

# Sliding Door Closer

New-generation sliding door closers developed with user-friendly technologies.

Horizontal for Bathroom  
NSC-CB

Horizontal  
NSC-C

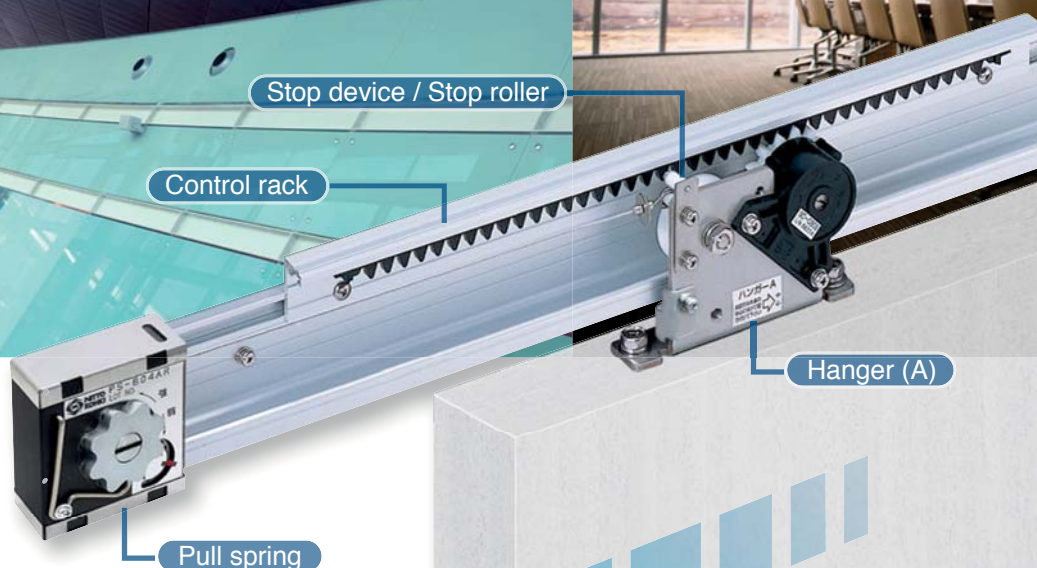
Incline  
DSC-C

We propose a whole new style of door opening/closing solution.

# Sliding Door Closer

## **DSC-C (incline) and NSC-C (horizontal) series**

# "Innovation and Simplicity"



### Long service life:

A long lasting product life time is achieved by our cutting-edge technologies, employed in the compact control device, fluid friction resistance and one-way clutch brake mechanism.

### Easy and quick installation:

The only preparation needed before installation is to drill screw holes into the door frame for mounting rail. After that, all parts/devices can be installed by a screwdriver from the front, easily and efficiently.

### Light and smooth opening:

The system is designed to assist in reducing the door opening resistance to achieve an easy and safe opening operation for all, including the elderly, small children, people of limited mobility and people who are otherwise carrying large packages or groceries. (Ref: Initial door-opening force is 6.7 N with DSC-C08 model and 5.7 N with NSC-C48 model when used on 40 kg door.)

### Wide variety of models:

A wide variety of models are available for different door types (wooden/steel/aluminum) and sizes (width/weight). Options for Interlocking sliding door and bi-parting configurations are also available.

### Non-handed design, right/left convertible:

The system can be used for both left and right hand sliding doors. It can be easily converted between left and right handing by a simple adjustment procedure.

### Fire door type

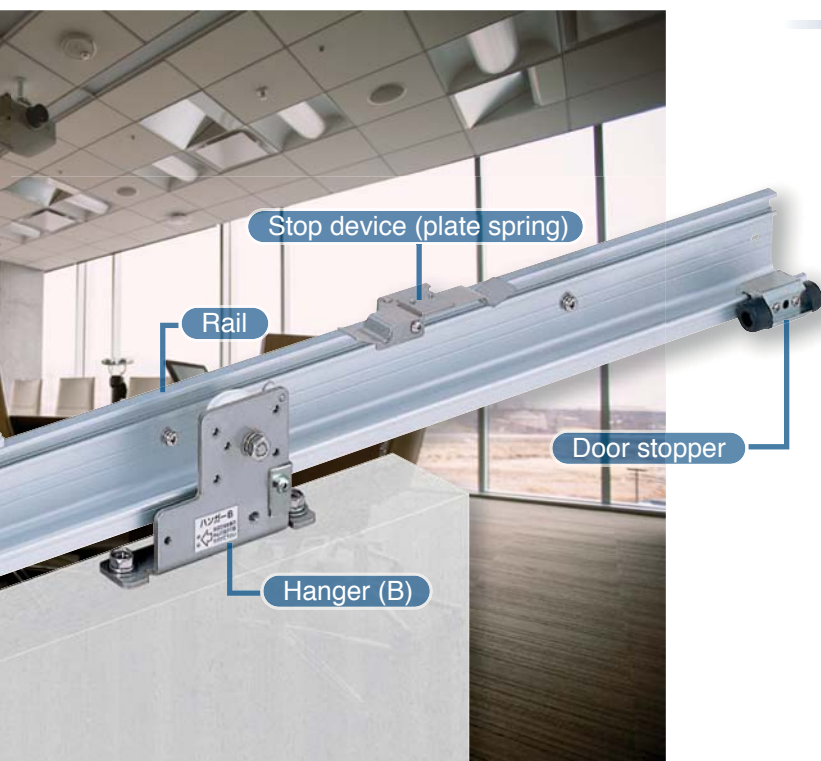
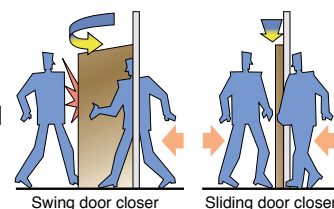


### In-wall mount type



Special Order

NITTO KOHKI Sliding Door Closer is an ideal solution eliminating dead space and ensuring safety.



## INDEX

### Application

| Applicable door | Model | Door weight (kg) | Applicable door width (mm) | Page |
|-----------------|-------|------------------|----------------------------|------|
|-----------------|-------|------------------|----------------------------|------|

#### For wooden doors, incline type DSC-CW series

|              |           |       |          |   |
|--------------|-----------|-------|----------|---|
| Wooden doors | DSC-CW30V | 10-30 | 600-1600 | 5 |
|              | DSC-CW60V | 30-60 |          |   |
|              | DSC-CW03  | 10-30 | 700-1600 | 7 |
|              | DSC-CW08  | 30-80 |          | 8 |

#### For light steel doors, incline type DSC-C series

|             |          |        |          |    |
|-------------|----------|--------|----------|----|
| Steel doors | DSC-C30V | 10-30  | 600-1600 | 6  |
|             | DSC-C60V | 30-60  |          |    |
|             | DSC-C03  | 10-30  | 700-1600 | 9  |
|             | DSC-C08  | 30-80  |          |    |
|             | DSC-C015 | 80-150 |          | 10 |

#### For wooden doors, horizontal type NSC-CW series

|              |           |       |          |    |
|--------------|-----------|-------|----------|----|
| Wooden doors | NSC-CW60V | 10-60 | 600-1600 | 17 |
|              | NSC-CW23  | 10-30 | 700-1600 | 19 |
|              | NSC-CW48  | 30-80 |          | 20 |

#### For light steel doors, horizontal type NSC-C series

|             |                          |         |          |    |
|-------------|--------------------------|---------|----------|----|
| Steel doors | NSC-C60V                 | 10-60   | 600-1600 | 18 |
|             | NSC-C48                  | 10-80   |          | 21 |
|             | NSC-CB48 (for bathrooms) | 10-80   | 700-1600 | 22 |
|             | NSC-C1215                | 80-150  |          | 23 |
|             | NSC-C2525                | 150-250 |          | 24 |

### Option

| Model                     | Page |
|---------------------------|------|
| Interlocking sliding door | 32   |
| Bi-Parting, SC-W          | 35   |
| Free stop device          | 36   |
| Delayed device            | 38   |
| Back check device         | 41   |
| Air damper                | 42   |
| Close assist device       | 43   |

### Application

For fire doors made of light steel  
**DSC-CF/NSC-CF series**

| Applicable door | Model      | Door weight (kg) |                                    |
|-----------------|------------|------------------|------------------------------------|
| Fire doors      | DSC-C08F   | 30-80            | Contact us for further information |
|                 | DSC-C015F  | 80-150           |                                    |
|                 | NSC-C48F   | 30-80            |                                    |
|                 | NSC-C1215F | 80-150           |                                    |
|                 | NSC-C2525F | 150-250          |                                    |

### Application

For pocket doors made of wood/light steel  
**DSC-CKS/NSC-CKS series**

| Applicable door | Model          | Door weight (kg) |                                    |
|-----------------|----------------|------------------|------------------------------------|
| Pocket doors    | incline        | 10-80            | Contact us for further information |
|                 | DSC-CKS serie  |                  |                                    |
|                 | horizontal     |                  |                                    |
|                 | NSC-CKS series |                  |                                    |

Email to [kentokyo@nitto-kohki.co.jp](mailto:kentokyo@nitto-kohki.co.jp)

## Option

### DSC-C (incline) series

| Applicable door | Model         | Option           |                |                   |                  |                                  |              |            |
|-----------------|---------------|------------------|----------------|-------------------|------------------|----------------------------------|--------------|------------|
|                 | incline DSC-C | Free stop device | Delayed device | Back check device | Bi-Parting, SC-W | Interlocking sliding door, SC-2S | Close assist | Air Damper |
| Wooden doors    | DSC-CW30V     | ●                | ●              | ●                 | ●                | ●                                | ●            | ●          |
|                 | DSC-CW60V     | ●                | ●              | ●                 | ●                | ●                                | ●            | ●          |
|                 | DSC-CW03      | ●                | ●              | ●                 | ●                | ●                                | ●            | ●          |
|                 | DSC-CW08      | ●                | ●              | ●                 | ●                | ●                                | ●            | ●          |
| Steel doors     | DSC-C30V      | ●                | ●              | ●                 | ●                | ●                                | ●            | ●          |
|                 | DSC-C60V      | ●                | ●              | ●                 | ●                | ●                                | ●            | ●          |
|                 | DSC-C03       | ●                | ●              | ●                 | ●                | ●                                | ●            | ●          |
|                 | DSC-C08       | ●                | ●              | ●                 | ●                | ●                                | ●            | ●          |
|                 | DSC-C015      | ●                |                | ●                 | ●                |                                  |              |            |

### NSC-C (horizontal) series

| Applicable door | Model            | Option           |                |                     |                  |                                  |              |            |
|-----------------|------------------|------------------|----------------|---------------------|------------------|----------------------------------|--------------|------------|
|                 | horizontal NSC-C | Free stop device | Delayed device | Back checker device | Bi-Parting, SC-W | Interlocking sliding door, SC-2S | Close assist | Air Damper |
| Wooden doors    | NSC-CW60V        | ●                | ●              | ●                   | ●                | ●                                | ●            | ●          |
|                 | NSC-CW23         | ●                | ●              | ●                   | ●                | ●                                | ●            | ●          |
|                 | NSC-CW48         | ●                | ●              | ●                   | ●                | ●                                | ●            | ●          |
| Steel doors     | NSC-C60V         | ●                | ●              | ●                   | ●                | ●                                | ●            | ●          |
|                 | NSC-C48          | ●                | ●              | ●                   | ●                | ●                                | ●            | ●          |
|                 | NSC-C1215        | ●                |                | ●                   | ●                |                                  |              |            |
|                 | NSC-C2525        |                  |                |                     |                  |                                  |              |            |

#### Remark

1. Only one of the following options can be used on one system. (Multiple options cannot be used together.)  
Free stop device / delayed device / back check device
2. The option device(s) may not be able to use depending on the shape of door frame.

#### DELAYED DEVICE

##### Function

- This option holds the door at full open position and automatically releases it after desired time period (settable between 0-15 sec).
- Increases safety during the passage for all, including the elderly, small children, people of limited mobility and those who carries cargo.



#### FREE STOP DEVICE

##### Function

- The door can be stopped at any desired position. To release, lightly pull the door to closing direction so the door will automatically close.
- This device is an option.
- Non handed, suitable for left or right hand opening.



#### CLOSE ASSIST DEVICE

##### Function

- The product catches the door at 25 mm from the full close position and firmly latches. Useful in the situations where the door is equipped with electronic lock having tight latch or the door gets often bounced back by airtight seal at closure.
- The latching force is adjustable during the installation. (Adjustment range: 5-10 N)
- The product can be used for both left and right hand sliding doors.



#### AIR DAMPER UNIT

- Air Damper Unit can be installed on the C-series and CV-series sliding door closers (door weight < 80 kg).

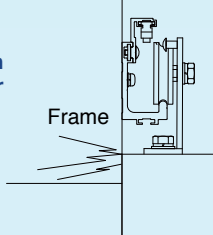


# Sliding Door Closer Troubleshooting Q&A

## Q: The door does not fully close.

**A: Some part of door, hanger or other components may be in contact with the top cover or door pocket.**

Action: Check the point of contact and then adjust or reinstall the hanger(s)/ guide roller for correcting the position and make sure there is no contact against the top cover or door pocket.



**A: The guide roller may be in contact with the top surface of the guide rail (bottom of the door) so that the door does not move smoothly.**

Action: Raise the door by adjusting the hanger bracket or even move the rail location up if more clearance is needed.



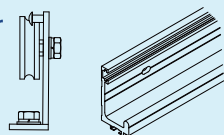
**A: The door may be not perpendicular (vertical) to the floor and therefore the door may be tilting/leaning away from the wall.**

Action: Reinstall the hanger(s) and/or guide roller to make sure that the door becomes perpendicular to the floor.



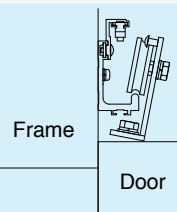
**A: There may be dusts, obstacles or damage on the hanger roller or the surface of rail.**

Action: Clean hanger roller/rail or replace them if necessary.



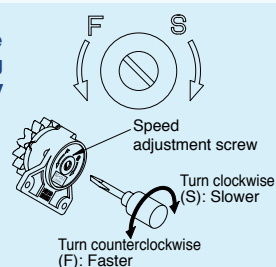
**A: The hanger(s) may not be installed parallel to the rail and the hanger roller is not rolling in-line on the rail correctly.**

Action: Adjust or reinstall the hanger(s) and make sure that the roller becomes in-line to the rail.

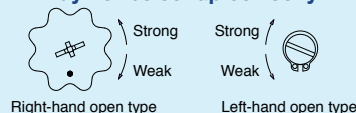


**A: The control device may not be set up correctly (weak spring strength) and the system may be braking too strongly.**

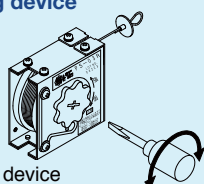
Action: Turn the speed adjustment dial on the control device counterclockwise and adjust the braking speed correctly.



**A: (For Horizontal Type) The pull spring device may not be set up correctly.**

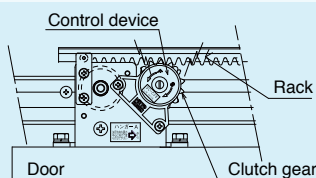


Action: Adjust the spring force of pull spring device and set it to suitable tension.



**A: The clutch gear of the control device may be engaged too strongly to the rack.**

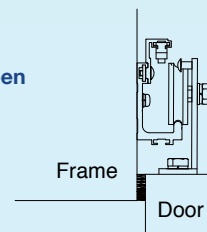
Action: Adjust the height of rack within allowance of screw hole.



## Q: The door does not fully close or closing motion is not smooth/steady.

**A: There may be friction/resistance against door from some object between the door and the frame (such as an airtight rubber, mohair etc.)**

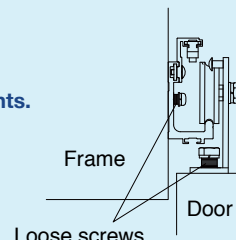
Action: Reduce the friction by modifying the object (changing material, shape, size etc.)



## Q: The door makes rattling noise.

**A: Check the conditions of mounting screws for all components.**

Action: Tighten any loose screws.



## Precautions for preventing accidents

1. Use the product only with suitable door size, weight, material and location as specified in this catalog.
2. In case the control device fails, the door may close fast increasing risk of accident, such as finger pinch, collision, tripping etc... If you observe a malfunction of braking performance due to an oil leak or parts breakage, please replace the product/part immediately.
3. Do not disassemble or modify the product. Any product dismantled/modified shall not be subject to manufacturer's warranty.
4. Make sure that all of the mounting screws are securely fastened. Loose or damaged screws may cause product failure or accident.
5. Be sure to install the anti-bounce brackets. Failure to observe this instruction may result in derailing of hangers or tripping of door.
6. Be sure to install the door stopper at the door back end.
7. Do not drop or strike any of the components. Failure to follow this precaution may cause a fault in operation.
8. While the door is being closed automatically by this product, do not close the door by hand too strongly. Excessive closing force may cause door to close too rapidly and result in accident.
9. Do not hang on to the door or rail.
10. In case the door hits the standard door stopper too strongly, install additional door stopper at the door back end or on the floor.
11. Do not pull out the wire and abruptly release your hand, otherwise the wire would be too strongly rolled back and get jammed/bent inside. (If the wire gets damaged, it would no longer be properly pulled or retracted. Once this happens, please replace the pull spring device.)

## Precautions to be taken to ensure a long service life

1. Wipe off dust from the rail and rollers periodically.
2. Check the condition of product periodically and make sure all components are securely installed and properly working.

**Highly reliable and cost effective self-closing solution  
for wooden sliding doors.**

**Safe & long term operation guaranteed.**

**Simple to install, set up and use.**

## Features

- All parts required for inclining installation on wooden door (e.g. guide rail, guide roller, stop device, etc.) are included in standard component.
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.

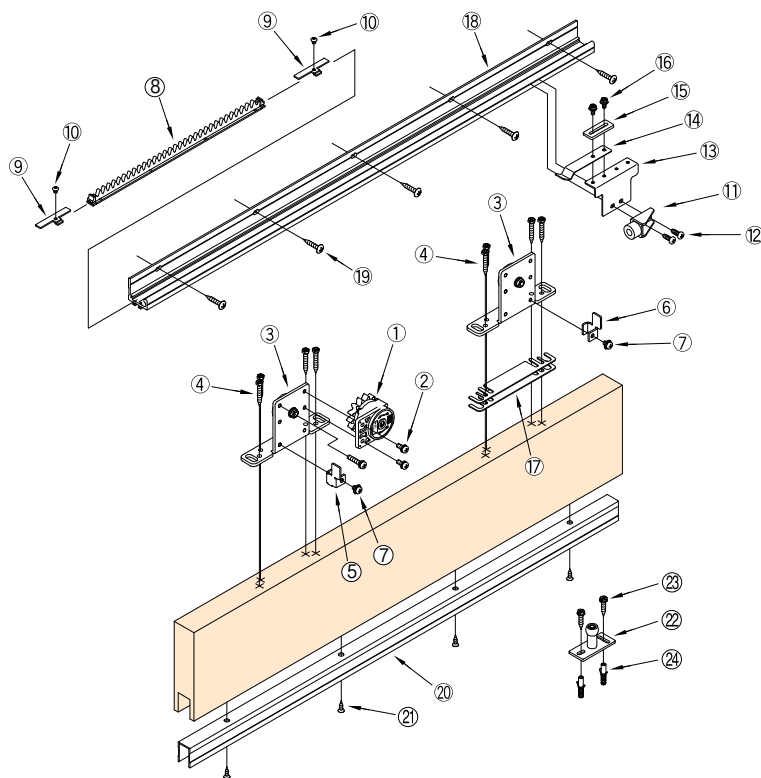


## Specifications

right and left handed opening

| Model                     |             | DSC-CW30V-22                                          | DSC-CW30V-31 | DSC-CW60V-22                                      | DSC-CW60V-31 |
|---------------------------|-------------|-------------------------------------------------------|--------------|---------------------------------------------------|--------------|
| Applicable doors          | Weight [kg] | 10-30                                                 |              | 30-60                                             |              |
|                           | Width [mm]  | 600-1,200                                             | 1,200-1,600  | 600-1,200                                         | 1,200-1,600  |
| Max. stroke [mm]          |             | 1,500                                                 |              |                                                   |              |
| Closing drive system      |             | Rail inclination (3.5/300)                            |              |                                                   |              |
| Controlling system        |             | Fluid friction resistance type                        |              |                                                   |              |
| Working Pressure Range    |             | 7-11 seconds (with a door-opening distance of 900 mm) |              |                                                   |              |
| Initial opening force [N] |             | 2.3 (Door weight 10 kg), 6.1 (Door weight 30 kg)      |              | 6.1 (Door weight 30 kg), 11.6 (Door weight 60 kg) |              |
| Durability                |             | More than half million open/close operations          |              |                                                   |              |
| Control device            |             | SC-C03V                                               |              | SC-C06V                                           |              |
| Rail length [m]           |             | 2.2                                                   | 3.1          | 2.2                                               | 3.1          |
| Guide rail length [m]     |             | 1.3                                                   | 1.6          | 1.3                                               | 1.6          |

## Part details



| No. | Part                                            | Q'ty  | Remark               |
|-----|-------------------------------------------------|-------|----------------------|
| ①   | Control device                                  | 1     | For control device   |
| ②   | M5×12 pan head screw                            | 2     |                      |
| ③   | Hanger                                          | 2     | For hanger           |
| ④   | M5×35 Cross recessed hexagon head tapping screw | 8     |                      |
| ⑤   | Door retaining fitting L                        | 1     | Door retention       |
| ⑥   | Door retaining fitting R                        | 1     |                      |
| ⑦   | M5×8 pan head screw                             | 2     | For control rack set |
| ⑧   | Control rack                                    | 1     |                      |
| ⑨   | Control rack fitting                            | 2     | For door stopper     |
| ⑩   | M4x5 hexagon socket button head screw           | 2     |                      |
| ⑪   | Door stopper                                    | 1     | For stop device      |
| ⑫   | φ5×16 pan head drill screw                      | 2     |                      |
| ⑬   | Plate spring bracket                            | 1     | For guide rail       |
| ⑭   | Plate spring                                    | 1     |                      |
| ⑮   | Stop force adjusting plate                      | 1     | For guide roller     |
| ⑯   | M4×10 Cross recessed hexagon screw              | 2     |                      |
| ⑰   | Height adjusting plate (t=1.0)                  | 16    | For rail             |
| ⑱   | Rail L=2200[L=3100]                             | 1     |                      |
| ⑲   | φ5×30 truss head tapping screw                  | 8[11] | For guide rail       |
| ⑳   | Guide rail L=1300[L=1600]                       | 1     |                      |
| ㉑   | φ4×16 countersunk head tapping screw            | 4[5]  | For guide roller     |
| ㉒   | Guide roller φ16                                | 1     |                      |
| ㉓   | φ5×25 Hexagon head tapping screw                | 2     | For guide roller     |
| ㉔   | M5×12 Hexagon head screw                        | 2     |                      |
| ㉕   | Fischer plug 6×30                               | 2     |                      |

For steel doors, incline type

Door weight : 10-30 kg/30-60 kg

## DSC-C30V/C60V

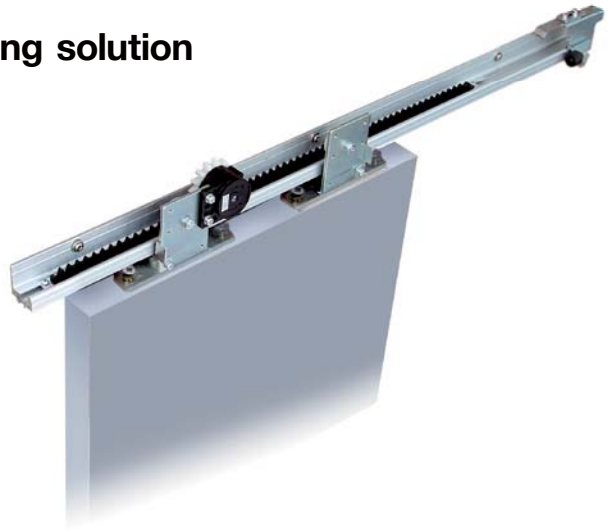
**Highly reliable and cost effective self-closing solution for steel sliding doors.**

**Safe & long term operation guaranteed.**

**Simple to install, set up and use.**

### Features

- All parts required for inclining installation on steel door (e.g. guide rail, guide roller, stop device, etc.) are included in standard component.
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.

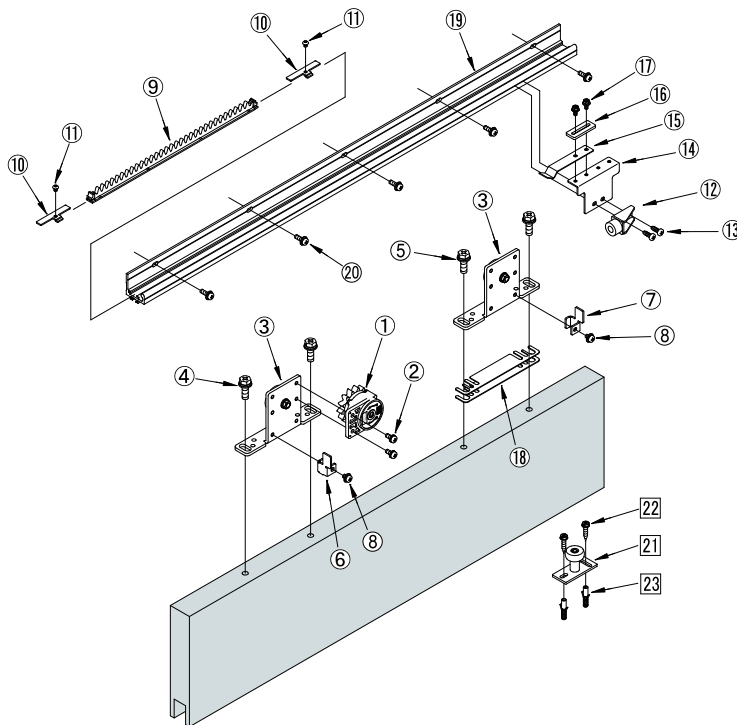


### Specifications

right and left handed opening

| Model                     |             | DSC-C30V-22                                           | DSC-C30V-31 | DSC-C60V-22                                       | DSC-C60V-31 |
|---------------------------|-------------|-------------------------------------------------------|-------------|---------------------------------------------------|-------------|
| Applicable doors          | Weight [kg] | 10-30                                                 |             | 30-60                                             |             |
|                           | Width [mm]  | 600-1,200                                             | 1,200-1,600 | 600-1,200                                         | 1,200-1,600 |
| Max. stroke [mm]          |             | 1,500                                                 |             |                                                   |             |
| Closing drive system      |             | Rail inclination (3.5/300)                            |             |                                                   |             |
| Controlling system        |             | Fluid friction resistance type                        |             |                                                   |             |
| Working Pressure Range    |             | 7-11 seconds (with a door-opening distance of 900 mm) |             |                                                   |             |
| Initial opening force [N] |             | 2.3 (Door weight 10 kg), 6.1 (Door weight 30 kg)      |             | 6.1 (Door weight 30 kg), 11.6 (Door weight 60 kg) |             |
| Durability                |             | More than half million open/close operations          |             |                                                   |             |
| Control device            |             | SC-C03V                                               |             | SC-C06V                                           |             |
| Rail length [m]           |             | 2.2                                                   | 3.1         | 2.2                                               | 3.1         |

### Part details

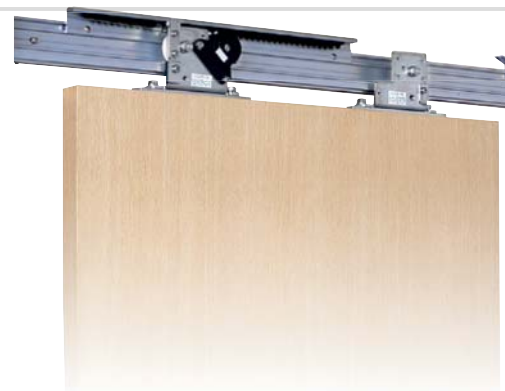


| No. | Part                                    | Q'ty  | Remark               |
|-----|-----------------------------------------|-------|----------------------|
| ①   | Control device                          | 1     | For control device   |
| ②   | M5×12 pan head screw                    | 2     |                      |
| ③   | Hanger                                  | 2     | For hanger           |
| ④   | M8×25 cross recessed hexagon head screw | 2     |                      |
| ⑤   | M8×30 cross recessed hexagon head screw | 2     |                      |
| ⑥   | Door retaining fitting L                | 1     | Door retention       |
| ⑦   | Door retaining fitting R                | 1     |                      |
| ⑧   | M5×8 pan head screw                     | 2     | For control rack set |
| ⑨   | Control rack                            | 1     |                      |
| ⑩   | Control rack fitting                    | 2     | For stop device      |
| ⑪   | M4×5 hexagon socket button head screw   | 2     |                      |
| ⑫   | Door stopper                            | 1     | For door stopper     |
| ⑬   | φ5×16 pan head drill screw              | 2     |                      |
| ⑭   | Plate spring bracket                    | 1     |                      |
| ⑮   | Plate spring                            | 1     | For rail             |
| ⑯   | Stop force adjusting plate              | 1     |                      |
| ⑰   | M4×10 Cross recessed hexagon screw      | 2     | For guide roller     |
| ⑱   | Height adjusting plate (t=1.0)          | 16    |                      |
| ⑲   | Rail L=2200[L=3100]                     | 1     |                      |
| ⑳   | M5×16 pan head screw                    | 8[11] |                      |
| ㉑   | Guide roller *                          | 1     |                      |
| ㉒   | φ5×25 Hexagon head tapping screw        | 2     |                      |
| ㉓   | M5×12 Hexagon head screw                | 2     |                      |
| ㉔   | Fischer plug 6×30                       | 2     |                      |

\*4 types, φ16, 25, 30, 35

## Features

- All parts required for inclining installation on wooden door (e.g. guide rail, guide roller, stop device, etc.) are included in standard component.
- Lug screws are included to attach the hangers to the door directly and securely.
- Long life time achieved by endless fluid frictional resistance type braking mechanism.
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.
- Quick and easy installation without any special tool.



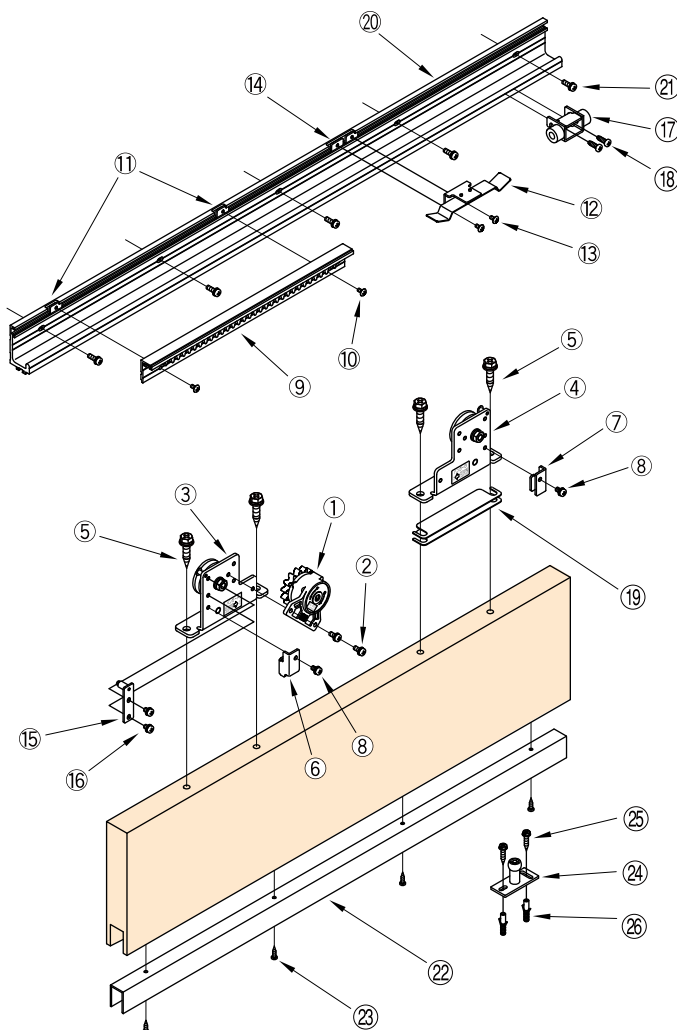
## Specifications

right and left handed opening

| Model                     | DSC-CW03-22                                           | DSC-CW03-31 |
|---------------------------|-------------------------------------------------------|-------------|
| Applicable doors          | Weight [kg]                                           | 10-30       |
|                           | Width [mm]                                            | 700-1,200   |
|                           |                                                       | 1,200-1,600 |
| Max. stroke [mm]          | 1,500                                                 |             |
| Closing drive system      | Rail inclination (3.5/300)                            |             |
| Controlling system        | Fluid friction resistance type                        |             |
| Working Pressure Range    | 7-11 seconds (with a door-opening distance of 900 mm) |             |
| Initial opening force [N] | 2.5 (Door weight 10 kg), 5.4 (Door weight 30 kg)      |             |
| Durability                | More than 1 million open/close operations             |             |
| Control device            | SC-C03                                                |             |
| Rail length [m]           | 2.2                                                   | 3.1         |
| Guide rail [m]            | 1.3                                                   | 1.6         |



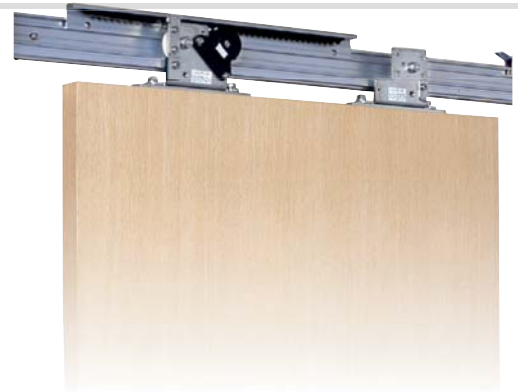
## Part details



| No. | Part                                | Q'ty  | Remark               |
|-----|-------------------------------------|-------|----------------------|
| ①   | Control device                      | 1     | For control device   |
| ②   | M5×12 pan head screw                | 2     |                      |
| ③   | Hanger A                            | 1     | For hanger           |
| ④   | Hanger B                            | 1     |                      |
| ⑤   | φ8×50 coach screw                   | 4     | Door retention       |
| ⑥   | Door retaining fitting Hanger A     | 1     |                      |
| ⑦   | Door retaining fitting Hanger B     | 1     | For stop device      |
| ⑧   | M5X8 pan head screw                 | 2     |                      |
| ⑨   | Control rack set                    | 1     | For control rack set |
| ⑩   | M4×8 truss head screw               | 2     |                      |
| ⑪   | Plate nut                           | 2     | For door stopper     |
| ⑫   | Plate spring                        | 1     |                      |
| ⑬   | M4×8 truss head screw               | 2     | For guide rail       |
| ⑭   | Plate nut                           | 2     |                      |
| ⑮   | Stop roller                         | 1     | For guide roller     |
| ⑯   | M5×8 pan head screw                 | 2     |                      |
| ⑰   | Door stopper                        | 1     | For rail             |
| ⑱   | φ5×16 pan head tapping screw        | 2     |                      |
| ⑲   | Height adjusting plate (t=1.0, 0.5) | 15+1  | For guide rail       |
| ⑳   | Rail L=2200[L=3100]                 | 1     |                      |
| ㉑   | M5×16 pan head screw                | 8[11] | For guide roller     |
| ㉒   | φ5×30 truss head tapping screw      | 8[11] |                      |
| ㉓   | Guide rail L=1300[L=1600]           | 1     | For guide roller     |
| ㉔   | φ4×16 pan head tapping screw        | 5[6]  |                      |
| ㉕   | Guide roller φ16                    | 1     | For guide roller     |
| ㉖   | φ5×25 Hexagon head tapping screw    | 2     |                      |
| ㉗   | M5×12 Hexagon head bolt             | 2     | For guide roller     |
| ㉘   | Fischer plug 6X30                   | 2     |                      |

## Features

- All parts required for inclining installation on wooden door (e.g. guide rail, guide roller, stop device, etc.) are included in standard component.
- Long life time achieved by endless fluid frictional resistance type braking mechanism.
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.
- Quick and easy installation without any special tool.



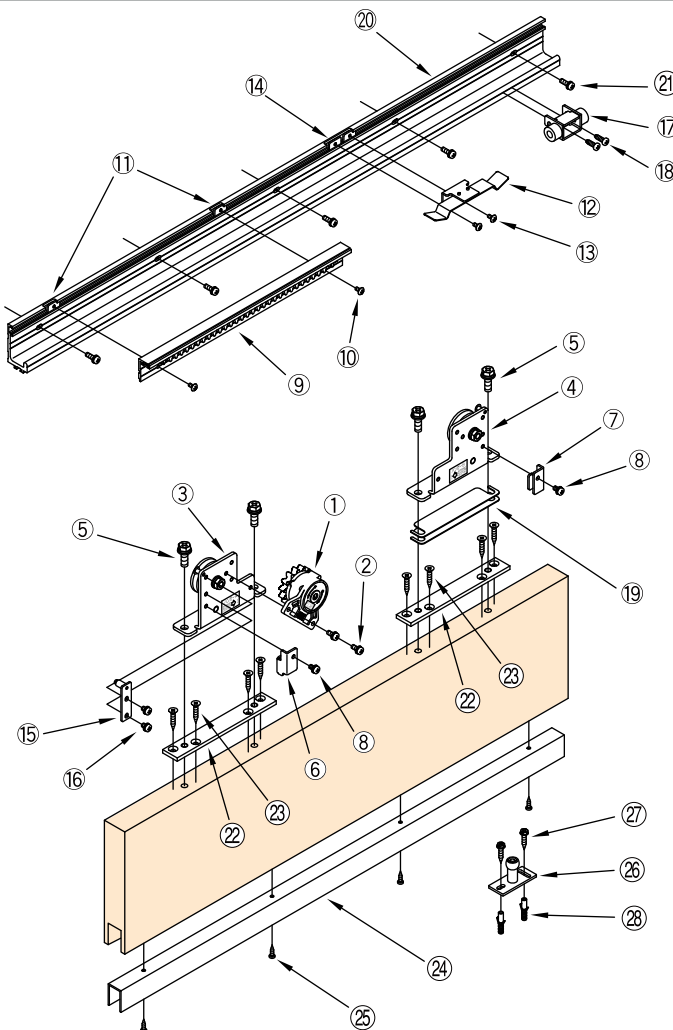
## Specifications

right and left handed opening

| Model                     | DSC-CW08-22                                           | DSC-CW08-31 |
|---------------------------|-------------------------------------------------------|-------------|
| Applicable doors          | Weight [kg]                                           | 30-80       |
|                           | Width [mm]                                            | 700-1,200   |
|                           |                                                       | 1,200-1,600 |
| Max. stroke [mm]          | 1,500                                                 |             |
| Closing drive system      | Rail inclination (3.5/300)                            |             |
| Controlling system        | Fluid friction resistance type                        |             |
| Working Pressure Range    | 7-11 seconds (with a door-opening distance of 900 mm) |             |
| Initial opening force [N] | 5.4 (Door weight 30 kg), 12.5 (Door weight 80 kg)     |             |
| Durability                | More than 1 million open/close operations             |             |
| Control device            | SC-C08                                                |             |
| Rail length [m]           | 2.2                                                   | 3.1         |
| Guide rail [m]            | 1.3                                                   | 1.6         |



## Part details



| No. | Part                                   | Q'ty  | Remark                |
|-----|----------------------------------------|-------|-----------------------|
| ①   | Control device                         | 1     | For control device    |
| ②   | M5×12 pan head screw                   | 2     |                       |
| ③   | Hanger A                               | 1     | For hanger            |
| ④   | Hanger B                               | 1     |                       |
| ⑤   | φ8×25 cross recessed hexagon head bolt | 2     | Door retention        |
| ⑥   | Door retaining fitting Hanger A        | 1     |                       |
| ⑦   | Door retaining fitting Hanger B        | 1     | For control rack set  |
| ⑧   | M5×8 pan head screw                    | 2     |                       |
| ⑨   | Control rack set                       | 1     | For stop device       |
| ⑩   | M4×8 truss head screw                  | 2     |                       |
| ⑪   | Plate nut                              | 2     | For door stopper      |
| ⑫   | Plate spring                           | 1     |                       |
| ⑬   | M4×8 truss head screw                  | 2     | For wooden door plate |
| ⑭   | Plate nut                              | 2     |                       |
| ⑮   | Stop roller                            | 1     | For rail              |
| ⑯   | M5×8 pan head screw                    | 2     |                       |
| ⑰   | Door stopper                           | 1     | For guide rail        |
| ⑱   | φ5×16 pan head tapping screw           | 2     |                       |
| ⑲   | Height adjusting plate (t=1.0,0.5)     | 15+1  | For guide roller      |
| ⑳   | Rail L=2200[L=3100]                    | 1     |                       |
| ㉑   | M5×16 pan head screw                   | 8[11] | For wooden door plate |
| ㉒   | φ5×30 truss head tapping screw         | 8[11] |                       |
| ㉓   | Wooden door plate                      | 2     | For guide rail        |
| ㉔   | φ5×30 countersunk head tapping screw   | 8     |                       |
| ㉕   | Guide rail L=1300[L=1600]              | 1     | For guide roller      |
| ㉖   | φ4×16 pan head tapping screw           | 5[6]  |                       |
| ㉗   | Guide roller φ16                       | 1     | For guide roller      |
| ㉘   | φ5×25 Hexagon head tapping screw       | 2     |                       |
| ㉙   | M5×12 Hexagon head screw               | 2     | For guide roller      |
| ㉚   | Fischer plug 6x30                      | 2     |                       |

## Features

- All parts required for inclining installation on steel door (e.g. guide rail, guide roller, stop device, etc.) are included in standard component.
- Long life time achieved by endless fluid frictional resistance type braking mechanism.
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.
- Quick and easy installation without any special tool.

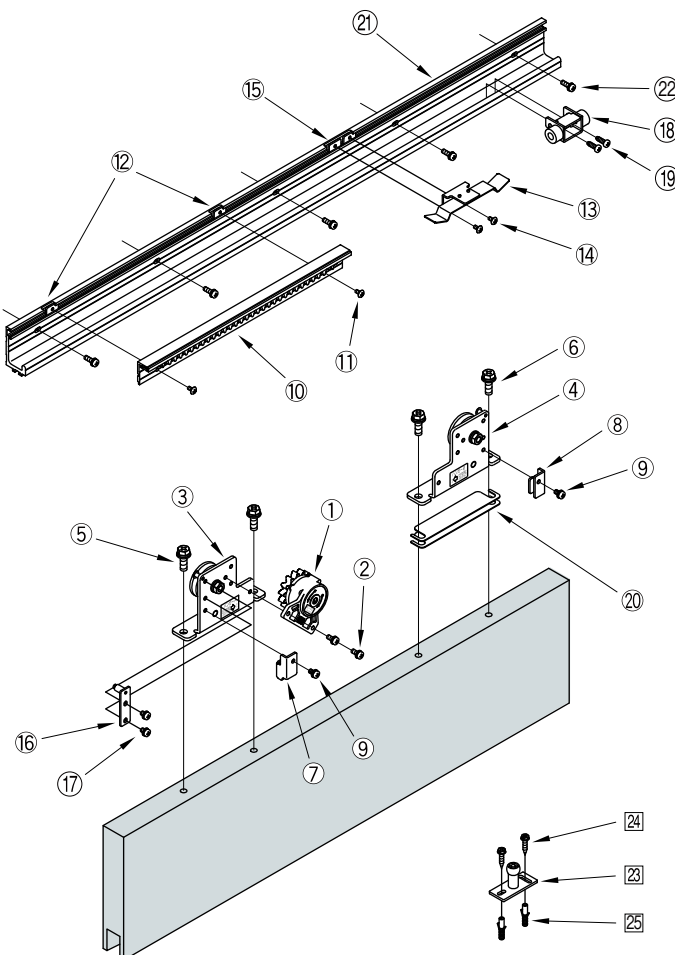


## Specifications

right and left handed opening

| Model                     |             | DSC-C03-22                                            | DSC-C03-31  | DSC-C03-22                                        | DSC-C03-31  |
|---------------------------|-------------|-------------------------------------------------------|-------------|---------------------------------------------------|-------------|
| Applicable doors          | Weight [kg] | 10-30                                                 |             | 30-80                                             |             |
|                           | Width [mm]  | 700-1,200                                             | 1,200-1,600 | 700-1,200                                         | 1,200-1,600 |
| Max. stroke [mm]          |             | 1,500                                                 |             |                                                   |             |
| Closing drive system      |             | Rail inclination (3.5/300)                            |             |                                                   |             |
| Controlling system        |             | Fluid friction resistance type                        |             |                                                   |             |
| Controlling time          |             | 7-11 seconds (with a door-opening distance of 900 mm) |             |                                                   |             |
| Initial opening force [N] |             | 2.5 (Door weight 10 kg), 5.4(Door weight 30 kg)       |             | 5.4 (Door weight 30 kg), 12.5 (Door weight 80 kg) |             |
| Durability                |             | More than 1 million open/close operations             |             |                                                   |             |
| Control device            |             | SC-C03                                                |             | SC-C08                                            |             |
| Rail length [m]           |             | 2.2                                                   | 3.1         | 2.2                                               | 3.1         |

## Part details

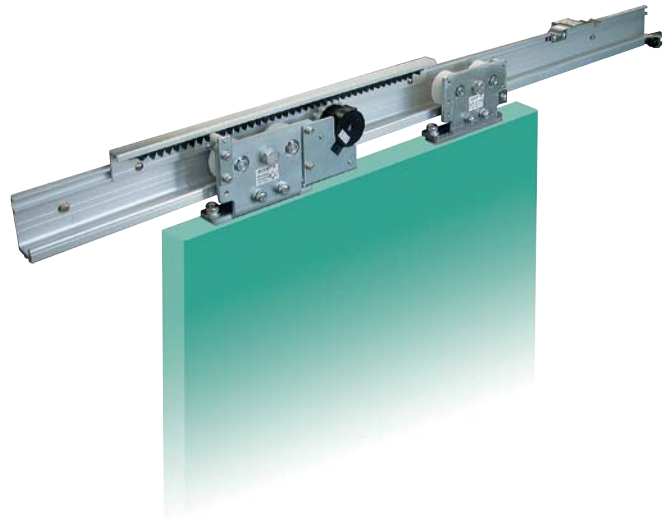


| No. | Part                                   | Q'ty  | Remark               |
|-----|----------------------------------------|-------|----------------------|
| ①   | Control device                         | 1     | For control device   |
| ②   | M5×12 pan head screw                   | 2     |                      |
| ③   | Hanger A                               | 1     | For Hanger           |
| ④   | Hanger B                               | 1     |                      |
| ⑤   | M8×25 cross recessed hexagon head bolt | 2     | Door retention       |
| ⑥   | M8×30 cross recessed hexagon head bolt | 2     |                      |
| ⑦   | Door retaining fitting Hanger A        | 1     | Door retention       |
| ⑧   | Door retaining fitting Hanger B        | 1     |                      |
| ⑨   | M5×8 pan head screw                    | 2     | For control rack set |
| ⑩   | Control rack set                       | 1     |                      |
| ⑪   | M4×8 truss head screw                  | 2     | For stop device      |
| ⑫   | Plate nut                              | 2     |                      |
| ⑬   | Plate spring                           | 1     | For stop device      |
| ⑭   | M4×8 truss head screw                  | 2     |                      |
| ⑮   | Plate nut                              | 2     | For door stopper     |
| ⑯   | Stop roller                            | 1     |                      |
| ⑰   | M5×8 pan head screw                    | 2     | For door stopper     |
| ⑱   | Door stopper                           | 1     |                      |
| ⑲   | φ5×16 pan head tapping screw           | 1     | For rail             |
| ⑳   | Height adjusting plate (t=1.0,0.5)     | 15+1  |                      |
| ㉑   | Rail L=2200[L=3100]                    | 1     | For rail             |
| ㉒   | M5×16 pan head screw                   | 8[11] |                      |
| ㉓   | φ5×30 truss head tapping screw         | 8[11] | For guide roller     |
| ㉔   | Guide roller *                         | 1     |                      |
| ㉕   | φ5×25 Hexagon head tapping screw       | 2     | For guide roller     |
| ㉖   | M5×12 Hexagon head screw               | 2     |                      |
| ㉗   | Fischer plug 6×30                      | 2     |                      |

\*4 types, φ16, 25, 30, 35

## Features

- All parts required for inclining installation on heavy steel door (e.g. guide rail, guide roller, stop device, etc.) are included in standard component.
- Long life time achieved by endless fluid frictional resistance type braking mechanism.
- Adopting longer control rack, the damper (braking) range has become 1.5 times wider than conventional model.
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.
- Quick and easy installation without any special tool.

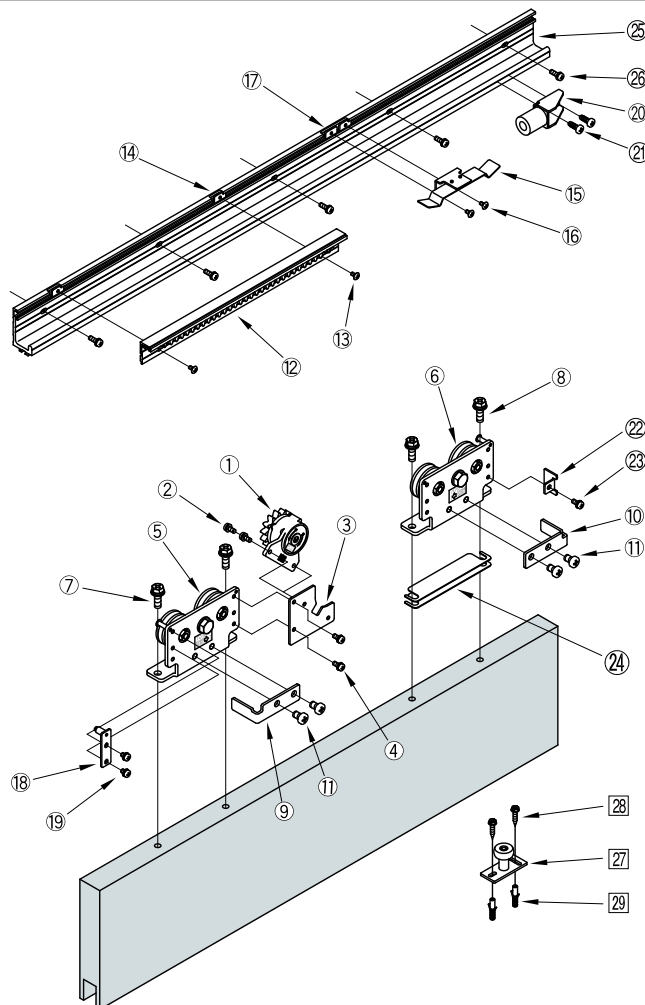


## Specifications

right and left handed opening

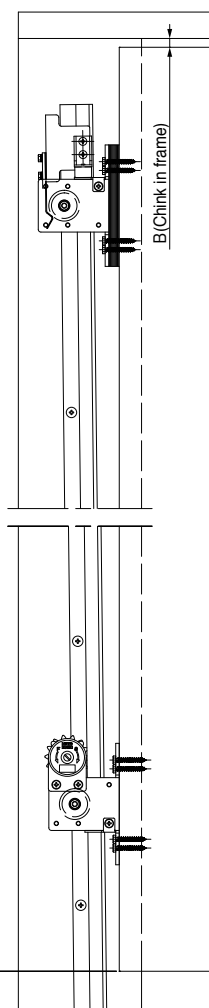
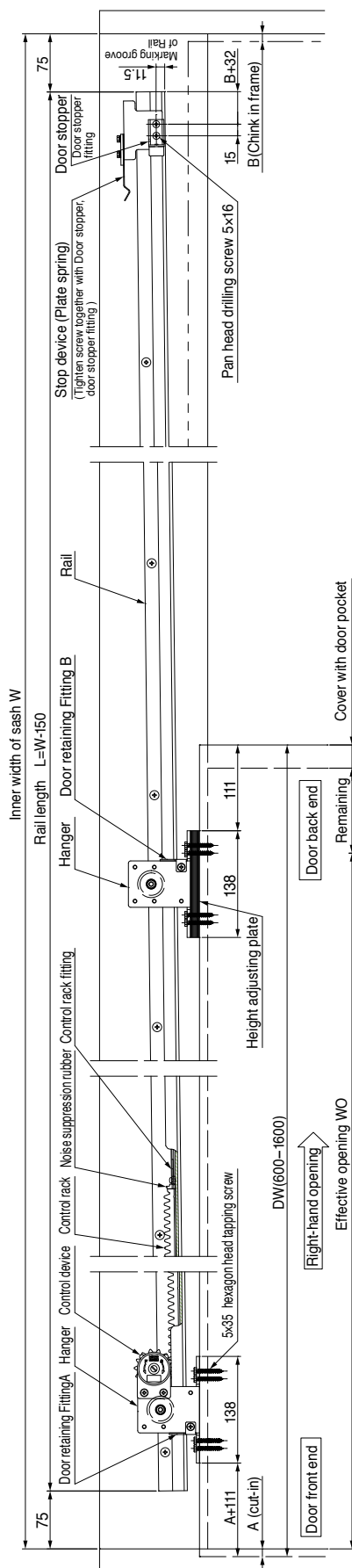
| Model                     | DSC-C015-22                                           | DSC-C015-31 |
|---------------------------|-------------------------------------------------------|-------------|
| Applicable doors          | Weight [kg]                                           | 80-150      |
|                           | Width [mm]                                            | 700-1,200   |
|                           |                                                       | 1,200-1,600 |
| Max. stroke [mm]          | 1,500                                                 |             |
| Closing drive system      | Rail inclination (3.5/300)                            |             |
| Controlling system        | Fluid friction resistance type                        |             |
| Controlling time          | 7-11 seconds (with a door-opening distance of 900 mm) |             |
| Initial opening force [N] | 12.5 (Door weight 80 kg), 24.0 (Door weight 150 kg)   |             |
| Durability                | More than 1 million open/close operations             |             |
| Control device            | SC-C15                                                |             |
| Rail length [m]           | 2.2                                                   | 3.1         |

## Part details



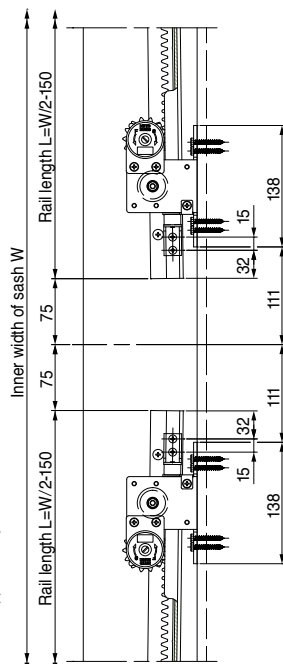
| No. | Part                                   | Q'ty  | Remark               |
|-----|----------------------------------------|-------|----------------------|
| ①   | Control device                         | 1     | For control device   |
| ②   | M5×12 pan head screw                   | 2     |                      |
| ③   | Control device bracket                 | 1     | For Hanger           |
| ④   | M5×12 pan head screw                   | 2     |                      |
| ⑤   | Hanger A                               | 1     | Door retention       |
| ⑥   | Hanger B                               | 1     |                      |
| ⑦   | M8×25 cross recessed hexagon head bolt | 2     | For control rack set |
| ⑧   | M8×30 cross recessed hexagon head bolt | 2     |                      |
| ⑨   | Door retaining fitting Hanger A        | 1     | For stop device      |
| ⑩   | Door retaining fitting Hanger B        | 1     |                      |
| ⑪   | M8×12 pan head screw                   | 4     | For door stopper     |
| ⑫   | Control rack set                       | 1     |                      |
| ⑬   | M4×8 truss head screw                  | 2     | For rail             |
| ⑭   | Plate nut                              | 2     |                      |
| ⑮   | Plate spring                           | 1     | For guide roller     |
| ⑯   | M4×8 truss head screw                  | 2     |                      |
| ⑰   | Plate nut                              | 2     | For guide roller     |
| ⑱   | Stop roller                            | 1     |                      |
| ⑲   | M5×8 pan head screw                    | 2     | For guide roller     |
| ⑳   | Door stopper                           | 1     |                      |
| ㉑   | φ6×19 Pan head drilling screw          | 2     | For guide roller     |
| ㉒   | Door stopper bearing plate             | 1     |                      |
| ㉓   | M5×8 pan head screw                    | 1     | For guide roller     |
| ㉔   | Height adjusting plate (t=1.0, 0.5)    | 15+1  |                      |
| ㉕   | Rail L=2200[L=3100]                    | 1     | For guide roller     |
| ㉖   | M5×16 pan head screw                   | 8[11] |                      |
| ㉗   | φ5×30 pan head tapping screw           | 8[11] | For guide roller     |
| ㉘   | Guide roller *                         | 1     |                      |
| ㉙   | φ5×25 Hexagon head tapping screw       | 2     | For guide roller     |
| ㉚   | M5×12 Hexagon head screw               | 2     |                      |
| ㉛   | Fischer plug 6×30                      | 2     |                      |

\*4 types, φ16, 25, 30, 35

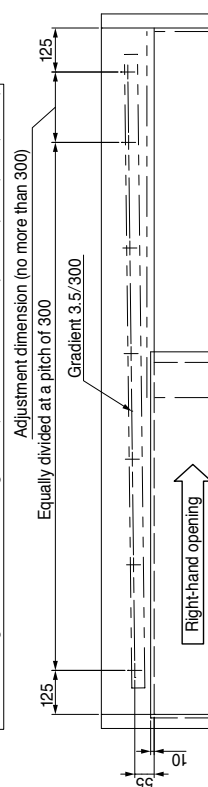


Bi-parting door

\*Door stopper is required in the center



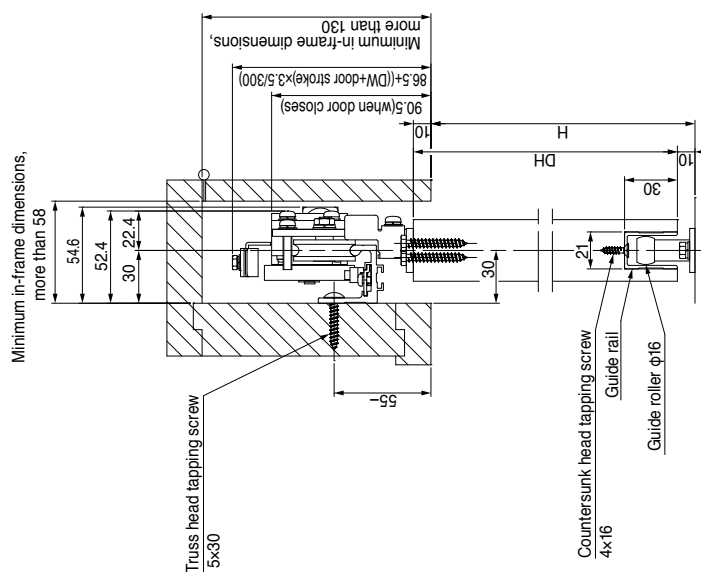
Position diagram for rail-mounting holes (as viewed from inspection panel) M5 (P=0.8)

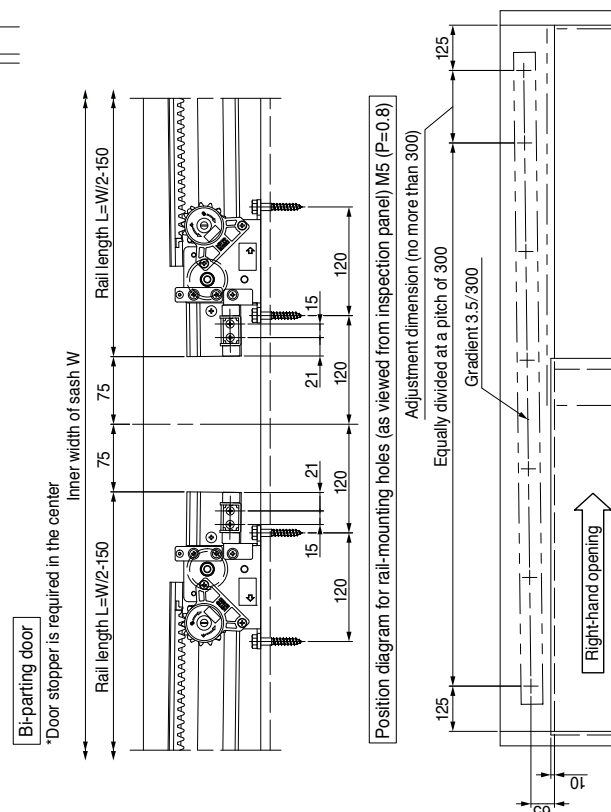
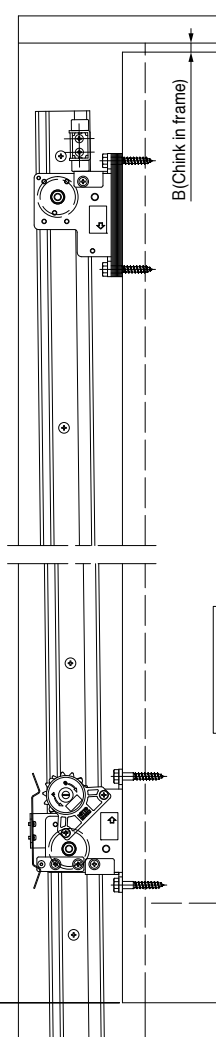


| Door width DW [mm] | No. of plate used |
|--------------------|-------------------|
| 600-700 or less    | 3 pcs.            |
| 700-800 or less    | 5 pcs.            |
| 800-900 or less    | 6 pcs.            |
| 900-1000 or less   | 7 pcs.            |
| 1000-1100 or less  | 8 pcs.            |
| 1100-1200 or less  | 9 pcs.            |
| 1200-1300 or less  | 10 pcs.           |
| 1300-1400 or less  | 12 pcs.           |
| 1400-1500 or less  | 13 pcs.           |
| 1500-1600 or less  | 14 pcs.           |

Remarks

- These diagrams represent a right-hand opening type. The left-hand opening type is a mirror image of these diagrams.
- Door orientation is right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.

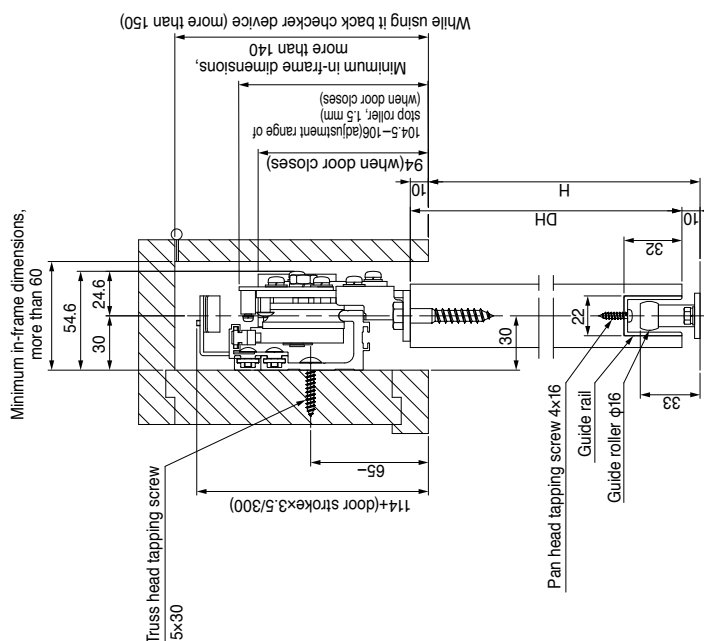


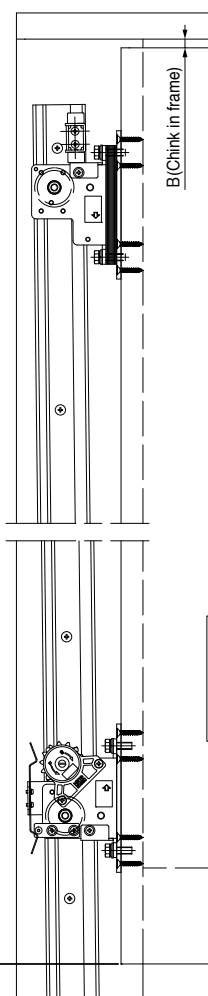


| Door width        | DW [mm] | No. of plate used |
|-------------------|---------|-------------------|
| 700–800 or less   |         | 6 pcs.            |
| 800–900 or less   |         | 7 pcs.            |
| 900–1000 or less  |         | 8 pcs.            |
| 1000–1100 or less |         | 9 pcs.            |
| 1100–1200 or less |         | 10 pcs.           |
| 1200–1300 or less |         | 12 pcs.           |
| 1300–1400 or less |         | 13 pcs.           |
| 1400–1500 or less |         | 14 pcs.           |
| 1500–1600 or less |         | 15 pcs.           |

Remarks

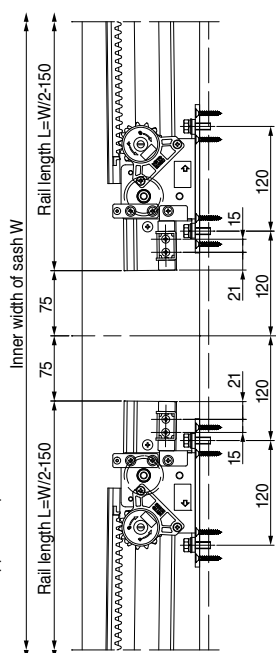
1. These diagrams represent a right-hand opening type. The left-hand opening type is a mirror image of these diagrams.
2. Door orientation is right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.



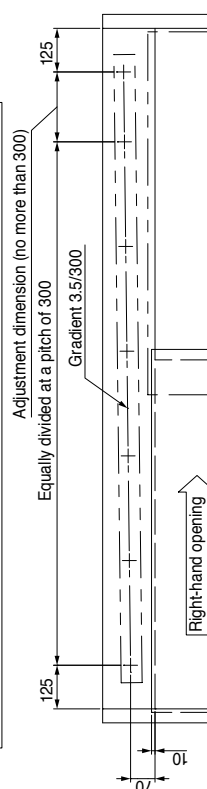


Bi-parting door

\*Door stopper is required in the center



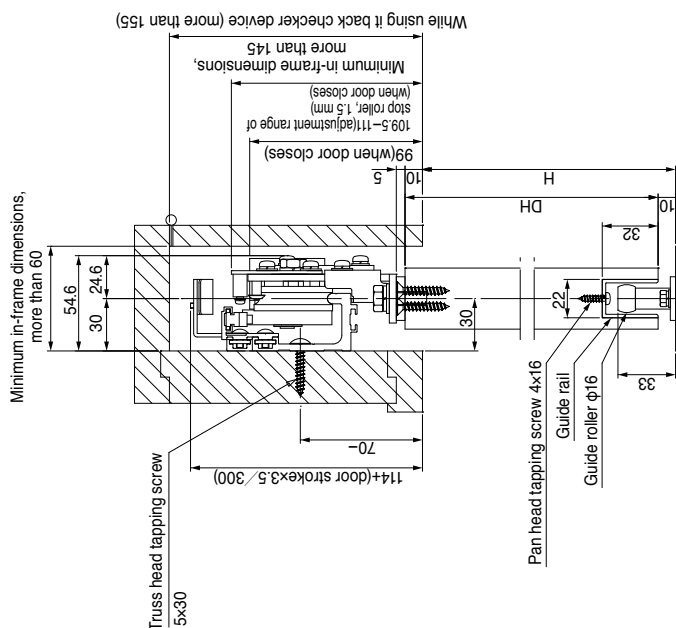
Position diagram for rail-mounting holes (as viewed from inspection panel) M5 ( $P=0.8$ )

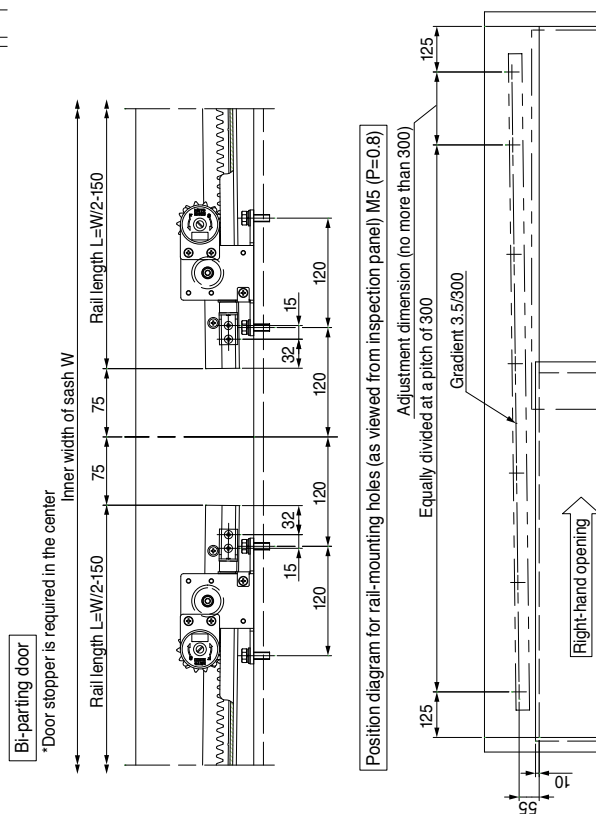
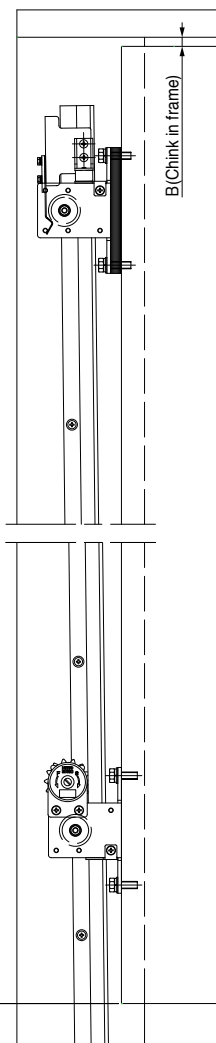


| Number of height adjusting plate. (reference) | No. of plate used |
|-----------------------------------------------|-------------------|
| Door width DW [mm]                            |                   |
| 700-800 or less                               | 6 pcs.            |
| 800-900 or less                               | 7 pcs.            |
| 900-1000 or less                              | 8 pcs.            |
| 1000-1100 or less                             | 9 pcs.            |
| 1100-1200 or less                             | 10 pcs.           |
| 1200-1300 or less                             | 12 pcs.           |
| 1300-1400 or less                             | 13 pcs.           |
| 1400-1500 or less                             | 14 pcs.           |
| 1500-1600 or less                             | 15 pcs.           |

## Remarks

1. These diagrams represent a right-hand opening type. The left-hand opening type is a mirror image of these diagrams.
2. Door orientation is right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.

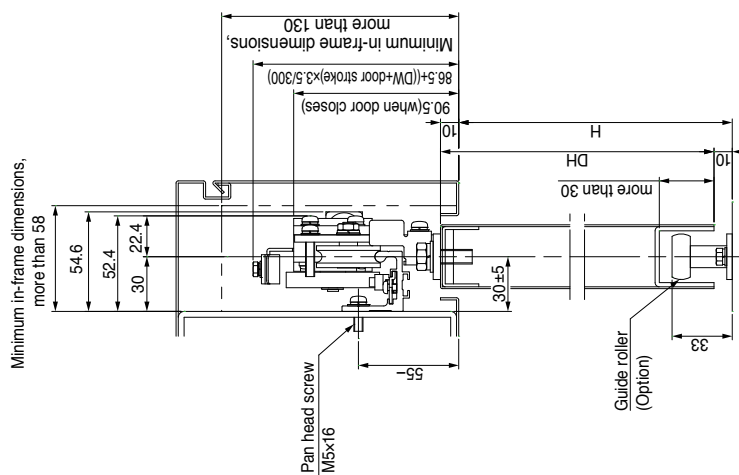


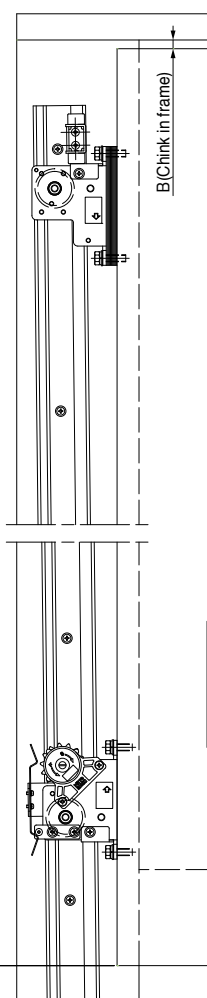


| Number of height adjusting plate. (reference) | Door width DW [mm] | No. of plate used |
|-----------------------------------------------|--------------------|-------------------|
|                                               | 600~700 or less    | 3 pcs.            |
|                                               | 700~800 or less    | 5 pcs.            |
|                                               | 800~900 or less    | 6 pcs.            |
|                                               | 900~1000 or less   | 7 pcs.            |
|                                               | 1000~1100 or less  | 8 pcs.            |
|                                               | 1100~1200 or less  | 9 pcs.            |
|                                               | 1200~1300 or less  | 10 pcs.           |
|                                               | 1300~1400 or less  | 12 pcs.           |
|                                               | 1400~1500 or less  | 13 pcs.           |
|                                               | 1500~1600 or less  | 14 pcs.           |

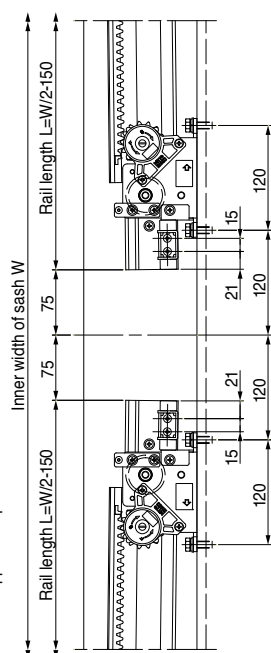
Remarks

1. These diagrams represent a right-hand opening type. The left-hand opening type is a mirror image of these diagrams.
2. Door orientation right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.

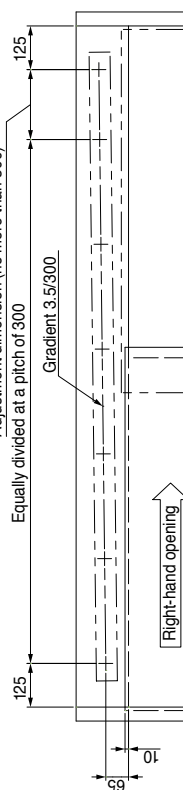




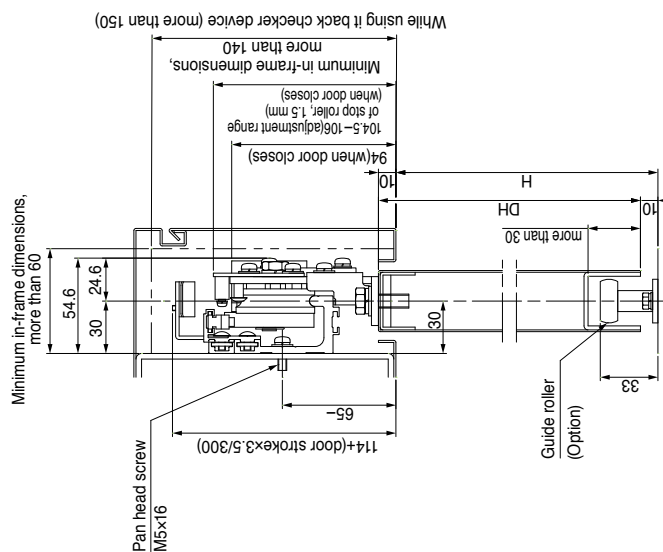
Door stopper is required in the center

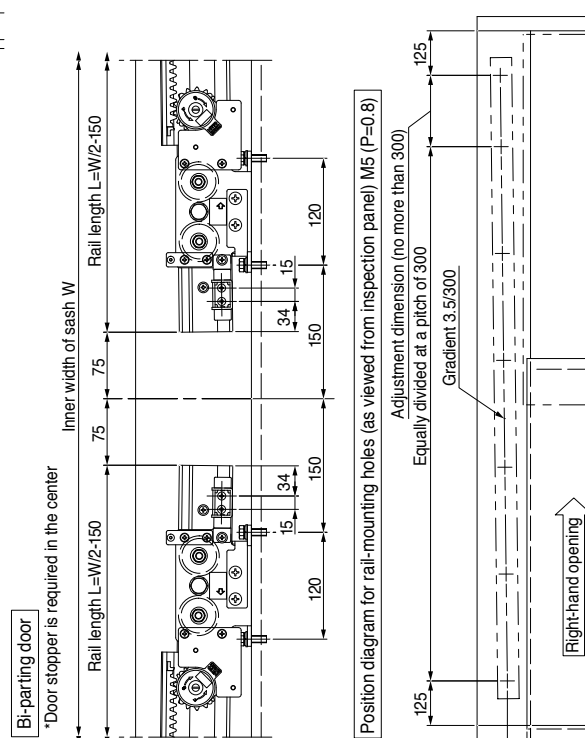
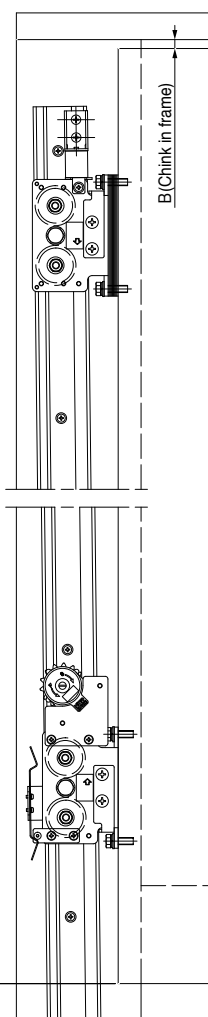


Adjustment dimension (no more than 300)

Remarks

1. These diagrams represent a right-hand opening type. The left-hand opening type is a mirror image of these diagrams.
2. Door orientation is right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.

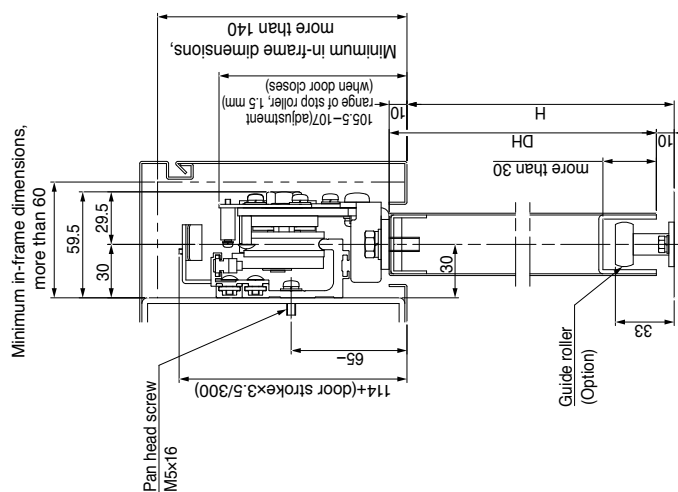




| Number of height adjusting plate. (reference) | No. of plate used |
|-----------------------------------------------|-------------------|
| Door width DW [mm]                            |                   |
| 700-800 or less                               | 4 pcs.            |
| 800-900 or less                               | 5 pcs.            |
| 900-1000 or less                              | 6 pcs.            |
| 1000-1100 or less                             | 7 pcs.            |
| 1100-1200 or less                             | 8 pcs.            |
| 1200-1300 or less                             | 10 pcs.           |
| 1300-1400 or less                             | 11 pcs.           |
| 1400-1500 or less                             | 12 pcs.           |
| 1500-1600 or less                             | 13 pcs.           |

Remarks

1. These diagrams represent a right-hand opening type. The left-hand opening type is a mirror image of these diagrams.
2. Door orientation is right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.



**Highly reliable and cost effective self-closing solution  
for wooden sliding doors.**

**Safe & long term operation guaranteed.**

**Simple to install, set up and use.**

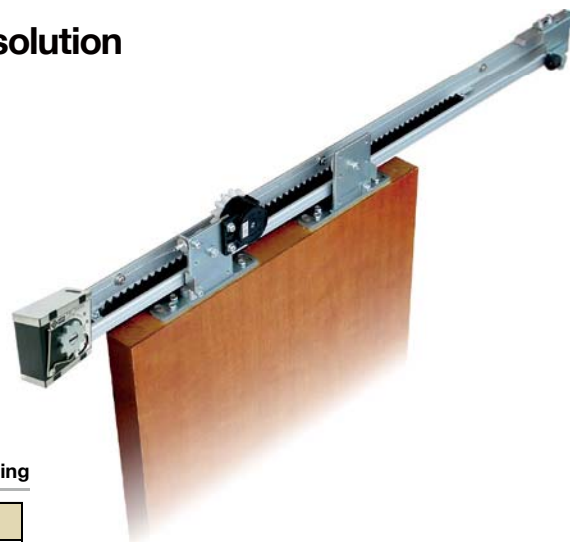
### Features

- All parts required for horizontal installation on light wooden door (e.g. guide rail, guide roller, stop device, etc.) are included in standard component.
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.

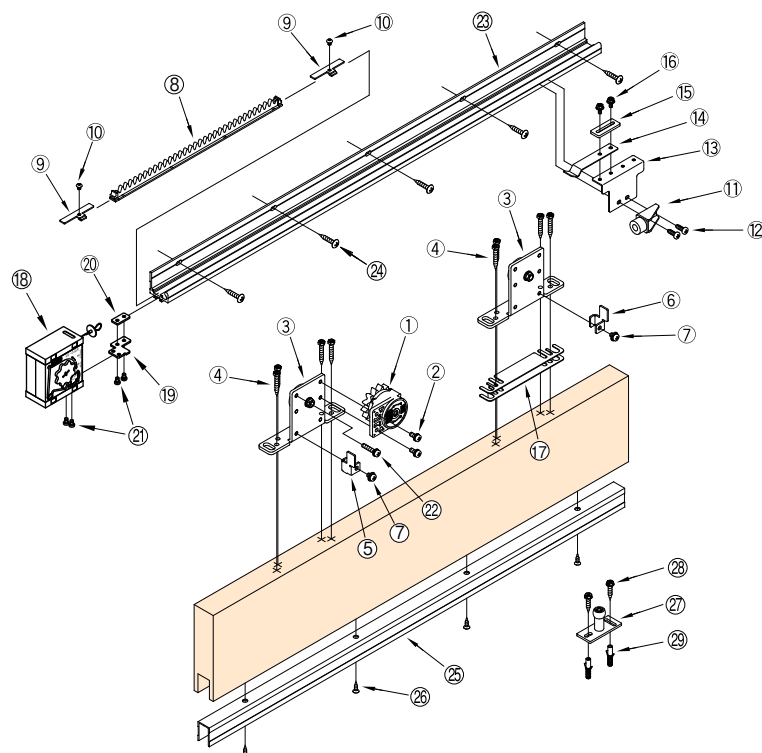
### Specifications

right and left handed opening

| Model                     |             | NSC-CW60V-22                                          | NSC-CW60V-31 |
|---------------------------|-------------|-------------------------------------------------------|--------------|
| Applicable doors          | Weight [kg] | 10-60                                                 |              |
|                           | Width [mm]  | 600-1,200                                             | 1,200-1,600  |
| Max. stroke [mm]          |             | 1,500                                                 |              |
| Closing drive system      |             | Spiral spring type                                    |              |
| Controlling system        |             | Fluid friction resistance type                        |              |
| Controlling time          |             | 7-11 seconds (with a door-opening distance of 900 mm) |              |
| Initial opening force [N] |             | 6.5 (Door weight 10 kg), 8.9 (Door weight 60 kg)      |              |
| Durability                |             | More than half million open/close operations          |              |
| Control device            |             | SC-C06V                                               |              |
| Pull spring               |             | PS-04A                                                |              |
| Rail length [m]           |             | 2.2                                                   | 3.1          |
| Guide rail [m]            |             | 1.3                                                   | 1.6          |



### Part details



| No. | Part                                            | Q'ty  | Remark             |
|-----|-------------------------------------------------|-------|--------------------|
| ①   | Control device                                  | 1     | For control device |
| ②   | M5×12 pan head screw                            | 2     |                    |
| ③   | Hanger                                          | 2     | For hanger         |
| ④   | φ5X35 cross recessed hexagon head tapping screw | 8     |                    |
| ⑤   | Door retaining fitting Hanger L                 | 1     | Door retention     |
| ⑥   | Door retaining fitting Hanger R                 | 1     |                    |
| ⑦   | M5×8 pan head screw                             | 2     | For control rack   |
| ⑧   | Control rack                                    | 1     |                    |
| ⑨   | Control rack fitting                            | 2     | For stop device    |
| ⑩   | M4x5 hexagon socket button head screw           | 2     |                    |
| ⑪   | Door stopper                                    | 1     | For door stopper   |
| ⑫   | 5x16 pan head drilling screw                    | 2     |                    |
| ⑬   | Plate spring bracket                            | 1     | For pull spring    |
| ⑭   | Plate spring                                    | 1     |                    |
| ⑮   | Stop force adjusting plate                      | 1     | For rail           |
| ⑯   | M4X10 cross recessed hexagon head screw         | 2     |                    |
| ⑰   | Height adjusting plate (t = 1.0)                | 4     | For guide rail     |
| ⑱   | Pull spring                                     | 1     |                    |
| ⑲   | Pull spring bracket                             | 1     | For guide roller   |
| ⑳   | Plate nut                                       | 1     |                    |
| ㉑   | M4×6 pan head screw                             | 4     | For Fischer plug   |
| ㉒   | M5×25 pan head screw                            | 1     |                    |
| ㉓   | Rail L = 2200 [L = 3100]                        | 1     | For guide roller   |
| ㉔   | φ5×30 truss head tapping screw                  | 8[11] |                    |
| ㉕   | Guide rail L = 1300 [L = 1600]                  | 1     | For guide roller   |
| ㉖   | φ4x16 countersunk head tapping screw            | 4[5]  |                    |
| ㉗   | φ16 Guide roller                                | 1     | For guide roller   |
| ㉘   | φ5×25 Hexagon head tapping screw                | 2     |                    |
| ㉙   | M5×12 Hexagon head screw                        | 2     | For guide roller   |
| ㉚   | Fischer plug 6x30                               | 2     |                    |

For steel doors, horizontal type

Door weight : 10-60 kg

# NSC-C60V

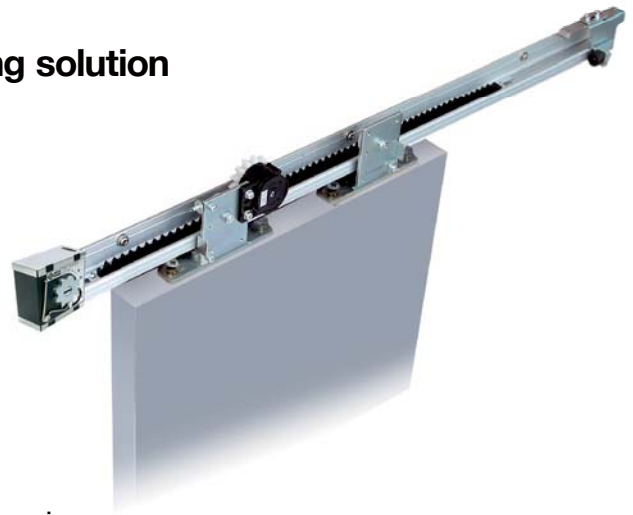
**Highly reliable and cost effective self-closing solution for steel sliding doors.**

**Safe & long term operation guaranteed.**

**Simple to install, set up and use.**

## Features

- All parts required for horizontal installation on light steel door (e.g. guide rail, guide roller, stop device, etc.) are included in standard component.
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.

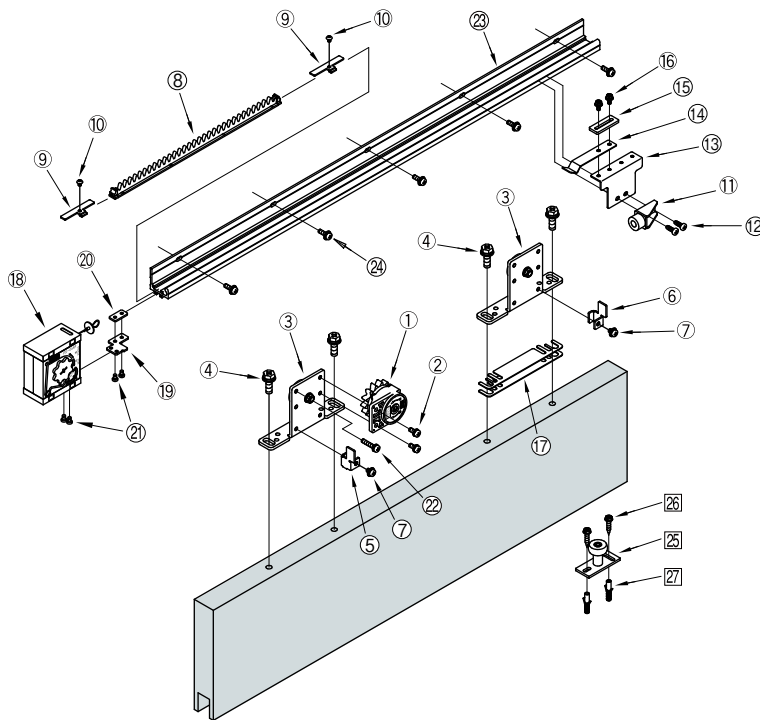


## Specifications

right and left handed opening

| Model                     |             | NSC-C60V-22                                           | NSC-C60V-31 |
|---------------------------|-------------|-------------------------------------------------------|-------------|
| Applicable doors          | Weight [kg] | 10-60                                                 |             |
|                           | Width [mm]  | 600-1,200                                             | 1,200-1,600 |
| Max. stroke [mm]          |             | 1,500                                                 |             |
| Closing drive system      |             | Spiral spring type                                    |             |
| Controlling system        |             | Fluid friction resistance type                        |             |
| Controlling time          |             | 7-11 seconds (with a door-opening distance of 900 mm) |             |
| Initial opening force [N] |             | 6.5 (Door weight 10 kg), 8.9 (Door weight 60 kg)      |             |
| Durability                |             | More than half million open/close operations          |             |
| Control device            |             | SC-C06V                                               |             |
| Pull spring               |             | PS-04A                                                |             |
| Rail length [m]           |             | 2.2                                                   | 3.1         |

## Part details



| No. | Part                                    | Q'ty  | Remark                    |
|-----|-----------------------------------------|-------|---------------------------|
| ①   | Control device                          | 1     | For control device        |
| ②   | M5×12 pan head screw                    | 2     |                           |
| ③   | Hanger                                  | 2     | For hanger                |
| ④   | M8X25 cross recessed hexagon head screw | 4     |                           |
| ⑤   | Door retaining fitting Hanger L         | 1     | Door retention            |
| ⑥   | Door retaining fitting Hanger R         | 1     |                           |
| ⑦   | M5×8 pan head screw                     | 2     |                           |
| ⑧   | Control rack                            | 1     |                           |
| ⑨   | Control rack fitting                    | 2     | For control rack          |
| ⑩   | M4X5 hexagon socket button head screw   | 2     |                           |
| ⑪   | Door stopper                            | 1     |                           |
| ⑫   | 5x16 pan head drilling screw            | 2     | For stop device           |
| ⑬   | Plate spring bracket                    | 1     |                           |
| ⑭   | Plate spring                            | 1     |                           |
| ⑮   | Stop force adjusting plate              | 1     | For door stopper          |
| ⑯   | M4X10 cross recessed hexagon head screw | 2     |                           |
| ⑰   | Height adjusting plate (t = 1.0)        | 4     |                           |
| ⑱   | Pull spring                             | 1     |                           |
| ⑲   | Pull spring bracket                     | 1     |                           |
| ⑳   | Plate nut                               | 1     | For pull spring           |
| ㉑   | M4×6 pan head screw                     | 4     |                           |
| ㉒   | M5×25 pan head screw                    | 1     |                           |
| ㉓   | Rail L = 2200 [L = 3100]                | 1     | For rail                  |
| ㉔   | M5×16 pan head screw                    | 8[11] |                           |
| ㉕   | Guide roller *                          | 1     |                           |
| ㉖   | φ5×25 Hexagon head tapping screw        | 2     | For guide roller (Option) |
|     | M5×12 Hexagon head screw                | 2     |                           |
| ㉗   | Fischer plug 6x30                       | 2     |                           |

\*4 types, φ5, φ25, φ30, φ35

## Features

- All parts required for horizontal installation on wooden door (e.g. guide rail, guide roller, stop device, etc.) are included in standard component.
- Lug screws are included for securely installing hangers to door.
- Long life time achieved by endless fluid frictional resistance type braking mechanism.
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.

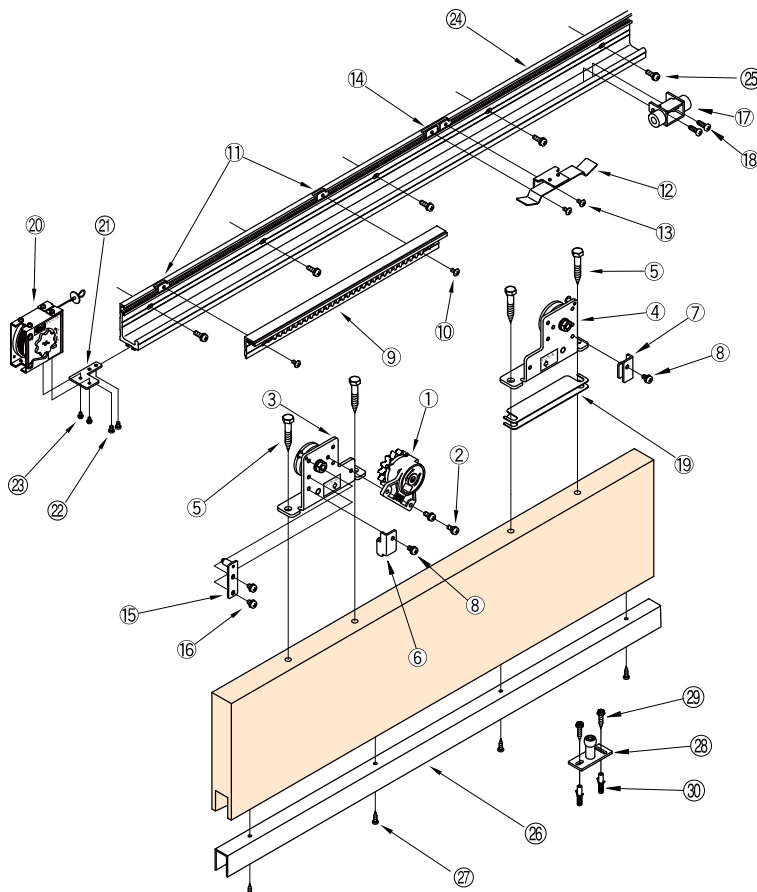
## Specifications

right and left handed opening

| Model                     |             | DSC-CW23-22                                           | DSC-CW23-31 |
|---------------------------|-------------|-------------------------------------------------------|-------------|
| Applicable doors          | Weight [kg] | 10-30                                                 |             |
|                           | Width [mm]  | 700-1,200                                             | 1,200-1,600 |
| Max. stroke [mm]          |             | 1,500                                                 |             |
| Closing drive system      |             | Spiral spring type                                    |             |
| Controlling system        |             | Fluid friction resistance type                        |             |
| Controlling time          |             | 7-11 seconds (with a door-opening distance of 900 mm) |             |
| Initial opening force [N] |             | 3.5 (Door weight 10 kg), 4.6 (Door weight 30 kg)      |             |
| Durability                |             | More than 1 million open/close operations             |             |
| Control device            |             | SC-C03                                                |             |
| Pull spring               |             | PS-02                                                 |             |
| Rail length [m]           |             | 2.2                                                   | 3.1         |
| Guide rail [m]            |             | 1.3                                                   | 1.6         |



## Part details



| No. | Part                             | Q'ty  | Remark             |
|-----|----------------------------------|-------|--------------------|
| ①   | Control device                   | 1     | For control device |
| ②   | M5×12 pan head screw             | 2     |                    |
| ③   | Hanger A                         | 1     | For hanger         |
| ④   | Hanger B                         | 1     |                    |
| ⑤   | φ8X50 hexagon coach screw        | 4     | Door retention     |
| ⑥   | Door retaining fitting Hanger A  | 1     |                    |
| ⑦   | Door retaining fitting Hanger B  | 1     |                    |
| ⑧   | M5×8 pan head screw              | 2     |                    |
| ⑨   | Control rack set                 | 1     | For control rack   |
| ⑩   | M4×8 truss head screw            | 2     |                    |
| ⑪   | Plate nut                        | 2     |                    |
| ⑫   | Plate spring                     | 1     |                    |
| ⑬   | M4X8 truss head screw            | 2     | For stop device    |
| ⑭   | Plate nut                        | 2     |                    |
| ⑮   | Stop roller                      | 1     |                    |
| ⑯   | M5×8 pan head screw              | 2     |                    |
| ⑰   | Door stopper                     | 1     | For door stopper   |
| ⑱   | φ5X16 pan head tapping screw     | 2     |                    |
| ⑲   | Height adjusting plate (t = 1.0) | 4     |                    |
| ⑳   | Pull spring                      | 1     |                    |
| ㉑   | Pull spring bracket              | 1     |                    |
| ㉒   | M4×5 pan head screw              | 2     | For pull spring    |
| ㉓   | M3×8 pan head screw              | 2     |                    |
| ㉔   | Rail L = 2200 [L = 3100]         | 1     | For rail           |
| ㉕   | M5×16 pan head screw             | 8[11] |                    |
| ㉖   | φ5×30 truss head tapping screw   | 8[11] | For guide rail     |
| ㉗   | Guide rail L = 1300 [L = 1600]   | 1     |                    |
| ㉘   | φ4×16 pan head tapping screw     | 5[6]  |                    |
| ㉙   | φ16 Guide roller                 | 1     |                    |
| ㉚   | φ5×25 Hexagon head tapping screw | 2     | For guide roller   |
| ㉛   | M5×12 Hexagon head screw         | 2     |                    |
| ㉜   | Fischer plug 6x30                | 2     |                    |

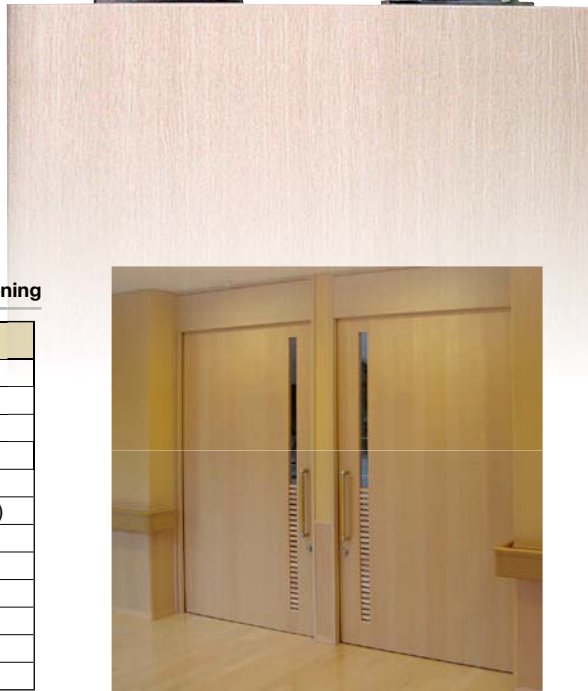
## Features

- All parts required for horizontal installation on wooden door (e.g. guide rail, guide roller, stop device, etc.) are included in standard component.
- Long life time achieved by endless fluid frictional resistance type braking mechanism.
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.
- Quick and easy installation without any special tool.

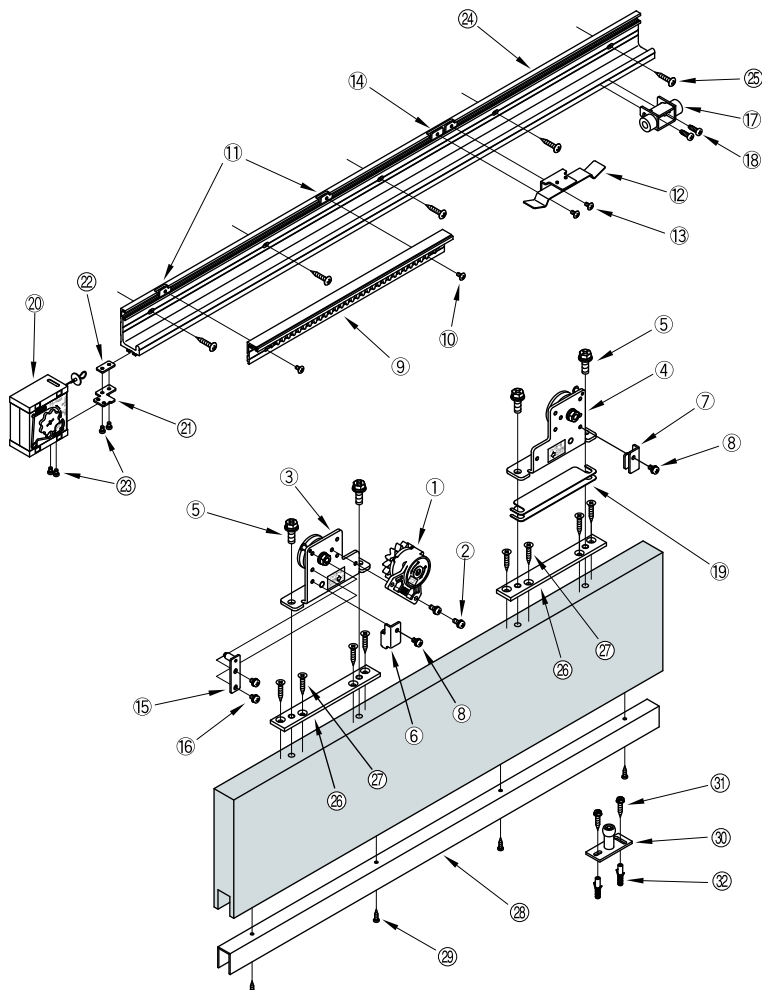
## Specifications

right and left handed opening

| Model                     |             | NSC-CW48-22                                           | NSC-CW48-31 |
|---------------------------|-------------|-------------------------------------------------------|-------------|
| Applicable doors          | Weight [kg] | 30-80                                                 |             |
|                           | Width [mm]  | 700-1,200                                             | 1,200-1,600 |
| Max. stroke [mm]          |             | 1,500                                                 |             |
| Closing drive system      |             | Spiral spring type                                    |             |
| Controlling system        |             | Fluid friction resistance type                        |             |
| Controlling time          |             | 7-11 seconds (with a door-opening distance of 900 mm) |             |
| Initial opening force [N] |             | 6.6 (Door weight 30 kg), 9.2 (Door weight 80 kg)      |             |
| Durability                |             | More than 1 million open/close operations             |             |
| Control device            |             | SC-C08                                                |             |
| Pull spring               |             | PS-04A                                                |             |
| Rail length [m]           |             | 2.2                                                   | 3.1         |
| Guide rail [m]            |             | 1.3                                                   | 1.6         |



## Part details



| No. | Part                                 | Q'ty  | Remark             |
|-----|--------------------------------------|-------|--------------------|
| ①   | Control device                       | 1     | For control device |
| ②   | M5×12 pan head screw                 | 2     |                    |
| ③   | Hanger A                             | 1     | For hanger         |
| ④   | Hanger B                             | 1     |                    |
| ⑤   | M8×25 hexagon head bolt              | 4     | Door retention     |
| ⑥   | Door retaining fitting Hanger A      | 1     |                    |
| ⑦   | Door retaining fitting Hanger B      | 1     |                    |
| ⑧   | M5×8 pan head screw                  | 2     |                    |
| ⑨   | Control rack set                     | 1     | For control rack   |
| ⑩   | M4×8 truss head screw                | 2     |                    |
| ⑪   | Plate nut                            | 2     |                    |
| ⑫   | Plate spring                         | 1     |                    |
| ⑬   | M4X8 truss head screw                | 2     | For stop device    |
| ⑭   | Plate nut                            | 2     |                    |
| ⑮   | Stop roller                          | 1     | For door stopper   |
| ⑯   | M5×8 pan head screw                  | 2     |                    |
| ⑰   | Door stopper                         | 1     |                    |
| ⑱   | φ5X16 pan head tapping screw         | 2     |                    |
| ⑲   | Height adjusting plate (t = 1.0)     | 4     | For pull spring    |
| ⑳   | Pull spring                          | 1     |                    |
| ㉑   | Pull spring bracket                  | 1     |                    |
| ㉒   | Plate nut                            | 1     |                    |
| ㉓   | M4×6 pan head screw                  | 4     | For rail           |
| ㉔   | Rail L = 2200 [L = 3100]             | 1     |                    |
| ㉕   | M5×16 pan head screw                 | 8[11] |                    |
| ㉖   | φ5×30 truss head tapping screw       | 8[11] |                    |
| ㉗   | Wooden door plate                    | 2     |                    |
| ㉘   | φ5×30 countersunk head tapping screw | 8     |                    |
| ㉙   | Guide rail L = 1300 [L = 1600]       | 1     | For guide rail     |
| ㉚   | φ4X16 pan head tapping screw         | 5[6]  |                    |
| ㉛   | φ16 Guide roller                     | 1     | For guide roller   |
| ㉜   | φ5×25 Hexagon head tapping screw     | 2     |                    |
| ㉝   | M5×12 Hexagon head screw             | 2     |                    |
| ㉞   | Fischer plug 6x30                    | 2     |                    |

## Features

- All parts required for horizontal installation on steel door (e.g. guide rail, guide roller, stop device, etc.) are included in standard component.
- Long life time achieved by endless fluid frictional resistance type braking mechanism.
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.
- Quick and easy installation without any special tool.



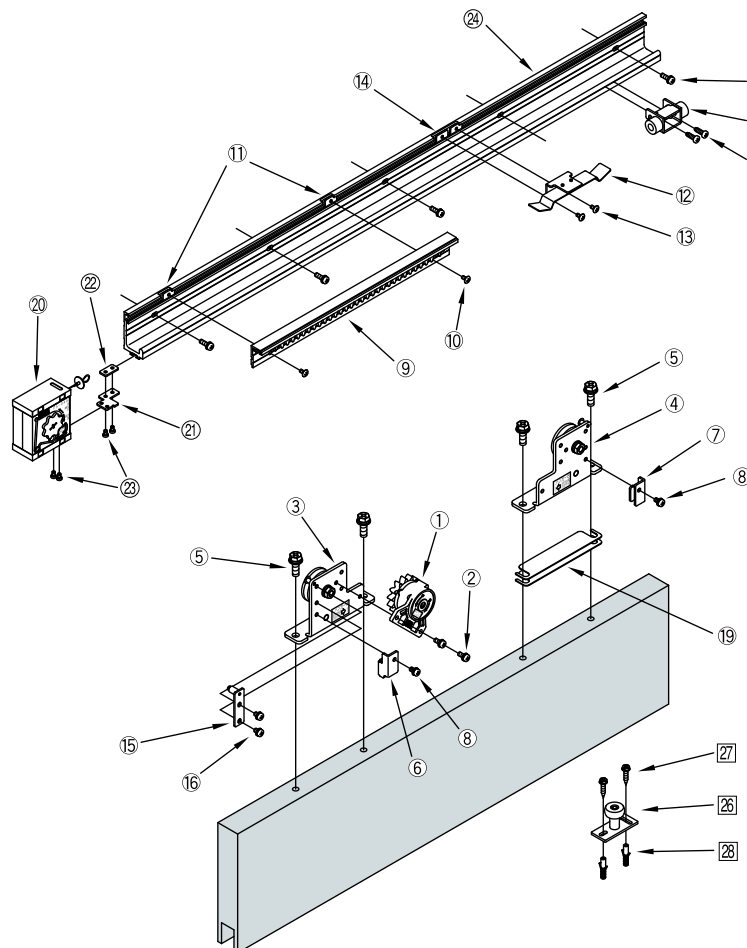
## Specifications

right and left handed opening

| Model                     |             | NSC-C48-22                                            | NSC-C48-31  |
|---------------------------|-------------|-------------------------------------------------------|-------------|
| Applicable doors          | Weight [kg] | 10-80                                                 |             |
|                           | Width [mm]  | 700-1,200                                             | 1,200-1,600 |
| Max. stroke [mm]          |             | 1,500                                                 |             |
| Closing drive system      |             | Spiral spring type                                    |             |
| Controlling system        |             | Fluid friction resistance type                        |             |
| Controlling time          |             | 7-11 seconds (with a door-opening distance of 900 mm) |             |
| Initial opening force [N] |             | 5.5 (Door weight 10 kg), 9.2 (Door weight 80 kg)      |             |
| Durability                |             | More than 1 million open/close operations             |             |
| Control device            |             | SC-C08                                                |             |
| Pull spring               |             | PS-04A                                                |             |
| Rail length [m]           |             | 2.2                                                   | 3.1         |



## Part details



| No. | Part                                   | Q'ty  | Remark                    |
|-----|----------------------------------------|-------|---------------------------|
| ①   | Control device                         | 1     | For control device        |
| ②   | M5×12 pan head screw                   | 2     |                           |
| ③   | Hanger A                               | 1     | For hanger                |
| ④   | Hanger B                               | 1     |                           |
| ⑤   | M8×25 cross recessed hexagon head bolt | 4     | Door retention            |
| ⑥   | Door retaining fitting Hanger A        | 1     |                           |
| ⑦   | Door retaining fitting Hanger B        | 1     |                           |
| ⑧   | M5×8 pan head screw                    | 2     |                           |
| ⑨   | Control rack set                       | 1     | For control rack          |
| ⑩   | M4×8 truss head screw                  | 2     |                           |
| ⑪   | Plate nut                              | 2     |                           |
| ⑫   | Plate spring                           | 1     |                           |
| ⑬   | M4×8 truss head screw                  | 2     | For stop device           |
| ⑭   | Plate nut                              | 2     |                           |
| ⑮   | Stop roller                            | 1     | For door stopper          |
| ⑯   | M5×8 pan head screw                    | 2     |                           |
| ⑰   | Door stopper                           | 1     |                           |
| ⑱   | φ5X16 pan head tapping screw           | 2     |                           |
| ⑲   | Height adjusting plate (t = 1.0)       | 4     |                           |
| ⑳   | Pull spring                            | 1     |                           |
| ㉑   | Pull spring bracket                    | 1     | For pull spring           |
| ㉒   | Plate nut                              | 1     |                           |
| ㉓   | M4×6 pan head screw                    | 4     |                           |
| ㉔   | Rail L = 2200 [L = 3100]               | 1     |                           |
| ㉕   | M5×16 pan head screw                   | 8[11] | For rail                  |
| ㉖   | φ5×30 truss head tapping screw         | 8[11] |                           |
| ㉗   | φ16 Guide roller *                     | 1     | For guide roller (Option) |
| ㉘   | φ5×25 Hexagon head tapping screw       | 2     |                           |
| ㉙   | M5×12 Hexagon head screw               | 2     |                           |
| ㉚   | Fischer plug 6x30                      | 2     |                           |

\*4 types, φ16, φ25, φ30, φ35

## Features

- By adopting stainless steel material and secure seal structure, the product can be used for a long time in a high humidity environment such as a bathroom.
- Long life time achieved by endless fluid frictional resistance type braking mechanism.
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.

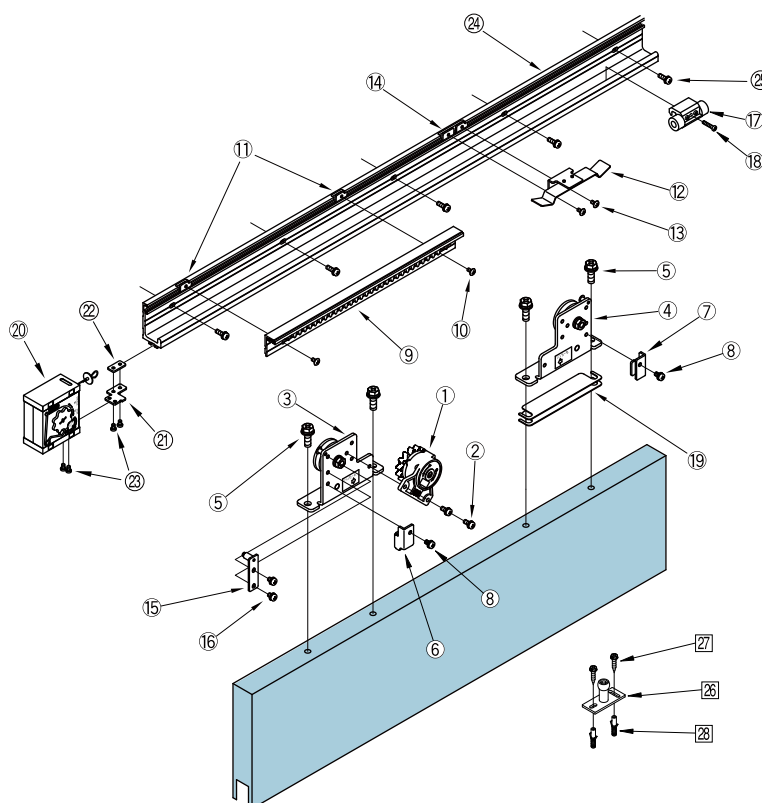
## Specifications

right and left handed opening

| Model                     |             | NSC-CB48-22                                           | NSC-CB48-31 |
|---------------------------|-------------|-------------------------------------------------------|-------------|
| Applicable doors          | Weight [kg] | 10-80                                                 |             |
|                           | Width [mm]  | 700-1,200                                             | 1,200-1,600 |
| Max. stroke [mm]          |             | 1,500                                                 |             |
| Closing drive system      |             | Spiral spring type                                    |             |
| Controlling system        |             | Fluid friction resistance type                        |             |
| Controlling time          |             | 7-11 seconds (with a door-opening distance of 900 mm) |             |
| Initial opening force [N] |             | 5.5 (Door weight 10 kg), 9.2 (Door weight 80 kg)      |             |
| Durability                |             | More than 1 million open/close operations             |             |
| Control device            |             | SC-CB08                                               |             |
| Pull spring               |             | PS-B04A                                               |             |
| Rail length [m]           |             | 2.2                                                   | 3.1         |



## Part details



| No. | Part                                   | Q'ty  | Remark                    |
|-----|----------------------------------------|-------|---------------------------|
| ①   | Control device                         | 1     | For control device        |
| ②   | M5×12 pan head screw                   | 2     |                           |
| ③   | Hanger A                               | 1     | For hanger                |
| ④   | Hanger B                               | 1     |                           |
| ⑤   | M8×25 cross recessed hexagon head bolt | 4     | Door retention            |
| ⑥   | Door retaining fitting Hanger A        | 1     |                           |
| ⑦   | Door retaining fitting Hanger B        | 1     | For control rack          |
| ⑧   | M5×8 pan head screw                    | 2     |                           |
| ⑨   | Control rack set                       | 1     | For stop device           |
| ⑩   | M4×8 truss head screw                  | 2     |                           |
| ⑪   | Plate nut                              | 2     | For door stopper          |
| ⑫   | Plate spring                           | 1     |                           |
| ⑬   | M4×8 truss head screw                  | 2     | For pull spring           |
| ⑭   | Plate nut                              | 2     |                           |
| ⑮   | Stop roller                            | 1     | For rail                  |
| ⑯   | M5×8 pan head screw                    | 2     |                           |
| ⑰   | Door stopper                           | 1     | For guide roller (Option) |
| ⑱   | φ5X16 pan head tapping screw           | 2     |                           |
| ⑲   | Height adjusting plate (t = 1.0)       | 4     | For guide roller (Option) |
| ⑳   | Pull spring                            | 1     |                           |
| ㉑   | Pull spring bracket                    | 1     | For guide roller (Option) |
| ㉒   | Plate nut                              | 1     |                           |
| ㉓   | M4×6 pan head screw                    | 4     | For guide roller (Option) |
| ㉔   | Rail L = 2200 [L = 3100]               | 1     |                           |
| ㉕   | M5×16 pan head screw                   | 8[11] | For guide roller (Option) |
| ㉖   | φ5×30 truss head tapping screw         | 8[11] |                           |
| ㉗   | φ16 Guide roller *                     | 1     | For guide roller (Option) |
| ㉘   | φ5×25 Hexagon head tapping screw       | 2     |                           |
| ㉙   | M5×12 Hexagon head screw               | 2     | For guide roller (Option) |
| ㉚   | Fischer plug 6×30                      | 2     |                           |

\*4 types, φ16, φ25, φ30, φ35

## •High Corrosion proof evaluation

|                      | Appearance of control device and hanger | Appearance of pull spring |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|-----------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NSC-CB type          |                                         |                           | <p>Employing stainless steel material and secure seal structure, NSC-CB series is dramatically anti-corrosive and suitable for use in bathrooms/shower rooms without rust issues.</p> <p><b>Test method : CASS test (JIS H 8502)</b></p> <p>This test evaluates corrosion of specimens by adding small quantities of acetic acid and copper (II) chloride (cupric chloride) to a solution of sodium chloride used in a salt spray test, thus increasing the specimens resistance to corrosion. This method is used mainly to evaluate the corrosion of automotive parts and other plated products. A corrosion test in acid environments is greater than salt spray tests. 48 hour × 3 times(144 hours in total)</p> |
| Our standard product |                                         |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Features

- All parts required for horizontal installation on heavy steel door (e.g. guide rail, guide roller, stop device, etc.) are included in standard component.
- Long life time achieved by endless fluid frictional resistance type braking mechanism.
- Adopting longer control rack, the damper (braking) range has become 1.5 times wider than conventional model.
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.
- Quick and easy installation without any special tool.

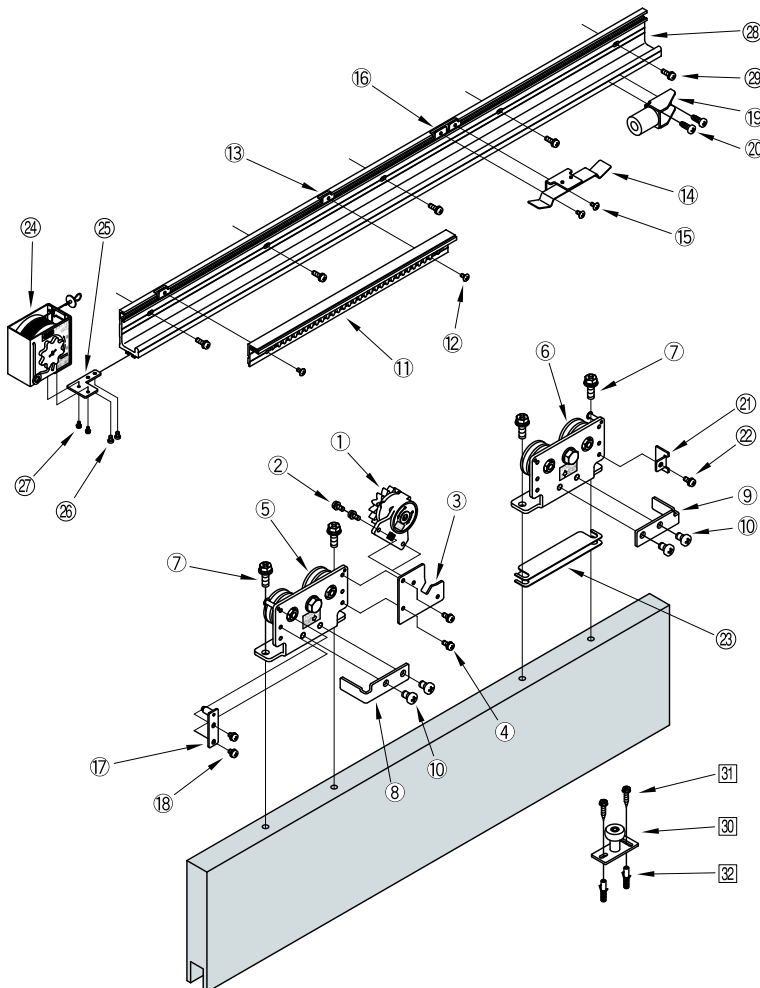


## Specifications

right and left handed opening

| Model                     |             | NSC-C1215-22                                          | NSC-C1215-31 |
|---------------------------|-------------|-------------------------------------------------------|--------------|
| Applicable doors          | Weight [kg] | 80-150                                                |              |
|                           | Width [mm]  | 700-1,200                                             | 1,200-1,600  |
| Max. stroke [mm]          |             | 1,500                                                 |              |
| Closing drive system      |             | Spiral spring type                                    |              |
| Controlling system        |             | Fluid friction resistance type                        |              |
| Controlling time          |             | 7-11 seconds (with a door-opening distance of 900 mm) |              |
| Initial opening force [N] |             | 15.5 (Door weight 80 kg), 19.2 (Door weight 150 kg)   |              |
| Durability                |             | More than 1 million open/close operations             |              |
| Control device            |             | SC-C15                                                |              |
| Pull spring               |             | PS-12                                                 |              |
| Rail length [m]           |             | 2.2                                                   | 3.1          |

## Part details



| No. | Part                                   | Q'ty  | Remark                    |
|-----|----------------------------------------|-------|---------------------------|
| ①   | Control device                         | 1     | For control device        |
| ②   | M5×12 pan head screw                   | 2     |                           |
| ③   | Control device bracket                 | 1     |                           |
| ④   | M5×12 pan head screw                   | 2     |                           |
| ⑤   | Hanger A                               | 1     | For hanger                |
| ⑥   | Hanger B                               | 1     |                           |
| ⑦   | M8×25 cross recessed hexagon head bolt | 4     |                           |
| ⑧   | Door retaining fitting Hanger A        | 1     | Door retention            |
| ⑨   | Door retaining fitting Hanger B        | 1     |                           |
| ⑩   | M8×12 pan head screw                   | 4     | For control rack          |
| ⑪   | Control rack set                       | 1     |                           |
| ⑫   | M4×8 truss head screw                  | 2     |                           |
| ⑬   | Plate nut                              | 2     |                           |
| ⑭   | Plate spring                           | 1     | For door stopper          |
| ⑮   | M4×8 truss head screw                  | 2     |                           |
| ⑯   | Plate nut                              | 2     |                           |
| ⑰   | Stop roller                            | 1     |                           |
| ⑱   | M5×8 pan head screw                    | 2     | For stop device           |
| ⑲   | Door stopper                           | 1     |                           |
| ⑳   | φ6×19 Pan head drilling screw          | 2     |                           |
| ㉑   | Door stopper bearing plate             | 1     |                           |
| ㉒   | M5×8 pan head screw                    | 1     | For pull spring           |
| ㉓   | Height adjusting plate (t = 1.0)       | 4     |                           |
| ㉔   | Pull spring                            | 1     |                           |
| ㉕   | Pull spring bracket                    | 1     |                           |
| ㉖   | M4×5 pan head screw                    | 2     | For rail                  |
| ㉗   | M3×8 pan head screw                    | 2     |                           |
| ㉘   | Rail L = 2200 [L = 3100]               | 1     |                           |
| ㉙   | M5×16 pan head screw                   | 8[11] |                           |
| ㉚   | φ5×30 truss head tapping screw         | 8[11] | For guide roller (Option) |
| ㉛   | φ16 Guide roller *                     | 1     |                           |
| ㉜   | φ5×25 Hexagon head tapping screw       | 2     |                           |
| ㉝   | M5×12 Hexagon head screw               | 2     |                           |
| ㉞   | Fischer plug 6×30                      | 2     |                           |

\*4 types, φ16, φ25, φ30, φ35

## Features

- All-range brake (damper) system ensures safe and reliable door closing control, preventing slamming against the door frame, finger pinching etc. (PAT.P)
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.
- 155 mm(H) x 75 mm(D) required space in frame - Compact and slim design offers space-saving ideas and cost efficiency.

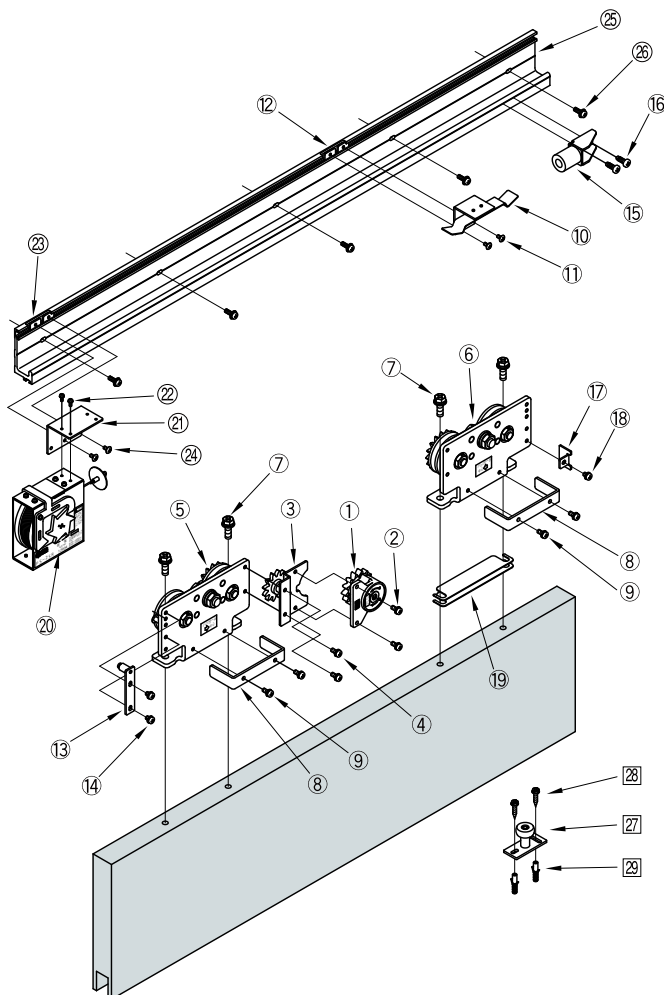


## Specifications

right and left handed opening

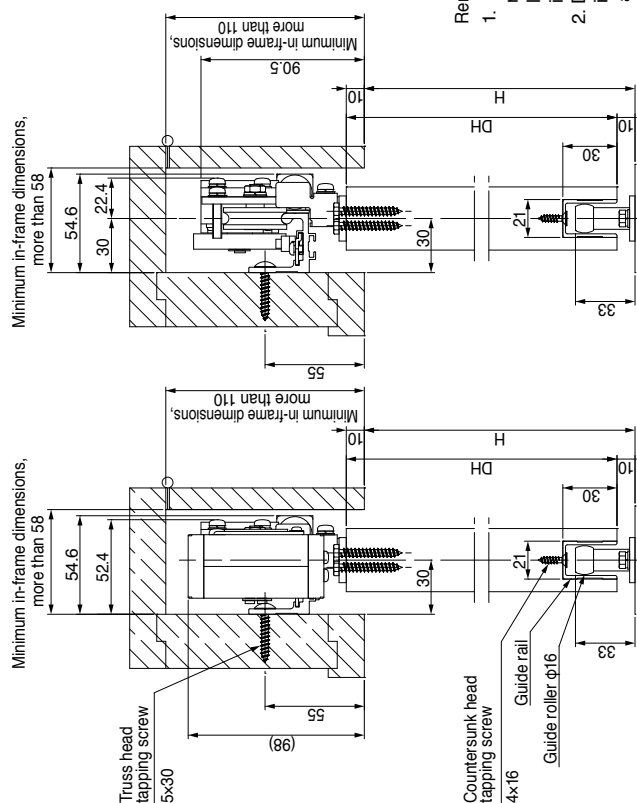
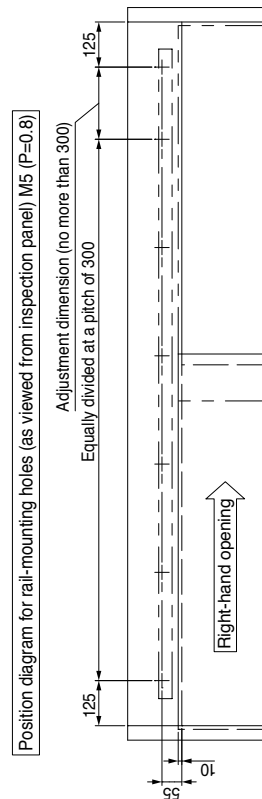
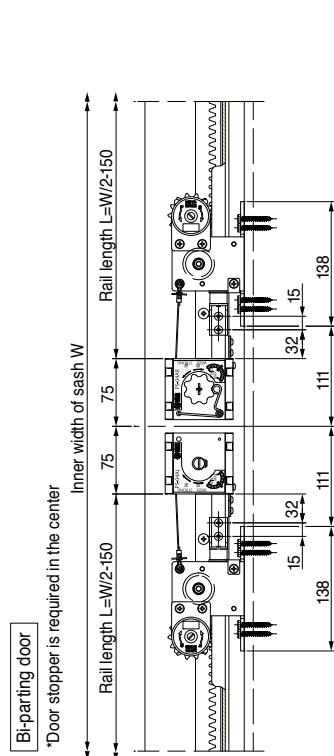
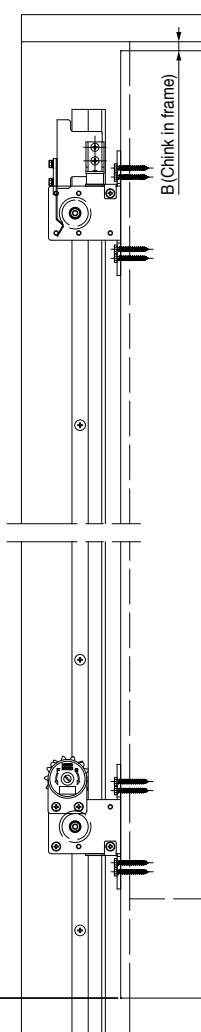
| Model                     |             | NSC-C2525-31                                          | NSC-C2525-49 |
|---------------------------|-------------|-------------------------------------------------------|--------------|
| Applicable doors          | Weight [kg] | 150-250                                               |              |
|                           | Width [mm]  | 900-1,600                                             | 1,600-2,500  |
| Max. stroke [mm]          |             | 2,400                                                 |              |
| Closing drive system      |             | Spiral spring type                                    |              |
| Controlling system        |             | Fluid friction resistance type                        |              |
| Controlling time          |             | 7-11 seconds (with a door-opening distance of 900 mm) |              |
| Initial opening force [N] |             | 31.4 (Door weight 150 kg), 36.5 (Door weight 250 kg)  |              |
| Durability                |             | More than 200 thousand open/close operations          |              |
| Control device            |             | SC-C25                                                |              |
| Pull spring               |             | PS-25                                                 |              |
| Rail length [m]           |             | 3.1                                                   | 4.9          |

## Part details



| No. | Part                             | Q'ty   | Remark                    |
|-----|----------------------------------|--------|---------------------------|
| ①   | Control device                   | 1      | For control device        |
| ②   | M5×12 pan head screw             | 2      |                           |
| ③   | Control device bracket           | 1      | For hanger                |
| ④   | M5×12 pan head screw             | 2      |                           |
| ⑤   | Hanger A                         | 1      | Door retention            |
| ⑥   | Hanger B                         | 1      |                           |
| ⑦   | M8×25 hexagon head bolt          | 4      | For stop device           |
| ⑧   | Door retaining fitting Hanger    | 2      |                           |
| ⑨   | M5×12 pan head screw             | 4      | For door stopper          |
| ⑩   | Plate spring                     | 1      |                           |
| ⑪   | M4×8 truss head screw            | 2      | For pull spring           |
| ⑫   | Plate nut                        | 2      |                           |
| ⑬   | Stop roller                      | 1      | For rail                  |
| ⑭   | M5×8 pan head screw              | 2      |                           |
| ⑮   | Door stopper                     | 1      | For guide roller (Option) |
| ⑯   | φ6×19 pan head drilling screw    | 2      |                           |
| ⑰   | Door stopper bearing plate       | 1      | For guide roller (Option) |
| ⑱   | M5×8 pan head screw              | 1      |                           |
| ⑲   | Height adjusting plate (t = 1.0) | 4      | For guide roller (Option) |
| ⑳   | Pull spring                      | 1      |                           |
| ㉑   | Pull spring bracket              | 1      | For guide roller (Option) |
| ㉒   | M3×8 pan head screw              | 2      |                           |
| ㉓   | Plate nut                        | 2      | For guide roller (Option) |
| ㉔   | M4×8 pan head screw              | 2      |                           |
| ㉕   | Rail L = 3100 [L = 4900]         | 1      | For guide roller (Option) |
| ㉖   | M5×16 pan head screw             | 11[17] |                           |
| ㉗   | Guide roller *                   | 1      | For guide roller (Option) |
| ㉘   | φ5×25 Hexagon head tapping screw | 2      |                           |
| ㉙   | M5×12 Hexagon head screw         | 2      | For guide roller (Option) |
| ㉚   | Fischer plug 6X30                | 2      |                           |

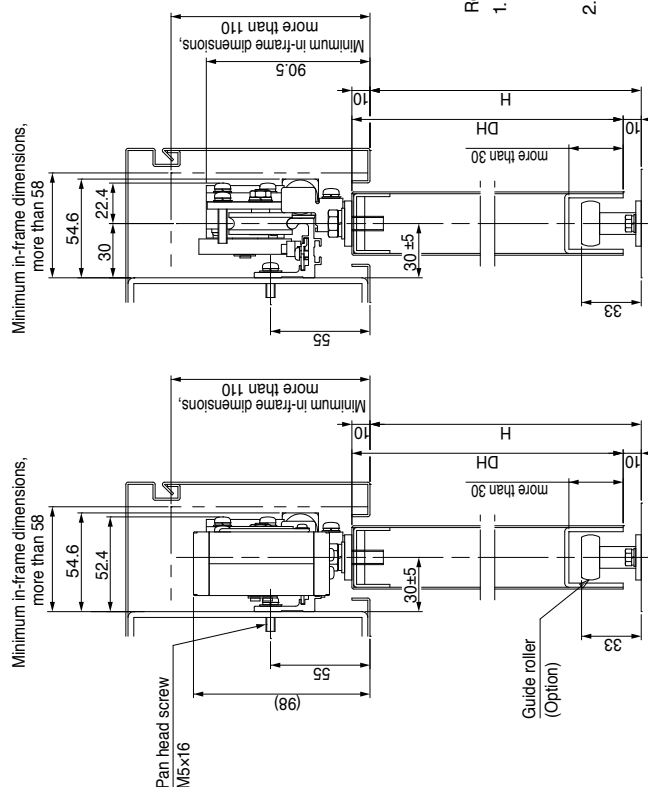
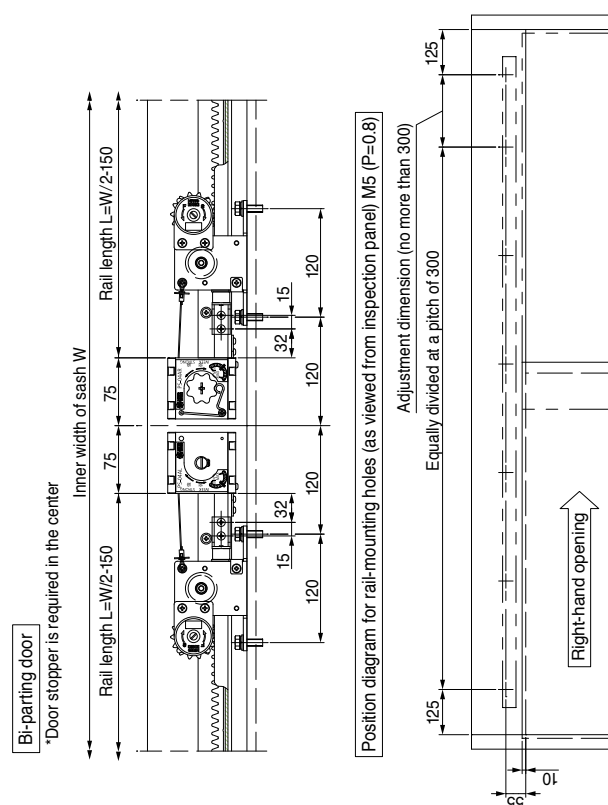
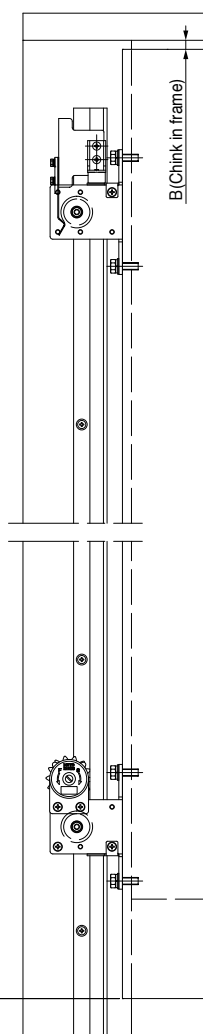
\*4 types, φ16, φ25, φ30, φ35

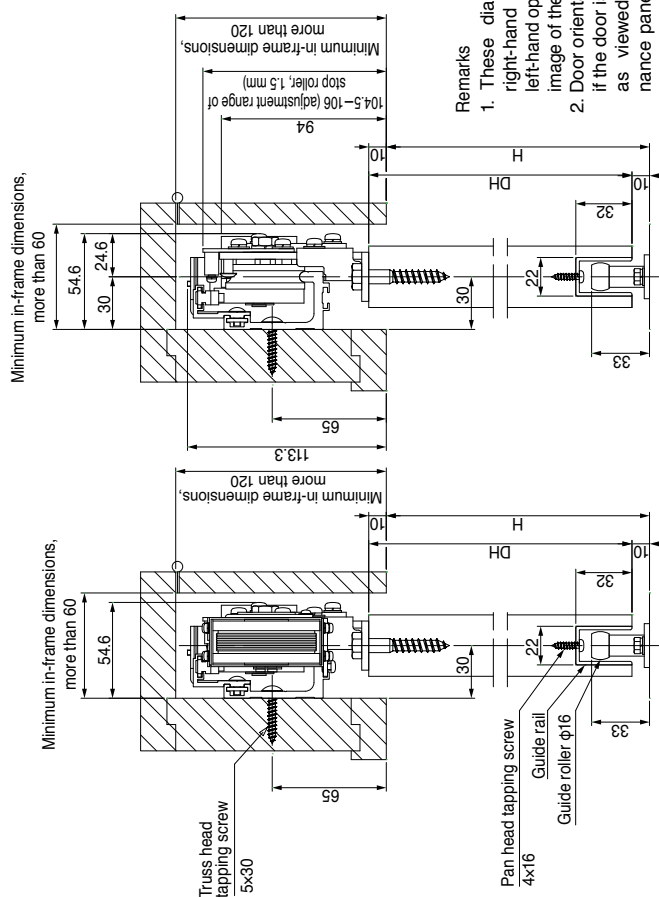
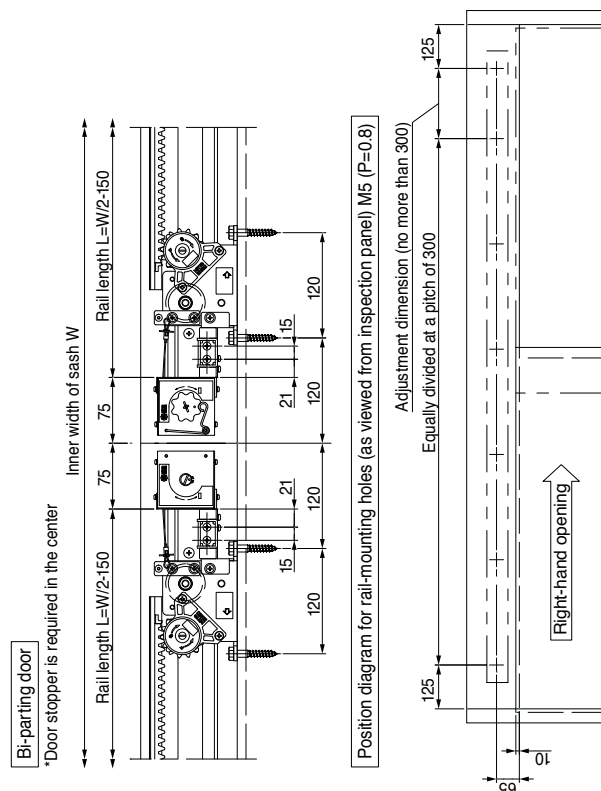
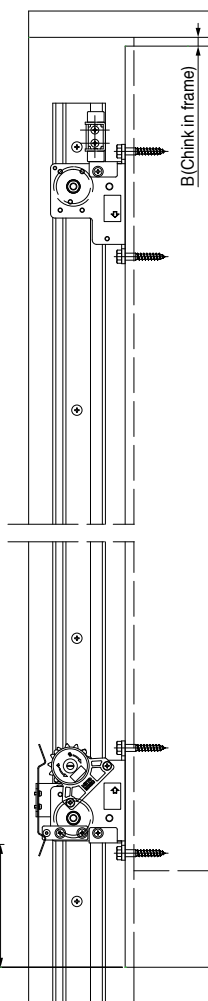


Remarks

1. These diagrams represent a right-hand opening type. The left-hand opening type is a mirror image of these diagrams.
2. Door orientation is right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.

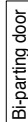
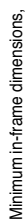
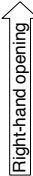
1. These diagrams represent a right-hand opening type. The left-hand opening type is a mirror image of these diagrams.
2. Door orientation is right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.





Remarks

1. These diagrams represent a right-hand opening type. The left-hand opening type is a mirror image of these diagrams.
2. Door orientation is right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.



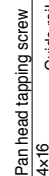
\*Door stopper is required in the center

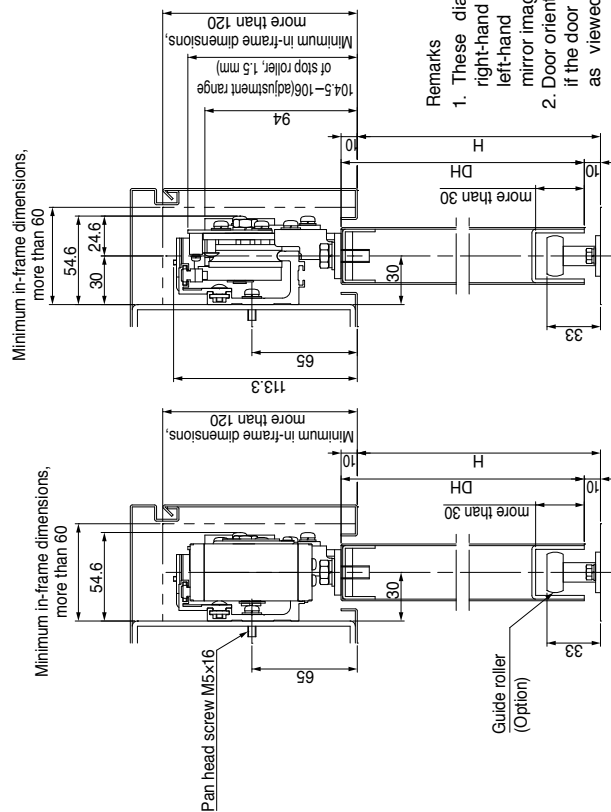
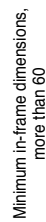


Position diagram for rail-mounting holes (as viewed from inspection panel) M5 ( $P=0.8$ )

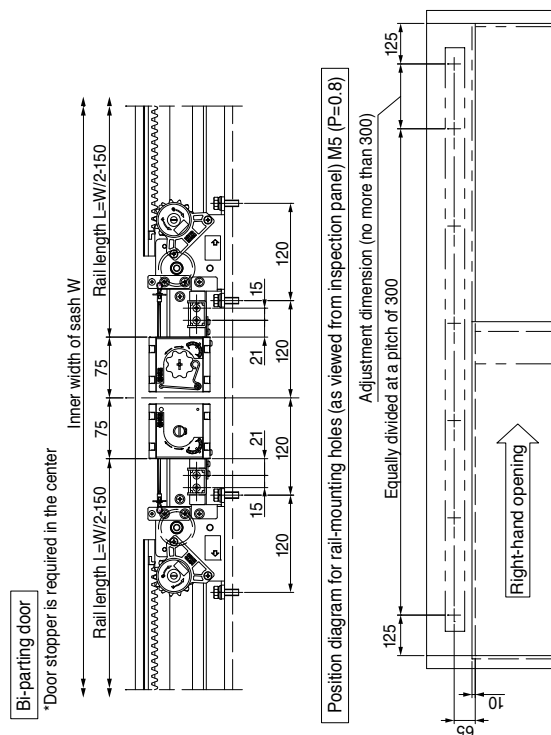


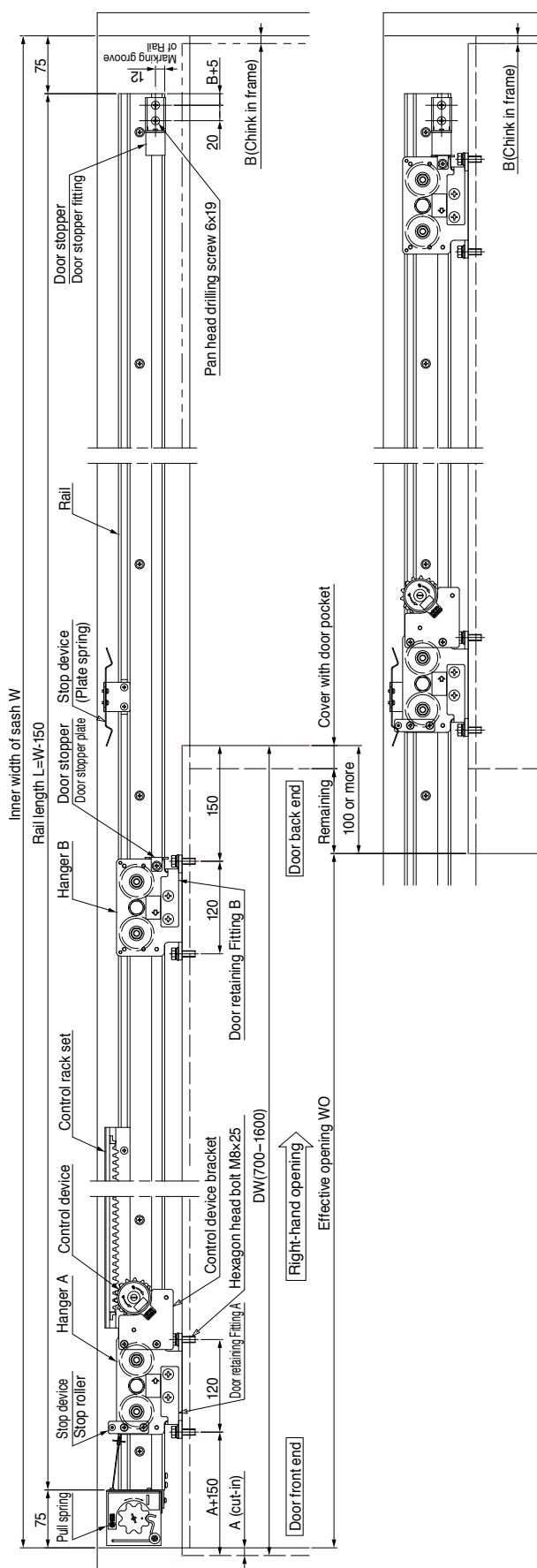
1. These diagrams represent a right-hand opening type. The left-handed opening type is a mirror image of these diagrams.
2. Door orientation is right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.





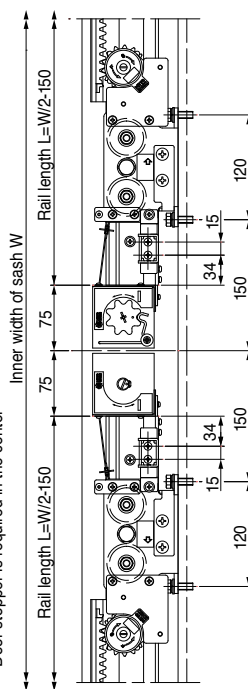
| Remarks                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. These diagrams represent a right-hand opening type. The left-hand opening type is a mirror image of these diagrams.</p> <p>2. Door orientation is right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.</p> |



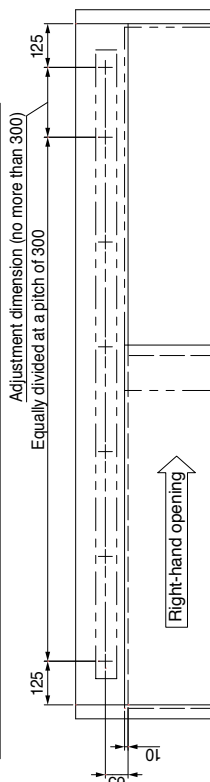


Bi-parting door

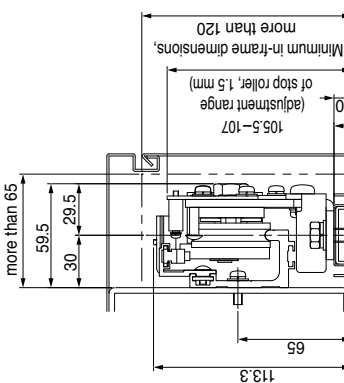
\*Door stopper is required in the center



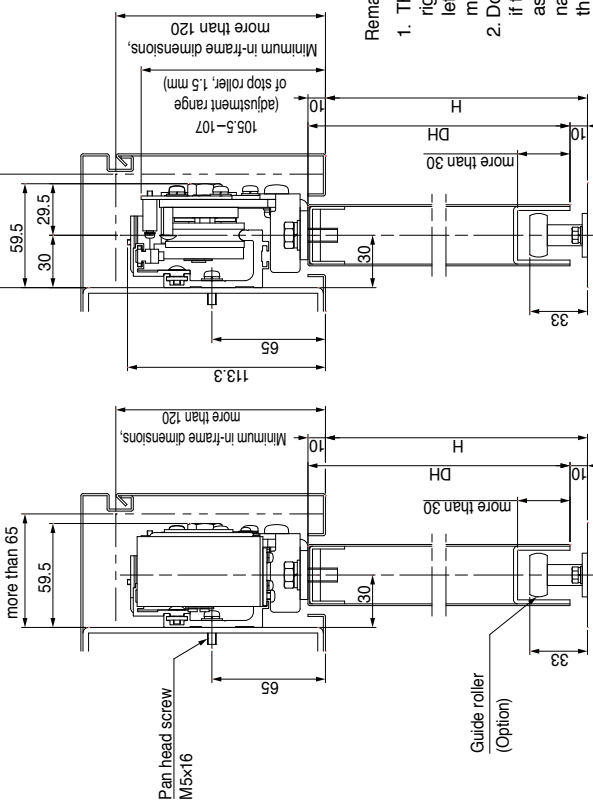
Position diagram for rail-mounting holes (as viewed from inspection panel) M5 (P=0.8)



Minimum in-frame dimensions,  
more than 65

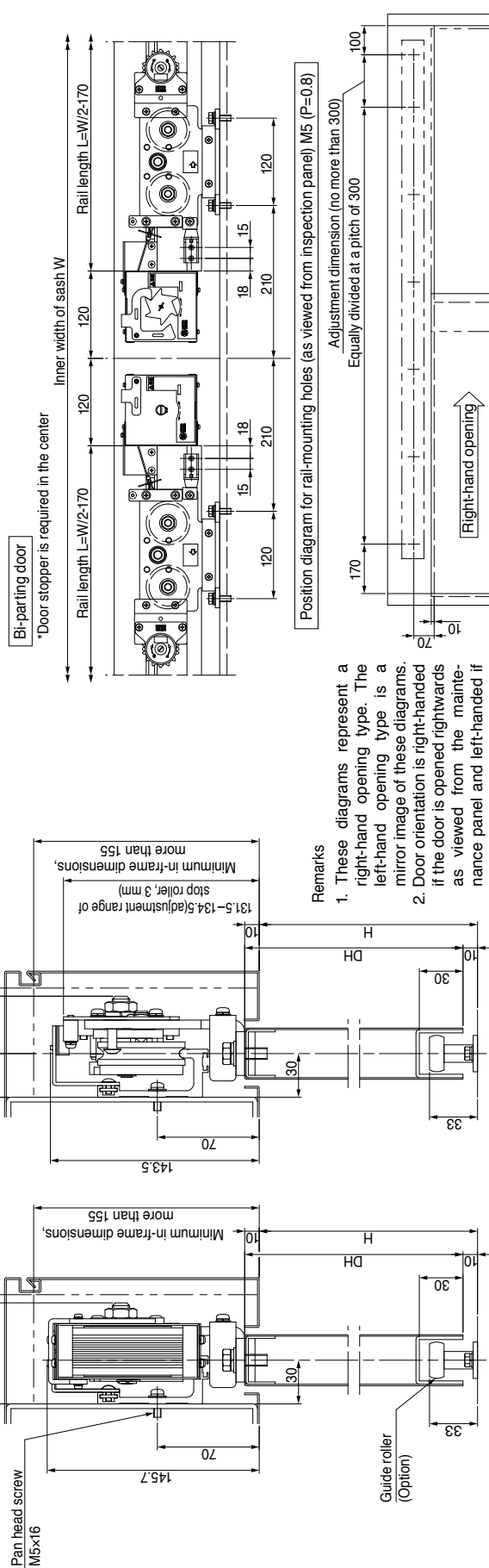
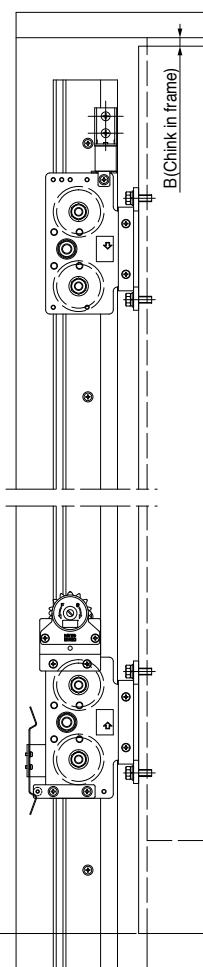


Minimum in-frame dimensions,  
more than 65



Remarks

- These diagrams represent a right-hand opening type. The left-hand opening type is a mirror image of these diagrams.
- Door orientation is right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.



Remarks

1. These diagrams represent a right-hand opening type. The left-hand opening type is a mirror image of these diagrams.
2. Door orientation is right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.

## Features

- Combining with standard sliding door closers, this option enables two sliding doors telescopic-open and closes both doors automatically.
- Allows to secure wide door opening even where door pocket space is limited.
- The product can be used for both left and right hand sliding doors.

## Specification

| Base model  |           | Item No,                      | Applicable door weight       | Max. width of effective opening |
|-------------|-----------|-------------------------------|------------------------------|---------------------------------|
| Series name | Model     |                               |                              |                                 |
| C series    | DSC-CW03  | SC-2S-G16-W                   | 30 kg or less                | 800-1500 mm                     |
|             | DSC-CW08  | SC-2S-G16-WP                  | 80 kg or less                |                                 |
|             | NSC-CW23  | SC-2S-G16-W                   | 30 kg or less                |                                 |
|             | NSC-CW48  | SC-2S-G16-WP                  | 80 kg or less                |                                 |
|             | DSC-C03   | SC-2S-G * * -ST <sup>*1</sup> | 30 kg or less                |                                 |
|             | DSC-C08   |                               | 80 kg or less                |                                 |
| NSC-C48     |           |                               |                              |                                 |
| CV series   | DSC-CW30V | SC-2S-CWV-G16                 | 30 kg or less                | 800-1500 mm                     |
|             | DSC-CW60V |                               | 60 kg or less                |                                 |
|             | NSC-CW60V |                               | SC-2S-CV-G * * <sup>*1</sup> |                                 |
|             | DSC-C30V  | 60 kg or less                 |                              |                                 |
|             | DSC-C60V  |                               |                              |                                 |
|             | NSC-C60V  |                               |                              |                                 |

- \*1. SC-2S-G\*\* models : "\*\*" represents the diameter of guide roller.  
(Example SC-2S-G25-ST is for Ø25 guide roller.) Selection from Ø16/Ø25/Ø30/Ø35.  
\*2. Not applicable to pocket door.  
\*3. Following items are required for the single action double sliding (telescopic) system.



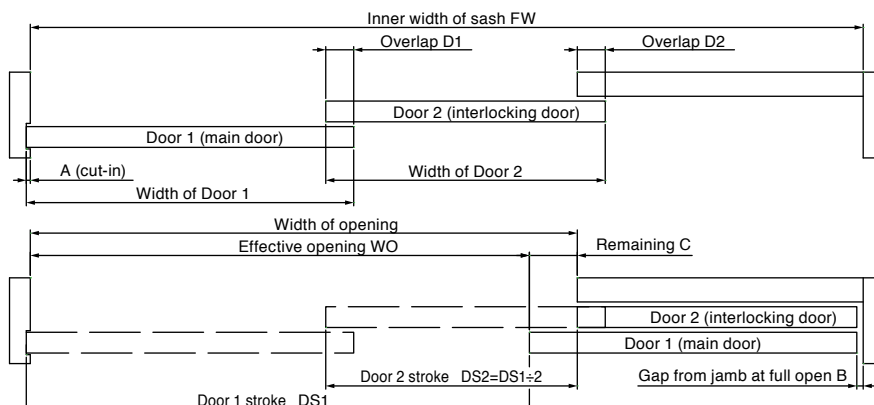
| System components                           | Q'ty  | Remark                                                                                                 |
|---------------------------------------------|-------|--------------------------------------------------------------------------------------------------------|
| ① Standard set (Base model)                 | 1 set |                                                                                                        |
| ② Single action double sliding kit          | 1 set | Telescopic bracket, hangers for Door 2, door stop for Door 2, mounting plate for wooden door (WP only) |
| ③ Rail for Door 2 (interlocking door)       | 1 set |                                                                                                        |
| ④ Guide rail for Door 2 (interlocking door) | 1 set | For CW type base models                                                                                |

### Order example

- ① NSC-CW48-31 .....1 SET  
② SC-2S-G16-WP .....1 SET  
③ Rail L=2200 .....1 SET  
④ Guide rail L=1300 .....1 SET

## Calculation formula for main dimensions

| Item                                                                         | Code | Formula                                   |                                       |
|------------------------------------------------------------------------------|------|-------------------------------------------|---------------------------------------|
|                                                                              |      | Effective opening (reference)             | Inner width of sash (reference)       |
| Effective opening(800-1500)                                                  | WO   | Please specify                            | $\frac{FW - (A/2) - B + C + D1}{1.5}$ |
| Inner width of sash(3215 or less)                                            | FW   | $(1.5 \times WO) + A/2 + B + C + D1$      | Please specify                        |
| Cut-in (door front end)                                                      | A    | Please specify                            | Please specify                        |
| Gap from jamb at full open position (10 mm or more)                          | B    | Please specify                            | Please specify                        |
| Remaining (100 mm or more)                                                   | C    | Please specify                            | Please specify                        |
| Overlap of Door 1 (main door) and Door 2 (interlocking door) (55 mm or more) | D1   | Please specify                            | Please specify                        |
| Overlap of Door 2 (interlocking door) and pocket (55 mm or more)             | D2   | $D2 = D1$                                 | $D2 = D1$                             |
| Width of door 1 (main door), (580 mm or more)                                | DW1  | $\frac{WO + A}{2} + C + D1$ (580 or more) | $\frac{WO + A}{2} + C + D1$           |
| Width of door 2 (interlocking door), (480 mm or more)                        | DW2  | $DW1 - C$                                 | $DW1 - C$ (480 or more)               |
| Width of opening                                                             | W    | $WO + C$                                  | $WO + C$                              |
| Rail length for Door 1 (main door)                                           | L1   | $FW - 115$                                | $FW - 115$                            |
| Rail length for Door 2 (interlocking door)                                   | L2   | $FW - DW1 + D1 + A - 65$                  | $FW - DW1 + D1 + A - 65$              |

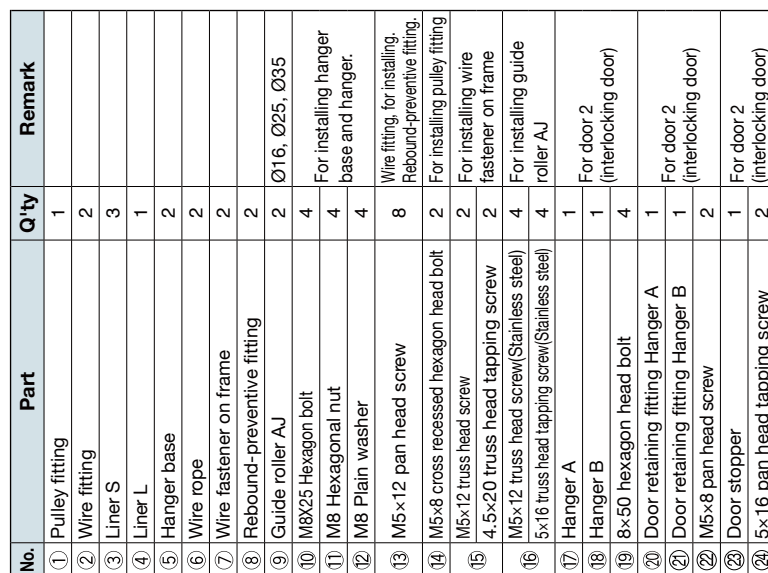


With this single action double sliding kit, the stroke of Door 2 (DS2) always becomes 1/2 of the stroke of Door 1 (DS1). Make sure that your door design complies  $DS2 = DS1 \times 1/2$ .

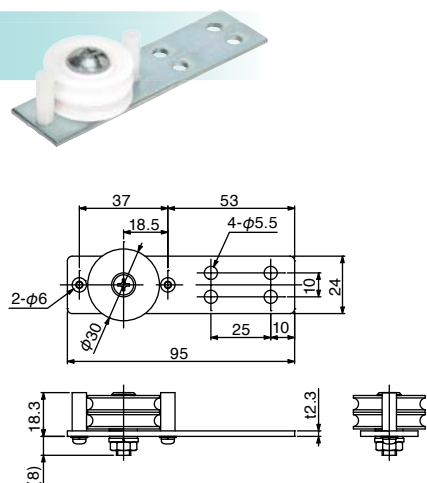


11. These diagrams represent a right-handed opening type. The left-handed opening type is a mirror image of these diagrams.

12. Door orientation is right-handed if the door is opened rightwards as viewed from the inspection panel, and left-handed if the door is opened leftwards.

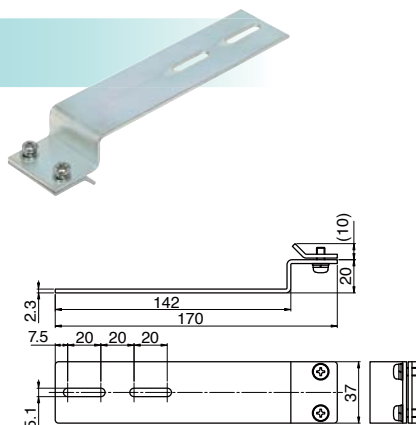


**Pulley fitting** (Common to SC-2S/SC-2S-CV)



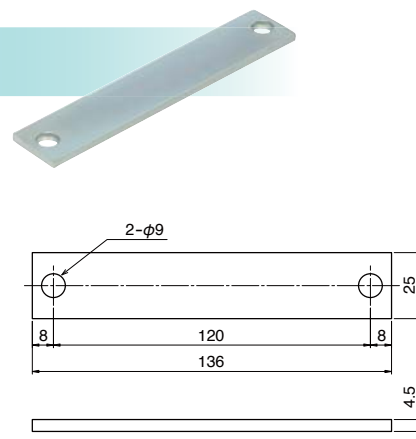
Fitting: Steel  
Pulley: Polyacetal

**Wire fitting** (Common to SC-2S/SC-2S-CV)



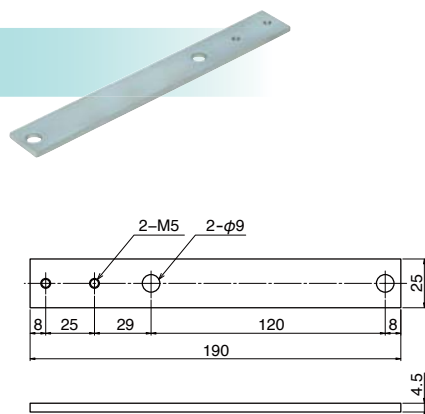
Fitting: Steel

**Liner S** (Common to SC-2S/SC-2S-CV)



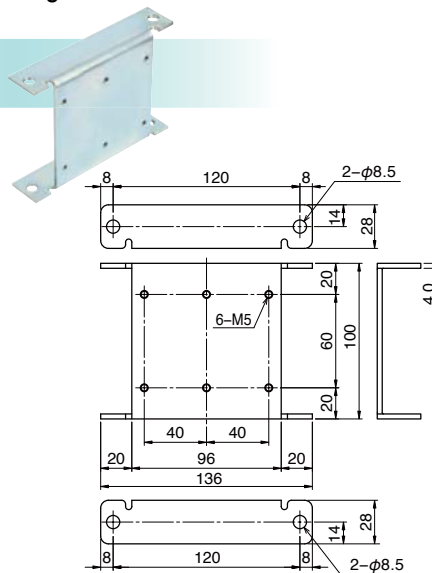
Liner: Steel

**Liner L** (Common to SC-2S/SC-2S-CV)



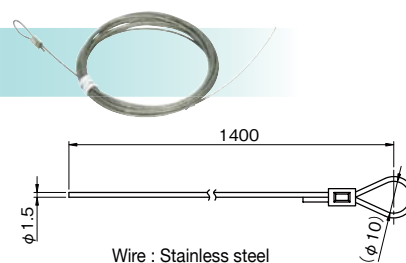
Liner: Steel

**Hanger base** (Common to SC-2S/SC-2S-CV)



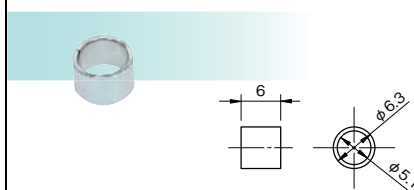
Base: Steel

**Wire rope** (Common to SC-2S/SC-2S-CV)



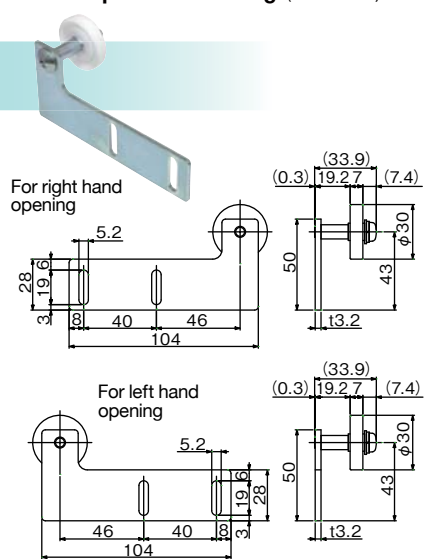
Wire : Stainless steel

**Wire fastener on frame**  
(Common to SC-2S/SC-2S-CV)



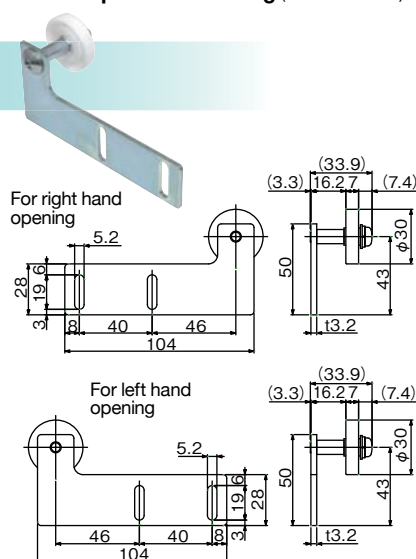
Fitting: Steel

**Rebound-preventive fitting** (for SC-2S)



Fitting: Steel Pulley: Polyacetal

**Rebound-preventive fitting** (for SC-2S-CV)



Fitting: Steel Pulley: Polyacetal

**Guide roller AJ** (Common to SC-2S/SC-2S-CV)

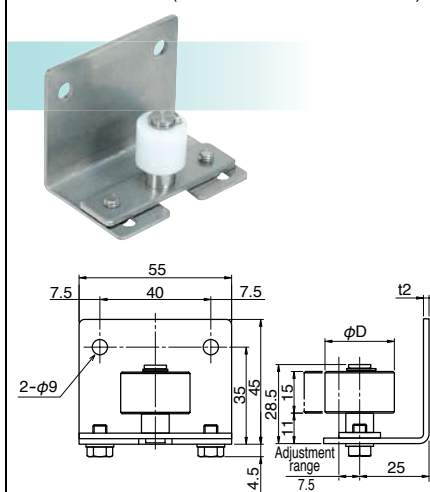


Plate: Stainless steel  
Roller: Polyacetal

## Option Bi-parting System

Door weight (per one door) : max. 80 kg/max. 150 kg/max. 60 kg

## SC-W type/SC-W-CV type

### Features

•Combining with standard sliding door closers, this option enables two bi-parting sliding doors open simultaneously and closes both doors automatically.

•Opening one side of the doors will also open the other door, allowing to secure wide door opening even where space is limited.

### Specification

| Base model  |           | Item No, | Applicable door weight | Max. width of effective opening |
|-------------|-----------|----------|------------------------|---------------------------------|
| Series name | Model     |          |                        |                                 |
| C series    | DSC-CW03  | SC-W     | 30 kg or less          | Up to 3000 mm                   |
|             | DSC-CW08  |          | 80 kg or less          |                                 |
|             | NSC-CW23  |          | 30 kg or less          |                                 |
|             | NSC-CW48  |          | 80 kg or less          |                                 |
|             | DSC-C03   |          | 30 kg or less          |                                 |
|             | DSC-C08   |          | 80 kg or less          |                                 |
|             | NSC-C48   |          | 150 kg or less         |                                 |
|             | DSC-C015  |          |                        |                                 |
| CV series   | NSC-C1215 |          |                        |                                 |
|             | DSC-CW30V | SC-W-CV  | 30 kg or less          | Up to 3000 mm                   |
|             | DSC-CW60V |          | 60 kg or less          |                                 |
|             | NSC-CW60V |          | 30 kg or less          |                                 |
|             | DSC-C30V  |          | 60 kg or less          |                                 |
|             | DSC-C60V  |          |                        |                                 |
|             | NSC-C60V  |          |                        |                                 |

\*1. Not applicable to pocket door.

\*2. Following items are required for the bi-parting system.

| System components           | Q'ty  | Remark               |
|-----------------------------|-------|----------------------|
| ① Standard set (Base model) | 2 set |                      |
| ② Bi-parting System kit     | 1 set |                      |
| ③ Door stopper              | 2 set | Central door stopper |



#### Order example

- ① NSC-C48-22 ..... 2 SET
- ② Bi-parting System kit ..... 1 SET
- ③ Door stopper ..... 2 SET

### SC-W/SC-W-CV Bi-parting System

### Dimension diagram

|                                                        |                                                        |                                                                                                  |
|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Adjustment fitting L</b> (Common to SC-W / SC-W-CV) | <b>Adjustment fitting R</b> (Common to SC-W / SC-W-CV) | <b>Wire rope</b> (Common to SC-W / SC-W-CV)<br><b>Aluminum sleeve</b> (Common to SC-W / SC-W-CV) |
| <b>Angle L</b> (Common to SC-W / SC-W-CV)              | <b>Angle R</b> (Common to SC-W / SC-W-CV)              | <b>Door stopper</b> (For C Series)<br><b>Door stopper</b> (For CV Series)                        |

## Features

- This option allows the door to stop and hold at any desired position.
- To release the hold, lightly pull the door to closing direction so the door will automatically close.
- This option can be added on to the existing sliding door closer.
- The product can be used for both left and right hand sliding doors.

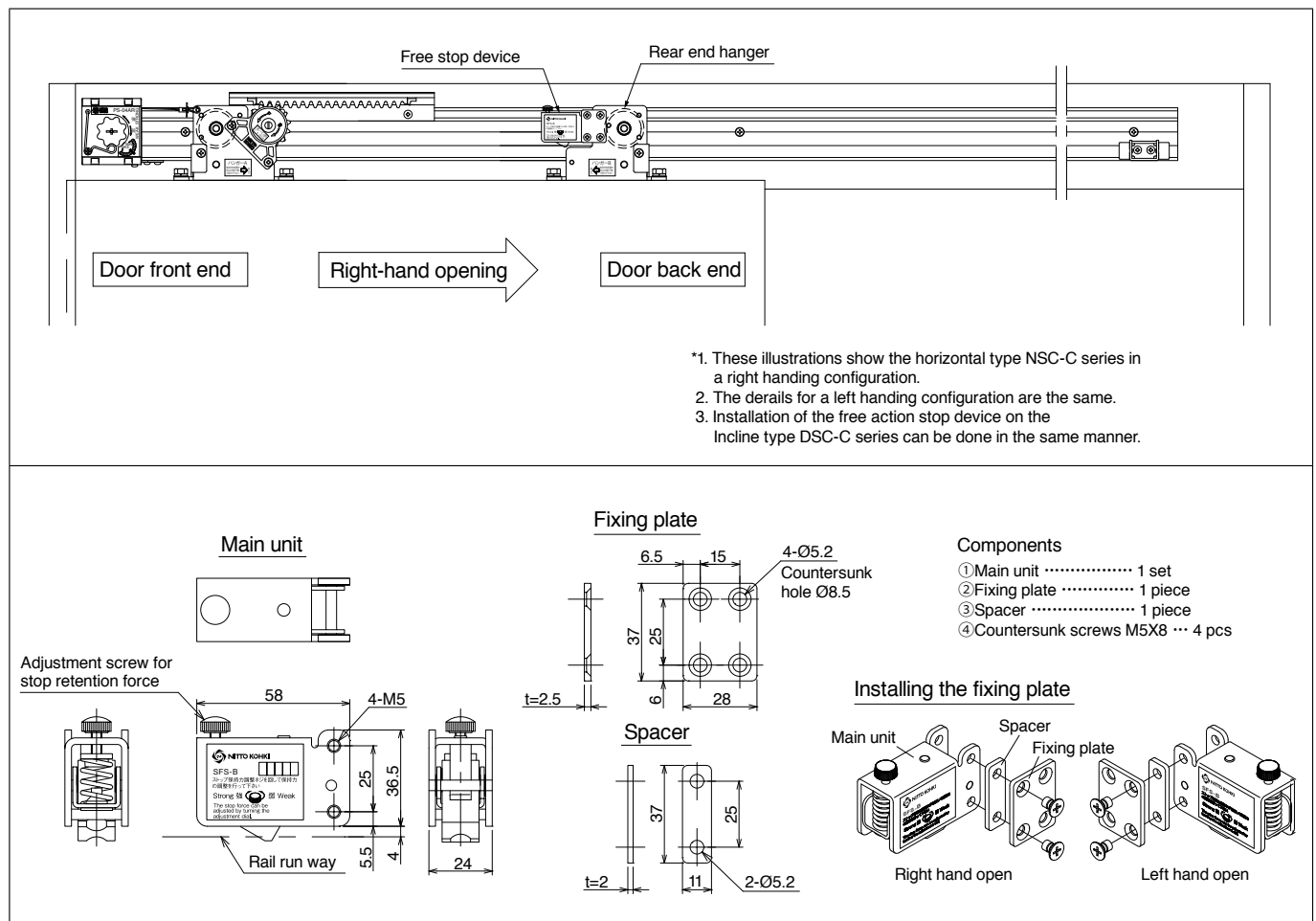
## Specification

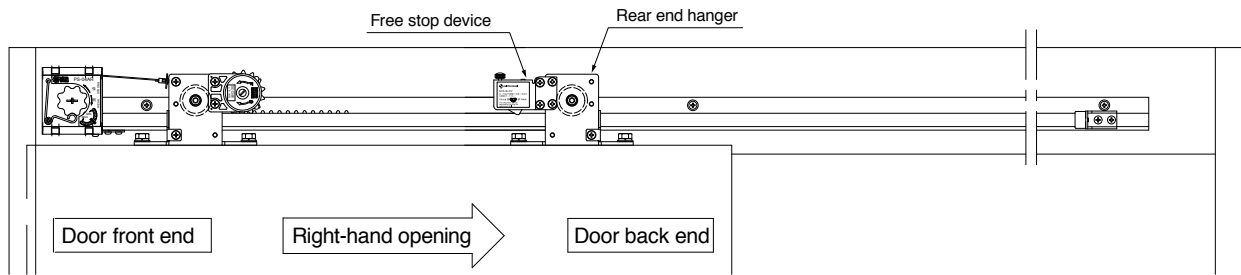
| Base model |             |             | Free stop device Model |
|------------|-------------|-------------|------------------------|
| Series     | Incline     | Horizontal  |                        |
| C series   | DSC-CW03    | NSC-CW23    | SFS-B type             |
|            | DSC-CW08    | NSC-CW48    |                        |
|            | DSC-CWKS03  | NSC-CWKS23  |                        |
|            | DSC-CWKS08  | NSC-CWKS48  |                        |
|            | DSC-C03     | NSC-C48     |                        |
|            | DSC-C08     | NSC-CKS48   |                        |
|            | DSC-CKS03   | NSC-CA48    |                        |
|            | DSC-CKS08   |             |                        |
| CV series  | DSC-C015    | NSC-C1215   | SFS-B-H type           |
|            | DSC-CW30V   | NSC-CW60V   | SFS-B-CV type          |
|            | DSC-CW60V   | NSC-CWKS60V |                        |
|            | DSC-CWKS30V | NSC-C60V    |                        |
|            | DSC-CWKS60V | NSC-CKS60V  |                        |
|            | DSC-C30V    |             |                        |
|            | DSC-C60V    |             |                        |
|            | DSC-CKS30V  |             |                        |
|            | DSC-CKS60V  |             |                        |



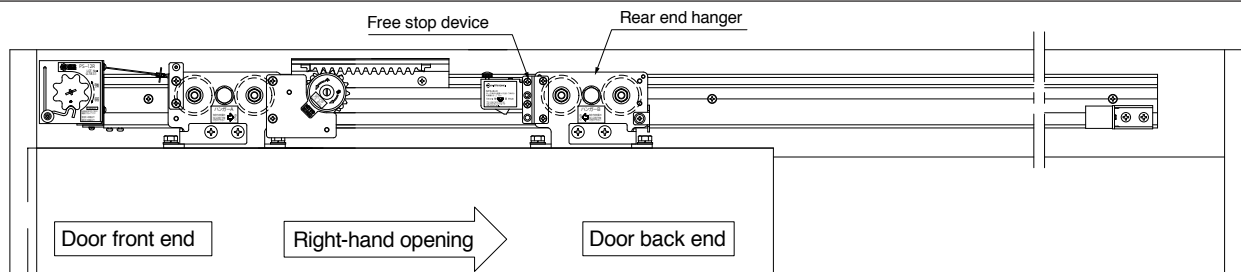
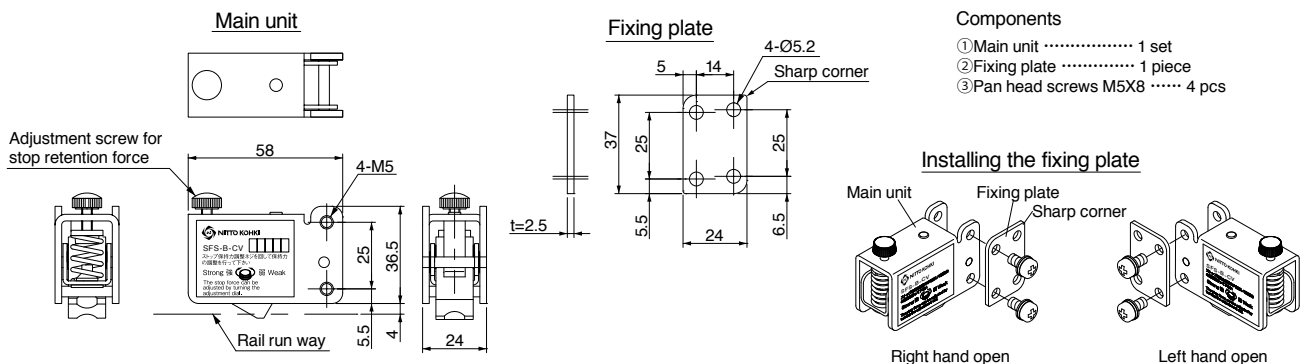
## Free stop device SFS-B type

## Dimension diagram

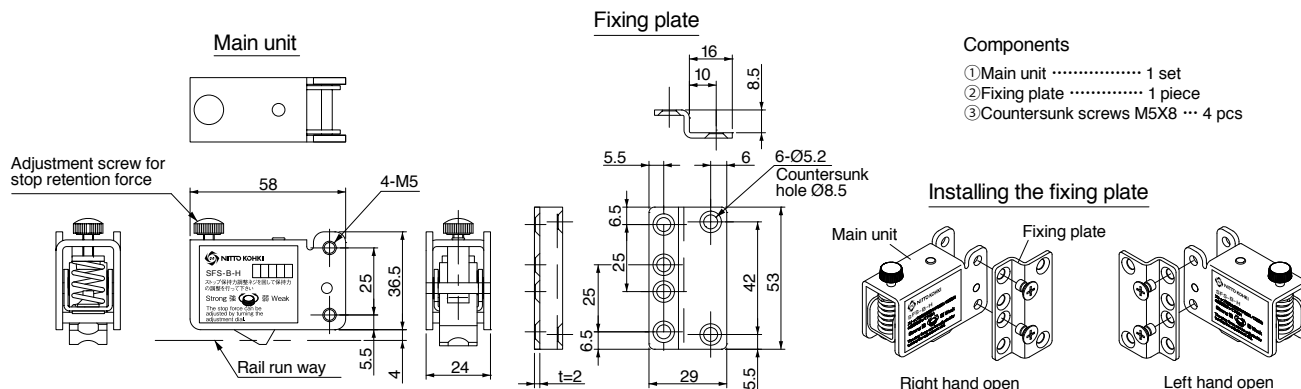




- \*1. These illustrations show the horizontal type NSC-CV series in a right handing configuration.  
 2. The details for a left handing configuration are the same.  
 3. Installation of the free action stop device on the Incline type DSC-CV series can be done in the same manner.



- \*1. These illustrations show the horizontal type NSC-C1215 in a right handing configuration.  
 2. The details for a left handing configuration are the same.  
 3. Installation of the free action stop device on the Incline type DSC-C015 can be done in the same manner.



## Features

- This option holds the door at full open position and automatically releases it after desired time period (settable between 0-15 sec).
- Increases safety during the passage for all, including the elderly, small children, people of limited mobility and those who carries cargo.

## Specification

| Series    | Base model |            | Delayed device Model                       |
|-----------|------------|------------|--------------------------------------------|
|           | Incline    | Horizontal |                                            |
| C series  | DSC-CW03   | NSC-CW23   | For right-handed opening:<br>SDA-C-R type  |
|           | DSC-CW08   | NSC-CW48   |                                            |
|           | DSC-C03    | NSC-C48    | For left-handed opening:<br>SDA-C-L type   |
|           | DSC-C08    | NSC-CA48   |                                            |
| CV series | DSC-CW30V  | NSC-CW60V  | For right-handed opening:<br>SDA-CV-R type |
|           | DSC-CW60V  | NSC-C60V   |                                            |
|           | DSC-C30V   |            | For left-handed opening:<br>SDA-CV-L type  |
|           | DSC-C60V   |            |                                            |

\*1 Not applicable to pocket door.

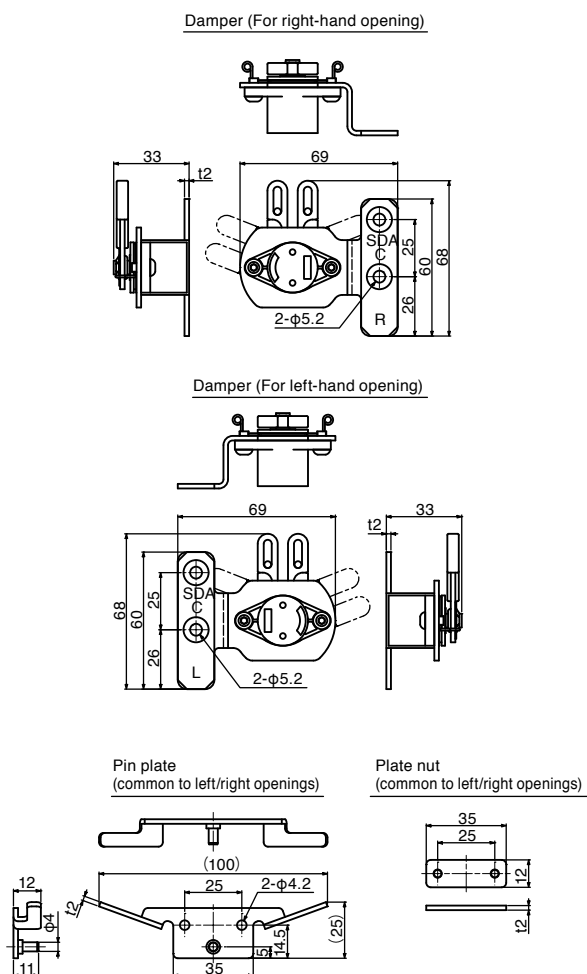
\*2 This product is handed. Choose left-hand or right-hand opening type when ordering.



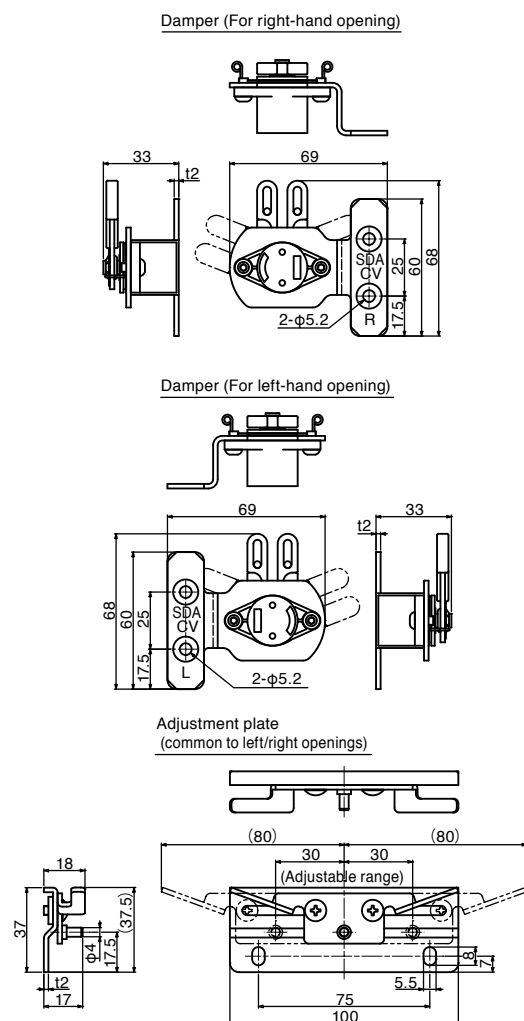
## Delayed device

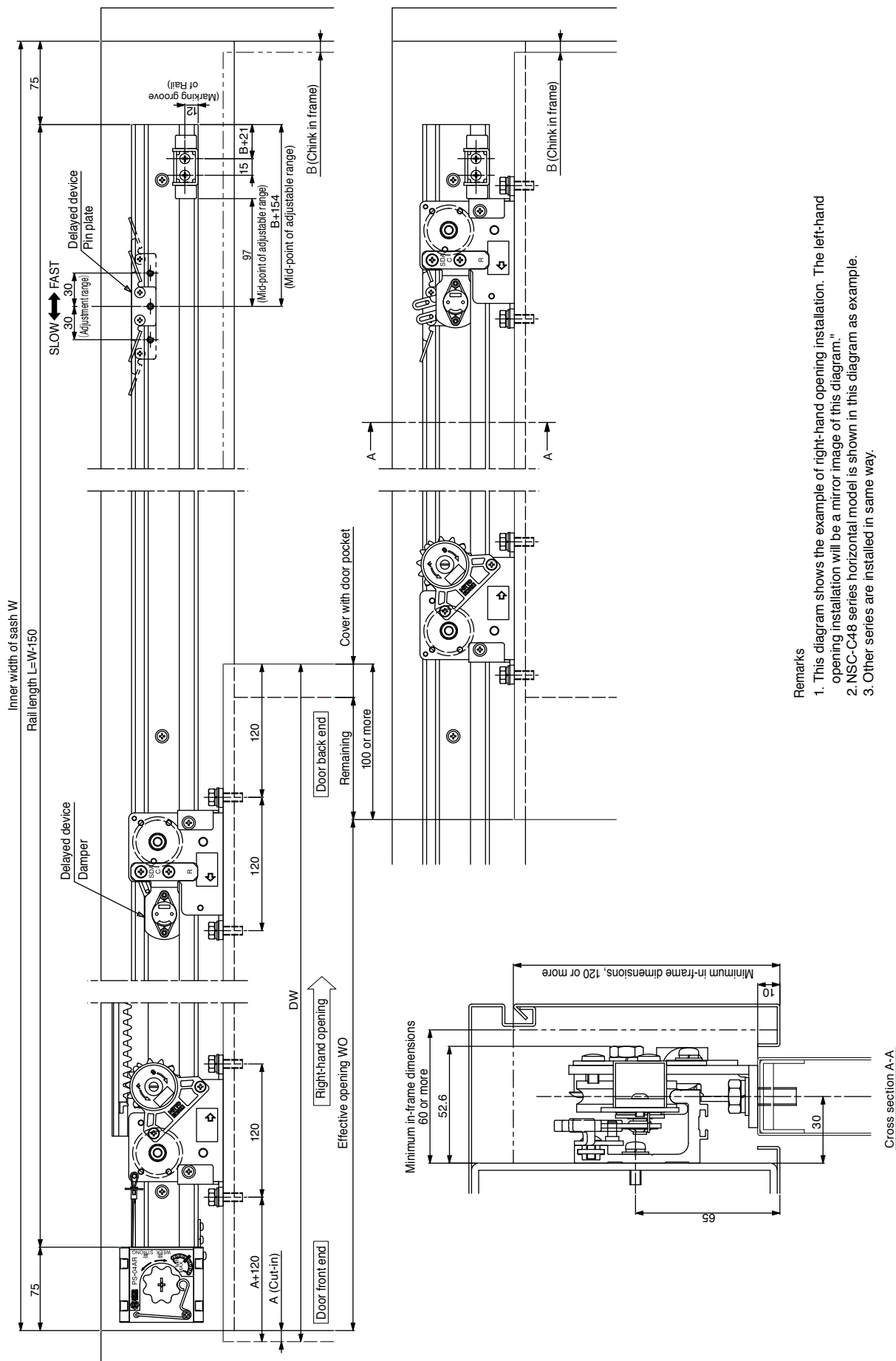
## Dimension diagram

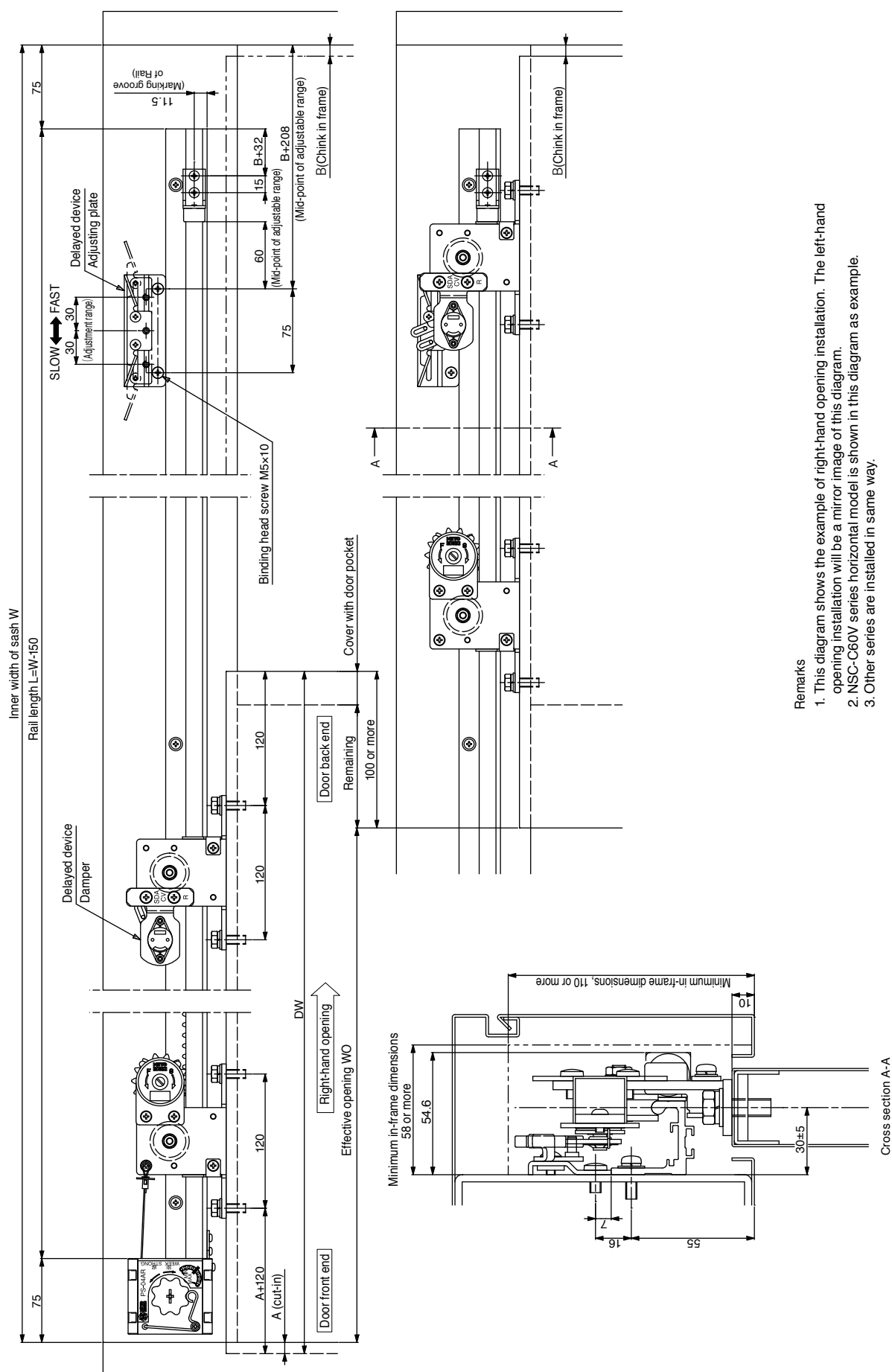
### SDA-C type



### SDA-CV type



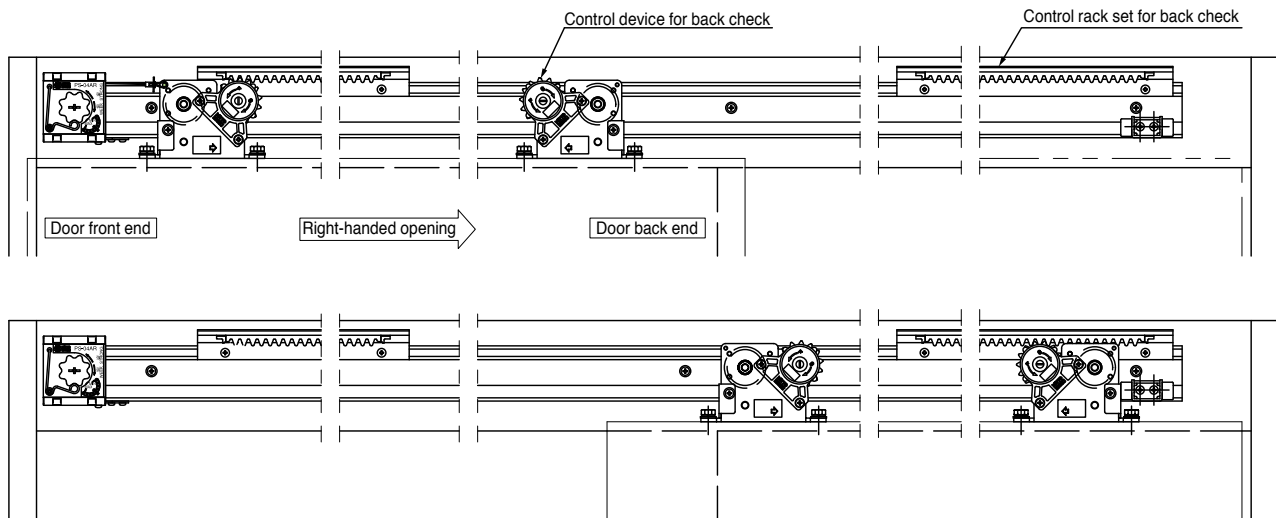




#### Remarks

1. This diagram shows the example of right-hand opening installation. The left-hand opening installation will be a mirror image of this diagram.
2. NSC-C60V series horizontal model is shown in this diagram as example.
3. Other series are installed in same way.

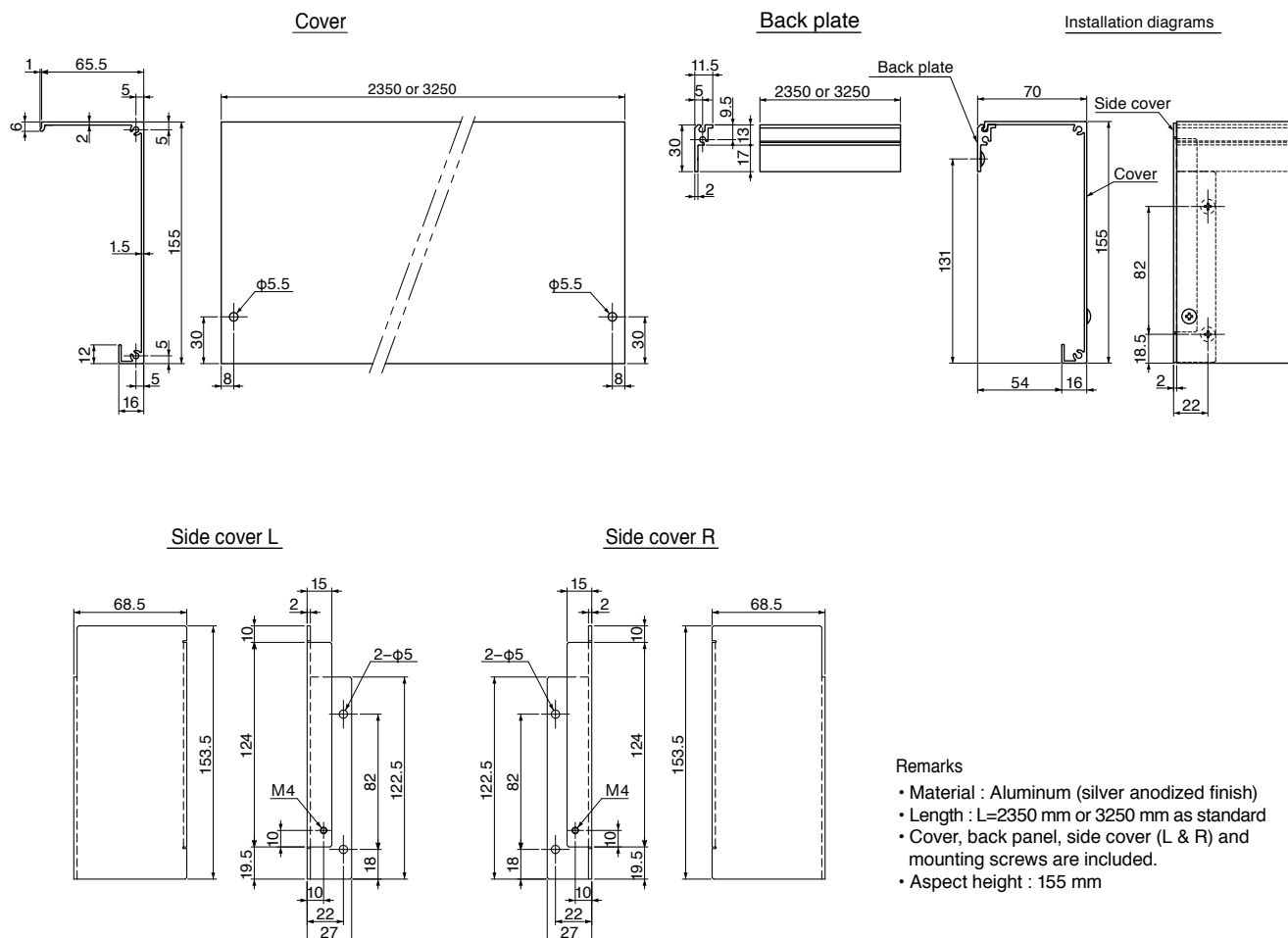
### Back check device installation diagrams



#### Remarks

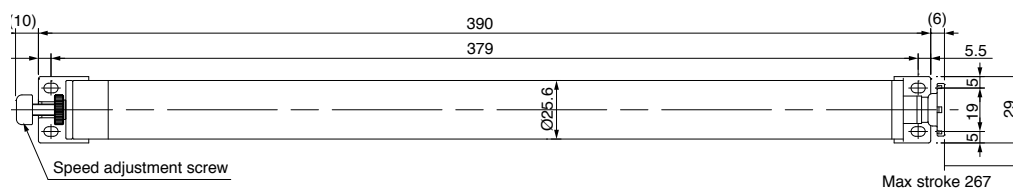
1. This diagram shows the example of right-hand opening installation.  
The left-hand opening installation will be a mirror image of this diagram.
2. NSC-C48 series horizontal model is shown in this diagram as example.
3. By installing additional control device and control rack at the door back end, the damper works towards the door opening direction.  
(\*The clutch gear of the control device for back check device must be installed in reverse.)
4. Other series are installed in same way.

### Dimension diagram for maintenance panel

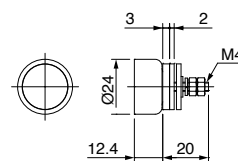


# Air damper unit

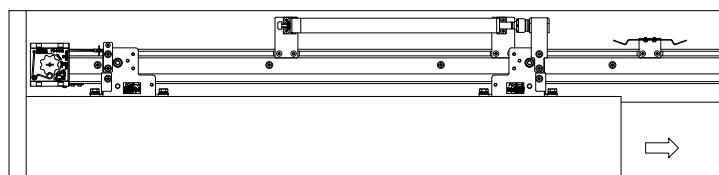
## Air damper (Common)



## Magnet (Common)



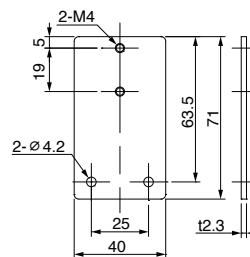
## SCA-C



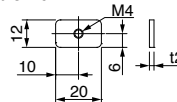
### Applicable Models

| Model          | Parts name                      | Q'ty |
|----------------|---------------------------------|------|
| NSC-CV series  | Air damper (Common)             | 1    |
| DSC-CV series  | Magnet (Common)                 | 1    |
| NSC-CKS series | Mounting bracket for air damper | 2    |
| DSC-CKS series | Plate nut                       | 4    |
|                | Mounting bracket for magnet     | 1    |
|                | M4 x 8 truss head screw         | 8    |
|                | M5 x 10 pan head screw          | 2    |

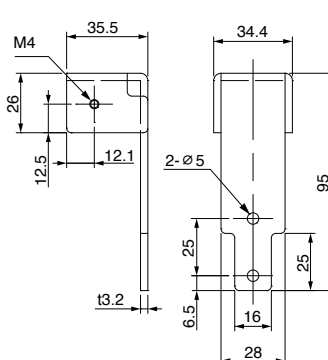
### Mounting bracket for air damper



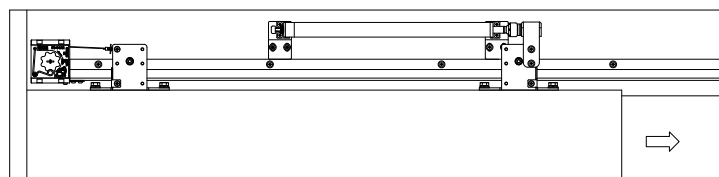
### Plate nut



### Mounting bracket for magnet



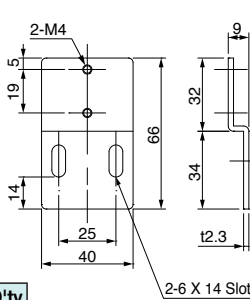
## SCA-CV



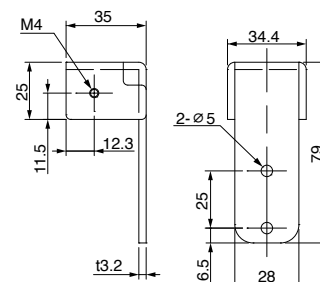
### Applicable Models

| Model         | Parts name                      | Q'ty | Parts name                     | Q'ty |
|---------------|---------------------------------|------|--------------------------------|------|
| NSC-CV series | Air damper (Common)             | 1    | M4x8 truss head screw          | 4    |
| DSC-CV series | Magnet (Common)                 | 1    | M5x10 pan head screw           | 4    |
|               | Mounting bracket for air damper | 2    | M5x30 truss head tapping screw | 4    |
|               | Mounting bracket for magnet     | 1    | M5x10 pan head screw           | 2    |

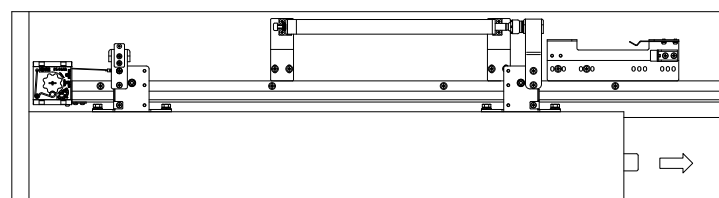
### Mounting bracket for air damper



### Mounting bracket for magnet



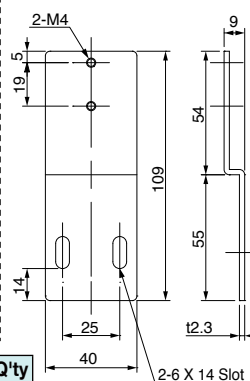
## SCA-CKSV



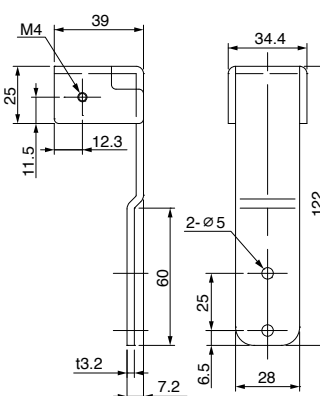
### Applicable Models

| Model          | Parts name                      | Q'ty | Parts name                     | Q'ty |
|----------------|---------------------------------|------|--------------------------------|------|
| NSC-CKS series | Air damper (Common)             | 1    | M4x8 truss head screw          | 4    |
| DSC-CKS series | Magnet (Common)                 | 1    | M5x10 pan head screw           | 4    |
|                | Mounting bracket for air damper | 2    | M5x30 truss head tapping screw | 4    |
|                | Mounting bracket for magnet     | 1    | M5x10 pan head screw           | 2    |

### Mounting bracket for air damper



### Mounting bracket for magnet



## Features

- The product catches the door at 25 mm from the full close position and firmly latches.
- Useful in the situations where the door is equipped with electronic lock having tight latch or the door gets often bounced back by airtight seal at closure.
- The latching force is adjustable during the installation.  
(Adjustment range: 5-10 N)
- The product can be used for both left and right hand sliding doors.

## Specification

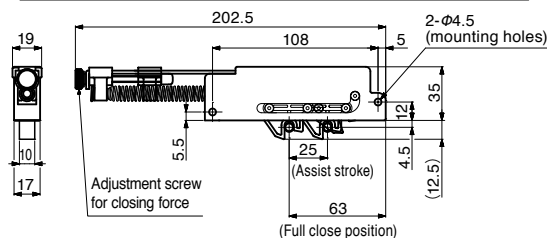
| Base model |             |             | Close assist device Model |
|------------|-------------|-------------|---------------------------|
| Series     | Incline     | Horizontal  |                           |
| C series   | DSC-CW03    | NSC-CW23    | SCP-C type                |
|            | DSC-CW08    | NSC-CW48    |                           |
|            | DSC-CWKS03  | NSC-CWKS23  |                           |
|            | DSC-CWKS08  | NSC-CWKS48  |                           |
|            | DSC-C03     | NSC-C48     |                           |
|            | DSC-C08     | NSC-CKS48   |                           |
|            | DSC-CKS03   | NSC-CA48    |                           |
|            | DSC-CKS08   |             |                           |
| CV series  | DSC-CW30V   | NSC-CW60V   | SCP-CV type               |
|            | DSC-CW60V   | NSC-C60V    |                           |
|            | DSC-C30V    |             |                           |
|            | DSC-C60V    |             |                           |
|            | DSC-CWKS30V | NSC-CWKS60V | SCP-CKSV type             |
|            | DSC-CWKS60V | NSC-CKS60V  |                           |
|            | DSC-CKS30V  |             |                           |
|            | DSC-CKS60V  |             |                           |



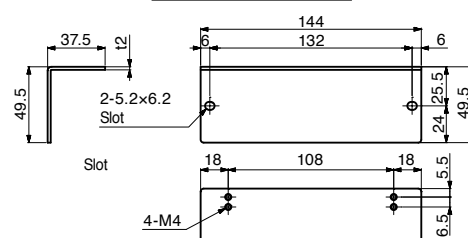
## Close assist device (Common to SCP-C/SCP-CV/SCP-CKSV)

## Dimension diagram

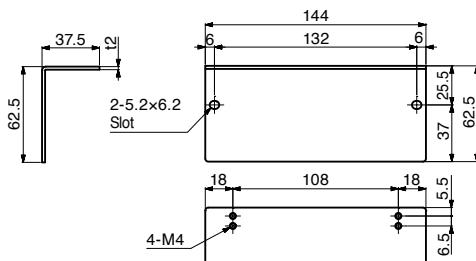
Close assist device (Common to SCP-C/SCP-CV/SCP-CKSV)



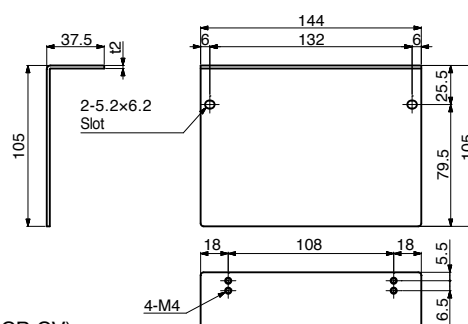
Bracket (For SCP-C)



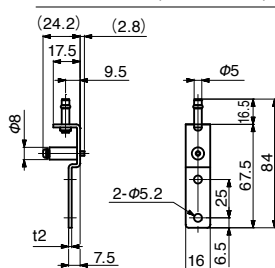
Bracket (For SCP-CV)



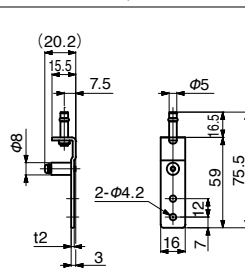
Bracket (For SCP-CKSV)



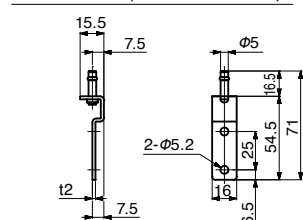
Pin bracket (For SCP-C)

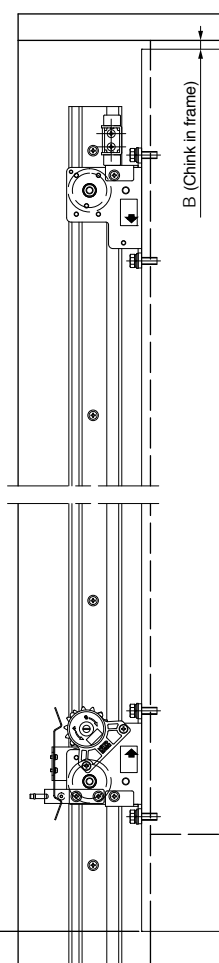
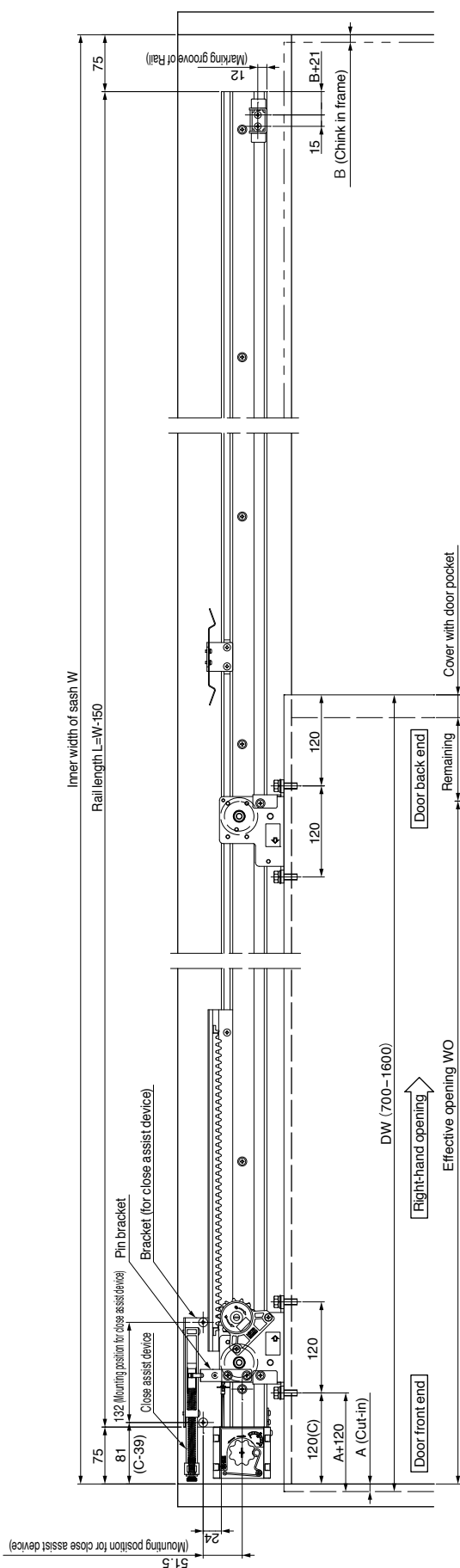


Pin bracket (For SCP-CV)

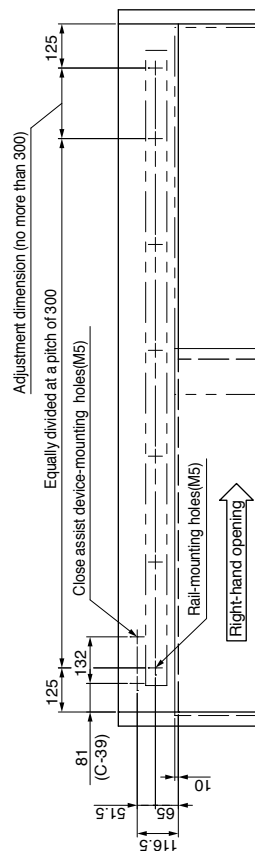


Pin bracket (For SCP-CKSV)



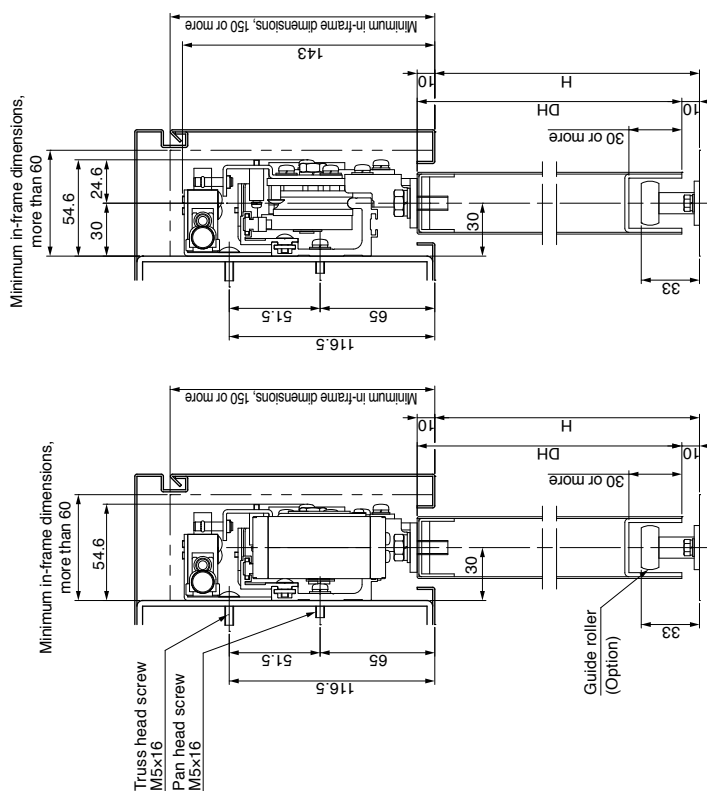


Position diagram for Close assist device and rail mounting holes (as viewed from inspection panel) M5 (P=0.8)

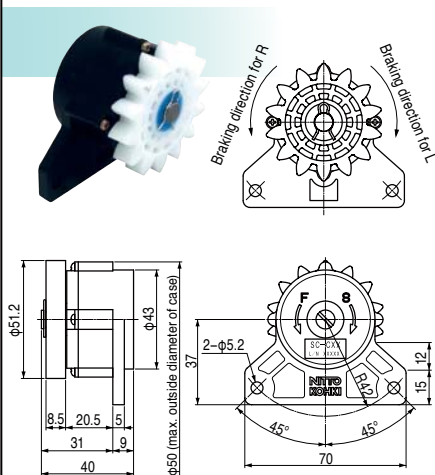


#### Remarks

1. This diagram shows the example of right-hand opening installation. The left-hand opening installation will be a mirror image of this diagram.
2. NSC-C48 series horizontal model is shown in this diagram as example.
3. Other series are installed in same way.

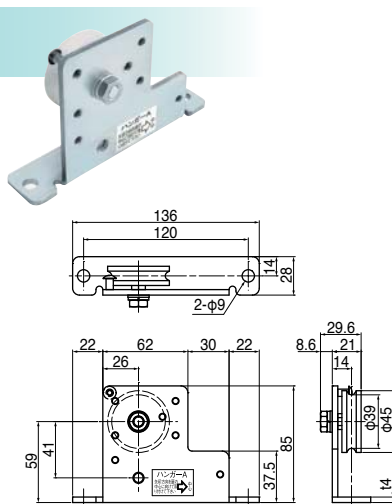


### Control device ( SC-C03/SC-C08 )



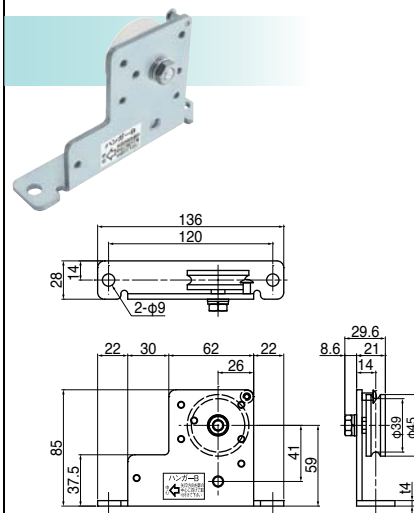
Shaft: Steel  
Case: Polyacetal  
Clutch gear: Polyacetal

### Hanger A



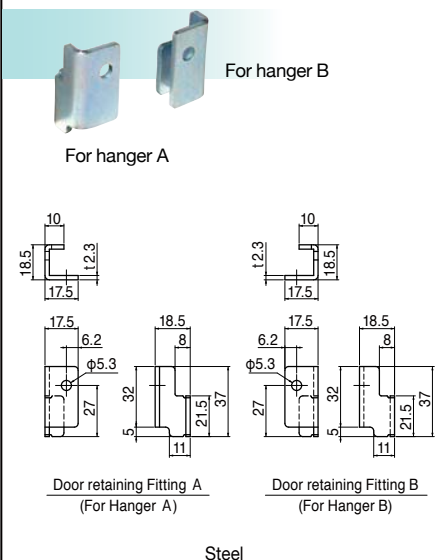
Bracket: Steel  
Door roller : Polyacetal

### Hanger B



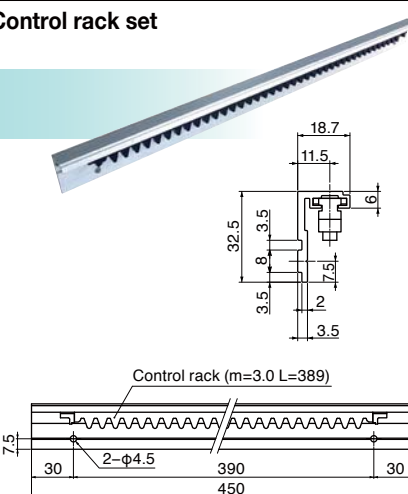
Bracket: Steel  
Door roller : Polyacetal

### Door retaining fitting Hanger



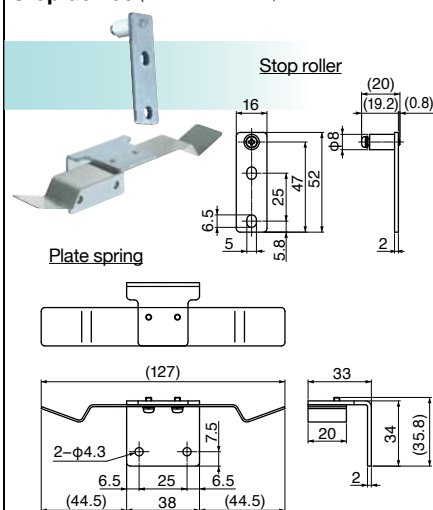
Steel

### Control rack set



Control rack : Nylon  
Plate nut : Steel  
Noise suppression rubber : Nitrile rubber  
\*The cross section view is enlarged.

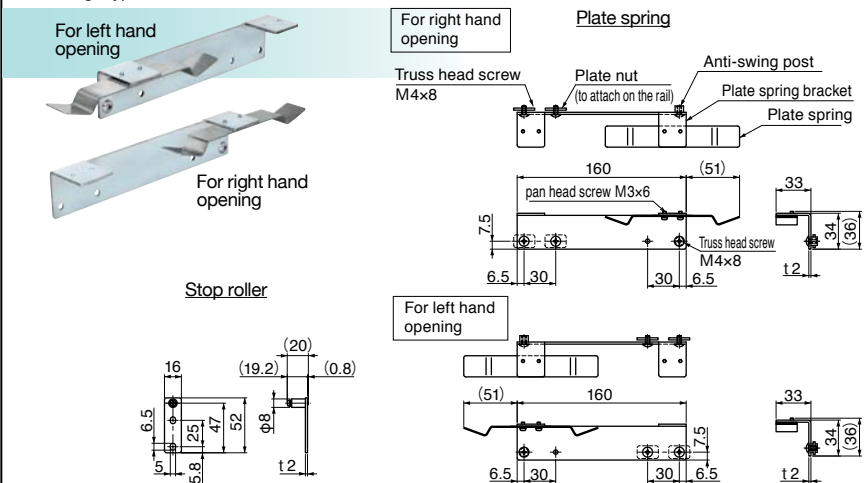
### Stop device ( for C/CW series )



Spring: Stainless steel  
Other metal :Steel

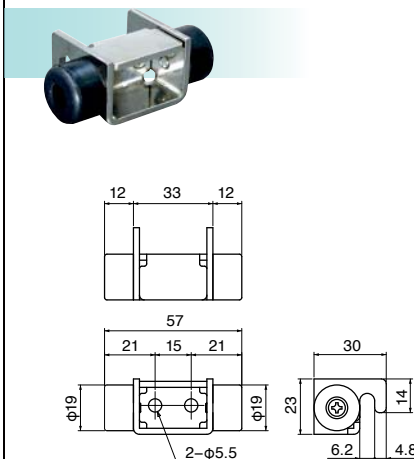
### Stop device ( for CKS/CWKS series )

Wall storage type



Spring: Stainless steel  
Other metal :Steel

### Door stopper ( for C/CW series )



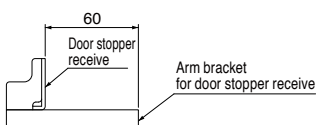
Bracket: Stainless steel  
Rubber door stopper: Synthetic rubber

## Door stopper ( for CKS/CK CWKS series )

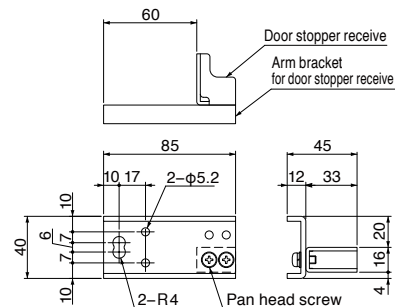


### Door stopper plate (for door side)

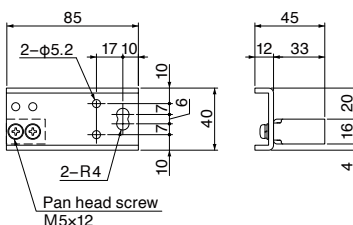
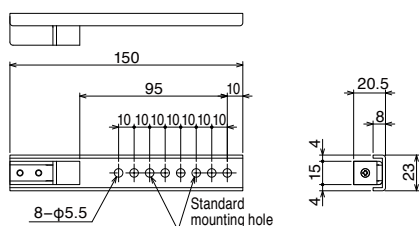
#### Right-hand opening



#### Left-hand opening



### Door stopper bracket (for frame side)

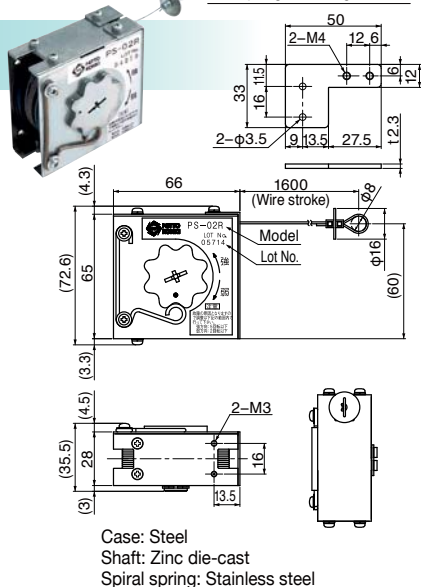


Metal: Steel

Rubber door stopper: Synthetic rubber

## Pull spring ( PS-02 )

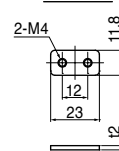
### Pull spring mounting bracket



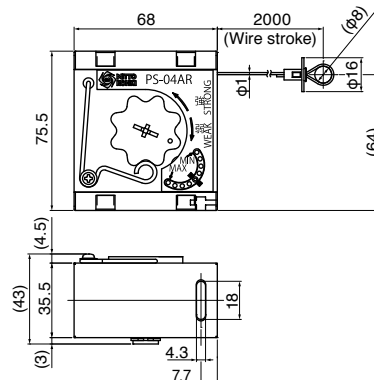
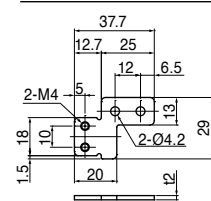
## Pull spring ( PS-04A )



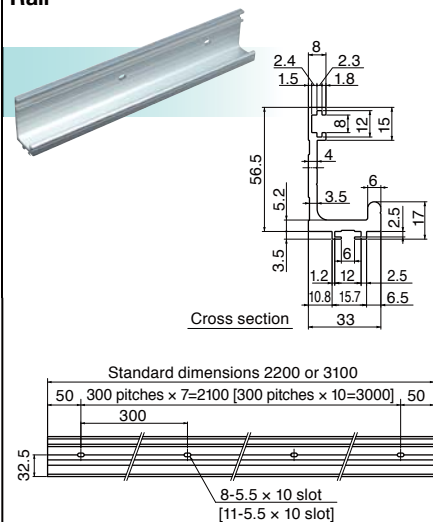
### Plate nut



### Pull spring mounting bracket

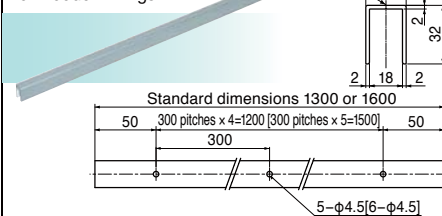


## Rail

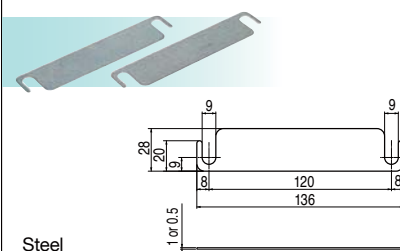


## Guide rail ( for CW/CWKS series )

### For wooden fittings

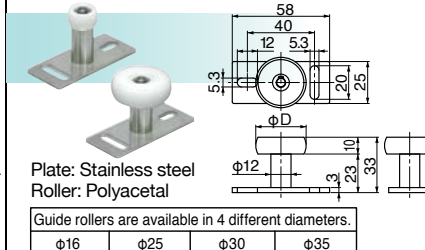


## Height adjusting plate

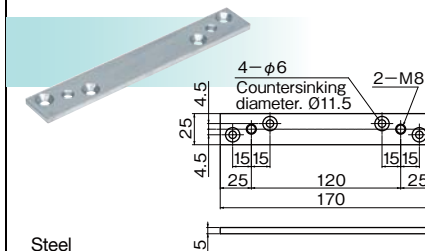


## Guide roller ( $\phi 16$ guide roller is included in CW/CWKS series as standard. )

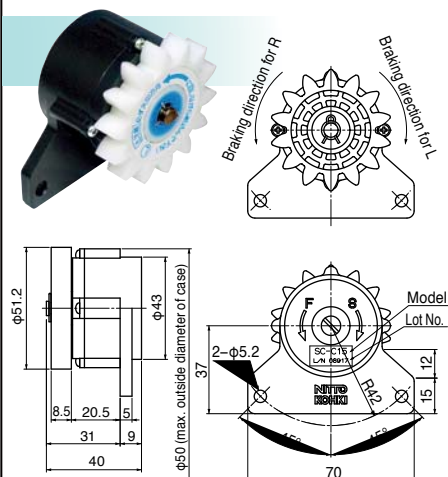
### Guide roller is option for C/CKS series.



## Wooden door plate ( for CW/CWKS series )

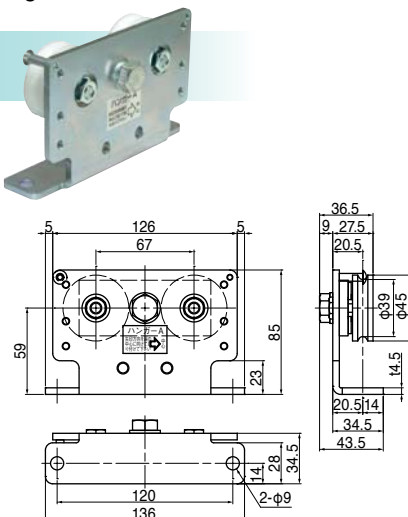


**Control device ( SC-C15 )**



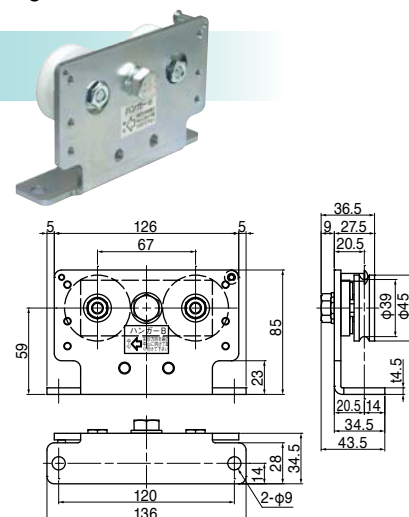
Shaft: Steel  
Case: die-cast  
Clutch gear: Polyacetal

**Hanger A ( for 150 kg )**



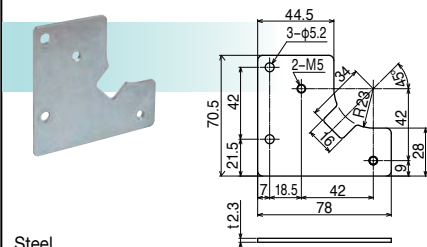
Bracket: Steel  
Door roller : Polyacetal

**Hanger B ( for 150 kg )**



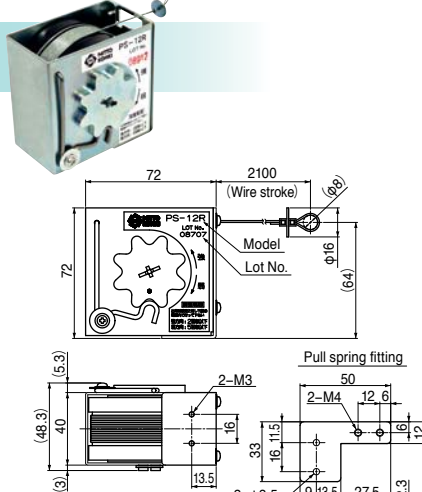
Bracket: Steel  
Door roller : Polyacetal

**Control device bracket ( for 150 kg )**



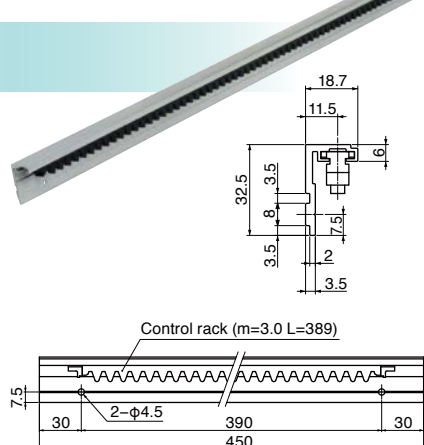
Steel

**Pull spring ( PS-12 )**



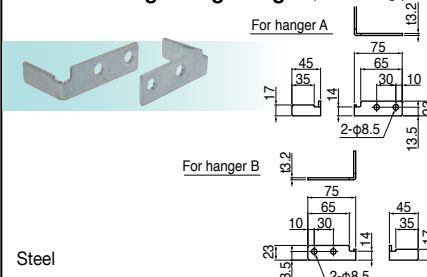
Case: Steel  
Shaft: Die-cast  
Spiral spring: Stainless steel

**Control rack set H**



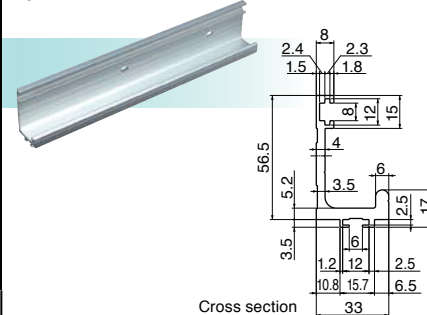
Control rack : Nylon  
Plate nut: Steel  
\*The cross section view is enlarged.

**Door retaining fitting Hanger ( for 150 kg )**

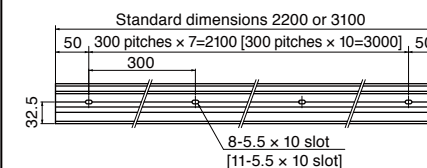


Steel

**Rail**

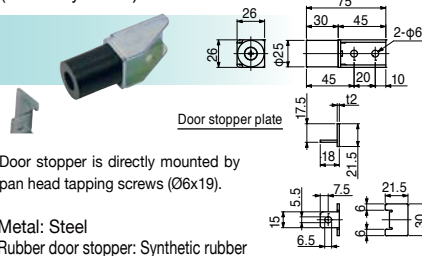


Cross section



Rail: Aluminum profile (anodized)  
\*The cross section view is enlarged.

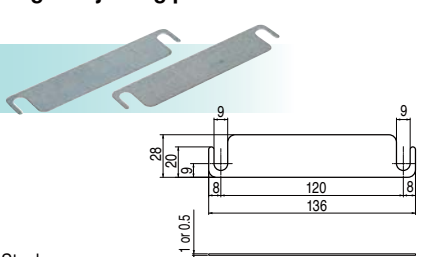
**Door stopper ( for heavy doors )**



Door stopper is directly mounted by pan head tapping screws (Ø6x19).

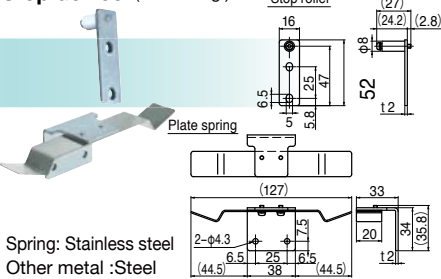
Metal: Steel  
Rubber door stopper: Synthetic rubber

**Height adjusting plate**



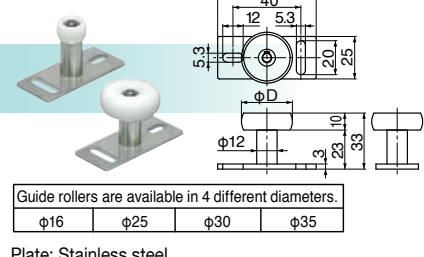
Steel

**Stop device ( for 150 kg )**



Spring: Stainless steel  
Other metal :Steel

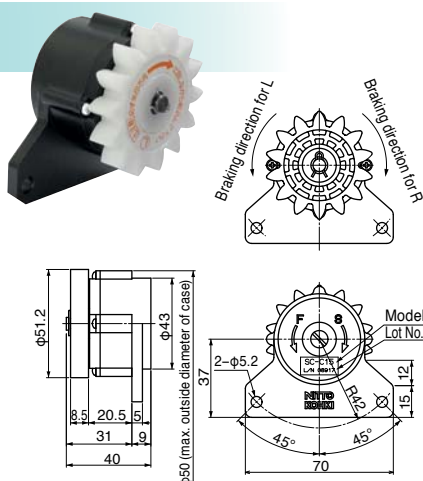
**Guide roller**



Guide rollers are available in 4 different diameters.  
φ16 φ25 φ30 φ35

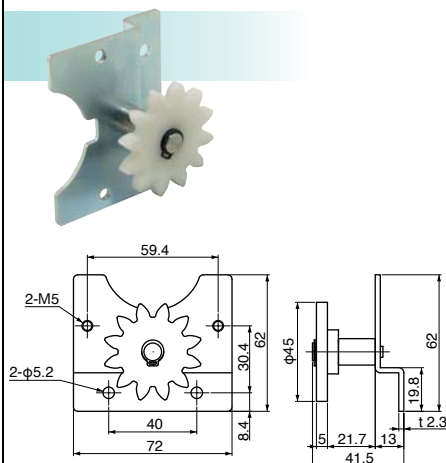
Plate: Stainless steel  
Roller: Polyacetal

Control device ( SC-C25 )

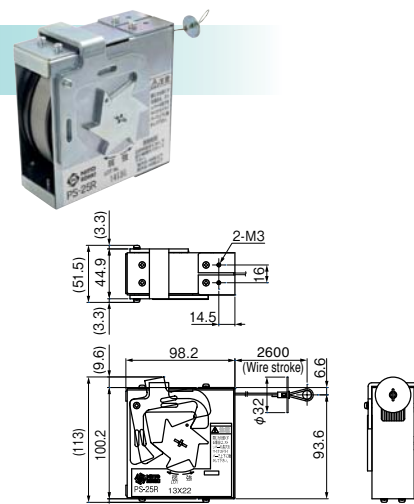


Shaft: Steel  
Case: die-cast  
Clutch gear: Polyacetal

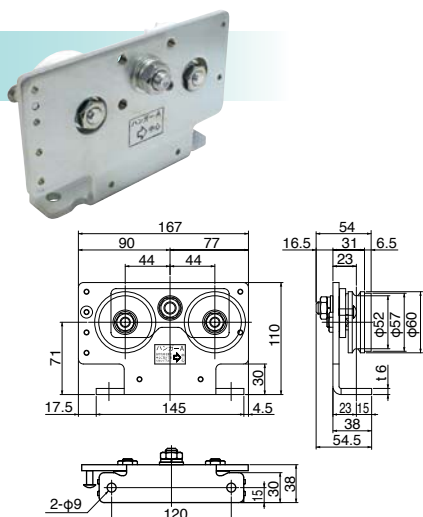
**Control device bracket** ( for 250 kg )



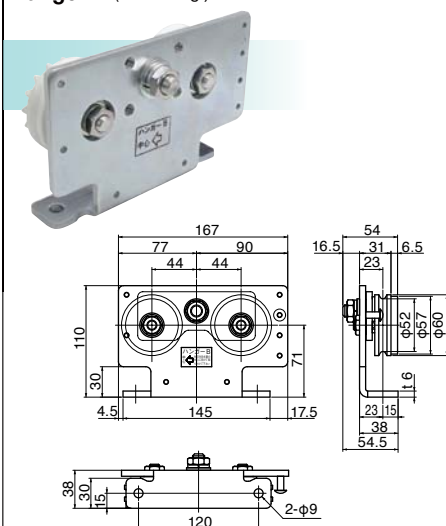
Bracket: Steel  
Link gear : Resin

**Pull spring ( PS-25 )**

Case: Steel  
Spiral spring: Stainless steel

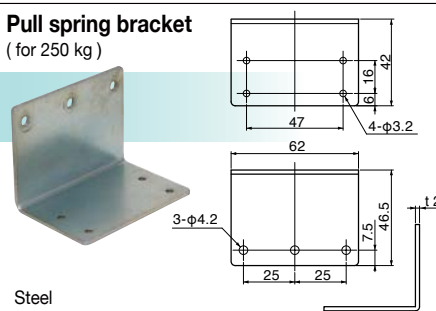
**Hanger A** ( for 250 kg )

Bracket: Steel  
Door roller : Polyacetal

**Hanger B ( for 250 kg )**

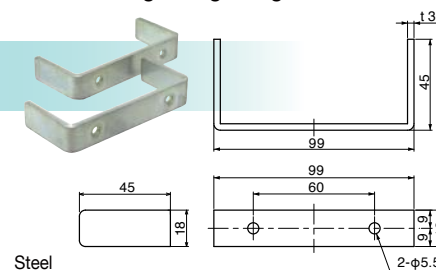
Bracket: Steel  
Door roller : Polyacetal

**Pull spring bracket**  
( for 250 kg )

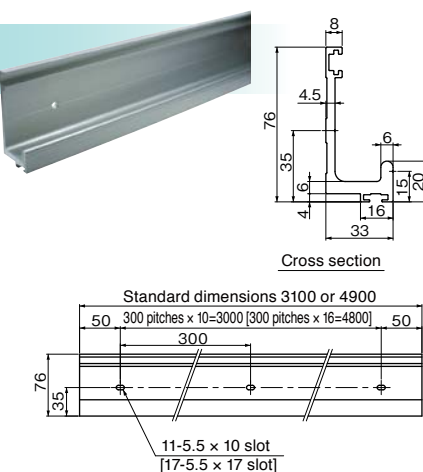


Steel

**Door retaining fitting Hanger ( for 250 kg )**

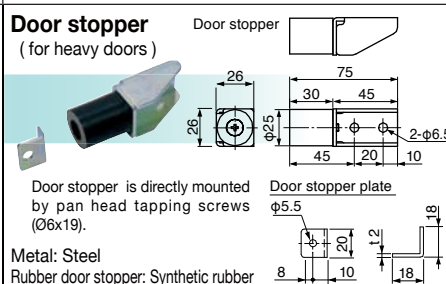


Steel

**Rail** ( for 250 kg )

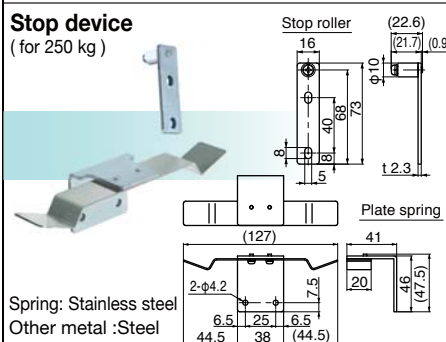
Rail: Aluminum profile (anodized)  
\*The cross section view is enlarged.

**Door stopper**  
( for heavy doors )



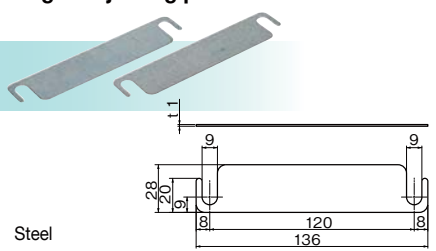
Metal: Steel  
Rubber door stopper: Synthetic rubber

**Stop device**  
( for 250 kg )



Spring: Stainless steel  
Other metal :Steel

|                        |
|------------------------|
| Height adjusting plate |
|------------------------|



Steel

**Guide roller** ( Option )

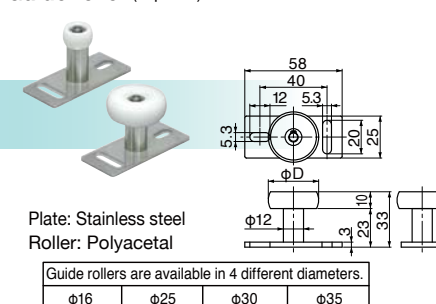


Plate: Stainless steel  
Roller: Polyacetal

Guide rollers are available in 4 different diameters.

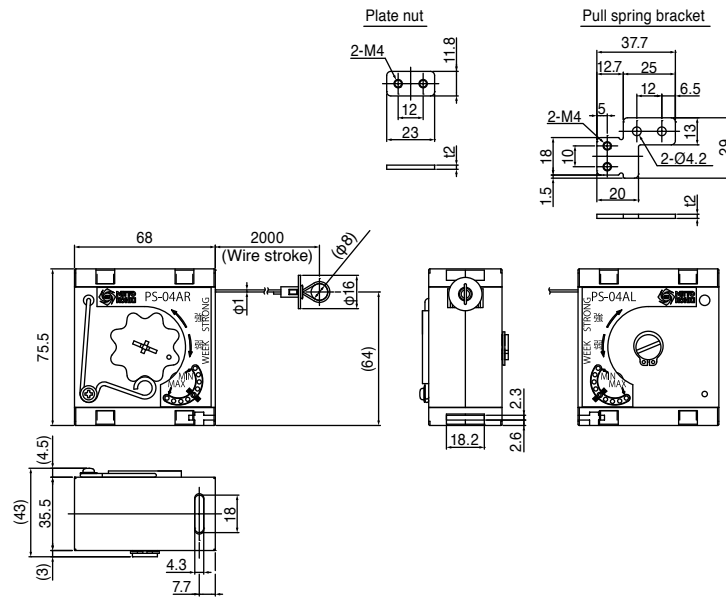
|     |     |     |     |
|-----|-----|-----|-----|
| Φ16 | Φ25 | Φ30 | Φ35 |
|-----|-----|-----|-----|



### Pull spring ( PS-04A-CV )



Case: ABS  
Shaft: Zinc die-cast  
Spiral spring: Stainless steel  
Mounting bracket: Stainless steel



### Door stopper/Stop device ( for CKSV/CWKS series )

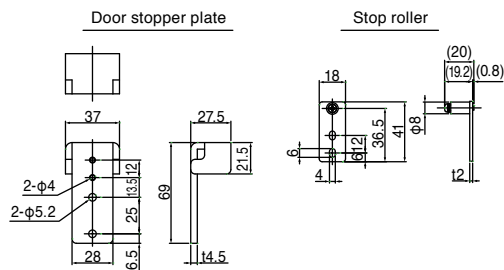
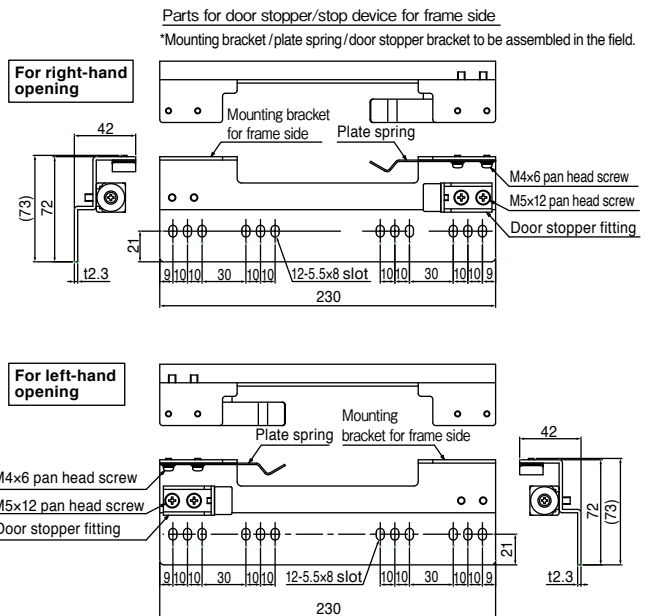


Plate spring: Stainless steel  
Door stopper rubber: Synthetic rubber  
Other Metal fittings: Steel



User-friendly technology

# Door Closer

Auto Hinge & Sliding Door Closer

## OTHER RELATED PRODUCTS

### AUTO-HINGE

#### Flag Type

■ Door closer + hinge, All-In-One.  
Designed with cutting edge technology from Nitto Kohki. Easy to install on all kinds of swing doors (regular rectangle doors, arch doors, etc).

■ Variety of models available for different size and type of doors (wooden, aluminum, lightweight steel, steel and glass doors).



#### Butterfly Type

- Small and slim, ideal for lightweight doors (indoor use).
- The butterfly design makes installation highly efficient.
- Non handed - Can be used for both right and left hand opening doors.



#### PC series

- Drip-proof design, suitable for outdoor use or moist area.
- Adopts an actuator with unique temperature sensor, ensuring consistent closing speed all year round.



#### 700 series

- Made in highly endurable stainless steel with special sealing mechanism.
- Commercial grade, widely applicable for various locations including bathrooms, seashores etc.



### AUTO-HINGE

#### Center Hang Type

Concealed door hinge with self-closing function. Built into the door, offering clean exterior appearance. Excellent performance and durability, suitable for the fire proof doors.

- Concealed design, built into the bottom side of the door. Completely hidden inside the door, offering streamlined door appearance.
- Suitable for fire doors, smoke ventilations, air intake doors or regular swing doors.



**NITTO KOHKI CO., LTD.**

Web [www.nitto-kohki.co.jp/e/](http://www.nitto-kohki.co.jp/e/)

#### Head Office

9-4, Nakaikagami 2-chome, Ohta-ku, Tokyo 146-8555, Japan  
Tel : +81-3-3755-1111 Fax : +81-3-3753-8791  
E-mail : [overseas@nitto-kohki.co.jp](mailto:overseas@nitto-kohki.co.jp)



ISO9001  
JQA-2025  
ISO14001  
JQA-EM4057  
H.Q./R&D Lab

DISTRIBUTED BY



This catalog is printed using environmentally friendly paper and vegetable oil inks.