



Transom concealed  
door closer

# DORMA RTS 85

## Disappears into the frame

**Ideal for shopfitting. For both double and single action doors. Elegant, versatile, practical and quality assured.** The DORMA RTS 85 offers a solution for installations where door control must be provided without disturbing the aesthetic appearance of the door. The majority of preparation can be accomplished by the fabricator prior to installation,

leaving minimal on-site work. A complete line of accessories is available to accommodate virtually any door and frame configuration.



Quality assured manufacture to DIN ISO 9001, EN 29001, BS 5750  
certified and verified by BSI Quality Assurance  
Reg.-No. Q 6423, FM 10756

### Plus points

#### For the trade

- Just **one** body for all types of fixing.
- Low inventory costs and minimal stocking requirement thanks to unit packs for closer body and accessories.

#### For the fabricator

- Can be used for double action doors, or left and right hand single action doors.
- Installation and setting adjustment possible before fixing the doorset on site.
- No floor preparation necessary.
- Positive "zero" position for double action doors – easy to adjust.
- Comprehensive range of accessories.

#### For the architect/specifier

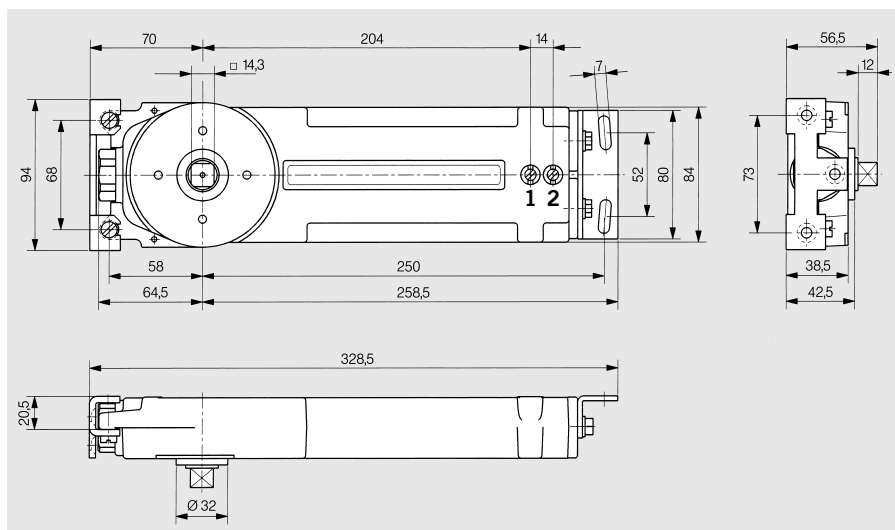
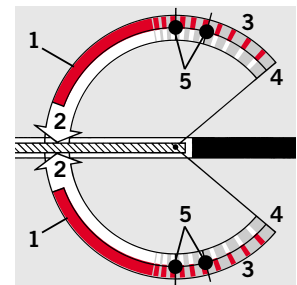
- Aesthetically impressive solution – especially with toughened glass doors.
- Ideal for shopfitting applications.

#### For the user

- No cluttering of door or floor appearance.
- Backcheck to prevent door contact with the frame.
- Smooth closing with adjustable closing speed.

| Technical Data                                                |              | RTS 85 |      |      |
|---------------------------------------------------------------|--------------|--------|------|------|
|                                                               |              | EN 3   | EN 4 | EN 5 |
| Closing force                                                 |              |        |      |      |
| Internal and external doors                                   | up to 950 mm | ●      | –    | –    |
|                                                               | 1100 mm      | –      | ●    | –    |
|                                                               | 1250 mm      | –      | –    | ●    |
| Same model for double action doors, RH (ISO 5) and LH (ISO 6) |              | ●      | ●    | ●    |
| Closing speed variable by valve adjustment                    |              | ●      | ●    | ●    |
| Final closing speed variable by valve adjustment              |              | ●      | ●    | ●    |
| Backcheck, progressive, mechanical                            |              | ●      | ●    | ●    |
| Backstop, mechanical                                          |              | ●      | ●    | ●    |
| Hold-open                                                     | 105°         | ○      | ○    | ○    |
|                                                               | 90°          | ○      | ○    | ○    |
| Extended spindle                                              | 5 mm         | ○      | ○    | ○    |
|                                                               | 10 mm        | ○      | ○    | ○    |
| Reduced pivot point for tempered glass doors (65 mm)          |              | ○      | ○    | ○    |
| Weight in kg                                                  |              | 4.7    | 4.8  | 4.9  |
| Dimensions in mm                                              | Length       | 323    | 323  | 323  |
|                                                               | Width        | 90     | 90   | 90   |
|                                                               | Height       | 38     | 38   | 38   |
| Door closer tested to EN 1154                                 |              | ●      | ●    | ●    |
| ● Yes – No ○ Option                                           |              |        |      |      |

\* Max Door weight for floor pivot 8550–8557 90 kgs  
8560 G 200 kgs.



### Standard and optional functions

- 1 Fully controlled closing with adjustable speed
- 2 Adjustable final closing
- 3 Progressive mechanical backcheck
- 4 Mechanical backstop\*\*
- 5 Hold-open points – depending on model (optional) 105° or 90°

\*\* Door opening angle max. 130° on both sides; in the case of heavy doors which can be opened further, door stops must be used. In the case of single action doors, the opening angle may be reduced depending on the door design.

### Accessories for double action and centre pivoted single action doors (70 mm pivot point)

#### Side-load installation

Side-load installation is achieved by offering the door in the closed position, onto the floor pivot. The closer arm, fitted in the upper door rail, is connected to the spindle and secured with a clamping piece.

#### 1 Closer arm with arm channel

Art.-No. 8530  
for top rails with min. 15 mm channel depth and 38 mm width

#### 2 Closer arm with angle bracket

Art.-No. 8531  
for top rails with min. 12 mm channel depth and 38 mm width  
(not suitable for doors with mitred-joints).

#### 3 Floor pivot set, total height 27 mm

Art.-No. 8550  
for bottom rails with channel depth of 18–20 mm. Floor portion of pivot is fitted directly to floor.

#### Floor pivot set, total height 57 mm

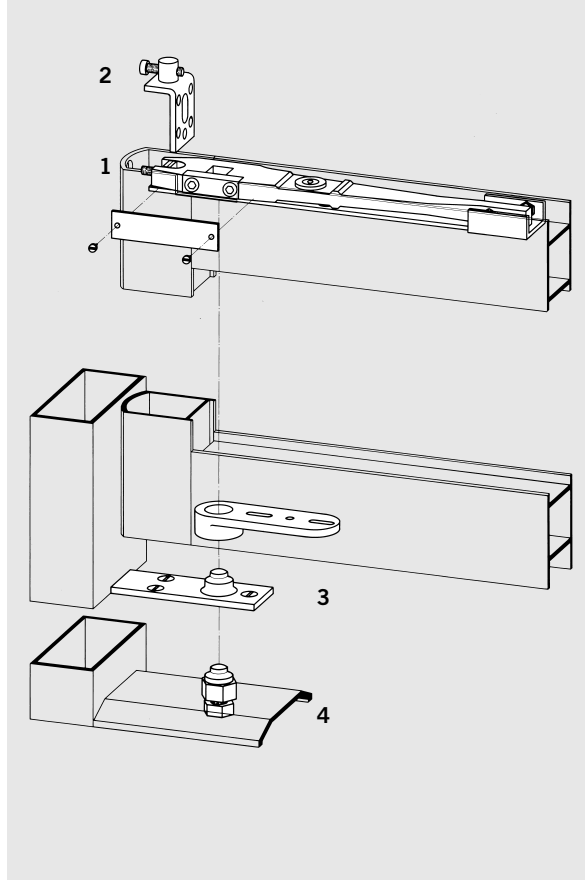
Art.-No. 8551  
for bottom rails with channel depth of 18–50 mm.  
(Floor portion may be shortened to suit bottom rail.)  
Floor portion of pivot is fitted directly to floor.

#### 4 Threshold pivot set

Art.-No. 8554  
for bottom rails with channel depth of 25 mm.  
Floor clearance: 5 mm.  
Floor portion is fitted directly to threshold.  
(Upper portion same as 3.)

#### Threshold pivot set

Art.-No. 8556  
for bottom rails with channel depth of 40 mm.  
Floor clearance: 5 mm.  
Floor portion is fitted directly to threshold.  
(Upper portion same as 3.)



#### End-load installation

End-load installation is achieved by offering the door, in the open position, onto the floor pivot and spindle simultaneously. The floor pivot locks automatically, connection to spindle is secured with a clamping piece.

#### 1 Closer arm with arm channel

Art.-No. 8534  
for top rails with min. 21 mm channel depth and 35 mm width.

#### 2 Closer arm with angle bracket

Art.-No. 8535  
for top rails with min. 18 mm channel depth and 35 mm width  
(not suitable for doors with mitred-joints).

#### 3 Floor pivot set, total height 27 mm

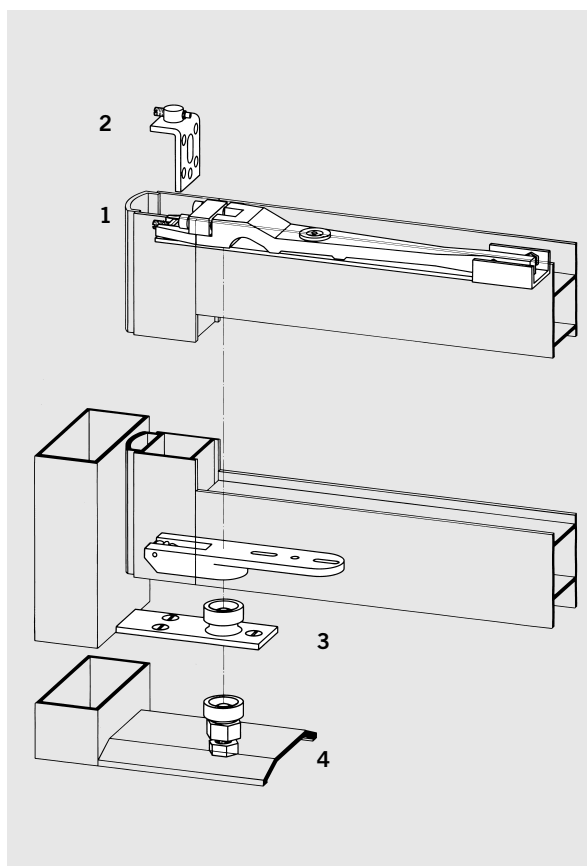
Art.-No. 8552  
for bottom rails with channel depth of 18–20 mm. Floor portion of pivot is fitted directly to floor.

#### Floor pivot set, total height 57 mm

Art.-No. 8553  
for bottom rails with channel depth of 18–50 mm. (Floor portion may be cut to suit bottom rail). Floor portion is fitted directly to floor.

#### 4 Threshold pivot set

Art.-No. 8555  
for bottom rails with channel depth of 25 mm.  
Floor clearance: 5 mm.  
Floor portion is fitted directly to threshold.  
(Upper portion same as 3.)



## Accessories for butt hung or offset pivoted single action doors

Single action doors hung on butt hinges or offset pivots can be connected to the closer with slide arm and channel assemblies. Please note that this application may reduce the maximum opening angle available on the door. Similarly, if a hold-open model has been selected, the hold-open point will be altered: eg instead of 105°, the position

will lie between 90° and 100°, depending on door thickness.

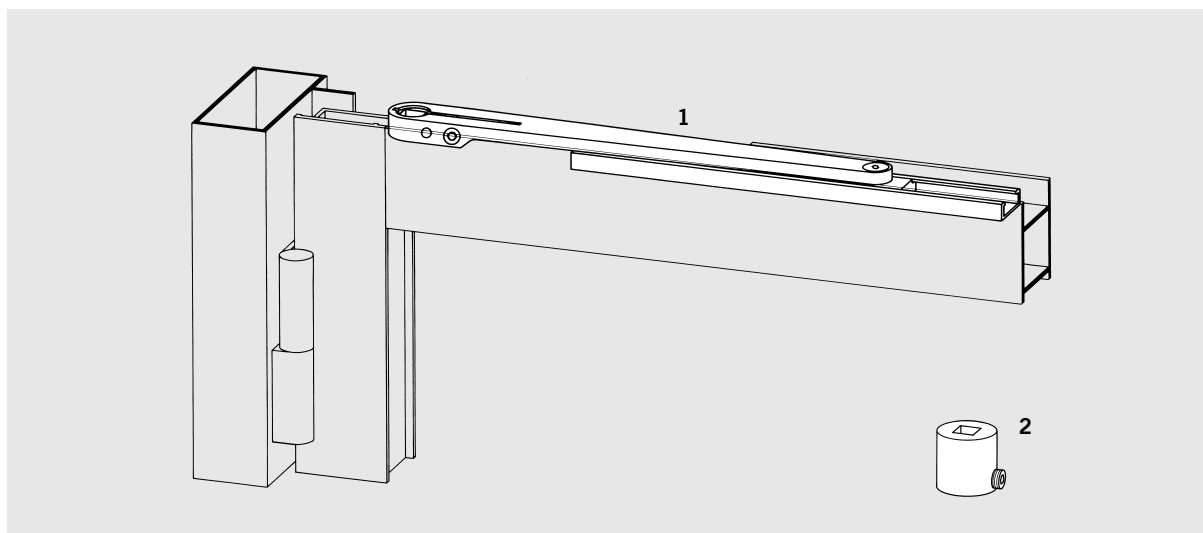
### Note:

Maximum door opening with slide arm and channel assemblies –105°. Consult our Technical Service Department giving specific details for slide arm and channel assemblies. Drawings of door and frame

details must be submitted together with the pivot centre of the hinge.

**1 Slide arm and channel**  
Art.-No. 8510

**2 Weld-on extension**  
Art.-No. 8521  
For steel doors, 40 mm long (can be shortened), 38 mm dia.



## Accessories for tempered glass doors (65 mm pivot point)

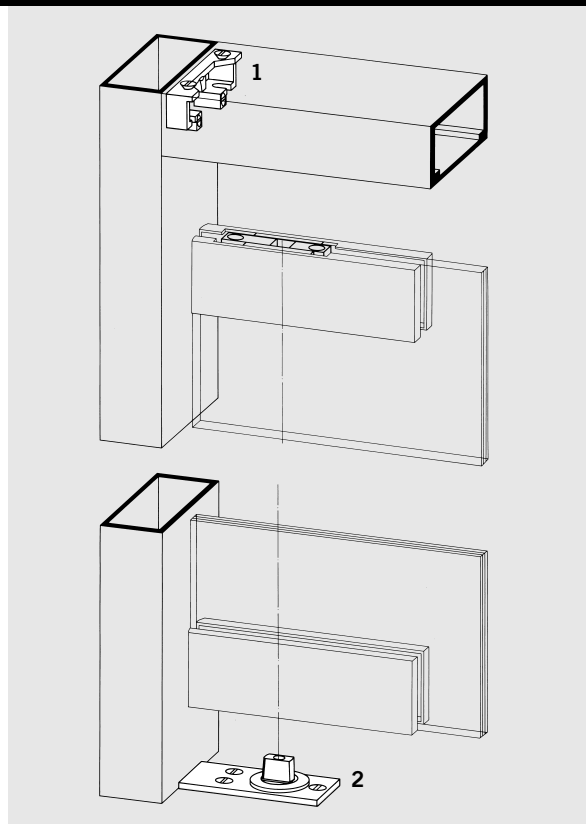
For tempered glass doors, the RTS 85 is used with a special fixing bracket, Art.-No. 8520 G, giving a 65 mm pivot point. The standard patch fittings can thus be used with appropriate inserts. (Patch fittings with insert available from DORMA-Glas range of products).

### 1 Fixing bracket

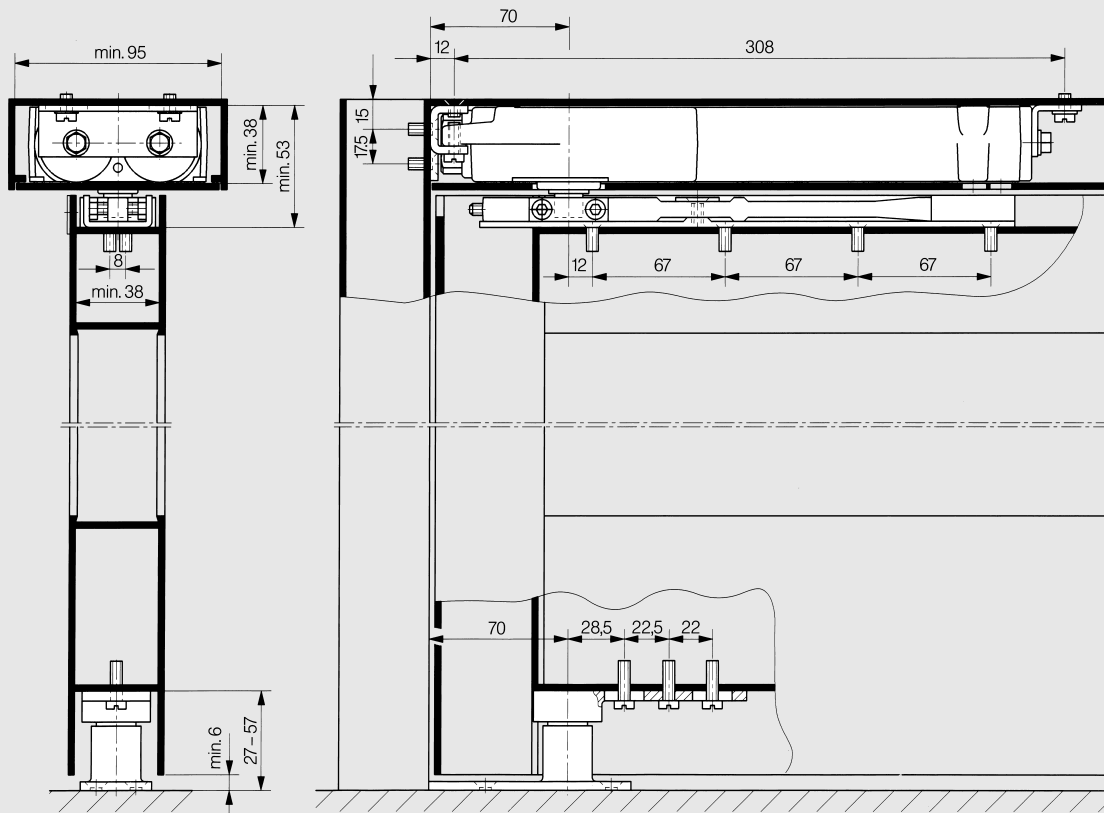
Art.-No. 8520 G  
For fixing the DORMA RTS in the transom.

### 2 Floor pivot bearing with flat-tapered spindle

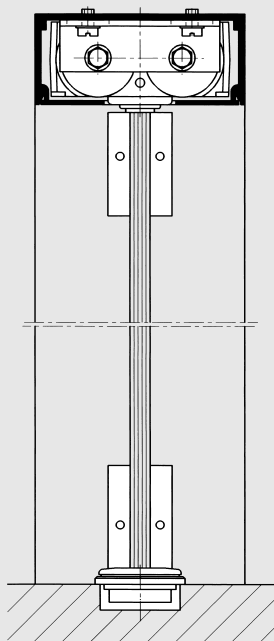
Art.-No. 8560 G  
With sealed roller bearing assembly, rust-protected, for max. door weights of 110 kg (if used without the transom concealed door closer, then 200 kg).  
Special pivots also available with extended spindles of 5, 10 and 15 mm, and also for special environments (e.g. wet rooms) in stainless steel; Art.-No. 8560 GE (only available with standard spindle).  
The floor pivot bearing combined with appropriate bottom straps from the accessories range for DORMA BTS floor springs is also suitable for aluminium, steel and timber doors.



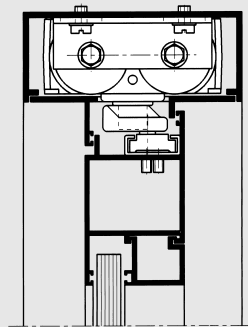
## Typical applications



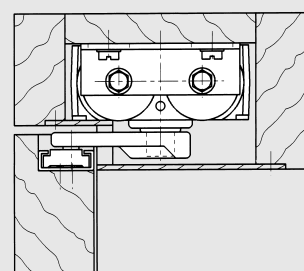
**Double action aluminium door**



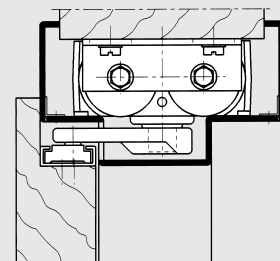
**Double action tempered glass door  
with aluminium frame**



**Single action double rebated  
aluminium door**



**Single action timber door**



**Single action timber door  
in a steel frame**

Detailed installation drawings on a scale of 1:1  
will be provided on request.

**DORMA RTS 85 for double and single action doors**

| Door closer<br>RTS 85 | Standard<br>model | Standard<br>model with<br>hold-open<br>at 105° | Standard<br>model with<br>hold-open<br>at 90° | with spindle<br>insert 5 mm<br>extended | with spindle<br>insert 5 mm<br>extended and<br>hold-open<br>at 105° | with spindle<br>insert 5 mm<br>extended and<br>hold-open<br>at 90° | with spindle<br>insert 10 mm<br>extended | with spindle<br>insert 10 mm<br>extended and<br>hold-open<br>at 105° | with spindle<br>insert 10 mm<br>extended and<br>hold-open<br>at 90° |
|-----------------------|-------------------|------------------------------------------------|-----------------------------------------------|-----------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|
| EN 3                  | 85311101          | 85313101                                       | 85312101                                      | 85311102                                | 85313102                                                            | 85312102                                                           | 85311103                                 | 85313103                                                             | 85312103                                                            |
| EN 4                  | 85321101          | 85323101                                       | 85322101                                      | 85321102                                | 85323102                                                            | 85322102                                                           | 85321103                                 | 85323103                                                             | 85322103                                                            |
| EN 5                  | 85331101          | 85333101                                       | 85332101                                      | 85331102                                | 85333102                                                            | 85332102                                                           | 85331103                                 | 85333103                                                             | 85332103                                                            |

| Accessories               | closer arm<br>with<br>channel | closer arm<br>with<br>bracket | Floor pivot<br>set,<br>height<br>27 mm | Floor pivot<br>set,<br>height<br>57 mm | Threshold<br>pivot set<br>1" | Threshold<br>pivot set<br>1 9/16" | Closer arm<br>with channel<br>for single<br>action doors | weld-on<br>extensions |
|---------------------------|-------------------------------|-------------------------------|----------------------------------------|----------------------------------------|------------------------------|-----------------------------------|----------------------------------------------------------|-----------------------|
| Side-load<br>installation | 85210005                      | 85210007                      | 65310300                               | 65410300                               | 65510400                     | 65510500                          | 85210001                                                 | 85110001              |
| End-load<br>installation  | 85210009                      | 85210011                      | 65320300                               | 65420300                               | 65520400                     | –                                 |                                                          |                       |

**DORMA RTS 85 for tempered glass doors**

| Door closer<br>RTS 85 G | Standard<br>model | Standard<br>model with<br>hold-open<br>at 105° | Standard<br>model with<br>hold-open<br>90° | with spindle<br>insert 5 mm<br>extended | with spindle<br>insert 5 mm<br>extended and<br>hold-open<br>at 105° | with spindle<br>insert 5 mm<br>extended and<br>hold-open<br>at 90° | with spindle<br>insert 10 mm<br>extended | with spindle<br>insert 10 mm<br>extended and<br>hold-open<br>at 105° | with spindle<br>insert 10 mm<br>extended and<br>hold-open<br>at 90° |
|-------------------------|-------------------|------------------------------------------------|--------------------------------------------|-----------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|
| EN 3                    | 85311301          | 85313301                                       | 85312301                                   | 85311302                                | 85313302                                                            | 85312302                                                           | 85311303                                 | 85313303                                                             | 85312303                                                            |
| EN 4                    | 85321301          | 85323301                                       | 85322301                                   | 85321302                                | 85323302                                                            | 85322302                                                           | 85321303                                 | 85323303                                                             | 85322303                                                            |
| EN 5                    | 85331301          | 85333301                                       | 85332301                                   | 85331302                                | 85333302                                                            | 85332302                                                           | 85331303                                 | 85333303                                                             | 85332303                                                            |

| Accessories | Floor pivot<br>set | Floor pivot<br>set 5 mm<br>extended | Floor pivot<br>set 10 mm<br>extended | Floor pivot<br>set 15 mm<br>extended | Floor pivot<br>set stainless<br>steel |
|-------------|--------------------|-------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|
| to RTS 85 G | 65540000           | 85210025                            | 85210026                             | 85210027                             | 85540059                              |

**Specification text**

Transom concealed door closer with built-in cushion backcheck, adjustable closing speed and sweep range.

**Size**

- ☐ EN 3
- ☐ EN 4
- ☐ EN 5

**Model**

- ☐ For both single and double action doors (pivot point 70 mm)
- ☐ For tempered glass doors (pivot point 65 mm)
- ☐ Non hold-open
- ☐ Hold-open at 105°
- ☐ Hold-open at 90°
- ☐ With spindle insert 5 mm extended
- ☐ With spindle insert 10 mm extended
- ☐ Closer arm  
Art.-No. \_\_\_\_\_
- ☐ Floor pivot set  
Art.-No. \_\_\_\_\_

**Make:** DORMA RTS 85

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