

# Sliding Door Closer

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



### 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 6.7N with DSC-C08 model and 5.7N with NSC-C48 model when used on 40kg 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

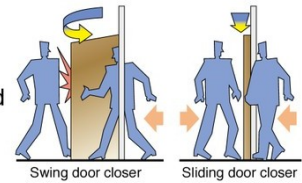


### In-wall mount type



Special Order

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



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### 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 series		
	horizontal		
	NSC-CKS series		

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**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**


- Delayed device can control closing time at door full open. Therefore, it helps aged person, handicapped and also when carrying goods.
- Closing time can be adjusted from 0-15 sec.



**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**

- Close assist device helps door closed at 25mm when door can not be closed perfectly because of latching resistance, by electronic lock or airtight material (Mohair, Seal) And also this device is prevented from door jumped when door is closed strongly. Pulling force can adjustable from 5N-10N



**AIR DAMPER UNIT**

- Air damper can be installed sliding door closer C and CV series under 80kg door.

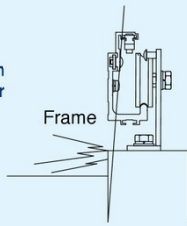


# Sliding Door Closer Troubleshooting Q&A

**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.**

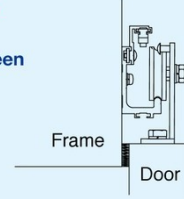
Action: Check the point of contact and then adjust or reinstall the hanger(s)/ guide roller for correcting the position and make sure there is no contact against the top cover or door pocket.



**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.)



**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.**

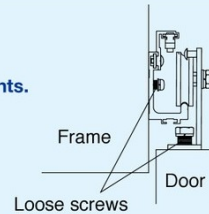
Action: Raise the door by adjusting the hanger bracket or even move the rail location up if more clearance is needed.



**Q: The door makes rattling noise.**

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

Action: Tighten any loose screws.



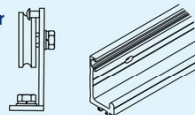
**A: The door may be not perpendicular (vertical) to the floor and therefore the door may be tilting/leaning away from the wall.**

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



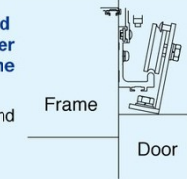
**A: There may be dusts, obstacles or damage on the hanger roller or the surface of rail.**

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



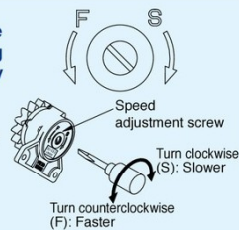
**A: The hanger(s) may not be installed parallel to the rail and the hanger roller is not rolling in-line on the rail correctly.**

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

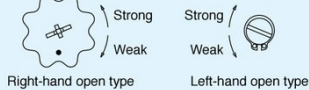


**A: The control device may not be set up correctly (weak spring strength) and the system may be braking too strongly.**

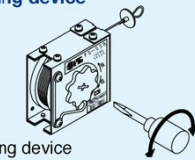
Action: Turn the speed adjustment dial on the control device counterclockwise and adjust the braking speed correctly.



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

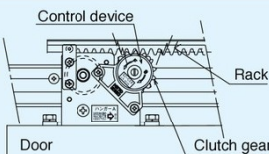


Action: Adjust the spring force of pull spring device and set it to suitable tension.



**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.



## 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.)

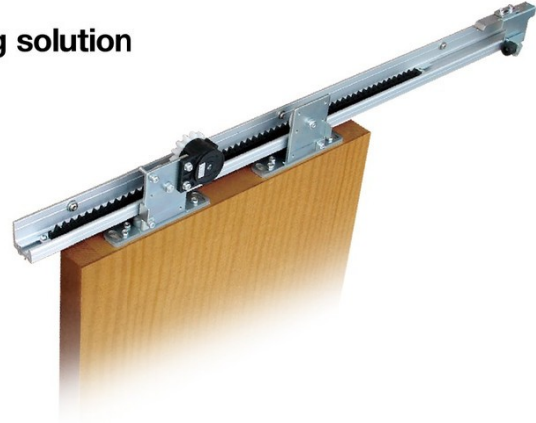
## Precautions to be taken to ensure a long service life

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.

For wooden doors, incline type  
 Door weight : 10-30kg/30-60kg

# DSC-CW30V/CW60V

**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

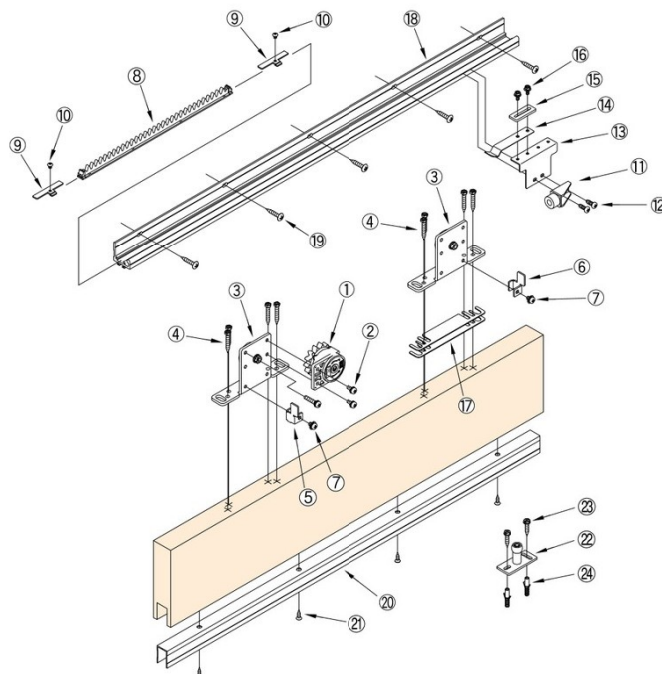
- All parts required for inclining installation on wooden door (e.g. guide rail, guide roller, stop device, etc.) are included in standard component.
- The product can be used for both left and right hand sliding doors and can be easily converted between left and right by simple adjustment.

## 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 900mm)			
Initial opening force [N]		2.3 (Door weight 10kg), 6.1 (Door weight 30kg)		6.1 (Door weight 30kg), 11.6 (Door weight 60kg)	
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	
⑥	Door retaining fitting R	1	Door retention
⑦	M5×8 pan head screw	2	
⑧	Control rack	1	
⑨	Control rack fitting	2	For control rack set
⑩	M4×5 hexagon socket button head screw	2	
⑪	Door stopper	1	For door stopper
⑫	Φ5×16 pan head drill screw	2	
⑬	Plate spring bracket	1	
⑭	Plate spring	1	For stop device
⑮	Stop force adjusting plate	1	
⑯	M4×10 Cross recessed hexagon screw	2	
⑰	Height adjusting plate (t=1.0)	16	
⑱	Rail L=2200[L=3100]	1	For rail
⑲	Φ5×30 truss head tapping screw	8[11]	
⑳	Guide rail L=1300[L=1600]	1	
㉑	Φ4×16 countersunk head tapping screw	4[5]	For guide rail
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 : 10-30kg/30-60kg

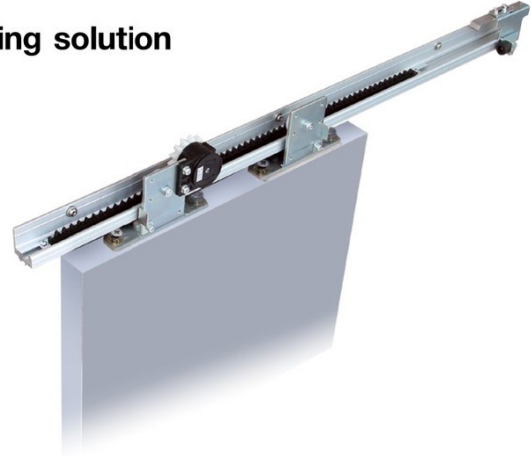
# DSC-C30V/C60V

**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.

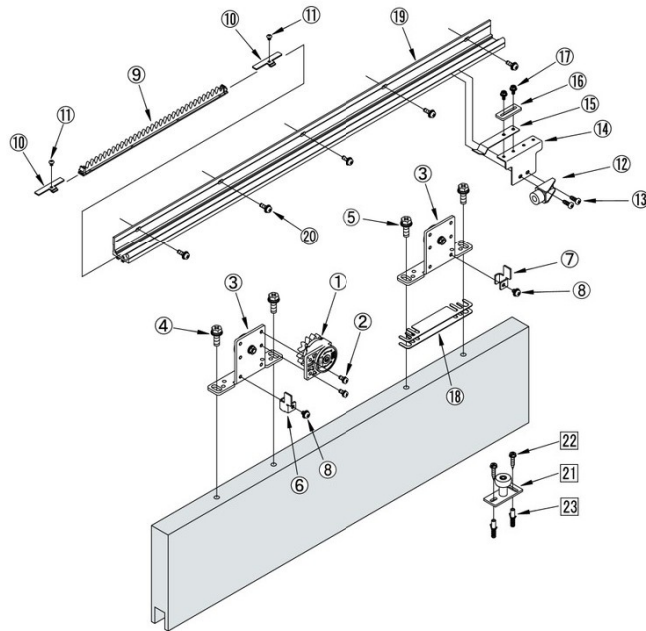


## Specifications

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 900mm)			
Initial opening force [N]		2.3 (Door weight 10kg), 6.1 (Door weight 30kg)		6.1 (Door weight 30kg), 11.6 (Door weight 60kg)	
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	
④	M8×25 cross recessed hexagon head screw	2	For hanger
⑤	M8×30 cross recessed hexagon head screw	2	
⑥	Door retaining fitting L	1	
⑦	Door retaining fitting R	1	Door retention
⑧	M5×8 pan head screw	2	
⑨	Control rack	1	
⑩	Control rack fitting	2	
⑪	M4×5 hexagon socket button head screw	2	For control rack set
⑫	Door stopper	1	
⑬	Φ5×16 pan head drill screw	2	For stop device
⑭	Plate spring bracket	1	
⑮	Plate spring	1	
⑯	Stop force adjusting plate	1	For door stopper
⑰	M4×10 Cross recessed hexagon screw	2	
⑱	Height adjusting plate (t=1.0)	16	
⑲	Rail L=2200[L=3100]	1	For rail
⑳	M5×16 pan head screw	8[11]	
㉑	Guide roller *	1	
㉒	Φ5×25 Hexagon head tapping screw	2	For guide roller
㉓	M5×12 Hexagon head screw	2	
㉔	Fischer plug 6×30	2	

\*4 types, φ16, 25, 30, 35

For wooden doors, incline type

Door weight : 10-30kg

# DSC-CW03

## 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.



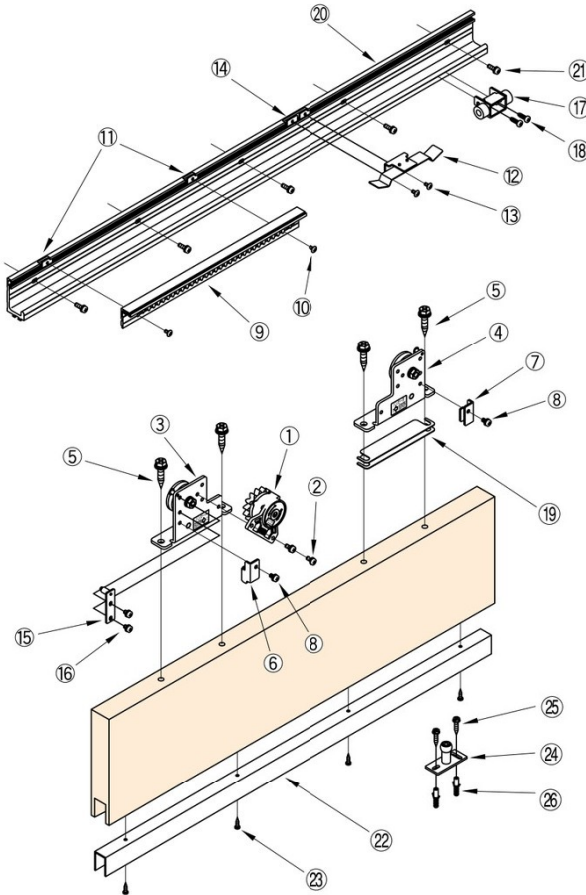
## Specifications

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 900mm)	
Initial opening force [N]		2.5 (Door weight 10kg), 5.4 (Door weight 30kg)	
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	For control device
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 stop device
⑫	Plate spring	1	
⑬	M4×8 truss head screw	2	For door stopper
⑭	Plate nut	2	
⑮	Stop roller	1	For door stopper
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	

For wooden doors, incline type

Door weight : 30-80kg

# DSC-CW08

## 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.



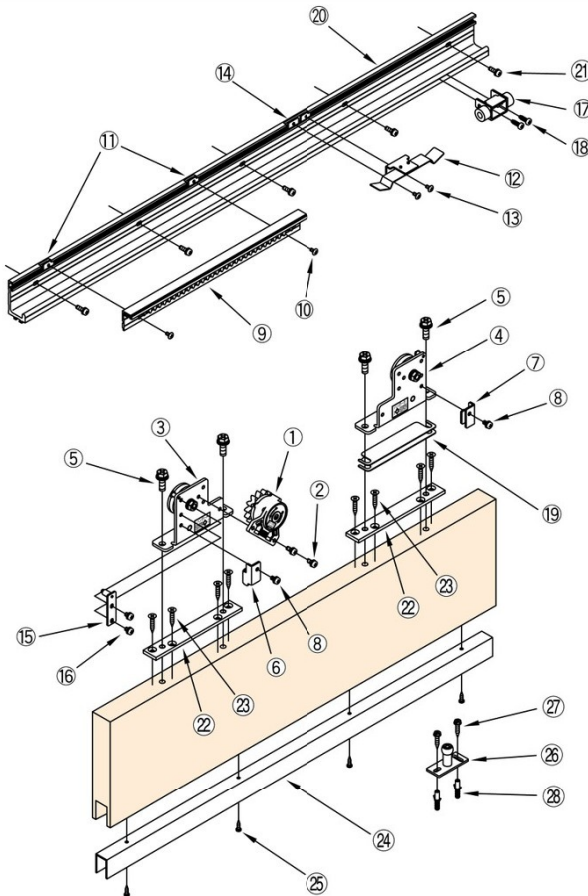
## Specifications

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 900mm)	
Initial opening force [N]		5.4 (Door weight 30kg), 12.5 (Door weight 80kg)	
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	
④	Hanger B	1	
⑤	φ8×25 cross recessed hexagon head bolt	2	For hanger
⑥	φ8×30 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	
⑩	Control rack set	1	
⑪	M4×8 truss head screw	2	For control rack set
⑫	Plate nut	2	
⑬	Plate spring	1	
⑭	M4×8 truss head screw	2	For stop device
⑮	Plate nut	2	
⑯	Stop roller	1	
⑰	M5×8 pan head screw	2	
⑱	Door stopper	1	For door stopper
⑲	φ5×16 pan head tapping screw	2	
⑲	Height adjusting plate (t=1.0,0.5)	15+1	
⑳	Rail L=2200[L=3100]	1	For rail
㉑	M5×16 pan head screw	8[11]	
㉑	φ5×30 truss head tapping screw	8[11]	
㉒	Wooden door plate	2	For wooden door plate
㉓	φ5×30 countersunk head tapping screw	8	
㉔	Guide rail L=1300[L=1600]	1	For guide rail
㉕	φ4×16 pan head tapping screw	5[6]	
㉖	Guide roller φ16	1	
㉗	φ5×25 Hexagon head tapping screw	2	For guide roller
㉗	M5×12 Hexagon head screw	2	
㉘	Fischer plug 6x30	2	



**For steel doors, incline type**  
**Door weight : 10-30kg/30-80kg**

# DSC-C03/C08

## 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.

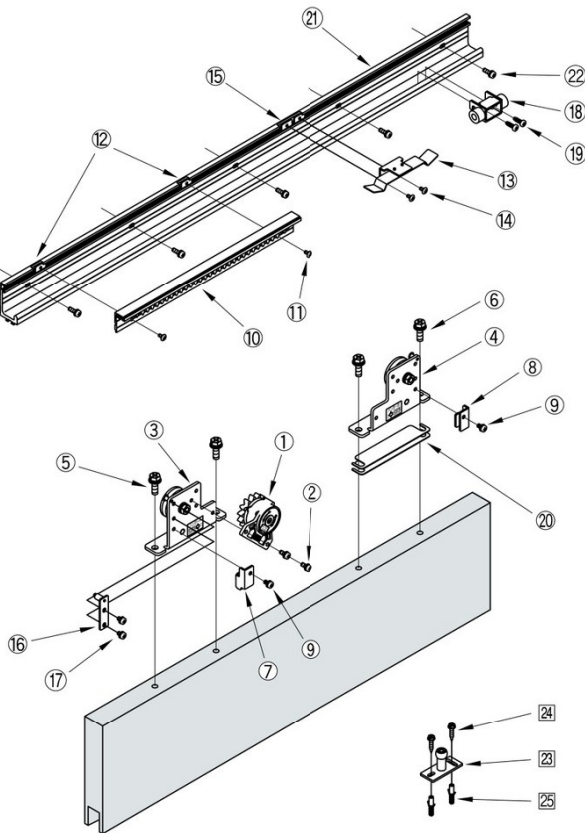


right and left handed opening

## Specifications

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 900mm)			
Initial opening force [N]		2.5 (Door weight 10kg), 5.4(Door weight 30kg)		5.4 (Door weight 30kg), 12.5 (Door weight 80kg)	
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[1]	
㉓	φ5×30 truss head tapping screw	8[1]	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	

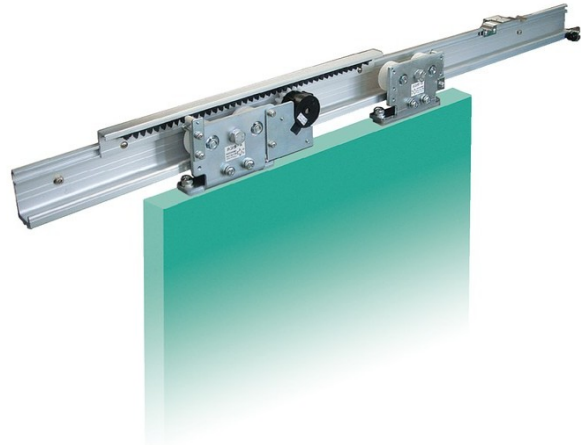
\*4 types, φ16, 25, 30, 35

For heavy steel doors, incline type  
Door weight : 80-150kg

# DSC-C015

## 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.

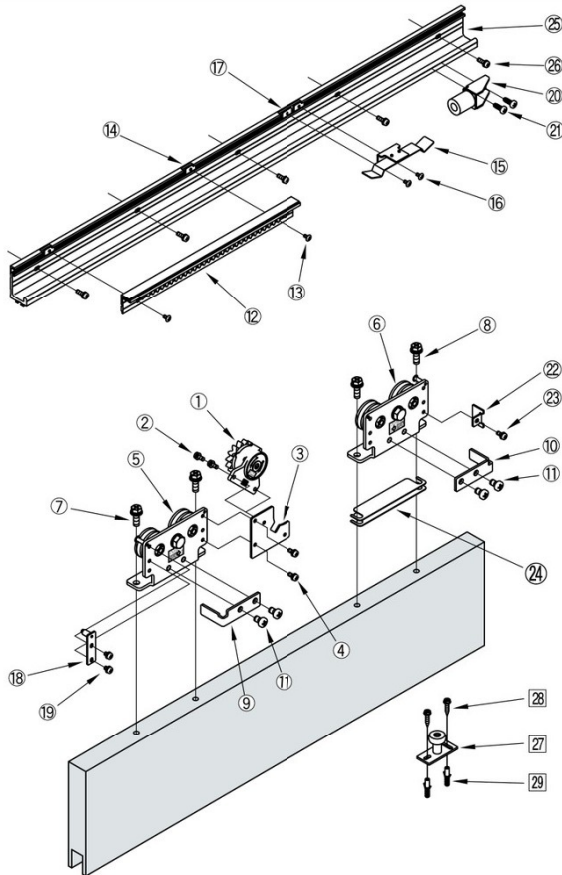


## Specifications

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 900mm)	
Initial opening force [N]		12.5 (Door weight 80kg), 24.0 (Door weight 150kg)	
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	
②	M5×12 pan head screw	2	For control device
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	2	
⑧	M8×30 cross recessed hexagon head bolt	2	
⑨	Door retaining fitting Hanger A	1	Door retention
⑩	Door retaining fitting Hanger B	1	
⑪	M8×12 pan head screw	4	
⑫	Control rack set	1	
⑬	M4×8 truss head screw	2	For control rack set
⑭	Plate nut	2	
⑮	Plate spring	1	For stop device
⑯	M4×8 truss head screw	2	
⑰	Plate nut	2	
⑱	Stop roller	1	For door stopper
⑲	M5×8 pan head screw	2	
⑳	Door stopper	1	
㉑	φ6×19 Pan head drilling screw	2	For door stopper
㉒	Door stopper bearing plate	1	
㉓	M5×8 pan head screw	1	
㉔	Height adjusting plate (t=1.0, 0.5)	15+1	
㉕	Rail L=2200[L=3100]	1	For rail
㉖	M5×16 pan head screw	8[11]	
㉗	φ5×30 pan head tapping screw	8[11]	
㉘	Guide roller *	1	For guide roller
㉙	φ5×25 Hexagon head tapping screw	2	
㉚	M5×12 Hexagon head screw	2	
㉛	Fischer plug 6×30	2	

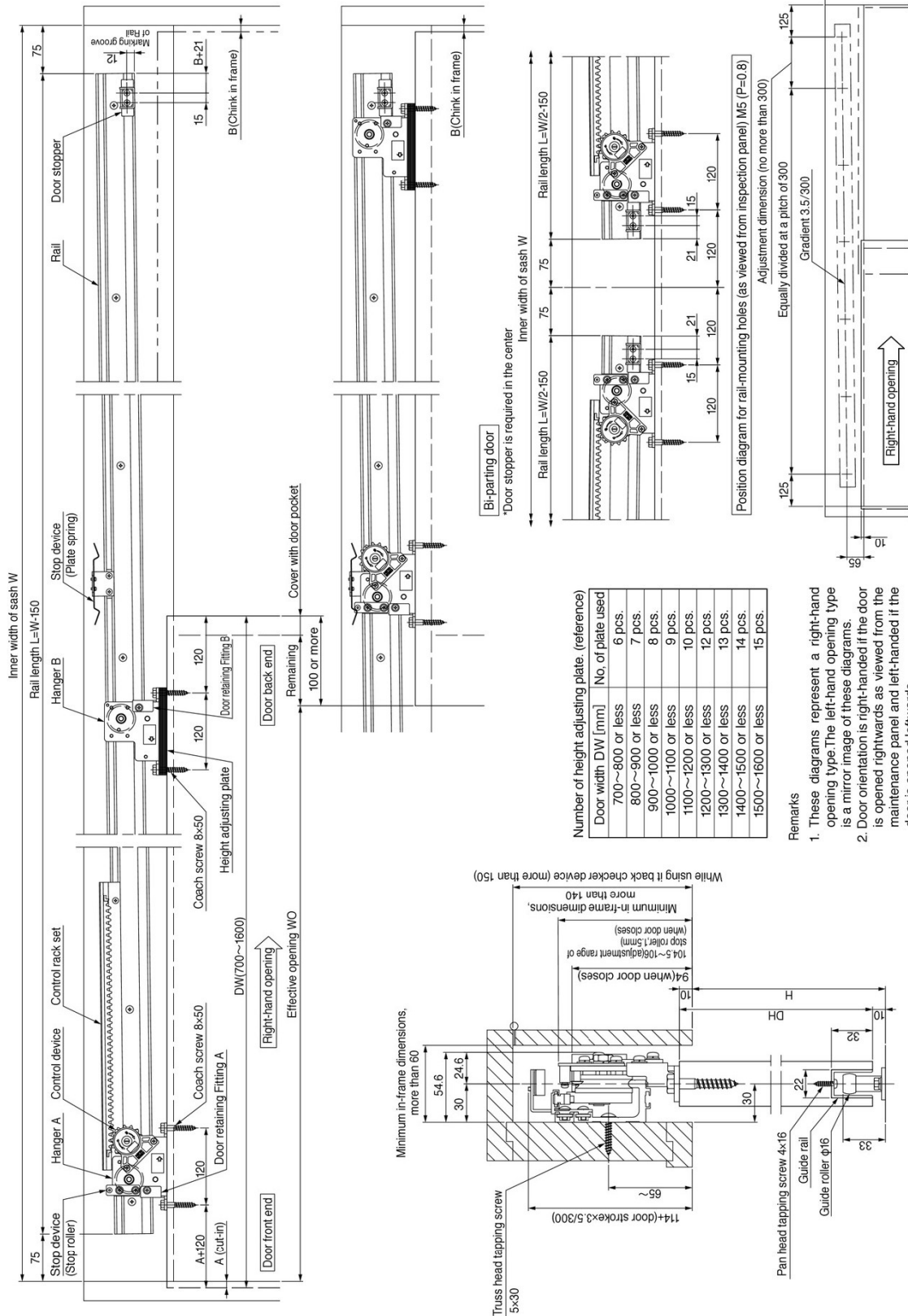
\*4 types, φ16, 25, 30, 35



For wooden doors, incline type  
Installation diagrams

DSC-CW03

DSC-CW03

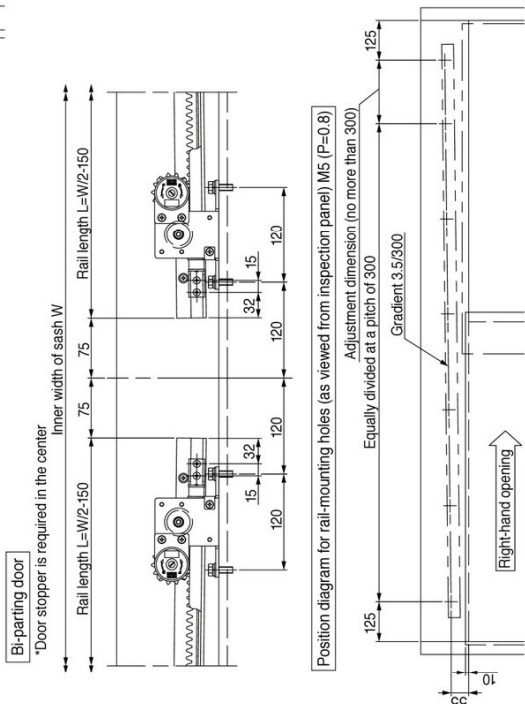
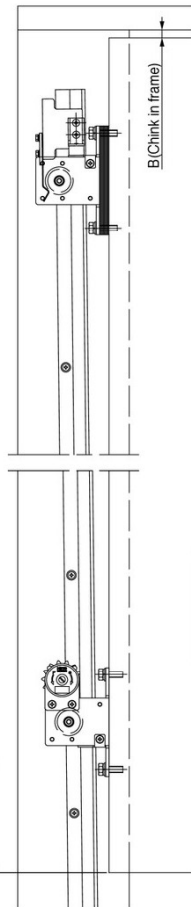
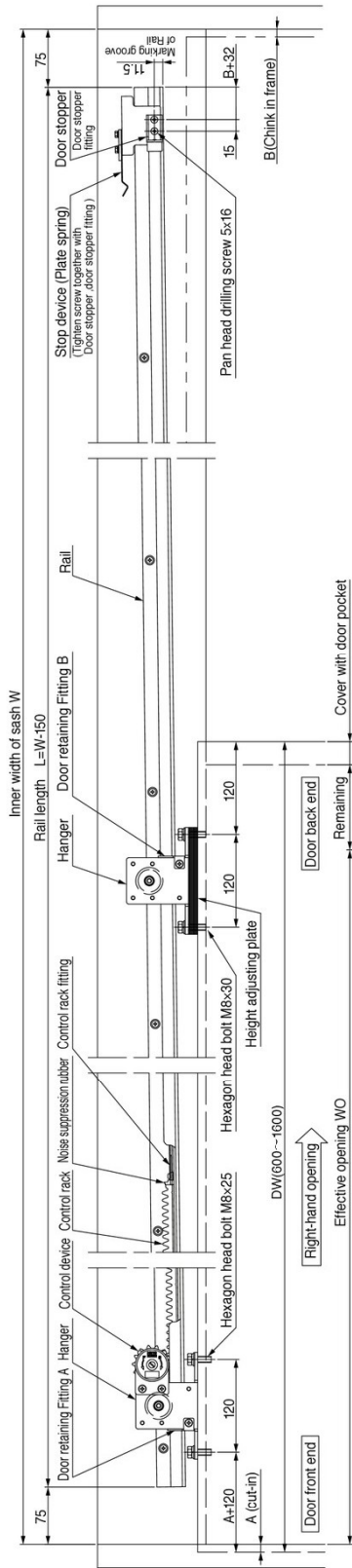




For steel doors, incline type  
Installation diagrams

DSC-C30V/C60V

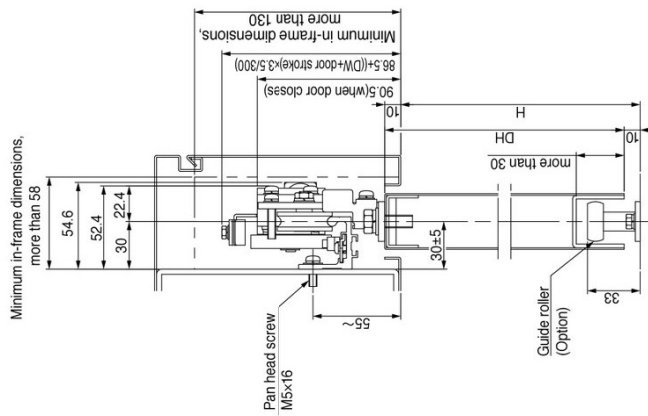
DSC-C30V/C60V



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

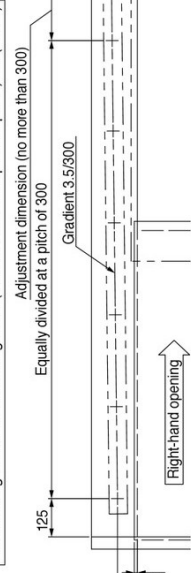
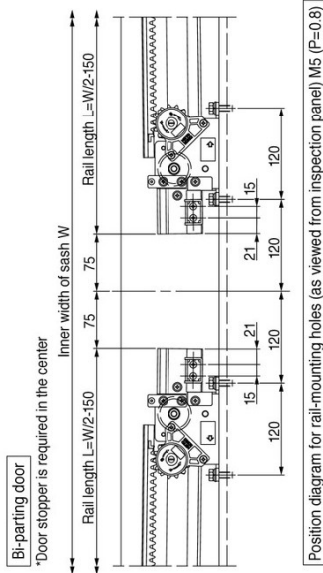
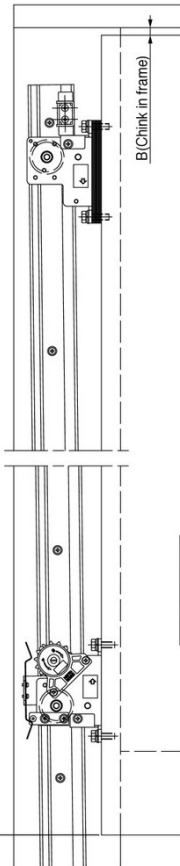
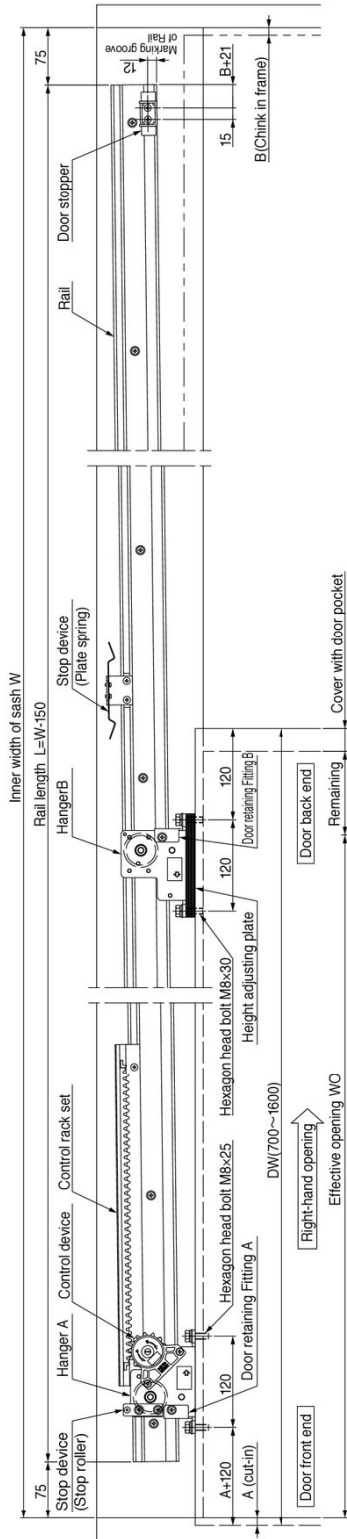
1. These diagrams represent a right-hand opening type. The left-hand opening type is a mirror image of these diagrams.
2. Door orientation right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.



For steel doors, incline type  
Installation diagrams

DSC-C03/C08

DSC-C03/C08

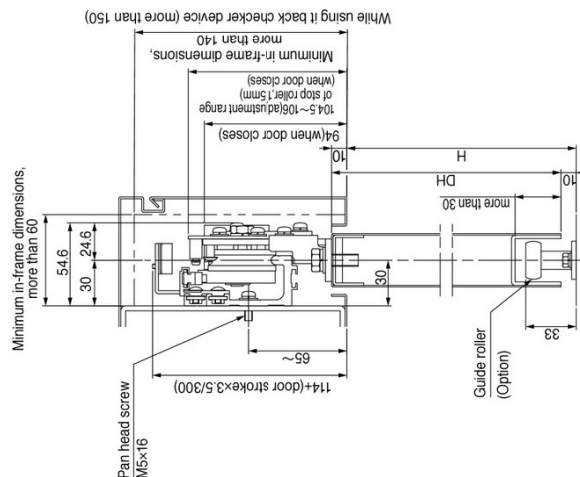


Number of height adjusting plate. (reference)

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

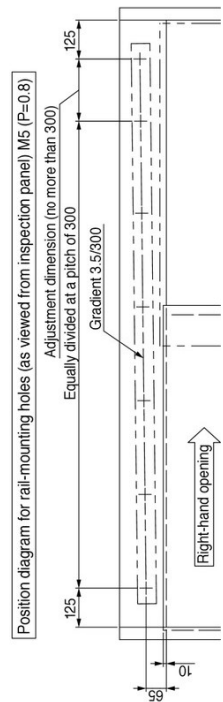
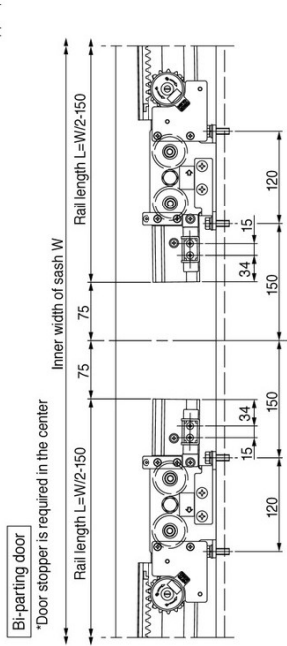
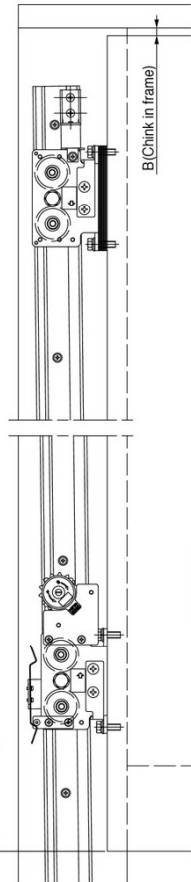
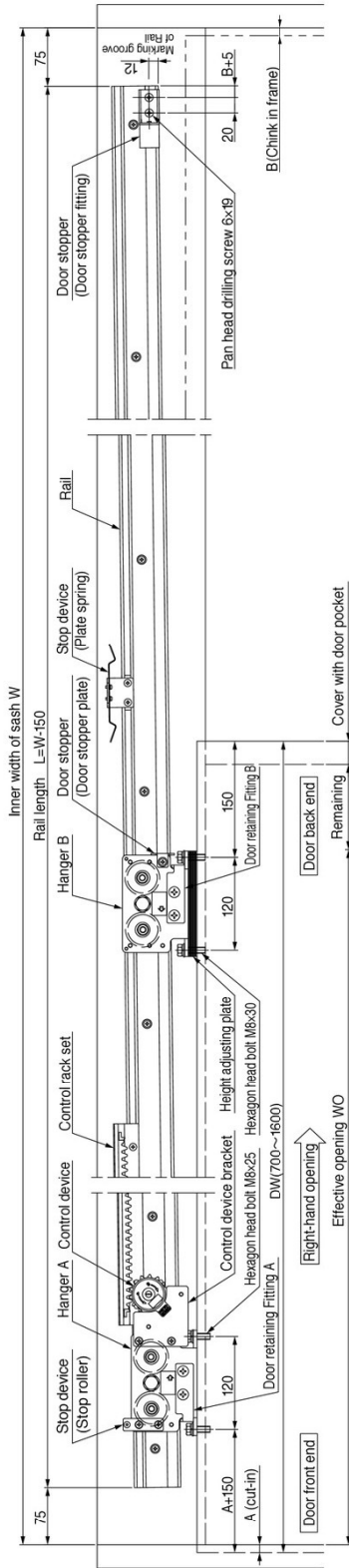
- These diagrams represent a right-hand opening type. The left-hand opening type is a mirror image of these diagrams.
- Door orientation is right-handed if the door is opened rightwards as viewed from the maintenance panel and left-handed if the door is opened leftwards.



**For heavy steel doors, incline type  
Installation diagrams**

**DSC-C015**

**DSC-C015**

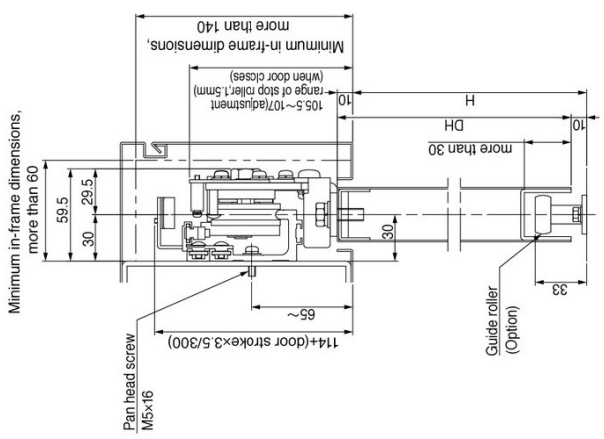


Number of height adjusting plate. (reference)

Door width DW [mm]	No. of plate used
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

- 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.





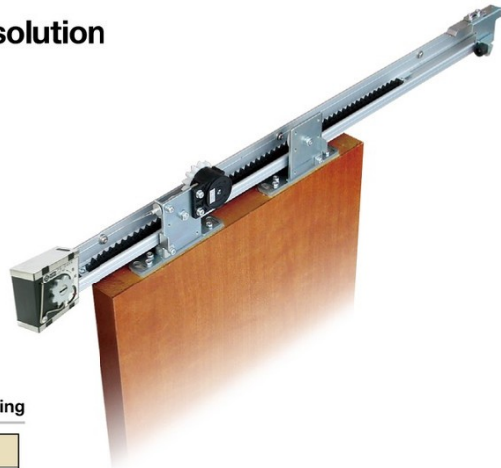
For wooden doors, horizontal type  
Door weight : 10-60kg

# NSC-CW60V

**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.

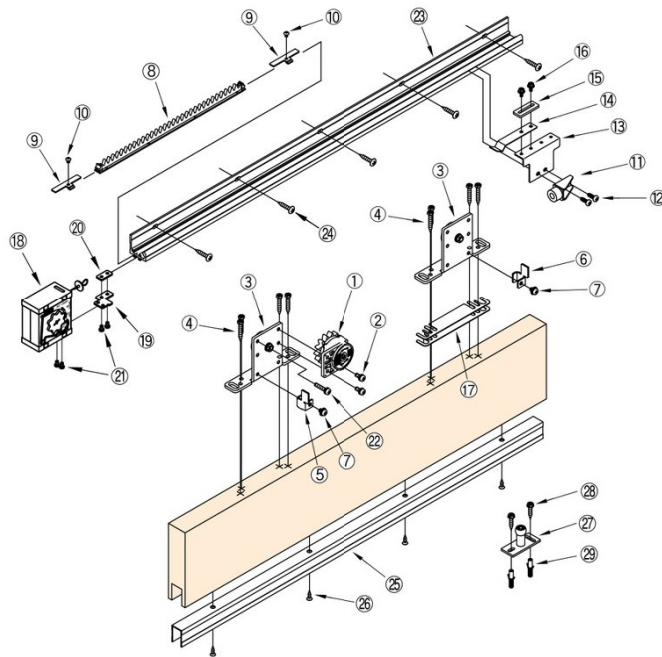


### Specifications

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 900mm)	
Initial opening force [N]		6.5 (Door weight 10kg), 8.9 (Door weight 60kg)	
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	M5x12 pan head screw	2	For control device
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	M5x8 pan head screw	2	For control rack
⑧	Control rack	1	
⑨	Control rack fitting	2	For control rack
⑩	M4x5 hexagon socket button head screw	2	
⑪	Door stopper	1	For stop device
⑫	5x16 pan head drilling screw	2	
⑬	Plate spring bracket	1	For door stopper
⑭	Plate spring	1	
⑮	Stop force adjusting plate	1	For door stopper
⑯	Height adjusting plate (t = 1.0)	4	
⑰	Pull spring	1	For pull spring
⑱	Pull spring bracket	1	
⑲	Plate nut	1	For pull spring
⑳	M4x6 pan head screw	4	
㉑	M5x25 pan head screw	1	For rail
㉒	Rail L = 2200 [L = 3100]	1	
㉓	φ5x30 truss head tapping screw	8[11]	For rail
㉔	Guide rail L = 1300 [L = 1600]	1	
㉕	φ4x16 countersunk head tapping screw	4[5]	For guide rail
㉖	φ16 Guide roller	1	
㉗	φ5x25 Hexagon head tapping screw	2	For guide roller
㉘	M5x12 Hexagon head screw	2	
㉙	Fischer plug 6x30	2	

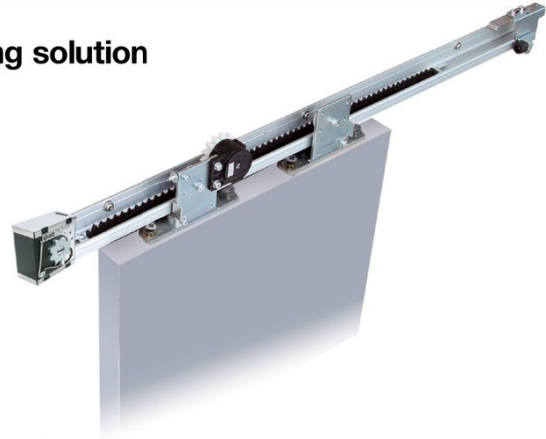
For steel doors, horizontal type  
Door weight : 10-60kg

## 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.

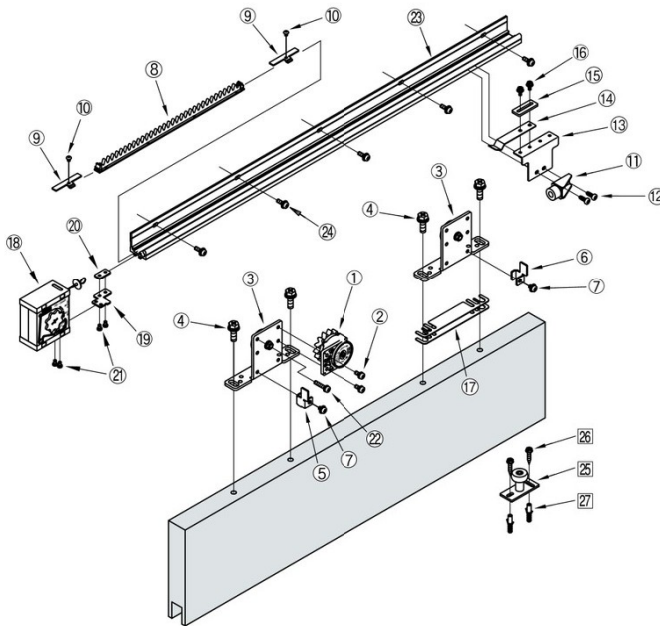


### Specifications

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 900mm)	
Initial opening force [N]		6.5 (Door weight 10kg), 8.9 (Door weight 60kg)	
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	M8×25 cross recessed hexagon head screw	4	
⑤	Door retaining fitting Hanger L	1	
⑥	Door retaining fitting Hanger R	1	Door retention
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	For stop device
⑫	5x16 pan head drilling screw	2	
⑬	Plate spring bracket	1	
⑭	Plate spring	1	For door stopper
⑮	Stop force adjusting plate	1	
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	

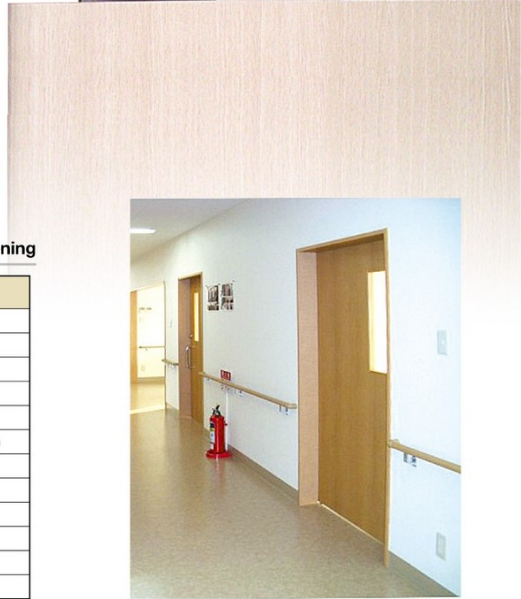
\*4 types, φ5, φ25, φ30, φ35

For wooden doors, horizontal type  
 Door weight : 10-30kg

# NSC-CW23

## 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.

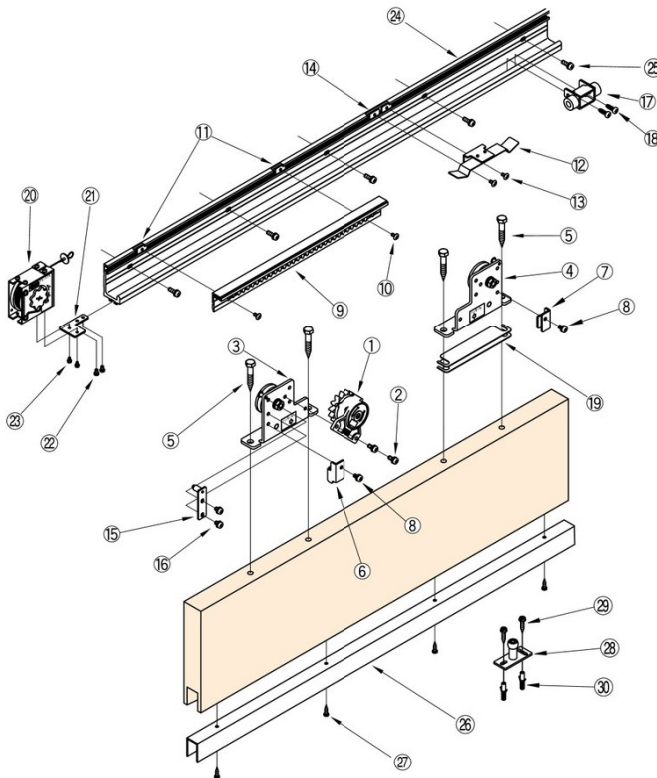


## Specifications

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 900mm)	
Initial opening force [N]		3.5 (Door weight 10kg), 4.6 (Door weight 30kg)	
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	
④	Hanger B	1	For hanger
⑤	φ8X50 hexagon coach screw	4	
⑥	Door retaining fitting Hanger A	1	
⑦	Door retaining fitting Hanger B	1	Door retention
⑧	M5×8 pan head screw	2	
⑨	Control rack set	1	
⑩	M4×8 truss head screw	2	For control rack
⑪	Plate nut	2	
⑫	Plate spring	1	
⑬	M4X8 truss head screw	2	
⑭	Plate nut	2	For stop device
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	
㉕	M5×16 pan head screw	8[11]	For rail
㉖	φ5×30 truss head tapping screw	8[11]	
㉗	Guide rail L = 1300 [L = 1600]	1	For guide rail
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	

For wooden doors, horizontal type

Door weight : 30-80kg

# NSC-CW48

## 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.



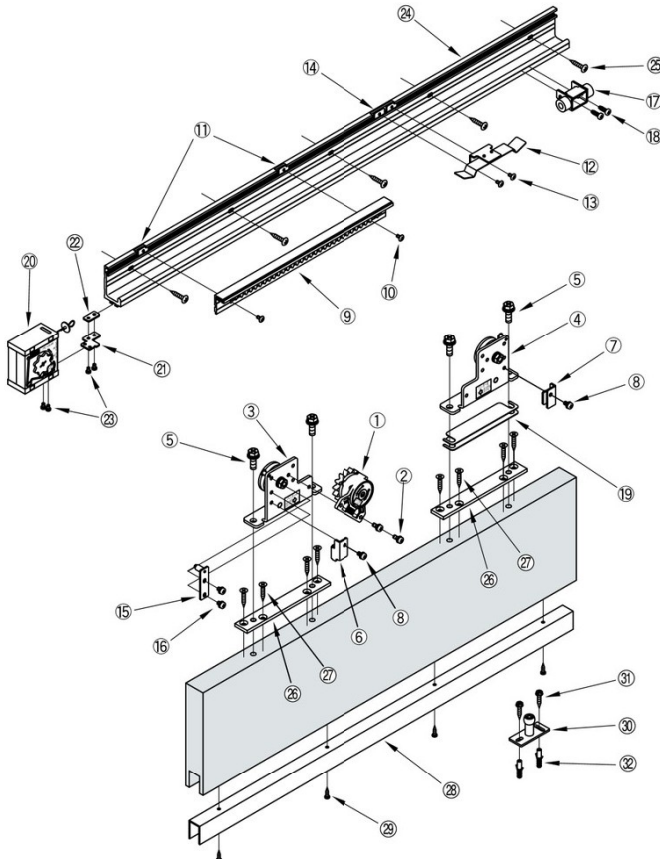
## Specifications

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 900mm)	
Initial opening force [N]		6.6 (Door weight 30kg), 9.2 (Door weight 80kg)	
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	
⑥	Door retaining fitting Hanger A	1	Door retention
⑦	Door retaining fitting Hanger B	1	
⑧	M5×8 pan head screw	2	
⑨	Control rack set	1	
⑩	M4×8 truss head screw	2	For control rack
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	For pull spring
㉒	Plate nut	1	
㉓	M4×6 pan head screw	4	
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]	
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	

For steel doors, horizontal type  
 Door weight : 10-80kg

# NSC-C48

## 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.



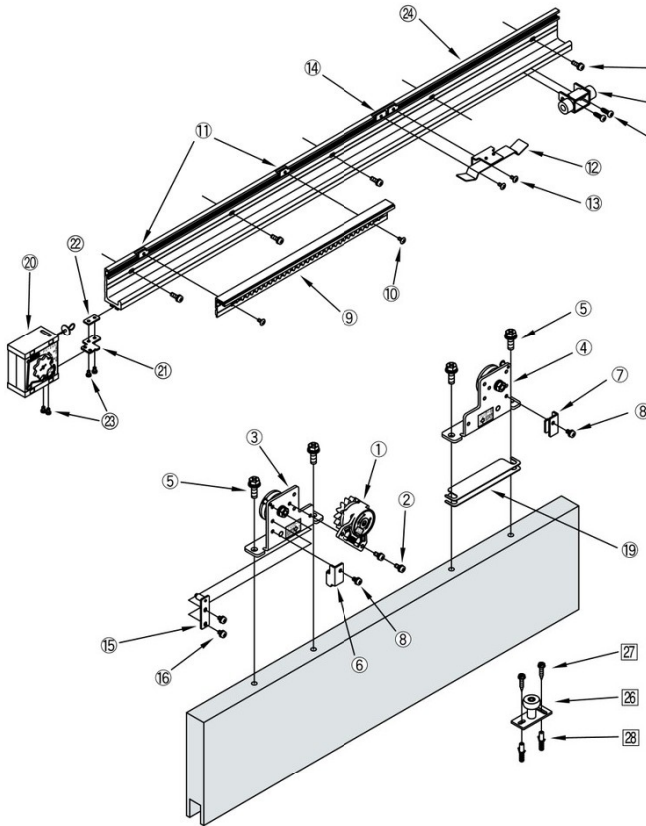
## Specifications

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 900mm)	
Initial opening force [N]		5.5 (Door weight 10kg), 9.2 (Door weight 80kg)	
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	
⑥	Door retaining fitting Hanger A	1	Door retention
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	For stop device
⑫	Plate spring	1	
⑬	M4×8 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	φ5×16 pan head tapping screw	2	
⑲	Height adjusting plate (t = 1.0)	4	
⑳	Pull spring	1	For pull spring
㉑	Pull spring bracket	1	
㉒	Plate nut	1	For rail
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

For steel doors, horizontal type, for bathrooms

Door weight : 10-80kg

# NSC-CB48

## 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.

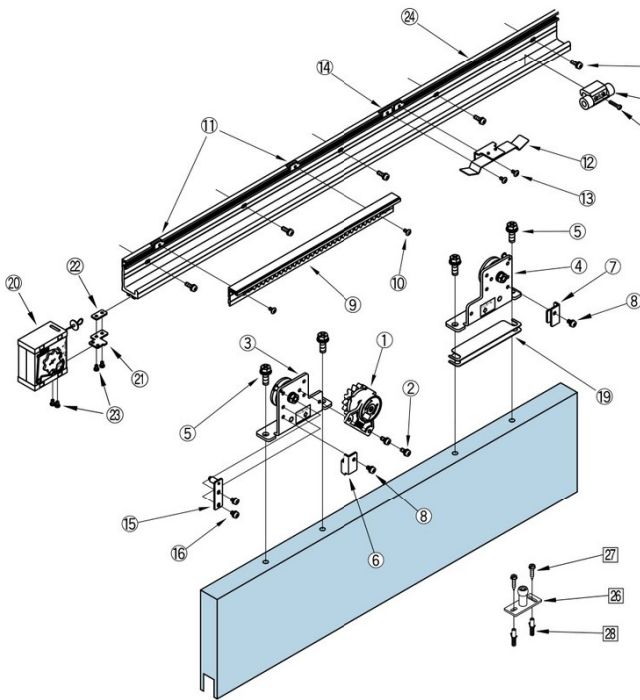


## Specifications

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 900mm)	
Initial opening force [N]		5.5 (Door weight 10kg), 9.2 (Door weight 80kg)	
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	
④	Hanger B	1	For hanger
⑤	M8×25 cross recessed hexagon head bolt	4	
⑥	Door retaining fitting Hanger A	1	
⑦	Door retaining fitting Hanger B	1	Door retention
⑧	M5×8 pan head screw	2	
⑨	Control rack set	1	
⑩	M4×8 truss head screw	2	For control rack
⑪	Plate nut	2	
⑫	Plate spring	1	
⑬	M4×8 truss head screw	2	
⑭	Plate nut	2	For stop device
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	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	
㉘	φ5×25 Hexagon head tapping screw	2	For guide roller (Option)
㉙	M5×12 Hexagon head screw	2	
㉚	Fischer plug 6×30	2	

\*4 types, φ16, φ25, φ30, φ35

## •High Corrosion proof evaluation

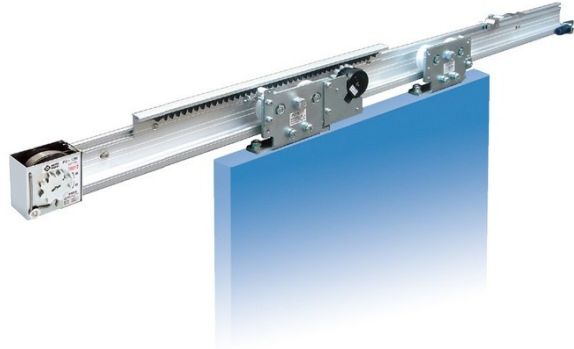
	Appearance of control device and hanger	Appearance of pull spring	
NSC-CB type			Rust becomes a problem when these products are used in bathrooms. The use stainless steel makes these products dramatically more corrosion proof.  <b>Test method : CASS test (JIS H 8502)</b> This test evaluates corrosion 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 x 3 times(144 hours in total)
Our standard product			

For heavy steel doors, horizontal type  
Door weight : 80-150kg

# NSC-C1215

## 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.

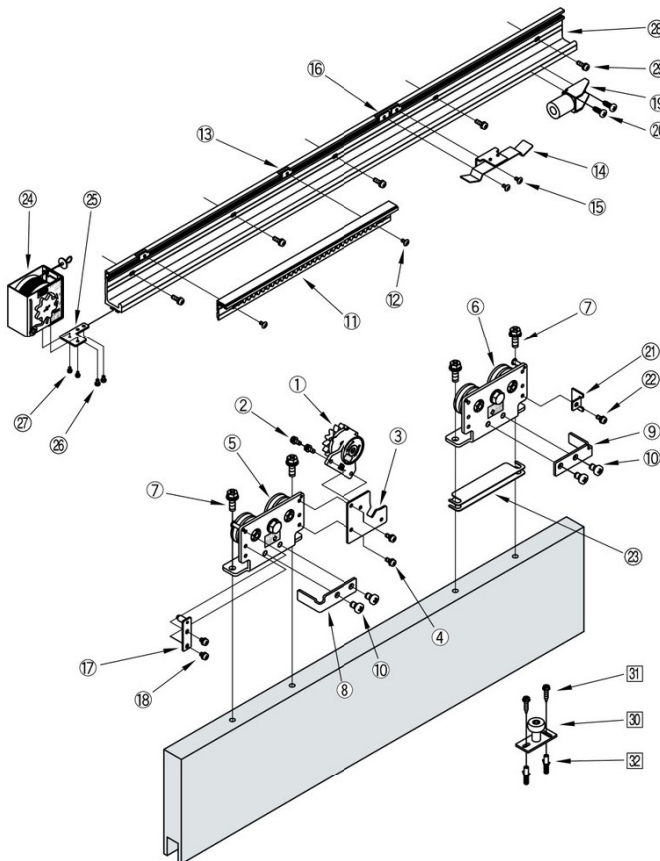


## Specifications

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 900mm)	
Initial opening force [N]		15.5 (Door weight 80kg), 19.2 (Door weight 150kg)	
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	Door retention
⑧	Door retaining fitting Hanger A	1	
⑨	Door retaining fitting Hanger B	1	For control rack
⑩	M8×12 pan head screw	4	
⑪	Control rack set	1	For door stopper
⑫	M4×8 truss head screw	2	
⑬	Plate nut	2	For stop device
⑭	Plate spring	1	
⑮	M4×8 truss head screw	2	For pull spring
⑯	Plate nut	2	
⑰	Stop roller	1	For rail
⑱	M5×8 pan head screw	2	
⑲	Door stopper	1	For guide roller (Option)
⑳	φ6×19 Pan head drilling screw	2	
㉑	Door stopper bearing plate	1	For rail
㉒	M5×8 pan head screw	1	
㉓	Height adjusting plate (t = 1.0)	4	For pull spring
㉔	Pull spring	1	
㉕	Pull spring bracket	1	For rail
㉖	M4×5 pan head screw	2	
㉗	M3×8 pan head screw	2	For guide roller (Option)
㉘	Rail L = 2200 [L = 3100]	1	
㉙	M5×16 pan head screw	8[11]	For rail
㉚	φ5×30 truss head tapping screw	8[11]	
㉛	φ16 Guide roller *	1	For guide roller (Option)
㉜	φ5×25 Hexagon head tapping screw	2	
㉝	M5×12 Hexagon head screw	2	For rail
㉞	Fischer plug 6×30	2	

\*4 types,φ16, φ25, φ30, φ35

For very heavy steel doors, horizontal type  
 Door weight : 150-250kg

# NSC-C2525

## 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.
- 155mm(H) x 75mm(D) required space in frame - Compact and slim design offers space-saving ideas and cost efficiency.

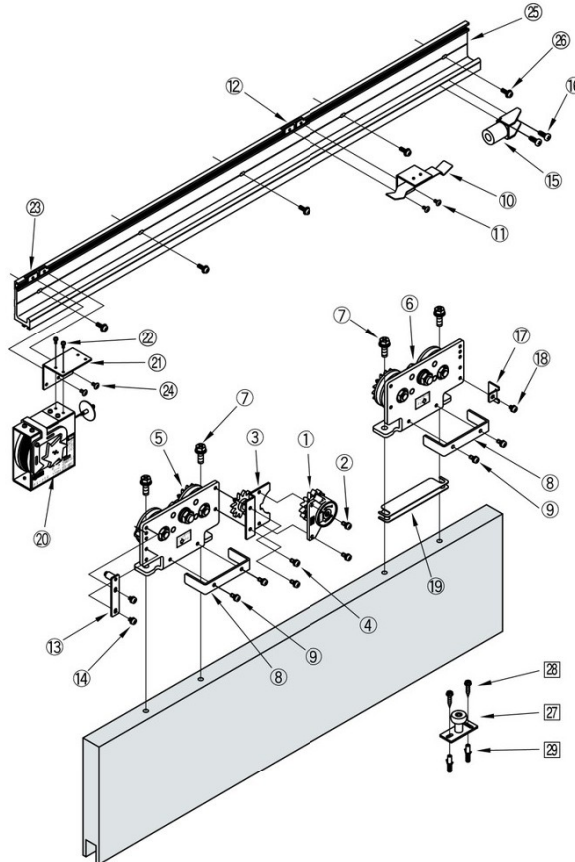


## Specifications

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 900mm)	
Initial opening force [N]		31.4 (Door weight 150kg), 36.5 (Door weight 250kg)	
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	
④	M5×12 pan head screw	2	
⑤	Hanger A	1	For hanger
⑥	Hanger B	1	
⑦	M8×25 hexagon head bolt	4	Door retention
⑧	Door retaining fitting Hanger	2	
⑨	M5×12 pan head screw	4	For stop device
⑩	Plate spring	1	
⑪	M4×8 truss head screw	2	
⑫	Plate nut	2	
⑬	Stop roller	1	For door stopper
⑭	M5×8 pan head screw	2	
⑮	Door stopper	1	
⑯	Door stopper bearing plate	1	
⑰	M5×8 pan head screw	1	For pull spring
⑱	Height adjusting plate (t = 1.0)	4	
⑳	Pull spring	1	
㉑	Pull spring bracket	1	
㉒	M3×8 pan head screw	2	For rail
㉓	Plate nut	2	
㉔	M4×8 pan head screw	2	For rail
㉕	Rail L = 3100 [L = 4900]	1	
㉖	M5×16 pan head screw	11[17]	For rail
㉗	Guide roller *	1	
㉘	φ5×25 Hexagon head tapping screw	2	For guide roller (Option)
㉙	M5×12 Hexagon head screw	2	
㉚	Fischer plug 6X30	2	

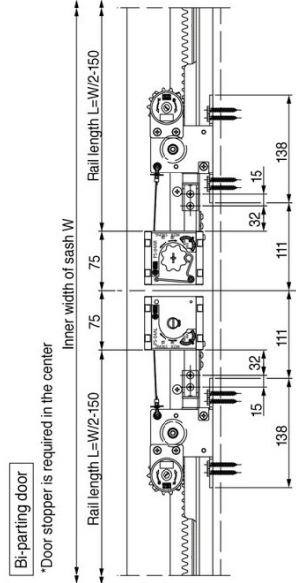
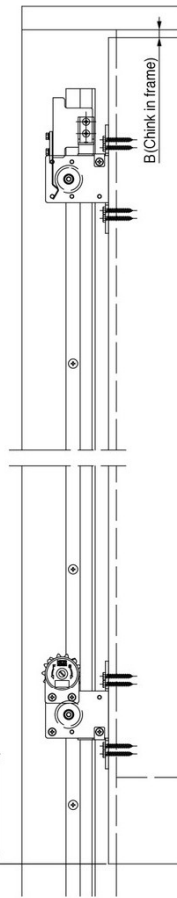
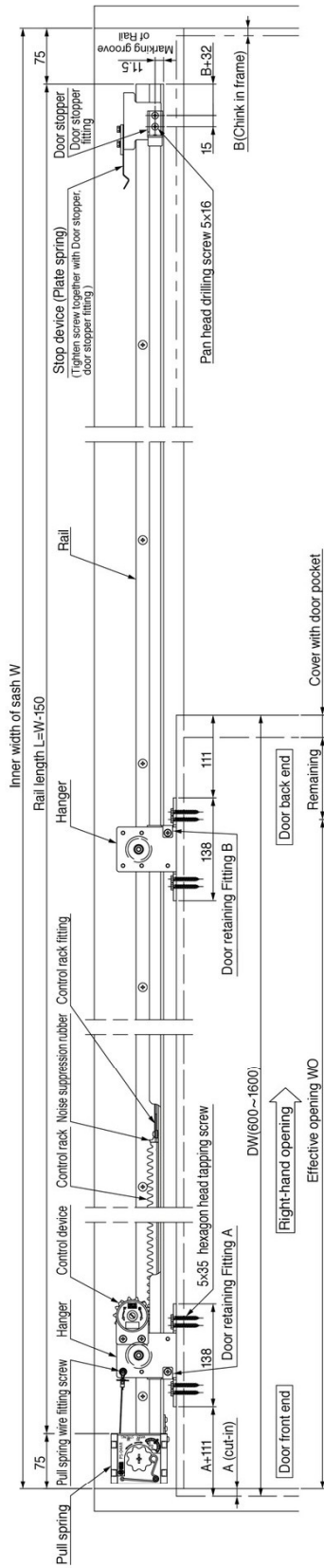
\*4 types, φ16, φ25, φ30, φ35



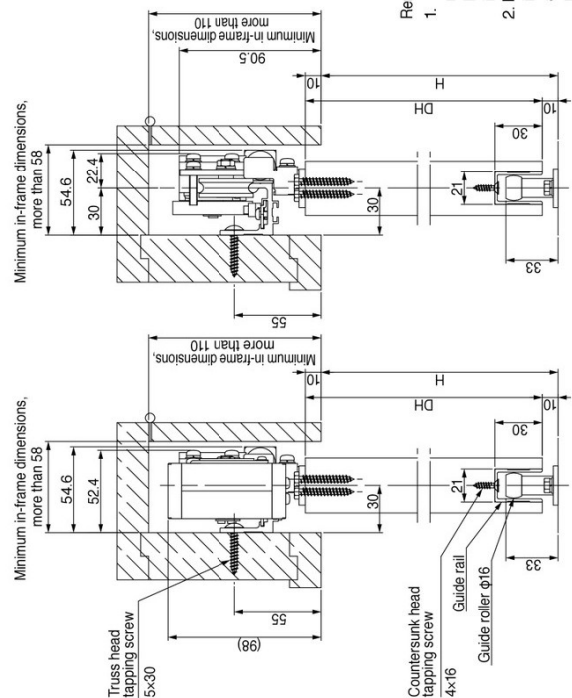
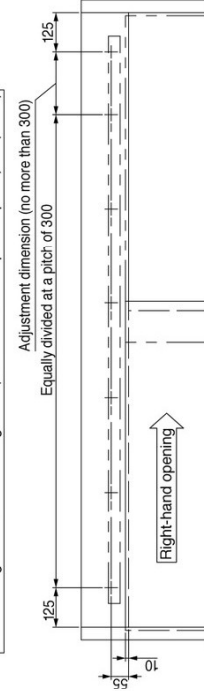
For wooden doors, horizontal type  
Installation diagrams

NSC-CW60V

NSC-CW60V



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



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.