

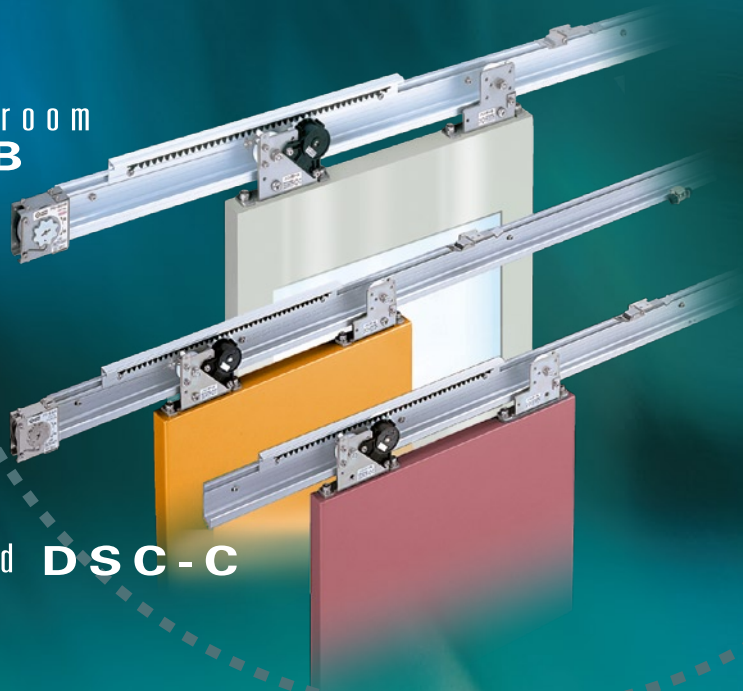
New-generation sliding door closers developed with user-friendly technologies.

NITTO KOHKI Sliding Closer

Horizontal For bathroom
NSC-CB

Horizontal **NSC-C**

Inclined **DSC-C**

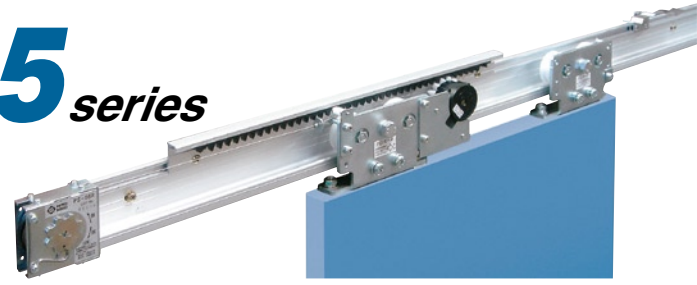


We propose a new style of door opening/closing.



For steel lightweight fittings, horizontal,
with door weights of 80~150kg

NSC-C1215 series



Reliable, Cost Effective, Sliding Doors Closers – Simple to Use & Install

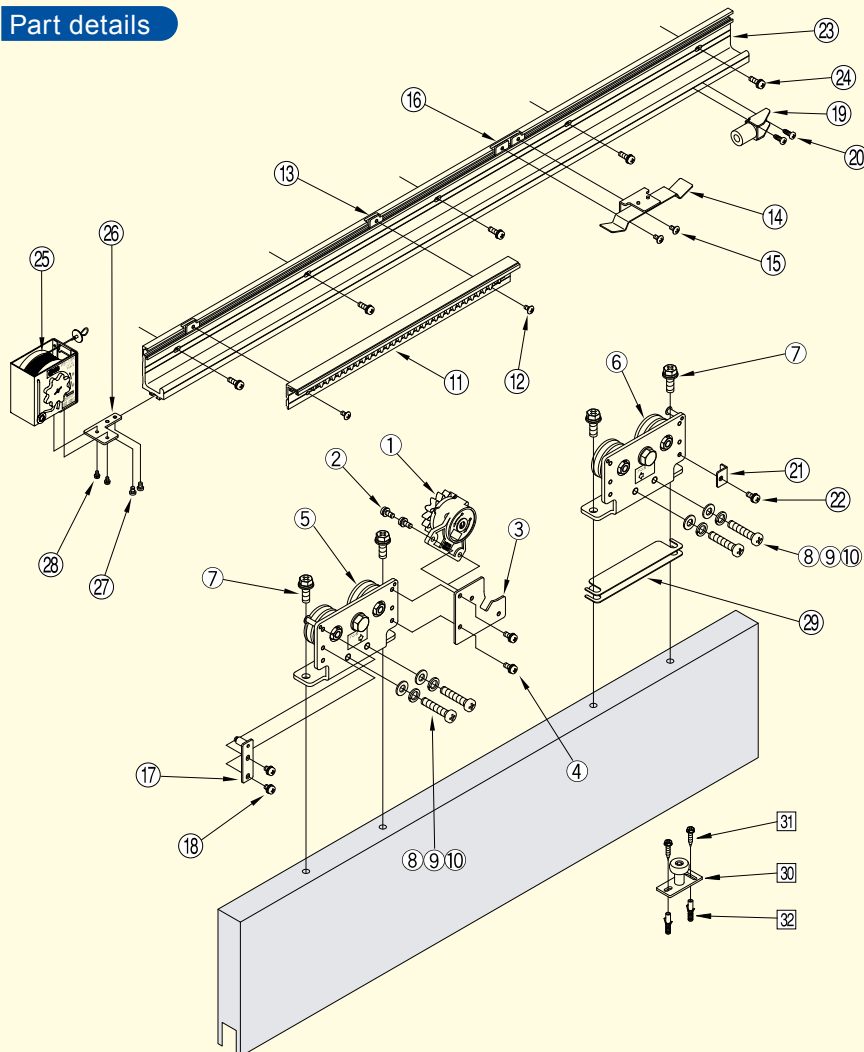
Features

- A standardized set of parts required for horizontal steel lightweight fitting types. (The product comes standard with a stop device, and other equipment.)
- An endless fluid friction resistance system ensures a long life.
- The product can be converted to the right- and left-handed opening types by simple operation.
- It is easy to install with a single screwdriver.

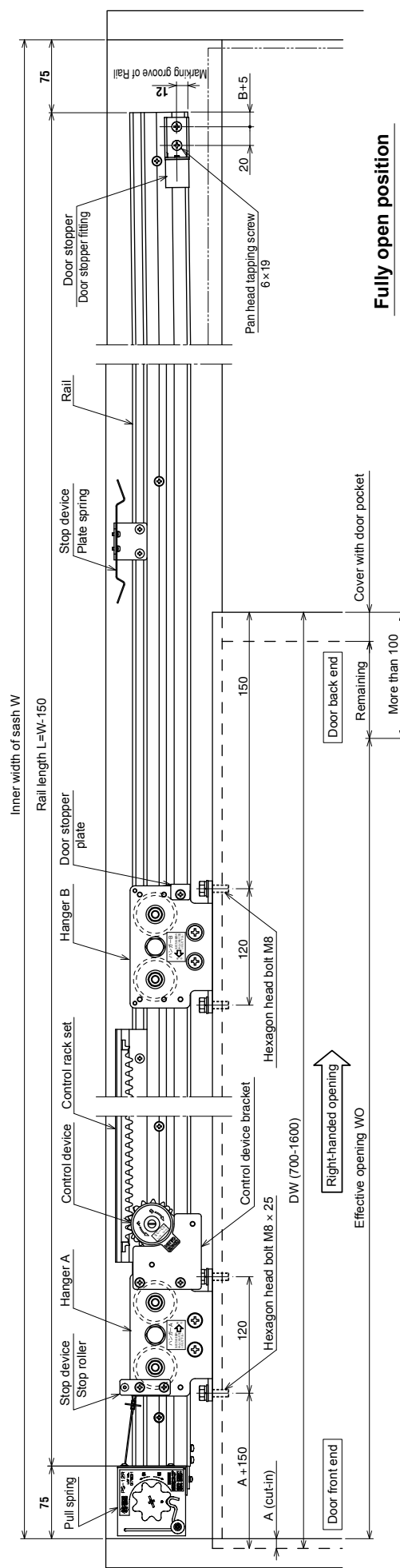
Specifications

Model		Horizontal type	
		NSC-C1215-22	NSC-C1215-31
Applicable doors	Weight (kg)	80~150	
	Width (mm)	700~1200	1200~1600
Max. stroke (mm)		1500	
Closing drive system		Spiral spring type	
Controlling system		Fluid friction resistance type	
Controlling time		7~11seconds (with a door-opening distance of 900mm)	
Initial opening force (N)		13.8~19.6	
Durability		More than 1 million open/close operations	
Pull spring		PS-12	
Rail length (m)		2.2	3.1

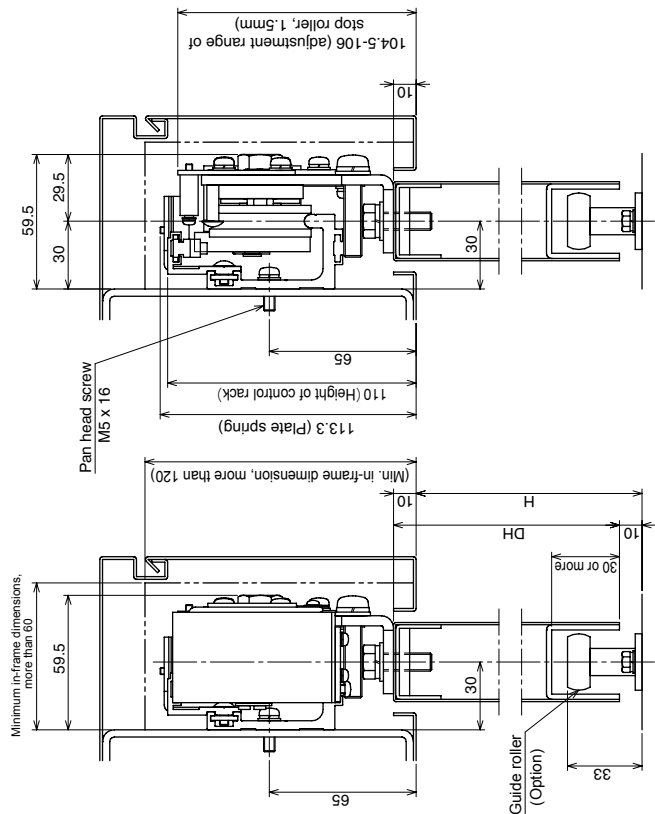
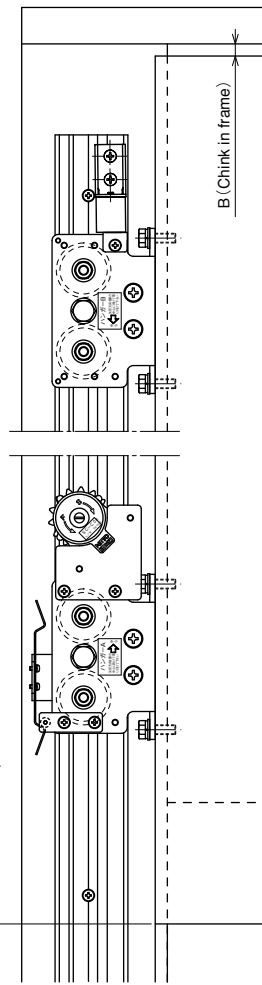
Part details



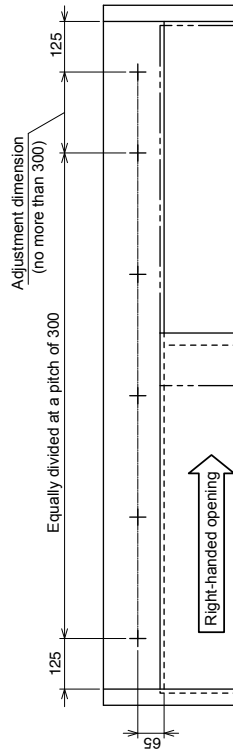
No.	Part	Q'ty	Remark
①	Control device	1	For control device
②	M5×12 pan head screw	2	
③	Control device bracket	1	
④	M5×12 pan head screw	2	
⑤	HangerA	1	For hanger
⑥	HangerB	1	
⑦	M8×25 hexagon head bolt	4	For door retention
⑧	M8×40 pan head screw	4	
⑨	Spring washer M8	4	
⑩	Plean washer M8	4	
⑪	Control rack set	1	For control rack set
⑫	M4×8 truss screw	2	
⑬	Plate nut	2	For stop device
⑭	Plate spring	1	
⑮	M4×8 truss screw	2	
⑯	Plate nut	2	
⑰	Stop roller	1	For door stopper
⑱	M5×8 pan head screw	2	
⑲	Door stopper fitting	1	
⑳	φ6×19 pan head drill screw	2	
㉑	Door stopper bearing plate	1	For rail
㉒	M5×8 pan head screw	1	
㉓	Rail L=2200 [L=3100]	1	For pull spring
㉔	M5×16 truss screw	8[11]	
㉕	φ5×30 truss tapping screw	8[11]	For guide roller
㉖	Pull spring	1	
㉗	Pull spring fitting	1	Option
㉘	M4×5 pan head screw	2	
㉙	M3×8 pan head screw	2	For guide roller
㉚	Height adjusting plate (t=1.0)	4	
㉛	Guide roller	1	Option
㉜	φ5 × 25 Hexagon tapping screw	2	
㉝	M5 × 12 Hexagon screw	2	Option
㉞	Curly plug	2	



Fully open position



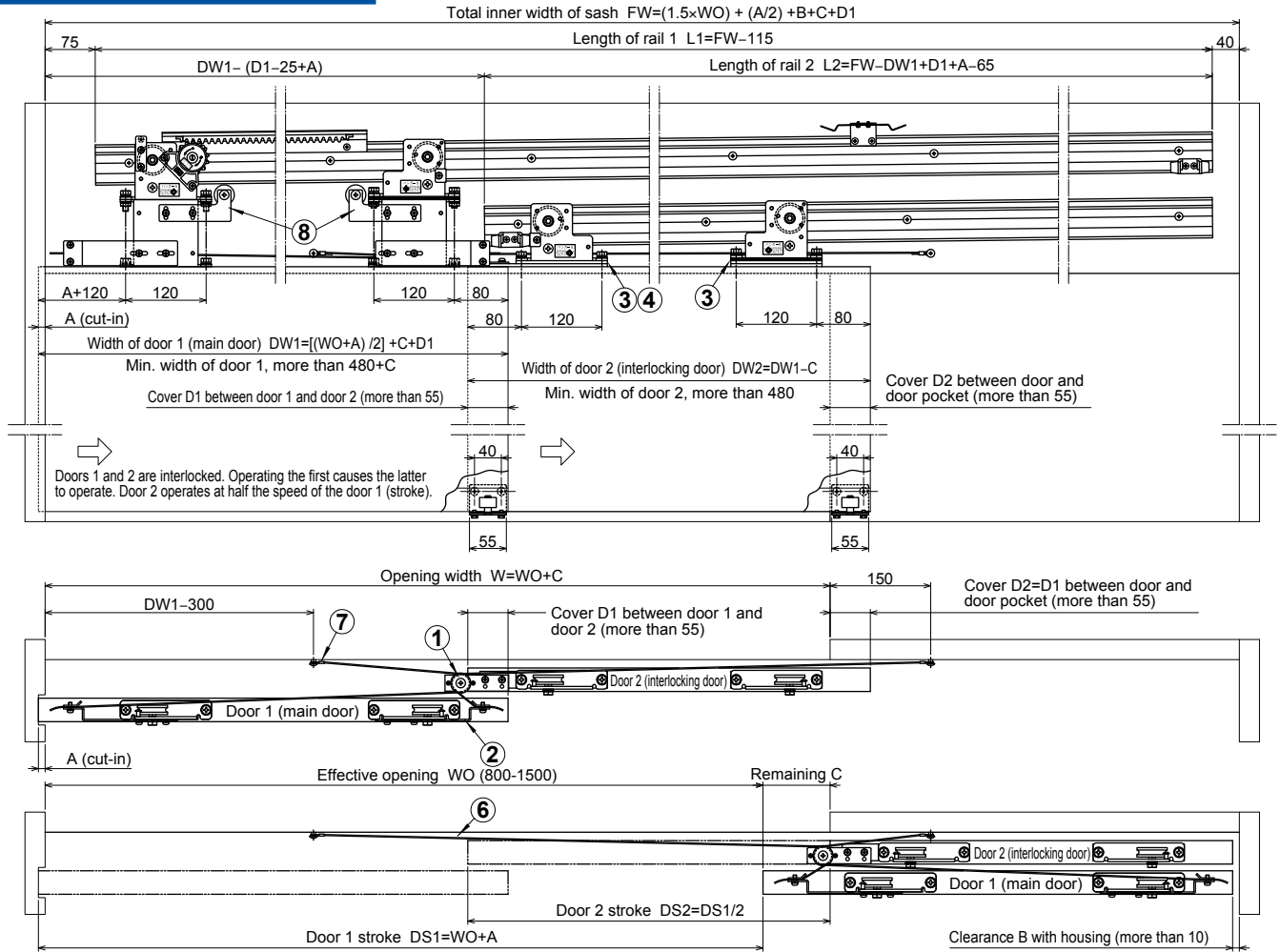
Position diagram for rail-mounting holes (as viewed from inspection panel) M5 (P=0.8)



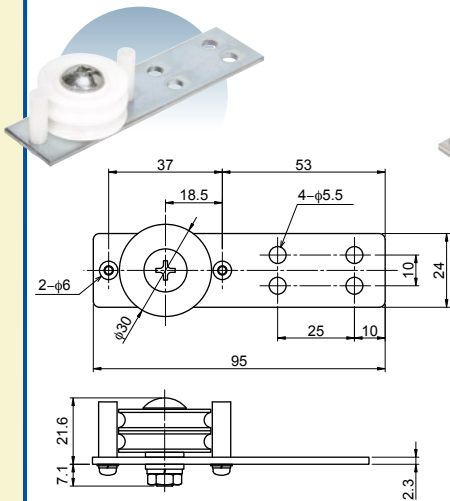
1. These diagrams represent a right-handed opening type. The left-handed opening type is a mirror image of these diagrams.
2. Door orientation is right-handed if the door is opened rightwards as viewed from the inspection panel, and left-handed if the door is opened leftwards.

Option Single action Double sliding system, SC-2S

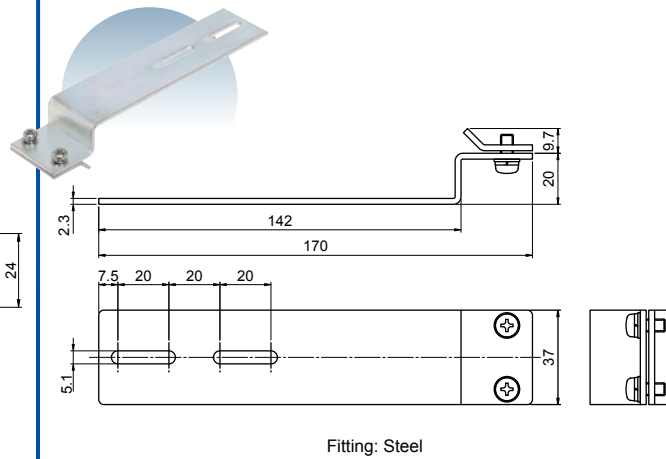
Installation diagrams



1 Pulley fitting



2 Wire fitting



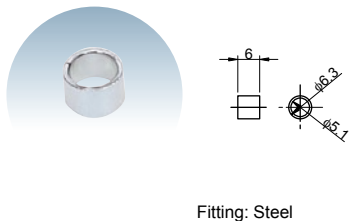
3 Liner S



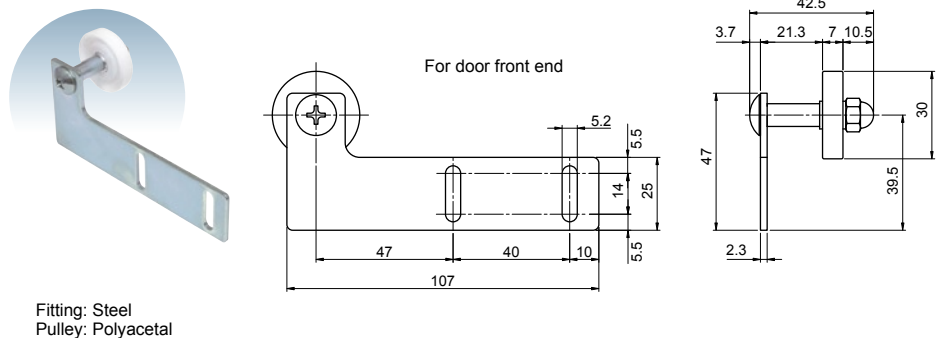
4 Liner L



7 Wire fastener on frame



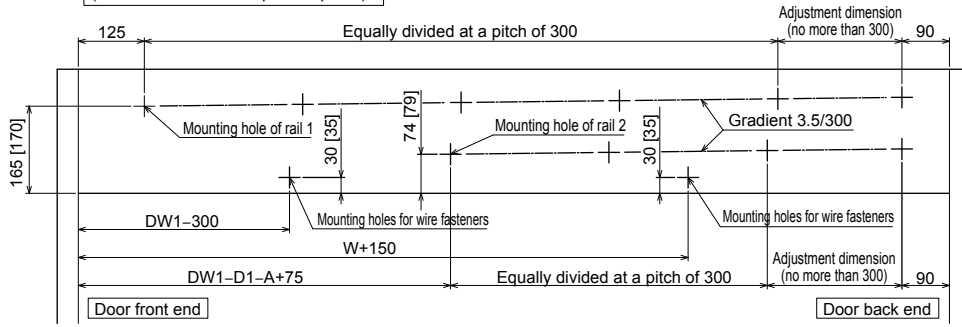
8 Rebound-preventive fitting



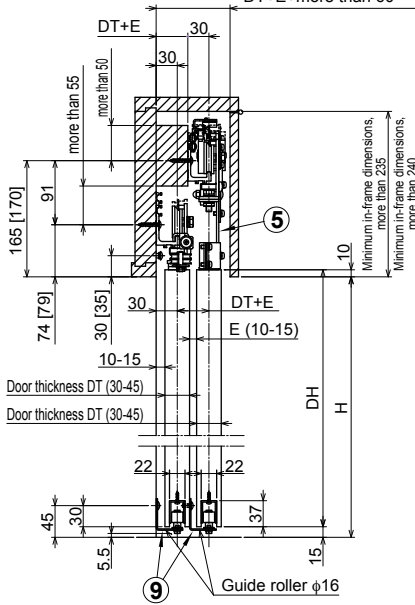
Single action Double sliding system, SC-2S

Position diagram of holes on the frame (as viewed from the inspection panel)

*When handling a steel frame, tap M5 holes (P = 0.8).



Minimum in-frame dimensions, DT+E+more than 60



Formulae for calculating main dimensions

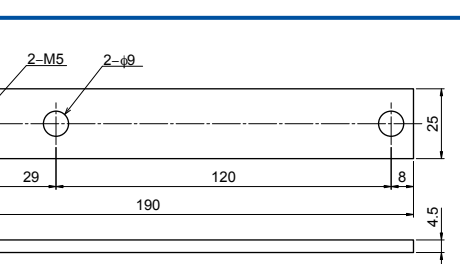
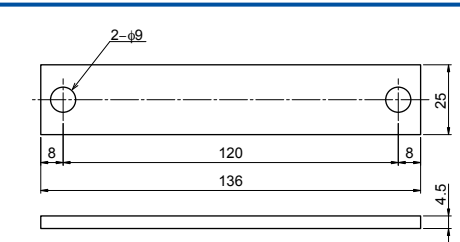
Item	Code	Formula
Effective opening	WO	Specify (800-1,500)
Cut-in of door front end	A	Specify
Clearance between housing and door when door is open	B	Specify (more than 10)
Remaining	C	Specify
Cover between doors 1 and 2	D1	Specify (more than 55)
Cover between door 2 and door pocket	D2	D2=D1 (more than 55)
Width of door 1	DW1	$\frac{WO+A}{2} + C + D1$
Width of door 2	DW2	DW1-C (more than 480)
Opening width	W	WO+C
Inner width of sash	FW	$(1.5 \times WO) + \frac{A}{2} + B + C + D1$
Length of rail 1	L1	FW-115
Length of rail 2	L2	FW-DW1+D1+A-65

Constituents of single action Double sliding system

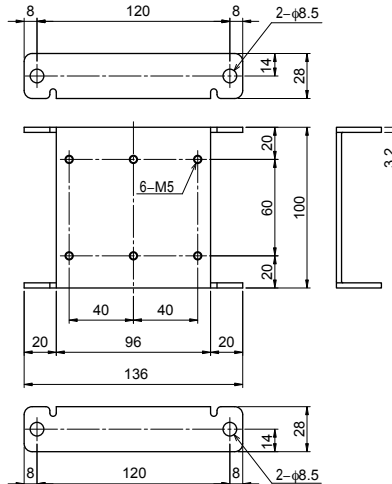
Item	Part	Qty of 1 set	Remark
①	Pulley fitting	1	
②	Wire fastener	2	
③	Liner S	3	
④	Liner L	1	
⑤	Hanger base	2	
⑥	Wire rope	2	
⑦	Wire fastener on frame	2	
⑧	Rebound-preventive fitting	2	1 pc. each for door front end and for door back end
⑨	Guide roller AJ	2	4 types, D = 16, 25, 30, 35
⑩	Hexagon head bolt (M8×25)	4	For installing hanger bracket and hanger
⑪	Hexagon head nut (M8)	4	For installing hanger bracket and hanger
⑫	Flat washer (for M8)	4	For installing hanger bracket and hanger
⑬	Pan head screw (M5×12)	8	Wire fitting, for installing rebound-preventive fitting
⑭	Hexagon head screw (M5×8)	2	For installing pulley fitting
⑮	Truss screw (M5×12)	2	For installing wire fitting on frame
⑯	Truss screw (M5×12 SUS)	2	For installing guide roller

Remarks

- These diagrams represent a right-handed opening type. The left-handed opening type is a mirror image of these diagrams.
- The dimensions in [] are used when the wooden door plate is used (DSC-CW08 and NSC-CW36/48).
- These diagrams show how an inclined DSC is typically installed. The inclined and horizontal types incorporate identical parts.
- This system is required SC-2S, Standard set, Hanger(A,B), Rail and Door stopper.

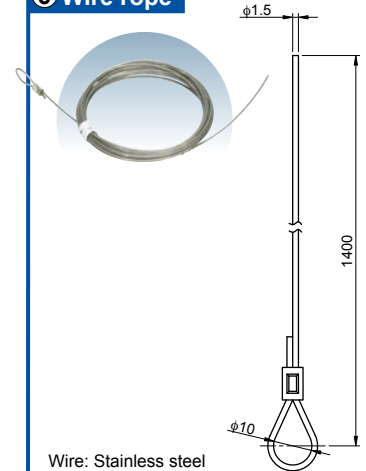


⑤ Hanger base



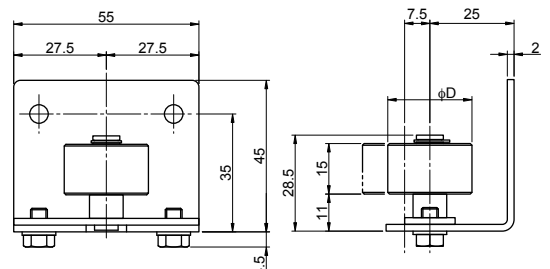
Base: Steel

⑥ Wire rope



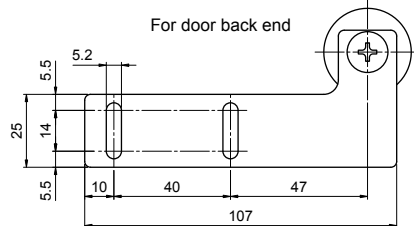
Wire: Stainless steel

⑨ Guide roller AJ



Fitting: Steel
Roller: Polyacetal

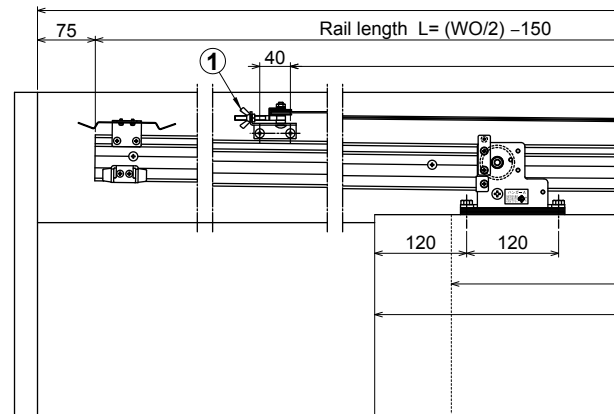
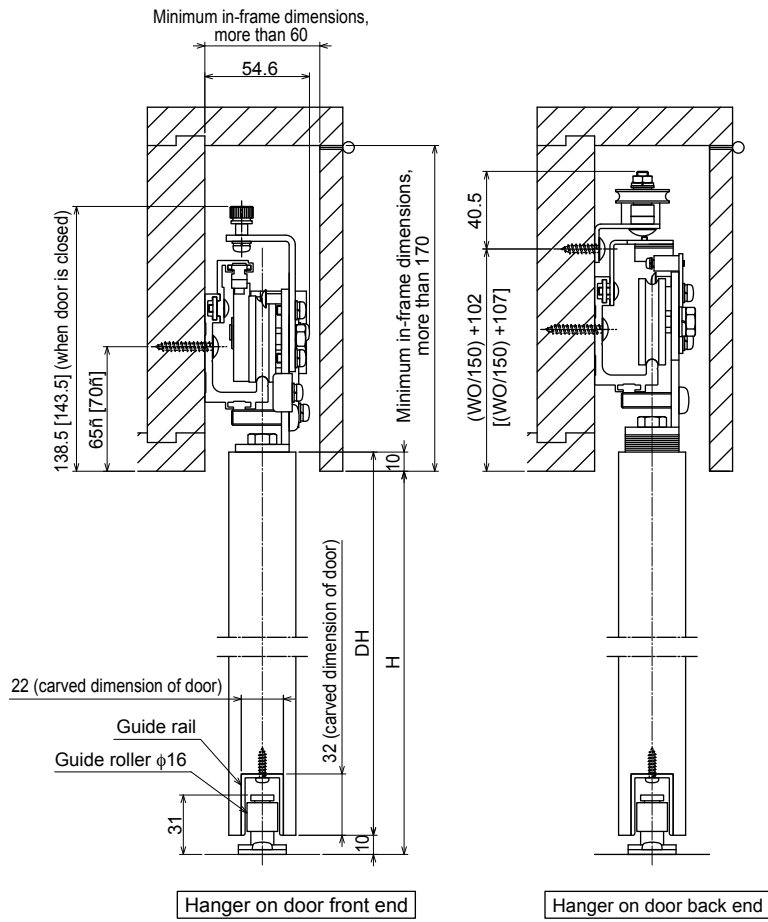
*4 types, φD = 16, 25, 30, 35



For door back end

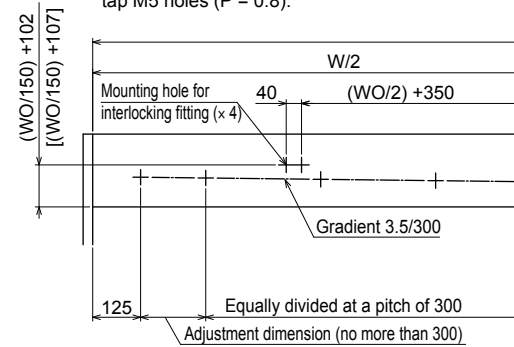
Option Bi-Parting system, SC-W

Installation diagrams



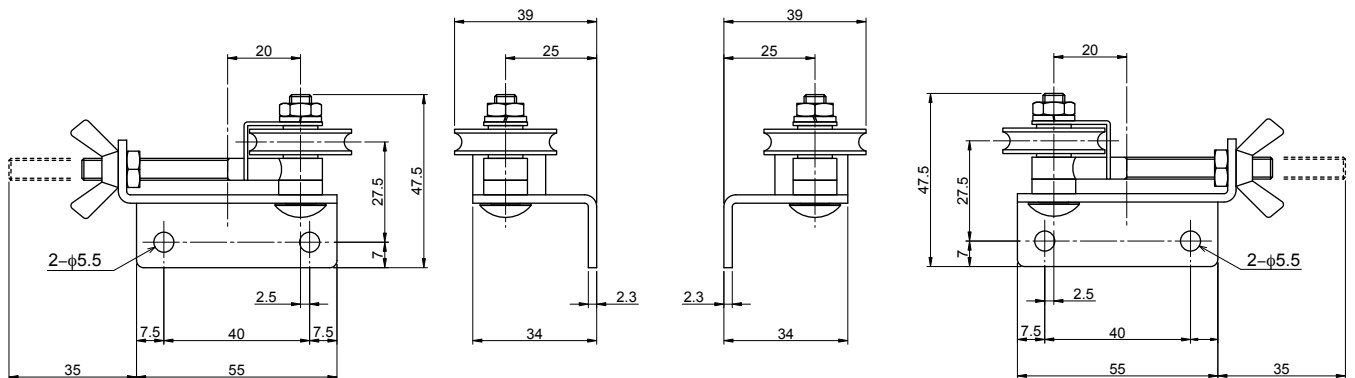
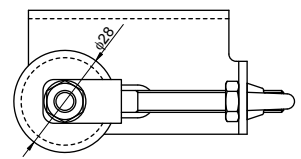
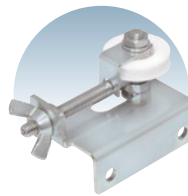
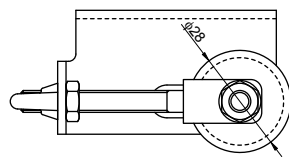
Position diagram of holes on the frame (as viewed from the maintenance cover)

*When handling a steel frame, tap M5 holes ($P = 0.8$).



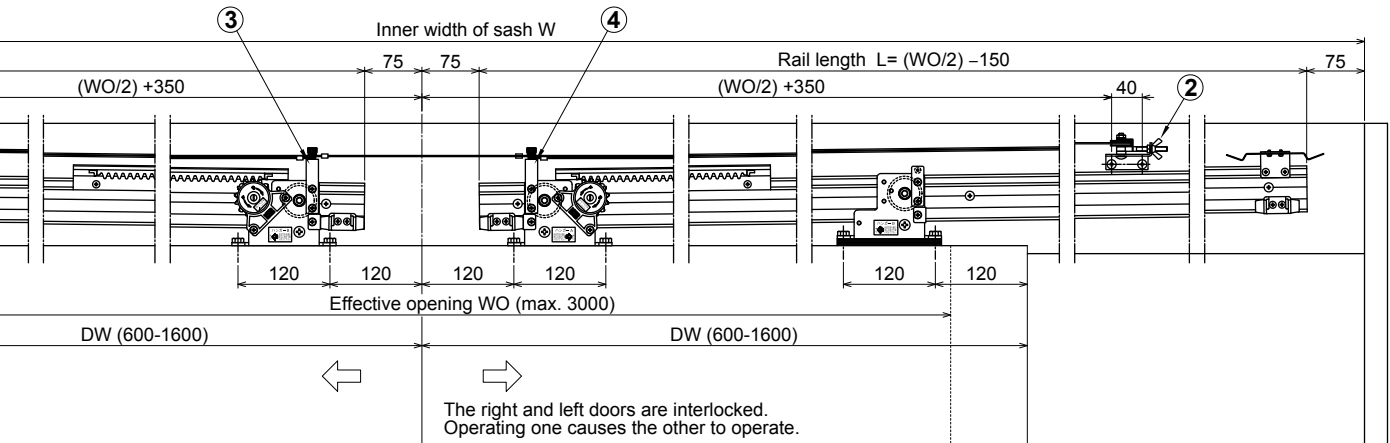
1 Adjustment fitting L

2 Adjustment fitting R



Fitting: Steel
Roller: Polyacetal

Bi-Parting system, SC-W

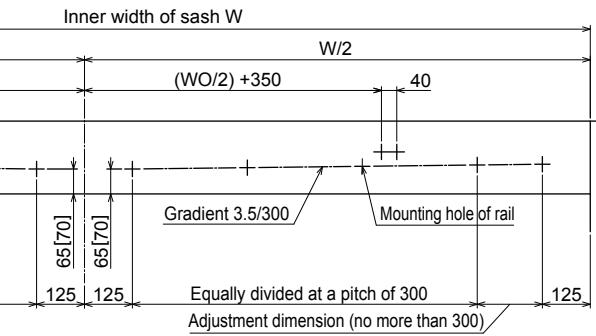


Constituents of Bi-Parting system

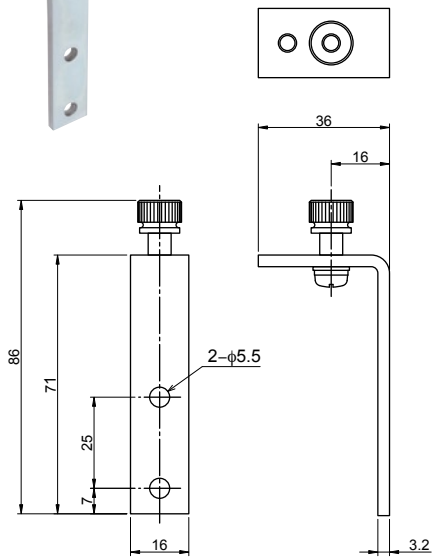
Item	Part	Qty of 1 set	Remark
1	Adjustment fitting L	1	
2	Adjustment fitting R	1	
3	Angle L	1	
4	Angle R	1	
5	Wire rope	2	
6	Pan head screw (M5×12)	4	For installing adjustment fitting
7	Aluminum sleeve	2	Wire rope for crimping

Remarks

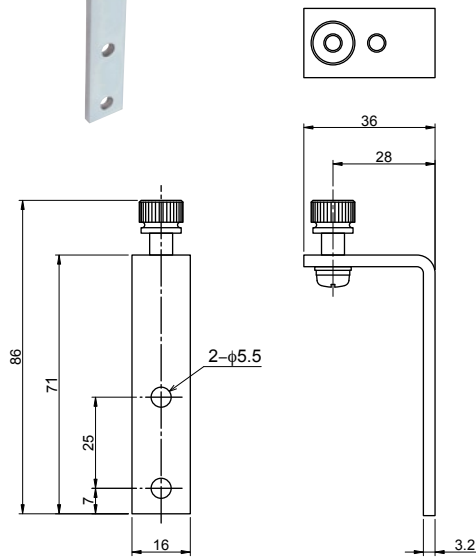
1. These diagrams represent a right-handed opening type. The left-handed opening type is a mirror image of these diagrams.
2. The dimensions in [] are used when the wooden door plate is used (DSC-CW08 and NSC-CW36/48).
3. These diagrams show how an inclined DSC is typically installed. The inclined and horizontal types incorporate identical parts.
4. This system is required SC-W, two set of standard model and two set of door stopper.



3 Angle L

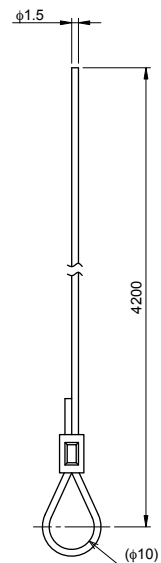


4 Angle R



Angle: Steel

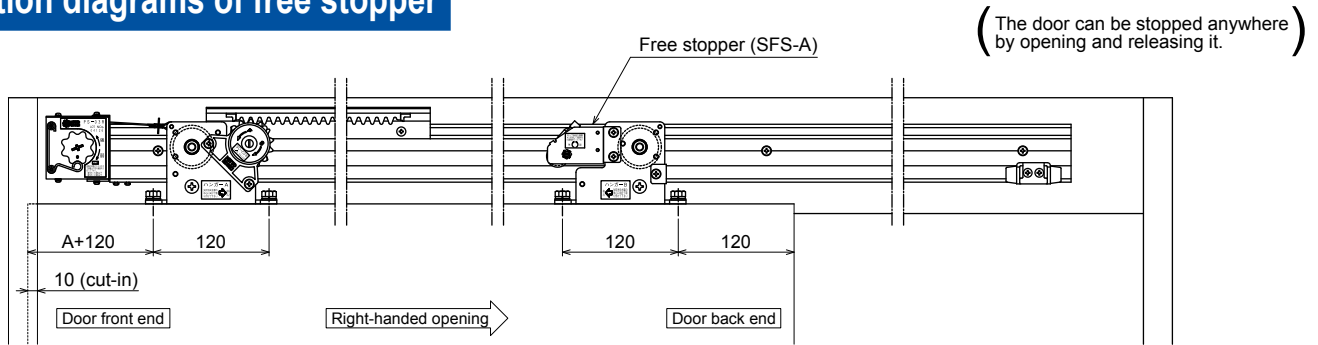
5 Wire rope



Wire: Stainless steel

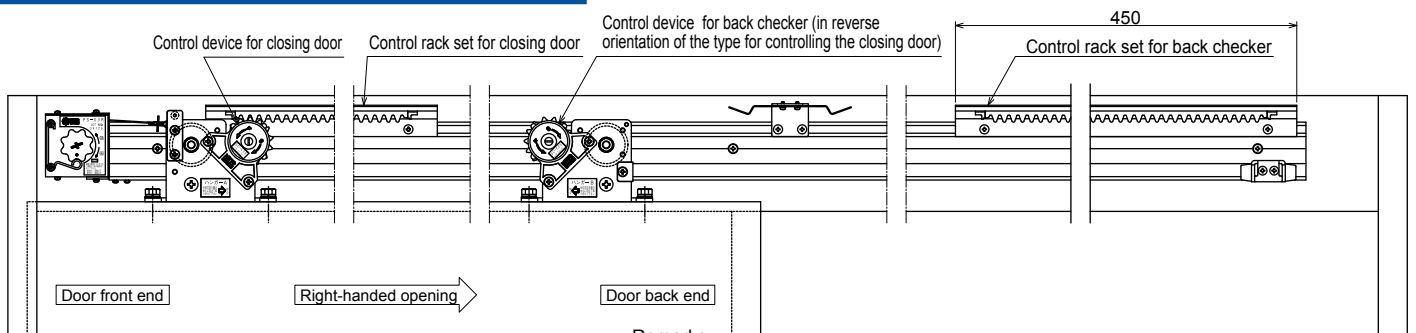
Option Free stopper, Back checker, Delayed device, Maintenance cover

Installation diagrams of free stopper



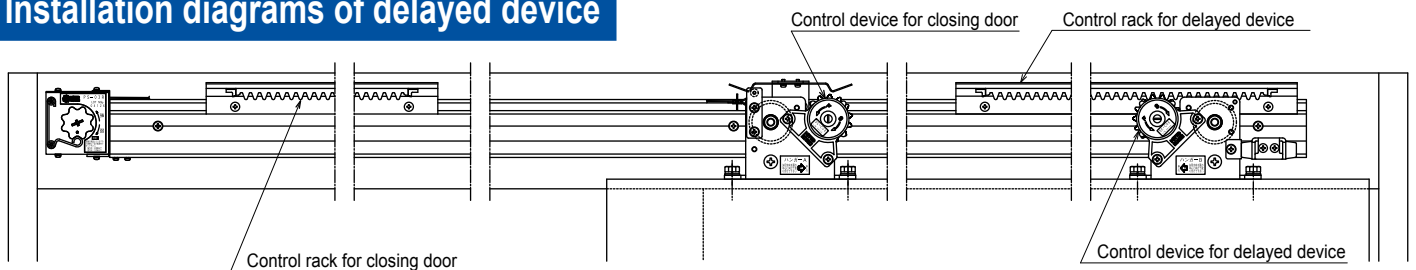
- Remarks
1. These diagrams represent a right-handed opening type. The left-handed opening type is a mirror image of these diagrams.
 2. This diagram shows how a model of the horizontal NSC-C series is typically installed.
 3. Models of the inclined DSC-C series are installed in the same way as in this diagram.

Installation diagrams of back checker



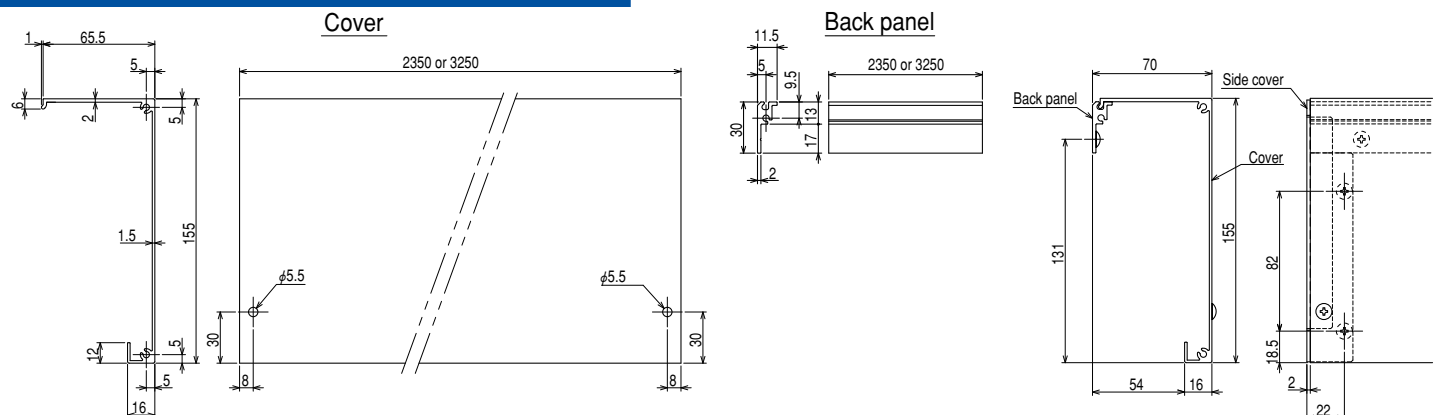
- Remarks
1. These diagrams represent a right-handed opening type. The left-handed opening type is a mirror image of these diagrams.
 2. This diagram shows how a model of the horizontal NSC-C series is typically installed.
 3. Models of the inclined DSC-C series are installed in the same way as in this diagram.

Installation diagrams of delayed device



- Remarks
1. These diagrams represent a right-handed opening type. The left-handed opening type is a mirror image of these diagrams.
 2. This diagram shows how a model of the horizontal NSC-C series is typically installed.
 3. Models of the inclined DSC-C series are installed in a similar way.
 4. A back checker or a delayed device cannot be combined with a free stopper.

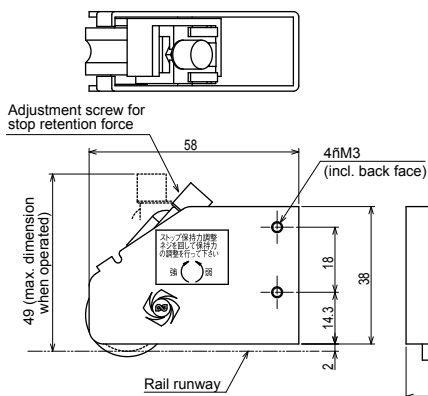
External diagrams of maintenance cover and side cover



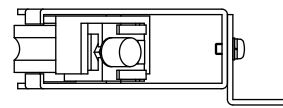
Free stopper (installing the hanger on the door back end)

Free stopper

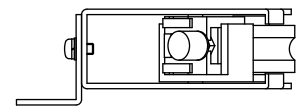
Diagram of fittings installed



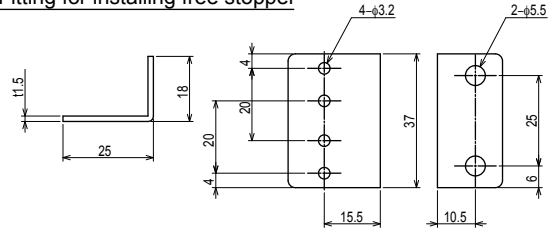
For right-handed opening type



For left-handed opening type

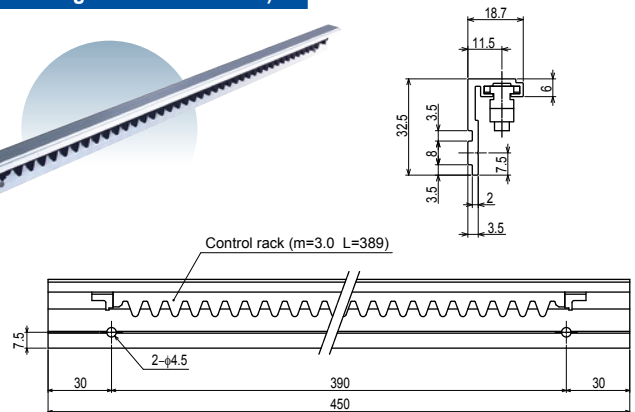
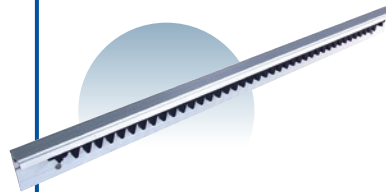
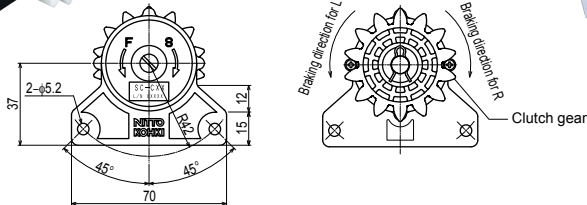


Fitting for installing free stopper



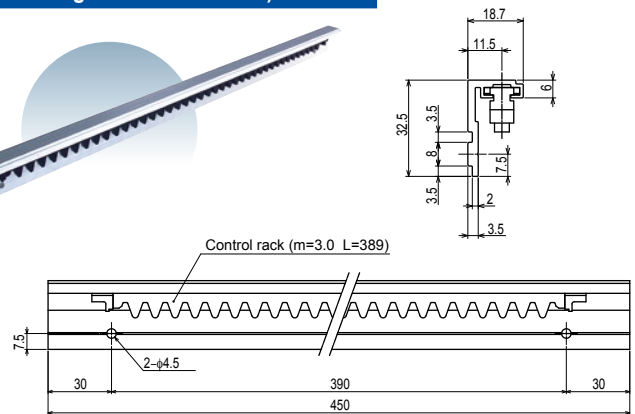
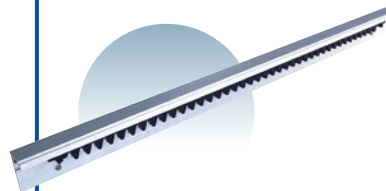
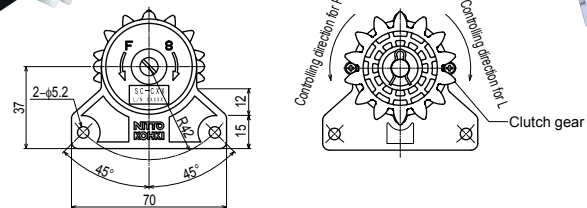
Control device for back check (installing the hanger on the door back end)

Control rack set for back check (installing the door back end)



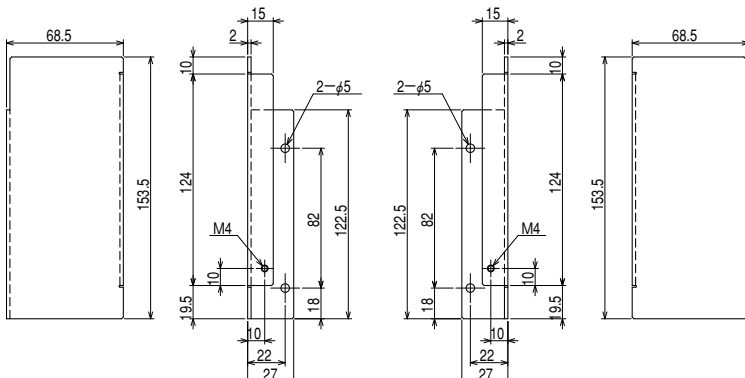
Control device for the delayed device (installing the hanger on the door back end)

Control rack set for the delayed device (installing the door back end)



Side cover L

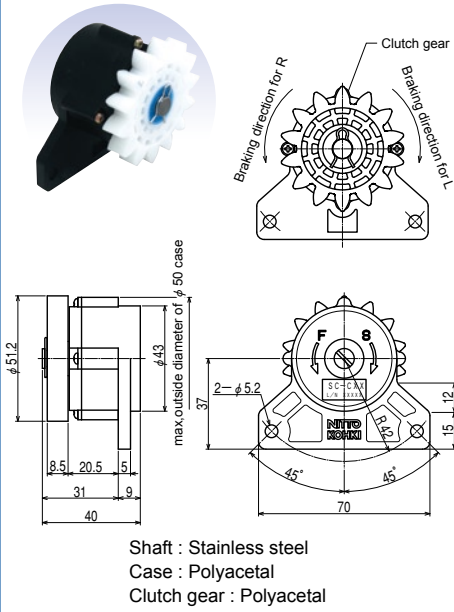
Side cover R



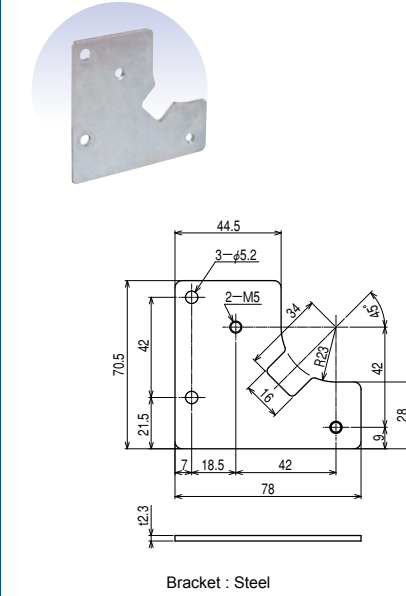
Remarks

- It is made of aluminum.
- The maintenance cover, back panel, and side cover (one on the right and another on the left) come with mounting screws.
- The apparent dimension is 155mm.

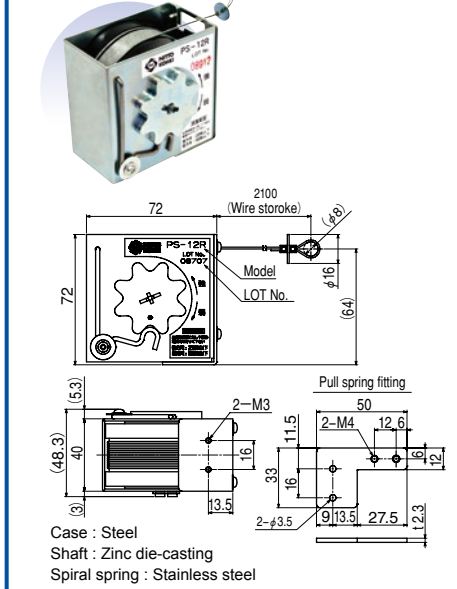
Control device SC-C15



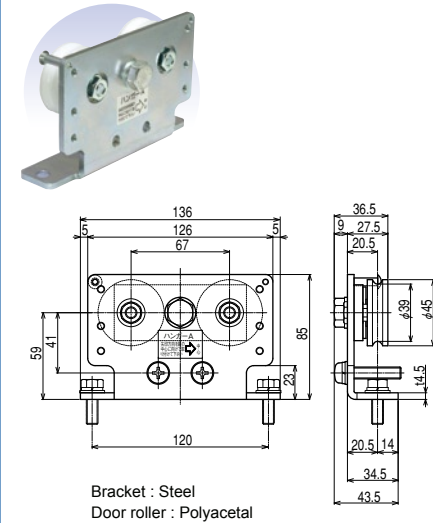
control device bracket



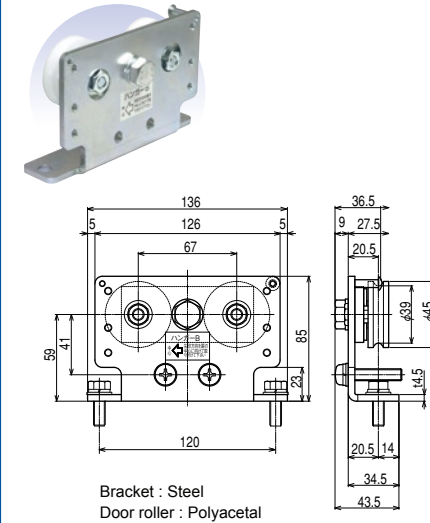
Pull spring PS-12



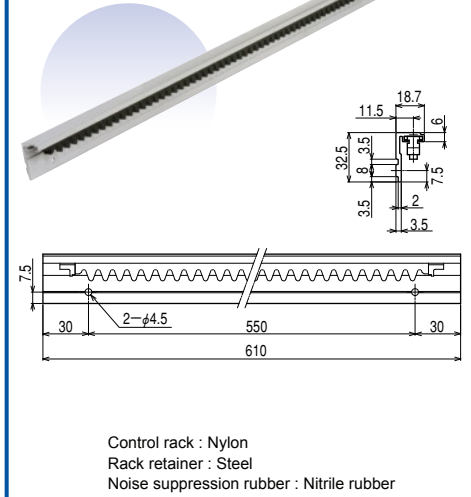
HungerA



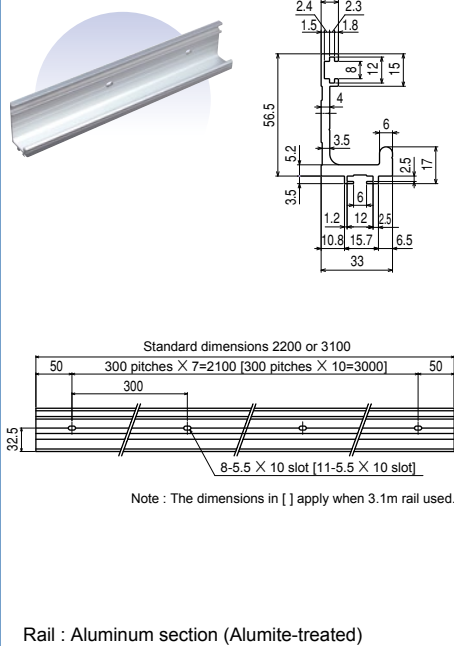
HungerB



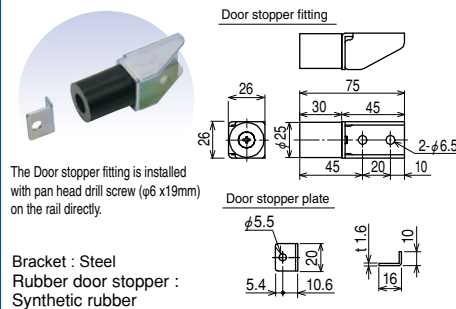
Control rack set



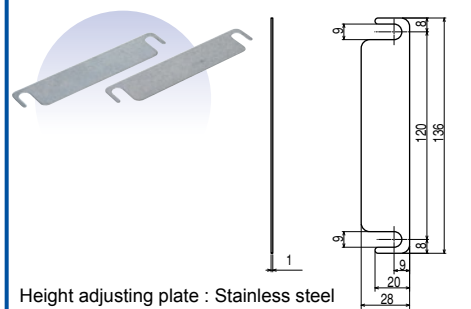
Rail



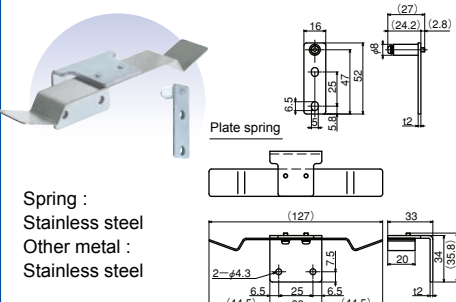
Door stopper fitting



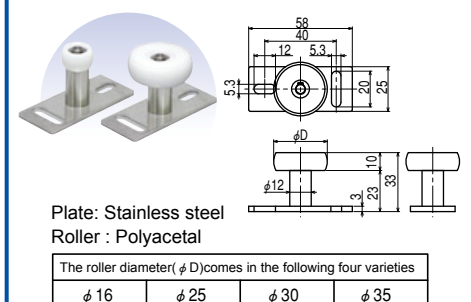
Height adjusting plate



Stop device



Guide roller (Option)



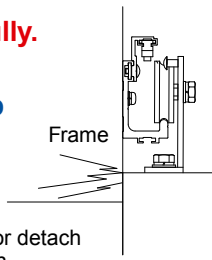
Sliding Closer

Q&A on Troubleshooting

Q: The door does not close fully.

A: The door, hanger, or other component contact the top cover or door pocket.

Action: Check the contact, then either reposition the hanger and/or guide roller in a different position or detach it and reinstall it in another position.



A: The guide roller contacts the top surface of the guide rail at the bottom of the door.

Action: Reinstall the door at the top. Slide the rail and/or other component.



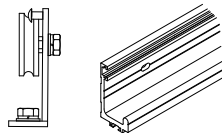
A: The door is not installed vertically.

Action: Reinstall the hanger or guide roller in another position.



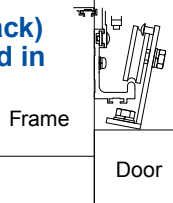
A: The door rollers of the hanger and the rail runway are scratched and dirty.

Action: Clean or replace the door rollers of the hanger and the rail.



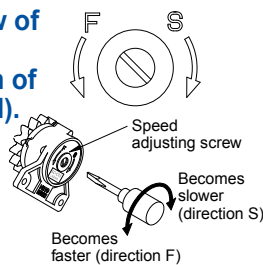
A: The door rollers (front and back) of the hanger are not installed in parallel with the rail.

Action: Reinstall them in different positions to make them parallel.



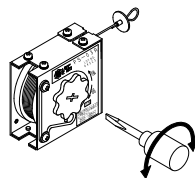
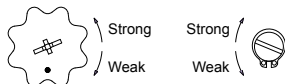
A: The speed adjusting screw of the control device is overturned in the direction of slow (direction S indicated). (An excessive controlling force is applied.)

Action: Turn the speed adjusting screw counterclockwise (direction F indicated) to adjust the speed.



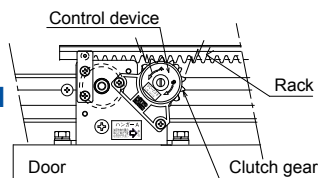
A: The pull spring is unadjusted (a horizontal type).

Action: Adjust the spring force.



A: The clutch gear of the control device is too strongly engaged with the control rack of the rail.

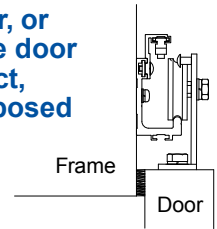
Action: Reinstall the hanger or guide roller at different positions.



Q: The door does not close fully or will not close stably.

A: The airtight rubber, mohair, or other material between the door and frame gets into contact, resulting in resistance imposed to the closing of the door.

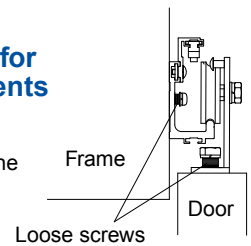
Action: Alleviate the contact.
Example: Cut the rubber or take another appropriate action.



Q: The door rattles.

A: Check that the screws for mounting the components remain tight enough.

Action: Further tighten or retighten the mounting screws.



Precautions for preventing accidents

1. Do not use the product for unspecified door dimensions or door weight.
2. If the control device of the product becomes ineffective, the door will close vigorously, possibly catching one of your fingers or getting into contact or turning over. Should an oil leak occur, component damage or incidents will result in ineffective control, despite speed adjustment, replace the product promptly.
3. Do not disassemble or remodel the product. Should you do so, we will not guarantee the subsequent performance of the product.
4. Securely tighten the screws that mount the product. Failure to observe this precaution may cause product damage or accident.
5. Be sure to install the door-retaining screws. Failure to observe this instruction may derail or turn the door over.
6. Be sure to install the door stopper on the door back end.
7. Do not drop or strike any of the components. Failure to follow this precaution may cause a breakdown.
8. The closer incorporated in the product causes the door to close on its own. Therefore do not close the door fast with force. Any such practice may cause the door to close vigorously, resulting in an unexpected accident.
9. Take care not to let a child play by hanging on the door.
10. In case of rough operation, Be sure to install door stopper on the floor or door back end.

Precautions to be taken to ensure a long service life

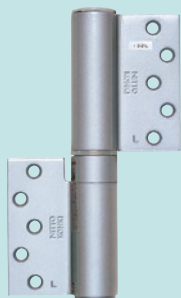
1. Wipe off dust and dirt from the rail and door rollers.
2. Conduct periodic checks for loose screws and other anomalies.

User-friendly technology

NITTO KOHKI AUTO HINGES

OTHER RELATED PRODUCTS

FLAG TYPE



- Armless closer making a boast of Nitto Kohki, being easily installed on an arch door, etc.
- Various models according to types and sizes of doors (wooden, aluminum, lightweight steel, steel doors) are available from us.

PC series

- Dripproof design
- Adopts an actuator with unique temperature sensor, thus assuring constant closing speed all the year round.



700 series

- They come with special sealing and stainless steel.
- A much wider range of uses including bathrooms and seashores.



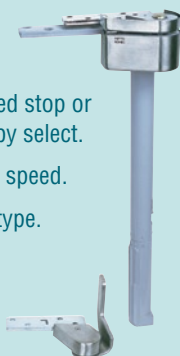
CENTER HANG TYPE

- Most suitable for fire protection, open smoke ventilation and normally-opened / closed doors and air supply doors.
- Concealed type (door built-in type.)



CONCEALED

- Can be selected stop or without stop by select.
- 2 way closing speed.
- Door built-in type.



CREATE

- Projecting type door closer
Automatically closes a door with quiet in combined use of a capsule with built-in spring and hydraulic device and a special pivot hinge.
- Simple design
Provided with arm-free construction, presenting simple design and beauty fit for any door.



⚠ Safety precautions

- To avoid personal injury and other accidents, thoroughly read the precautions set forth in the "Instruction Manual" or "Catalog" and properly complete the installation and adjustment procedures before use.

- Ensure that the door closing speed is properly adjusted at all times. If it is too high, personal injury may result.

Driving Inventive Technologies Too Open Up Tomorrows



Head Office and Research Center
Nakaikogami 2-9-4, Ohta-ku, Tokyo
146-8555 Japan
Phone : +81-3-3755-1111 Fax : +81-3-3753-8791

Contact us

Kentokyo@nitto-kohki.co.jp

Product Info

www.nitto-kohki.co.jp/e/

Overseas Auto Hinge Sales Division

Yokoyama Bldg. 7F, Nishi-Nippori 2-40-3,
Arakawa-ku, Tokyo 116-0013 Japan
146-8555 Japan
Phone : +81-3-5850-5781 Fax : +81-3-3801-6001

DISTRIBUTED BY