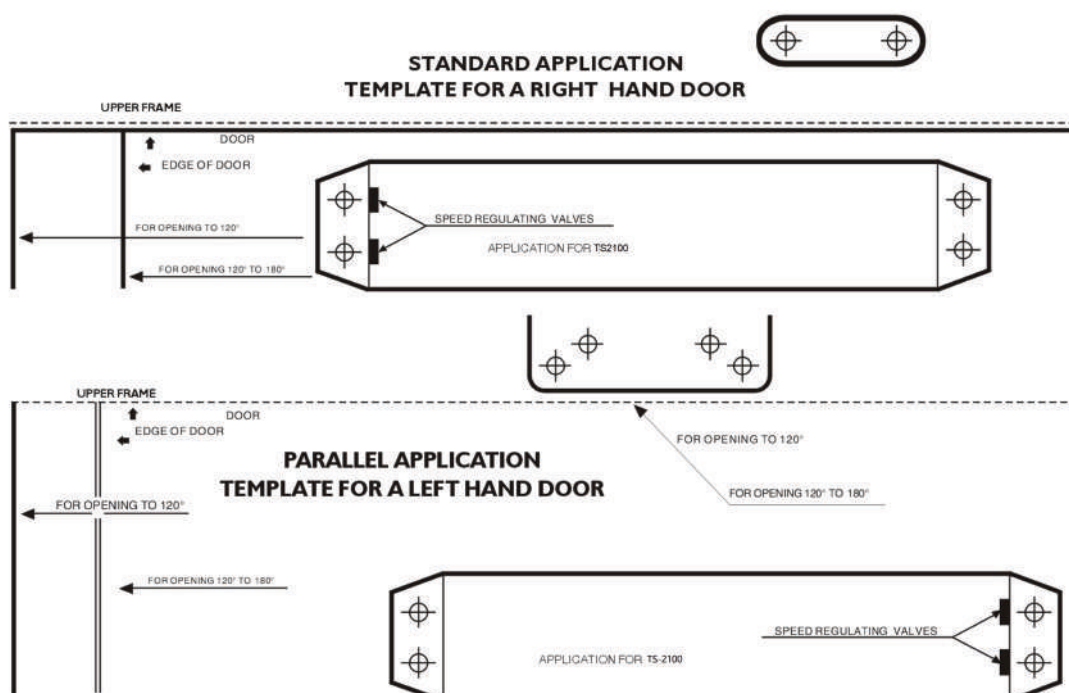


### PRODUCT FEATURES

- ▶ Variable closing force of EN 2-5 by reversing the bearing block
- ▶ Can be used for right and left hand doors without conversion
- ▶ Max door weight 100Kg
- ▶ Tested on steel fire door as per
  - EN 1634--1:2014+A1:2018
  - EN 1154:1996+A1:2002+AC:2006
- ▶ Adjustable closing speed , latching Speed and Back check

### Areas of Application

- Fire protection doors
- Right and left single-action doors
- Single-action doors upto 1250 mm leaf width and very high weight
- Door leaf installation hinge side and transom installation opposite hinge side
- Door leaf installation opposite hinge side in parallel arm bracket



## GEZE TS 2000 NV / NV BC

Over head Rack and pinion door closer

### Data and Features



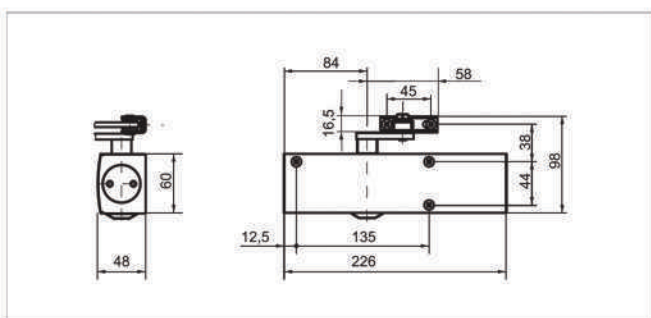
|                           |                             |
|---------------------------|-----------------------------|
| Closer Strength           | EN2-4                       |
| Maximum Door Width        | 1100 mm                     |
| Maximum Door weight       | 80 Kg                       |
| Handling of the closer    | Non Handed                  |
| Power Transmission        | Link arm                    |
| Closing Speed 1           | 180-0 degrees               |
| Back Check                | No                          |
| Delayed Closing           | No                          |
| Hold Open                 | Optional with Hold open arm |
| Weight of the closer body | Approx 2.4 Kg               |
| Dimensions                | 226 (L)x60 (H)x48 (D)       |

### Data and Features

TS 2000 NV BC Door closer with back check

## PRODUCT FEATURES

- ▶ Closing force size EN 2-4 infinitely adjustable
- ▶ Closer in only one construction size
- ▶ Closing speed and latching action adjustable at front
- ▶ Hydraulic back check adjustable at front(TS 2000 NV BC only)
- ▶ Fire rated
- ▶ Option: with hold-open link arm allowing the closer to hold doors open between 70°-150°



### Accessories

|                                                            |
|------------------------------------------------------------|
| Extended Link arm for reveal depth from 70-170 mm          |
| Clamping plate for frameless glass doors                   |
| Lintel casing bracket for transom mounting                 |
| Mounting plate for segmental arch doors                    |
| Cover caps of various finishes                             |
| Serrated spindle extension 10mm, 15 mm and 20 mm           |
| Mounting plate and counter plate for frameless glass doors |

### Specification Text

GEZE Overhead door closer TS 2000 NV / NV BC with infinitely adjustable closing force size 2-4, EN 1154, closing force adjustment from side, closing speed and latching action, adjustable from front. Hydraulic back check (TS 2000 NV BC only)

Colour:

- ( ) silver
- ( ) dark bronze
- ( ) white
- ( ) RAL...

## GEZE TS 4000

### Overhead Rack and pinion door closer



#### Data and Features

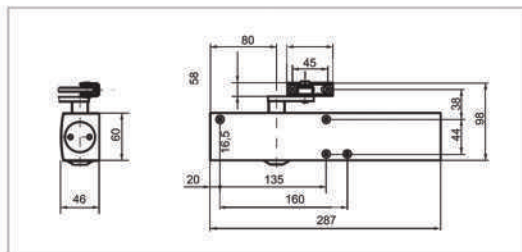
|                           |                                  |
|---------------------------|----------------------------------|
| Closer Strength           | EN1-6 and EN 5-7                 |
| Maximum Door Width        | 1400mm and 1600 mm               |
| Maximum Door weight       | 120 Kg and 160 Kg                |
| Power Indicator           | Optical panel with steel ball    |
| Handling of the closer    | Non Handed                       |
| Power Transmission        | Link arm                         |
| Closing Speed             | 180-0 degrees                    |
| Back Check                | Yes. From 70-180 degrees         |
| Delayed Closing           | No                               |
| Hold Open                 | Optional with Hold open Link arm |
| Weight of the closer body | Approx 3 Kg                      |
| Dimensions                | 287 (L)x60 (H)x46 (D)            |

#### PRODUCT FEATURES

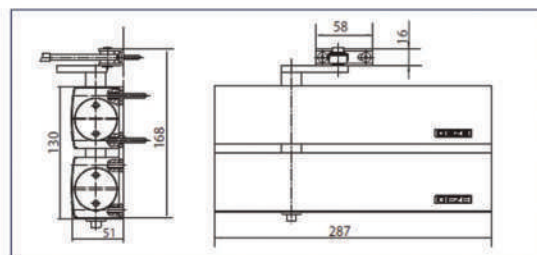
- Closing force size EN 1-6 and size EN 5-7 adjustable
- Closer in only one construction size
- Optical power size indicator
- Backcheck and thermo constant closing speed adjustable at front
- Latching action adjusted via link arm
- Safety valve in open and close direction
- Separate model for EN 1-6 and EN 5-7
- Fire rated

#### Other Models

|                                                                                                           |
|-----------------------------------------------------------------------------------------------------------|
| TS 4000 S Door closer with Delayed action                                                                 |
| TS 4000 E Door closer with electro hydraulic hold open                                                    |
| TS 4000 EFS Door closer with free swing link arm                                                          |
| TS 4000 R Door closer with electro hydraulic hold open and inbuilt smoke detector                         |
| TS 4000 RFS Door closer with electro hydraulic hold open, free swing link arm and integral smoke detector |
| TS 4000 Tandem Single-action doors from 1600 mm leaf width and very high weight                           |



#### TS 4000 Tandem



#### Accessories

|                                                           |
|-----------------------------------------------------------|
| Extended Link arm for reveal depth from 70-170 mm         |
| Mounting back plate                                       |
| Clamping plate for frameless glass doors                  |
| Lintel casing bracket for deep transom mounting           |
| Parallel arm bracket                                      |
| Mounting plate for segmental arch doors                   |
| Cover caps of various finishes                            |
| Serrated spindle extension 10mm, 15 mm and 20 mm          |
| Mounting plate and counter plate for frameless glass door |

#### Specification Text

Overhead door closer GEZE TS-4000 for mounting on smoke and fire-proof doors size 1-6 and 5-7 as per EN 1154 A, closing force adjustable at front, closing speed and back check adjustable at front, with visual size indicator, standard type of installation: doormount/hinge side. Also available with optional mounting plate

Finish:

- () silver
- () dark bronze
- () white
- () RAL...

## GEZE TS 3000 V

### Overhead special Rack and pinion door closer

#### Data and Features



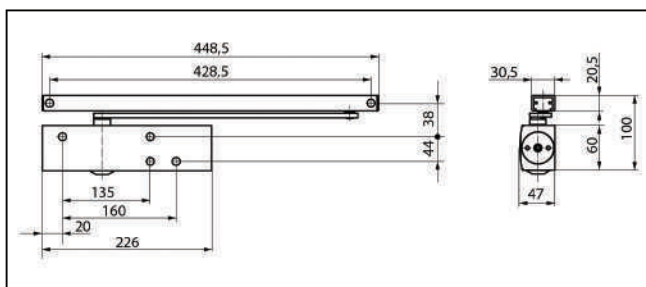
|                           |                                |
|---------------------------|--------------------------------|
| Closer strength           | EN1-4                          |
| Maximum door width        | 1100 mm                        |
| Maximum door weight       | 80 Kg                          |
| Handing of the closer     | Non Handed                     |
| Power transmission        | Guide Rail                     |
| Closing speed 1           | 180-15 degrees                 |
| Closing speed 2           | 15-0 Degrees                   |
| Back Check                | No                             |
| Delayed Closing           | No                             |
| Hold Open                 | Optional with Hold open Device |
| Weight of the closer body | Approx 3.2 Kg                  |
| Dimensions                | 226 (L)x60 (H)x46 (D)          |

#### PRODUCT FEATURES

- ▶ Door closer confirming to EN 1154 A with guide rail
- ▶ Option: GEZE T-Stop guide rail with integrated opening restrictor
- ▶ Infinitely adjustable closing force size 1-4
- ▶ Hydraulic latching action and thermo-constant closing speed adjustable from front
- ▶ Fire rated

#### Data and Features

|                                                      |
|------------------------------------------------------|
| TS 3000 EN 3 Door closer with fixed closing strength |
| TS 3000 V BC Door closer with back check             |



#### Accessories

|                                                                                 |
|---------------------------------------------------------------------------------|
| Mounting back plate                                                             |
| Height adjustment guide rail                                                    |
| Guide lever BG for transom mounting on pull side and leaf mounting on push side |
| Mechanical opening restrictor                                                   |
| Clamping plate for frameless glass doors                                        |
| Mounting plate and counter plate for frameless glass doors                      |
| Cover caps of various finishes                                                  |

#### Specification Text

GEZE Overhead door closer TS 3000 V for fire and smoke doors, in accordance with EN 1154 A, size 1-4, with guide rail, adjustable closing force, standard fitting on hinge side / door mount. Optional mounting plate is also available.

Colour:

- () silver
- () dark bronze
- () white
- () RAL ...

## GEZE TS 5000

### Overhead special Rack and pinion door closer



#### Data and Features

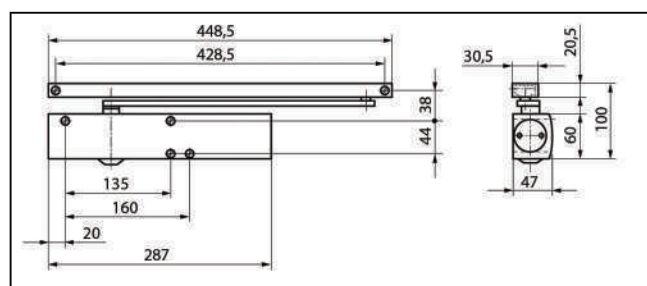
|                           |                                |
|---------------------------|--------------------------------|
| Closer strength           | EN2-6                          |
| Maximum door width        | 1400 mm                        |
| Maximum door weight       | 140 Kg                         |
| Handing of the closer     | Non Handed                     |
| Power transmission        | Guide Rail                     |
| Closing speed 1           | 180-15 degrees                 |
| Closing speed 2           | 15-0 Degrees                   |
| Back Check                | Yes                            |
| Delayed Closing           | No                             |
| Hold Open                 | Optional with Hold open Device |
| Weight of the closer body | Approx 4.1 Kg                  |
| Dimensions                | 287 (L)x60 (H)x47 (D)          |

## PRODUCT FEATURES

- ▶ Door closer confirming to EN 1154 A with guide rail
- ▶ Option: GEZE T-Stop guide rail with integrated opening restrictor
- ▶ Adjustable closing force size 2-6
- ▶ Optical size indicator
- ▶ Back check, hydraulic latching action and thermo-constant closing speed adjustable
- ▶ All functions adjustable from front
- ▶ Fire rated

#### Data and Features

|                                                                                               |
|-----------------------------------------------------------------------------------------------|
| TS 5000 L Door closer for mounting on to push side door leaf and pull side transom            |
| TS 5000 E Door closer with electro mechanical hold open                                       |
| TS 5000 ECLine with mechanical hold-open device with variable adjustment between 80° and 130° |
| TS 5000 S Door closer with delayed action                                                     |



## Accessories

|                                                            |
|------------------------------------------------------------|
| Mounting back plate                                        |
| Height adjustment guide rail                               |
| Mounting plate for guide rail                              |
| Mechanical opening restrictor                              |
| Clamping plate for frameless glass doors                   |
| Mounting plate and counter plate for frameless glass doors |
| Cover caps of various finishes                             |

### Specification Text

GEZE Overhead door closer TS 5000 for fire and smoke doors, in accordance with EN 1154 A, size 2-6, with guide rail. Closing force adjustable at the front, closing speed, latching action and back check, adjustable from front. With visual size indicator. standard fitting on door leaf at hinge side, transom mounting on opposite hinge side. Optional mounting plate is also available.

Optional:

() with T-Stop guide rail, with integrated opening restrictor

Colour:

() silver

() dark bronze

() white

() RAL ...

## GEZE Boxer

### Concealed cam action door closer



#### Data and Features

|                           |                                                                      |
|---------------------------|----------------------------------------------------------------------|
| Closer strength           | EN2-4 and EN 3-6                                                     |
| Maximum door width        | 1100 mm and 1400 mm                                                  |
| Maximum door weight       | 130 kg and 180 Kg                                                    |
| Minimum door thickness    | 40 mm and 50 mm                                                      |
| Handing of the closer     | Non Handed                                                           |
| Power transmission        | Guide channel                                                        |
| Closing speed 1           | 130-7 degrees                                                        |
| Closing speed 2           | 7-0 degrees                                                          |
| Back Check                | Yes. From 70-130 degrees                                             |
| Delayed Closing           | No                                                                   |
| Hold Open                 | Optional with Hold open device                                       |
| Weight of the closer body | Approx 4.6 Kg                                                        |
| Dimensions                | Boxer 2-4 286 (L)x45 (H)x32 (D)<br>Boxer 3-6: 293 (L)x54 (H)x 40 (D) |

#### PRODUCT FEATURES

- Separate model for EN 2-4 and EN 3-6
- Closer sizes 2-4 and 3-6 as per EN 1154A
- Closer fully integrated into door leaf
- Guide rail only visible during opening movement
- Closing force, closing speed, hydraulic latching action and hydraulic back check adjustable even when installed

#### Other Models

Boxer P-For double action doors

Note: Other models for special application is also available.

#### Specification Text

Integrated door closer GEZE Boxer for single-action doors, leaf thickness of minimum 40 mm, as per EN 1154 A, size 2-4  
With guide rail, adjustable closing force, closing speed, latching action and back check. (when installed)

The closer is completely installed into the door leaf, the guide rail is only visible when the door is open.

For right and left closing doors, up to 130 kg leaf weight and up to 1100 mm leaf width

Finish: silver

#### Specification Text

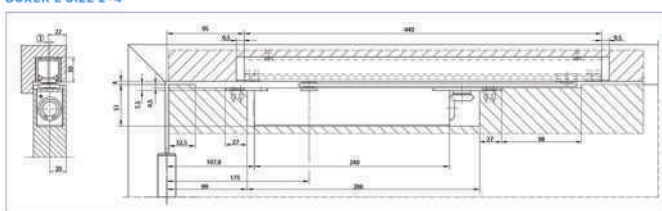
Integrated door closer GEZE Boxer for single-action doors, leaf thickness of minimum 50 mm, as per EN 1154 A, size 3-6  
with guide rail, adjustable closing force, closing speed, latching action and back check. (when installed)

The closer is completely installed into the door leaf, the guide rail is only visible when the door is open.

For right and left closing doors, up to 180 kg leaf weight and up to 1400 mm leaf width

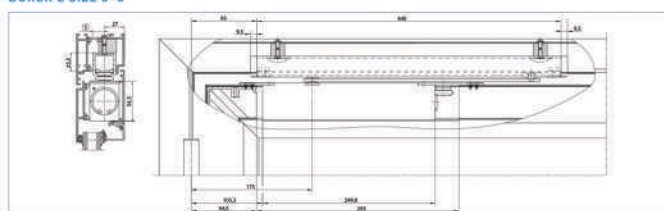
Finish: silver

BOXER E SIZE 2-4



Installation on timber door | 1: guide rail offset max. 10 mm

BOXER E SIZE 3-6



Installation on metal door | 1: guide rail offset max. 10 mm

## Floor springs

### GEZE TS 500 NV and GEZE TS 500 N EN3



#### Product features GEZE TS 500 NV

- ▶ Overall height 42 mm
- ▶ Closing force adjustable size 1-4 according to EN 1154
- ▶ Mechanical back check
- ▶ Closing speed and latching action adjustable
- ▶ Safety valve preventing deliberate overloading
- ▶ Closing range from approx. 170°
- ▶ Large adjustment range: height 6 mm, lateral 10 mm, length 10 mm
- ▶ Galvanized cement box

#### Product features GEZE TS 500 N EN 3

- ▶ Overall height 42 mm
- ▶ Closing force size 3 according to EN 1154
- ▶ Mechanical back check
- ▶ Closing speed adjustable
- ▶ Safety valve preventing deliberate overloading
- ▶ Closing range from approx. 170°
- ▶ Large adjustment range: height 6 mm, lateral 10 mm, length 10 mm
- ▶ Galvanised cement box

#### Data and Features TS 500 NV

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| Closer Strength           | EN1-4                                                        |
| Maximum Door Width        | 1100 mm                                                      |
| Maximum Door weight       | 150 Kg                                                       |
| Handing of the closer     | Non Handed                                                   |
| Power Transmission        | Direct                                                       |
| Closing Speed 1           | 170-15 Degrees                                               |
| Closing Speed 2           | 15-0 Degrees                                                 |
| Back Check                | Mechanical                                                   |
| Delayed Closing           | No                                                           |
| Hold Open                 | Optional at 85 degree, 90 degree, 105 degree and 120 degrees |
| Weight of the closer body | Approx 4.8 Kg                                                |
| Adjustments               | Lengthwise 10 mm, width wise 10 mm, height wise 6 mm         |
| Dimensions                | 298 (L)x105 (W)x42 (D)                                       |

#### Data and Features TS 500 N EN3

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| Closer Strength           | EN 3                                                         |
| Maximum Door Width        | 950 mm                                                       |
| Maximum Door weight       | 100 Kg                                                       |
| Handing of the closer     | Non Handed                                                   |
| Power Transmission        | Direct                                                       |
| Closing Speed             | 170-0 Degrees                                                |
| Back Check                | Mechanical                                                   |
| Delayed Closing           | No                                                           |
| Hold Open                 | Optional at 85 degree, 90 degree, 105 degree and 120 degrees |
| Weight of the closer body | Approx 4.8 Kg                                                |
| Dimensions                | 298 (L)x105 (W)x42 (D)                                       |

#### Accessories

Spindle extension from 5-50mm

#### Specification Text

##### Floor spring **GEZE TS 500 NV**

closing force adjustable size 1-4 acc. to EN 1154, latching action and closing speed adjustable, with fixed back check, overall height 42 mm, for double-action and single-action doors

( ) without hold-open mechanism

with hold-open mechanism, hold-open angle 85°

( ) with hold-open mechanism, hold-open angle 90°

( ) with hold-open mechanism, hold-open angle 105°

( ) with hold-open mechanism, hold-open angle 120°

Cover plate:

( ) stainless steel

( ) dark bronze

( ) satin brass

#### Specification Text

##### Floor spring **GEZE TS 500 N EN3**

closing force size 3 acc. to EN 1154, closing speed adjustable, with fixed back check, overall height 42 mm, for internal, double-action and single-action doors

( ) without hold-open mechanism

( ) with hold-open mechanism, hold-open angle 85°

( ) with hold-open mechanism, hold-open angle 90°

( ) with hold-open mechanism, hold-open angle 105°

( ) with hold-open mechanism, hold-open angle 120°

Cover plate:

( ) stainless steel

( ) dark bronze

( ) satin brass

## Floor spring

### GEZE TS 550 NV



#### Data and Features

|                           |                                                         |
|---------------------------|---------------------------------------------------------|
| Closer Strength           | EN 3-6                                                  |
| Maximum Door Width        | 1400 mm                                                 |
| Maximum Door weight       | 300 Kg                                                  |
| Handing of the closer     | Non Handed                                              |
| Power Transmission        | Direct                                                  |
| Closing Speed 1           | 180-0 Degrees                                           |
| Closing Speed 2           | 7-0 Degrees                                             |
| Back Check                | Mechanical                                              |
| Delayed Closing           | Selectable                                              |
| Hold Open                 | Selectable in place of delayed closing.                 |
| Weight of the closer body | Infinitely adjustable from 80-165 degrees Approx 5.1 Kg |
| Dimensions                | 342 (L)x82 (W)x54 (D)                                   |

#### PRODUCT FEATURES

- ▶ Multipoint hydraulic hold open between 80-165 degrees
- ▶ New fastening system for better performance
- ▶ Provides full control on the door movement
- ▶ High quality individual components for low wear and tear
- ▶ All adjustments including closing force adjustable from top
- ▶ Speed controlling valves are designed to give thermo constant closing speed

#### Accessories

Spindle extension from 5-50mm

Note : Special models for various applications are also available

#### Specification Text

Floor spring GEZE TS 550 NV  
 Closing force infinitely adjustable between EN 3-6 as per EN 1154  
 Closing speed and latching speed adjustable.  
 For double action and single action doors  
 With selectable multi point hold open or delayed closing feature  
 Maximum load bearing capacity of 300 Kg  
 Fixed back check  
 Cover plate  
 () Stainless steel  
 () Dark bronze  
 () Satin brass

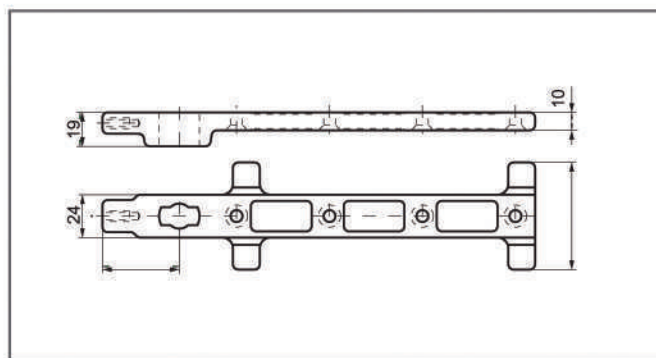
## FLOOR SPRING ACCESSORIES

### Door shoe Model CM

Door strap to be used for metal doors.

Material: Drop forged and galvanized steel.

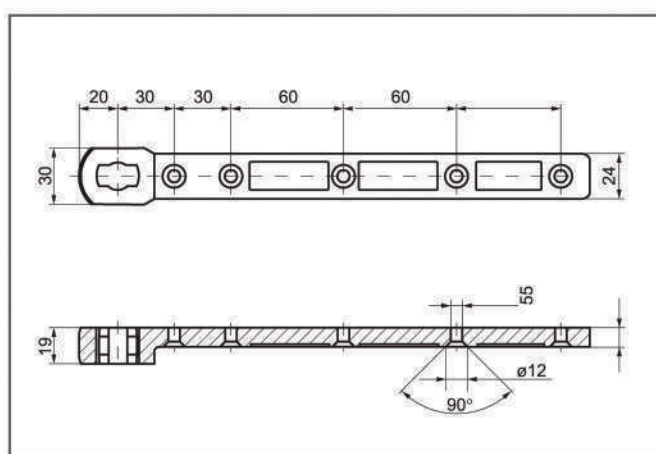
Adaptable to almost all common profile system.



### Door shoe Model C

Bottom door strap for wooden doors.

Material: Drop forged steel.

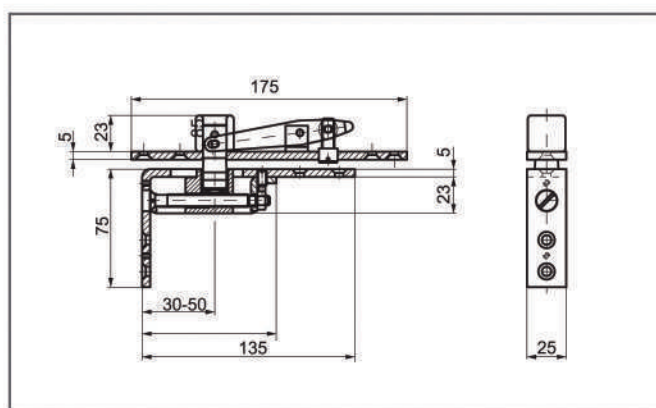


### Adjustable upper pivot Model B

Suitable as a counter part with door straps model CM and C

For use with metal profiles.

Pivot point adjustable.

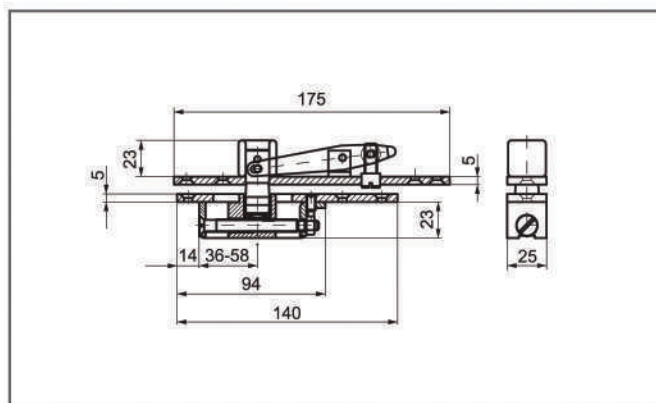


### Adjustable upper pivot model C

Suitable as a counter part with door straps model CM and C

for use with metal or wooden doors.

Pivot point adjustable.



## COMPARISON OF GEZE DOOR CLOSING DEVICES

| Features<br>Product | Closing<br>Strength | Max Door<br>width | Max Door<br>Weight | Back<br>check | Delayed<br>Action | Fire<br>Rated | Hold<br>Open | Single/<br>Double | Non-<br>Handed |
|---------------------|---------------------|-------------------|--------------------|---------------|-------------------|---------------|--------------|-------------------|----------------|
| TS 1000C            | EN 2/3              | 950mm             | 80 Kg              | No            | No                | Yes           | With H/o arm | Single            | Yes            |
| TS 1500             | EN 3/4              | 1100mm            | 80 Kg              | No            | No                | Yes           | With H/o arm | Single            | Yes            |
| TS 1500G            | EN1                 | 750mm             | 40 Kg              | No            | No                | Yes           | With H/o arm | Single            | Yes            |
| TS 2000NV           | EN 2-4              | 1100mm            | 80 Kg              | No            | No                | Yes           | With H/o arm | Single            | Yes            |
| TS 4000             | EN 1-6              | 1400mm            | 120 Kg             | Yes (70-180)  | No                | Yes           | With H/o arm | Single            | Yes            |
| TS 4000             | EN 5-7              | 1600mm            | 160 Kg             | Yes (70-180)  | No                | Yes           | With H/o arm | Single            | Yes            |
| TS 4000 S           | EN 1-6              | 1400mm            | 120 Kg             | Yes (70-180)  | Yes (180-80)      | Yes           | With H/o arm | Single            | Yes            |
| TS 3000 V           | EN 1-4              | 1100mm            | 80 Kg              | No            | No                | Yes           | With H/o arm | Single            | Yes            |
| TS 3000             | EN 3                | 950mm             | 60 Kg              | No            | No                | Yes           | With H/o arm | Single            | Yes            |
| TS 3000 V BC        | EN 1-4              | 1100mm            | 80 Kg              | Yes (70-180)  | No                | Yes           | With H/o arm | Single            | Yes            |
| TS 5000             | EN 2-6              | 1400mm            | 120 Kg             | Yes (70-180)  | No                | Yes           | With H/o arm | Single            | Yes            |
| TS 5000 S           | EN 2-6              | 1400mm            | 120 Kg             | Yes (70-180)  | Yes (180-80)      | Yes           | With H/o arm | Single            | Yes            |
| Boxer               | EN 2-4              | 1100mm            | 130 Kg             | Yes (70-180)  | No                | Yes           | With H/o arm | Single            | Yes            |
| Boxer               | EN 3-6              | 1400mm            | 180 Kg             | Yes (70-180)  | No                | Yes           | With H/o arm | Single            | Yes            |
| Boxer P             | EN 2-4              | 1100mm            | 80 Kg              | Yes (70-180)  | No                | Yes           | With H/o arm | Double            | Yes            |
| TS 500 NV           | EN 1-4              | 1100mm            | 150 Kg             | Mechanical    | No                | Yes           | Optional     | Single/Double     | Yes            |
| TS 500 EN 3         | EN 3                | 950mm             | 100 Kg             | Mechanical    | No                | Yes           | Optional     | Single/Double     | Yes            |
| TS 550 NV           | EN 3-6              | 1400mm            | 300 Kg             | Mechanical    | Yes*(180-80)      | Yes           | Optional     | Single/Double     | Yes            |

TS 550 can have multi point hold open from 80-180 degrees or variable delayed closing speed from 180-80 degrees

#Special fire rate models

## POINTS TO BE CONSIDERED DURING THE SELECTION OF A DOOR CLOSER

- ▶ Width of the door
- ▶ Weight of the door
- ▶ Material of the door
- ▶ Thickness of the door
- ▶ Location of the door (Internal/External etc.)
- ▶ Function of the door (Single action/double action etc.)
- ▶ Aesthetics (Link arm/guide channel/concealed etc.)
- ▶ Other features of the door closer (Back check/Delayed action etc.)
- ▶ Application (standard/Fire rated etc.)
- ▶ Integration of door closer (Smoke detector, door coordinator etc.)
- ▶ Special features (Free swing function, in built smoke detector function etc.)

## Selecting a door control

Extract from EN 1154

| Door<br>closer<br>power<br>size | Test.<br>door leaf<br>width<br><br>mm<br>max. | Test<br>door<br>mass<br><br>kg | Closing moment    |         |                     |                               | Opening<br>moment<br>between<br>0 & 60° | Closer<br>efficiency<br>between<br>0 & 4° |
|---------------------------------|-----------------------------------------------|--------------------------------|-------------------|---------|---------------------|-------------------------------|-----------------------------------------|-------------------------------------------|
|                                 |                                               |                                |                   |         |                     | at any<br>angle of<br>opening |                                         |                                           |
|                                 |                                               |                                | between<br>0 & 4° |         | between<br>88 & 92° |                               |                                         |                                           |
|                                 |                                               |                                | Nm min.           | Nm max. | Nm<br>min.          |                               |                                         |                                           |
|                                 |                                               |                                | Nm min.           | Nm max. | Nm<br>min.          | Nm<br>min.                    | Nm<br>max.                              | %<br>min.                                 |
| 1                               | <750                                          | 20                             | 9                 | <13     | 3                   | 2                             | 26                                      | 50                                        |
| 2                               | 850                                           | 40                             | 13                | <18     | 4                   | 3                             | 36                                      | 50                                        |
| 3                               | 950                                           | 60                             | 18                | <26     | 6                   | 4                             | 47                                      | 55                                        |
| 4                               | 1100                                          | 80                             | 26                | <37     | 9                   | 6                             | 62                                      | 60                                        |
| 5                               | 1250                                          | 100                            | 37                | <54     | 12                  | 8                             | 83                                      | 65                                        |
| 6                               | 1400                                          | 120                            | 54                | <87     | 18                  | 11                            | 134                                     | 65                                        |
| 7                               | 1600                                          | 160                            | 87                | <140    | 29                  | 18                            | 215                                     | 65                                        |

**NB.** Where the actual size and mass of door to which the door closer is to be fitted relates to two sizes of door closers, the larger power size of door closer should be used.

The door widths given are for standard installations. In case of unusually high or heavy doors, windy or draughty conditions, special installations, a larger power size of door closer should be used.





We are **GEZE**.  
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