

NITTO KOHKI Sliding Closer

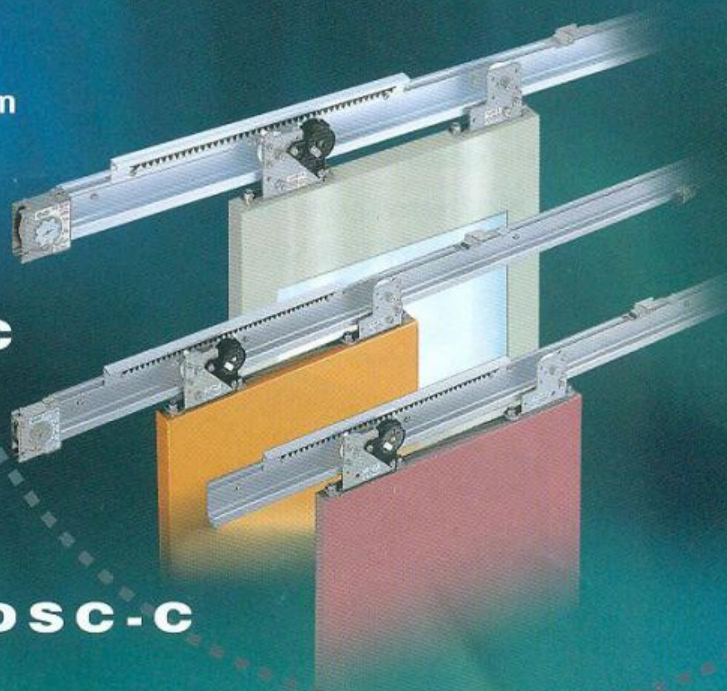
New-generation sliding door closers developed with user-friendly technologies.



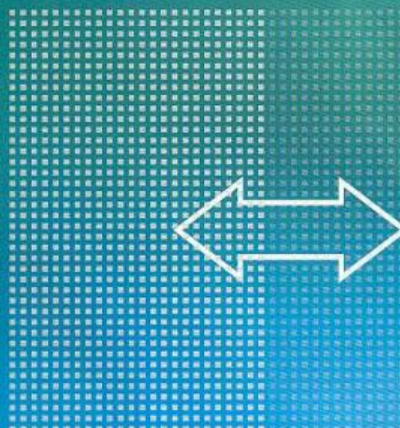
Horizontal for Bathroom
NSC-CB

Horizontal **NSC-C**

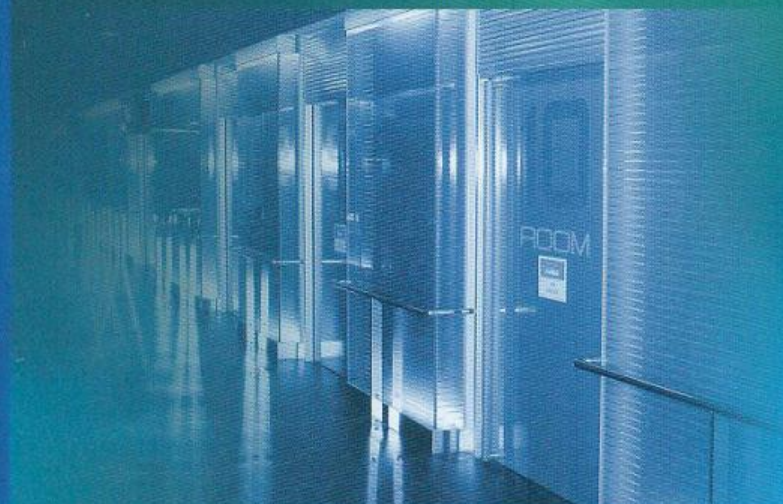
Inclined **DSC-C**



We propose a new style of door opening/closing.



User-friendly technology
AUTO HINGES



New sliding closers **DSC-C** (incl (horizontal) series "Innovation a

Long service life

- The control device incorporates a fluid friction resistance, one-way clutch mechanism to ensure secure control, small size, and a long service life.

Light door-opening force

- Since door resistance is low, the door can be opened easily even by elderly citizens, young children, and people with disabilities.
Initial door-opening force at a door weight of 40kg
DSC-C08 type, 6.7N; NSC-C36 type, 5.7N

A large variety of models

- Many models designed for wooden, steel, and aluminum fittings. The options available are interlocking system and shutter box type.

Easy to install

- The only modifications made on the frame are the making of rail-mounting holes. All parts can be installed on the rail with a screwdriver. The product is therefore easy to install.

Both for right- and left-handed opening types

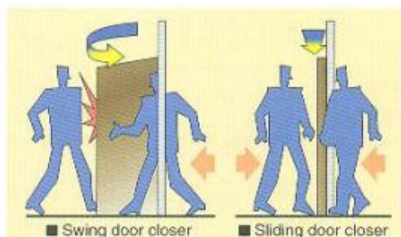
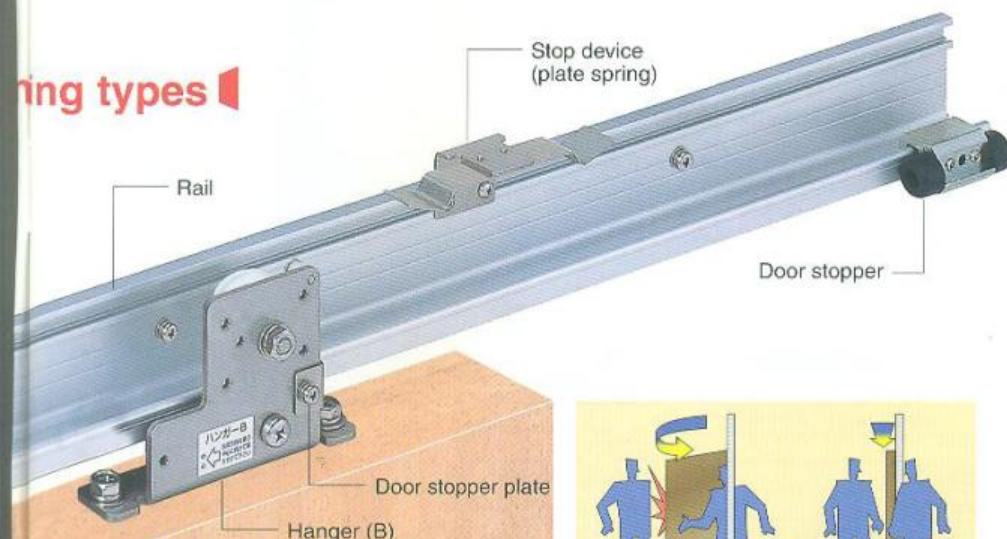
- The product can be converted between the right- and left-handed opening types by a simple operation.



ned) and NSC-C nd Simplicity"

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ing types



The sliding door closer system eliminates dead space and ensures high safety.

Application

Wooden fittings, inclined DSC-CW series

Applicable door	Model	Door weight (kg)	Applicable door width (mm)
Wooden doors	DSC-CW03	10-30	700-1600
	DSC-CW08	30-80	

Wooden fittings, horizontal NSC-CW series

Applicable door	Model	Door weight (kg)	Applicable door width (mm)
Wooden doors	NSC-CW23	10-30	700-1600
	NSC-CW36	30-60	
	NSC-CW48	60-80	

Steel lightweight fittings, inclined DSC-C series

Applicable door	Model	Door weight (kg)	Applicable door width (mm)
Steel doors	DSC-C03	10-30	700-1600
	DSC-C08	30-80	
	DSC-C015	80-150	

Steel lightweight fittings, horizontal NSC-C series

Applicable door	Model	Door weight (kg)	Applicable door width (mm)
Steel doors	NSC-C23	10-30	700-1600
	NSC-C36	30-60	
	NSC-C48	60-80	
	NSC-C1215	80-150	

Lightweight fittings in bathrooms, horizontal type for bathrooms NSC-CB series

Applicable door	Model	Door weight (kg)	Applicable door width (mm)
Steel light-weight doors Aluminum doors	NSC-CB23	10-30	700-1600
	NSC-CB36	30-60	
	NSC-CB48	60-80	

Application

Wooden fittings

DSC-CW03/specifications
DSC-CW08/specifications

DSC-CW03・08/Installation diagrams

NSC-CW23/specifications
NSC-CW36・48/specifications

NSC-CW23・36・48/Installation diagrams

Steel lightweight fittings

DSC-C03・08/specifications
DSC-C03・08/Installation diagrams

DSC-C015/Installation diagrams

NSC-C23・36・48/specifications
NSC-C23・36・48/Installation diagrams

NSC-C1215/Installation diagrams

Option

Single action double Sliding system

Bi-Parting system, SC-W

Free stopper (SFS-A)

Back checker

Delayed device

Maintenance cover

Lightweight fittings in bathrooms

NSC-CB/Installation diagrams

List of parts

DSC-C015/NSC-C1215

NSC-CB

NSC-C/DSC-C

Q&A on Troubleshooting

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For wooden fittings, inclined,
with door weights of 10-30kg

DSC-CW03 series

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

Features

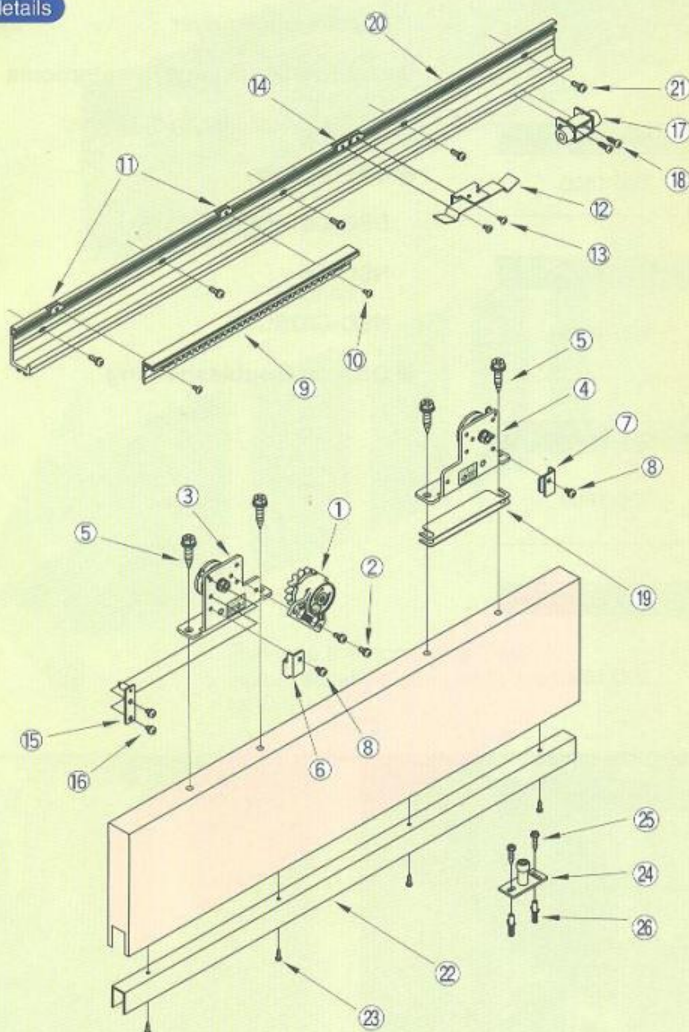
- A standardized set of parts required for inclined wooden fitting types.
(The product comes standard with a guide rail, guide roller, stop device, and other equipment.)
- Coach screws allow the hanger to be attached directly to the door.
- An endless fluid friction resistance system ensures a long life.
- The product can be converted to the right- and left-handed opening types by simple operation.
- It is easy to install with a screwdriver.

Specifications

Model	DSC-CW03-22	DSC-CW03-31
Applicable doors	Weight [kg]	10-30
	Width [mm]	700-1200
Max. stroke [mm]		1500
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]		2.3-5.4
Durability		More than 1 million open/close operations
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	φ8×50 coach screw	4	
⑥	Door retention fitting Hanger A	1	
⑦	Door retention fitting Hanger B	1	Door retention
⑧	Pan head screw M5×8	2	
⑨	Control rack set	1	
⑩	M4×8 truss screw	2	For control rack set
⑪	Plate nut	2	
⑫	Plate spring	1	
⑬	M4×8 truss screw	2	
⑭	Plate nut	2	For stop device
⑮	Stop roller	1	
⑯	M5×8 pan head screw	2	
⑰	Door stopper fitting	1	For door stopper
⑱	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	
㉑	M5×16 pan head screw	8[11]	For rail
㉒	φ5×30 truss tapping screw	8[11]	
㉓	Guide rail L = 1300 [L = 1600]※	1	For guide rail
㉔	φ4×16 pan head tapping screw	5[6]	
㉕	Guide roller φ16	1	
㉖	φ5×25 Hexagon tapping screw	2	For guide roller
㉗	M5×12 Hexagon screw	2	
㉘	Curl plug	2	

※ Guide rail : Rail 2.2m Guide rail 1.3m
Rail 3.1m Guide rail 1.6m

For wooden fittings, inclined,
with door weights of 30-80kg

DSC-CW08 series

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

Features

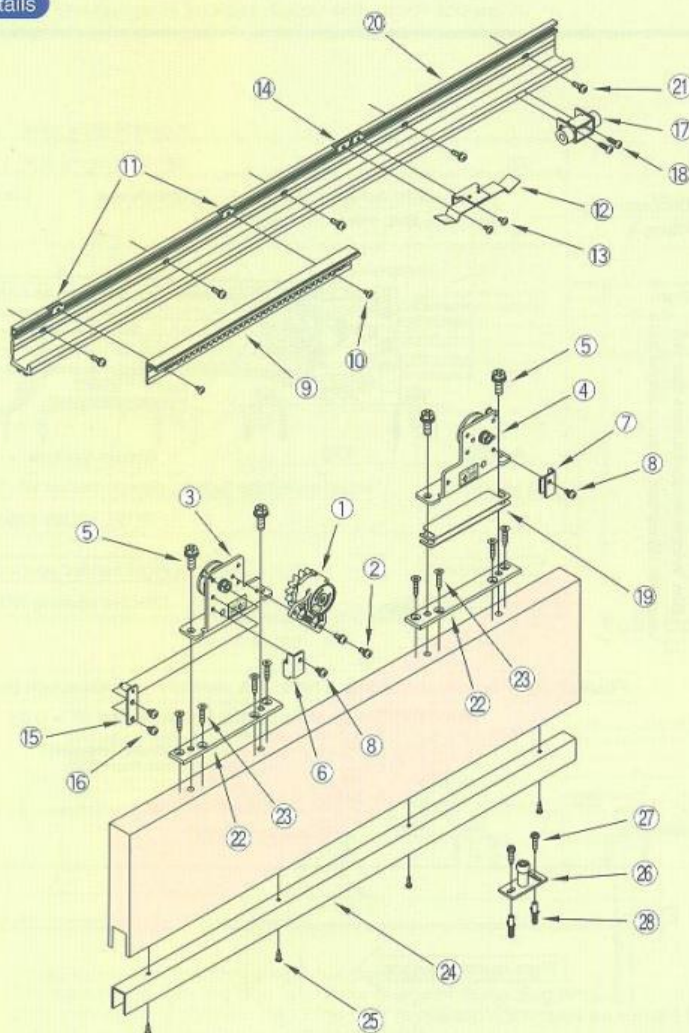
- A standardized set of parts required for inclined wooden fitting types.
(The product comes standard with a guide rail, guide roller, stop device, and other equipment.)
- An endless fluid friction resistance system ensures a long life.
- The product can be converted to the right- and left-handed opening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

Specifications

Model		DSC-CW08-22	DSC-CW08-31
Applicable doors	Weight [kg]	30-80	
	Width [mm]	700-1200	1200-1600
Max. stroke [mm]		1500	
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]		5.4-12.5	
Durability		More than 1 million open/close operations	
Rail length [m]		2.2	3.1



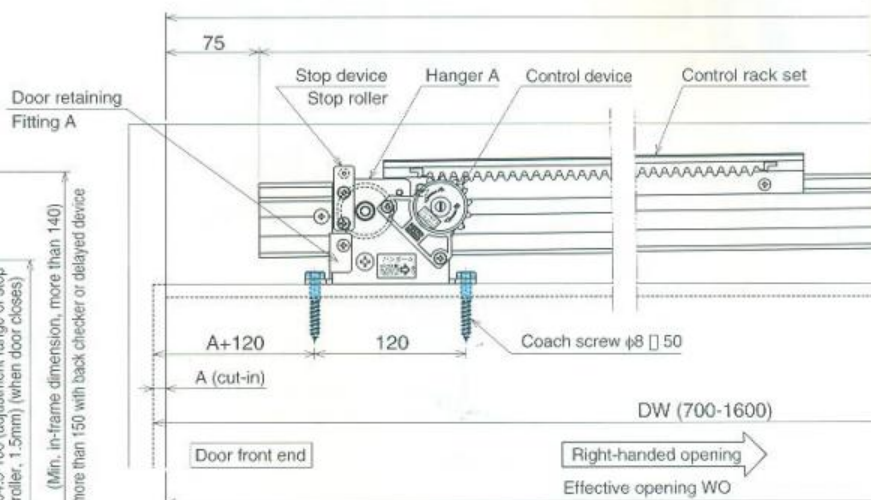
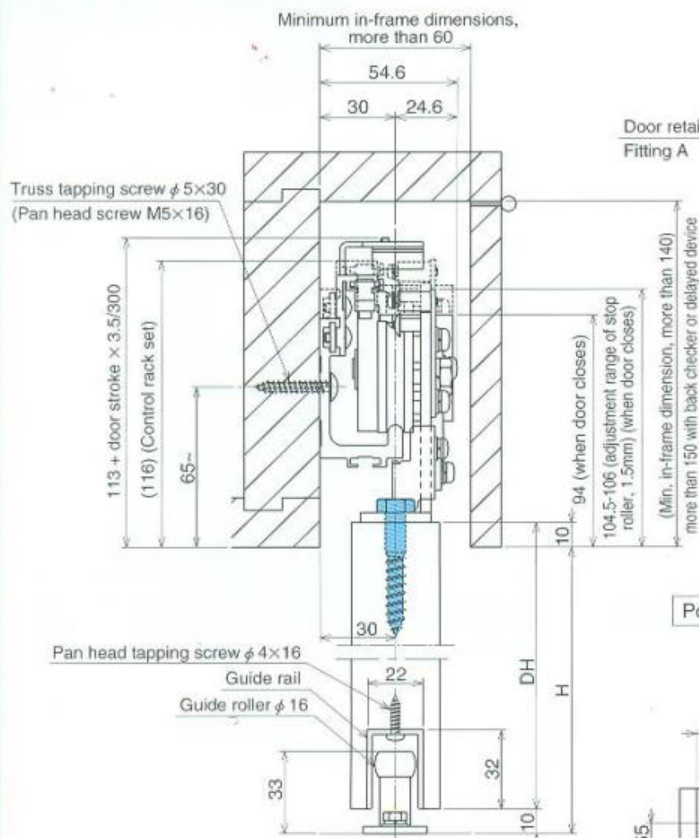
Part details



No.	Part	Q'ty	Remark
①	Control device	1	For control device
②	M5X12 pan head screw	2	
③	Hanger A	1	For hanger
④	Hanger B	1	
⑤	M8X25 hexagon head bolt	2	
⑥	M8X30 hexagon head bolt	2	Door retention
⑦	Door retention fitting Hanger A	1	
⑧	Door retention fitting Hanger B	1	For control rack set
⑨	Pan head screw M5X8	2	
⑩	Control rack set	1	For stop device
⑪	M4X8 truss screw	2	
⑫	Plate nut	2	For door stopper
⑬	Plate spring	1	
⑭	M4X8 truss screw	2	For rail
⑮	Plate nut	2	
⑯	Stop roller	1	For wooden door plate
⑰	M5X8 pan head screw	2	
⑱	Door stopper fitting	1	For guide rail
⑲	φ5X16 pan head tapping screw	2	
⑳	Height adjusting plate (t = 1.0, 0.5)	15+1	For guide roller
㉑	Rail L = 2200 [L = 3100]	1	
㉒	M5X16 pan head screw	8[11]	For guide roller
㉓	φ5X30 truss tapping screw	8[11]	
㉔	Wooden door plate	2	For guide roller
㉕	φ5X30 flat head tapping screw	8	
㉖	Guide rail L = 1300 [L = 1600] [※]	1	For guide roller
㉗	φ4X16 pan head tapping screw	5[6]	
㉘	Guide roller φ 16	1	For guide roller
㉙	φ5X25 Hexagon tapping screw	2	
㉚	M5X12 Hexagon screw	2	For guide roller
㉛	Curl plug	2	

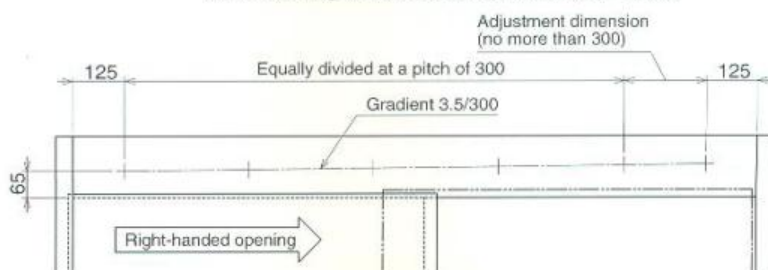
※ Guide rail : Rail 2.2m Guide rail 1.3m
Rail 3.1m Guide rail 1.6m

Installation diagrams DSC-CW03

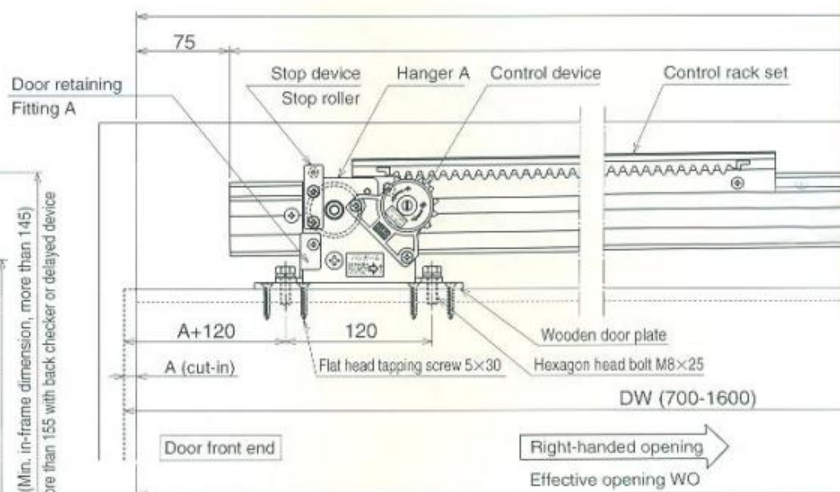
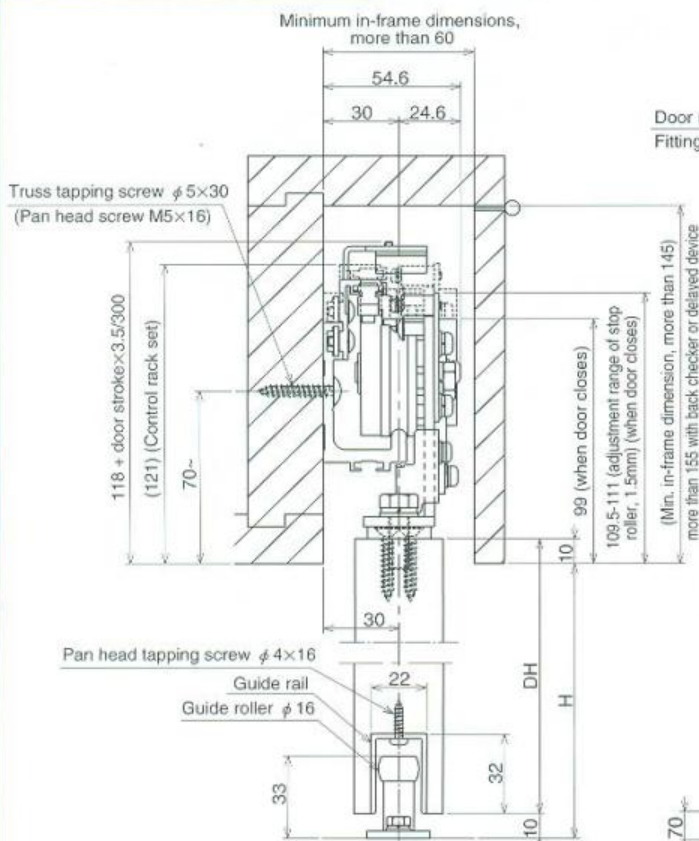


Position diagram for rail-mounting holes (as viewed from inspection panel)

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

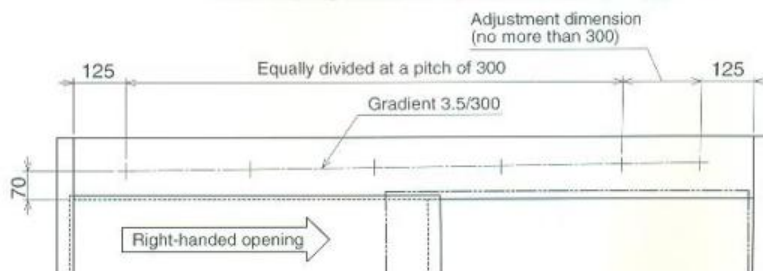


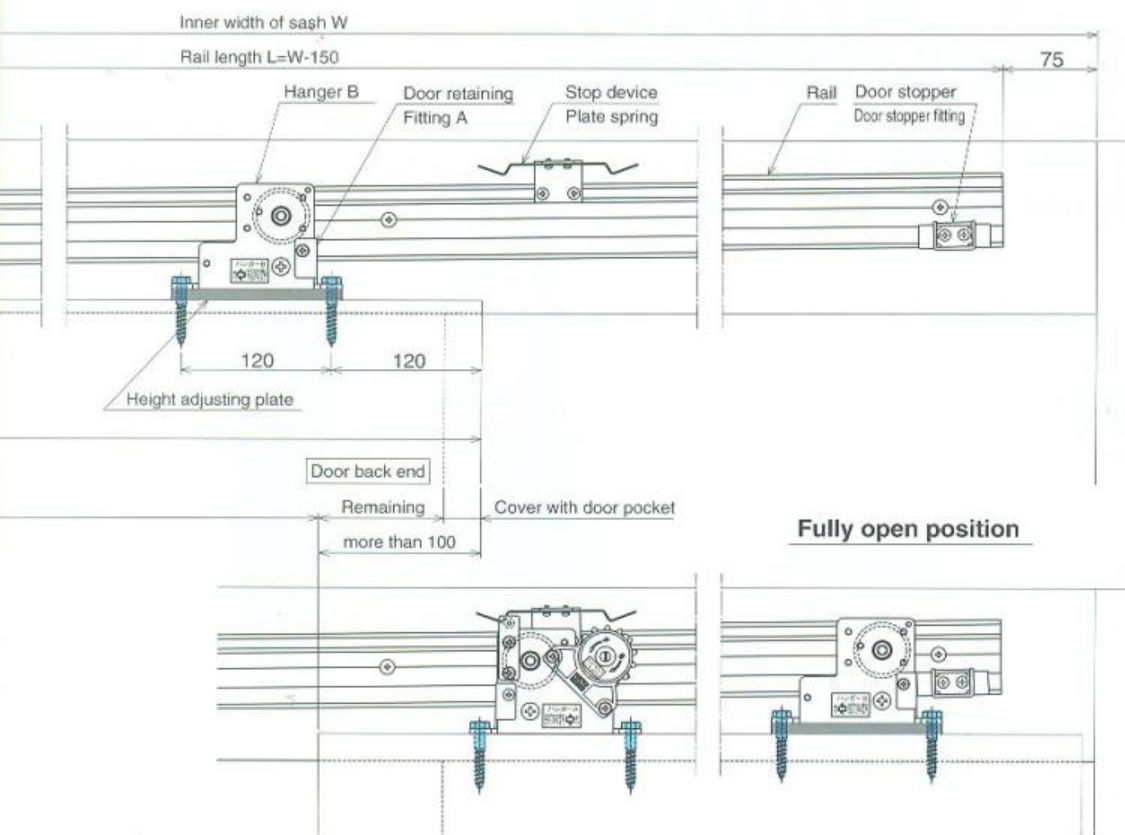
Installation diagrams DSC-CW08



Position diagram for rail-mounting holes (as viewed from inspection panel)

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

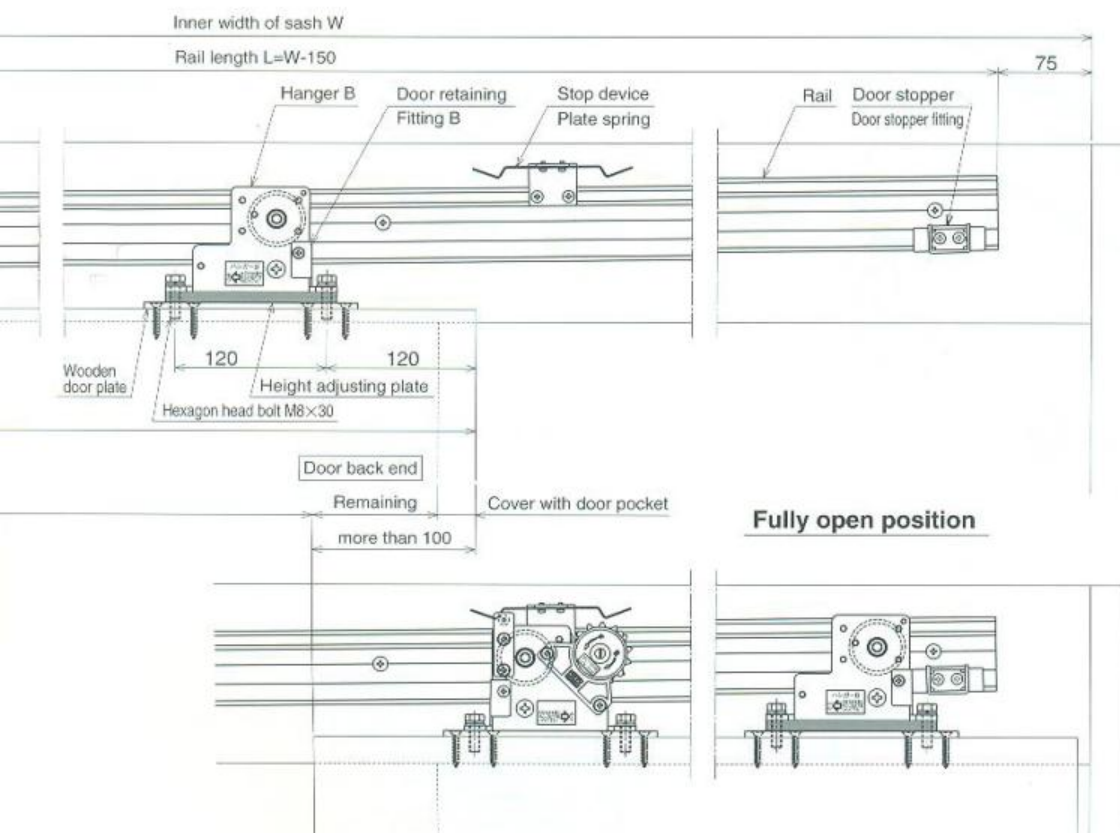




Number of height adjusting plates (reference)

Door width [mm]	No. of plates 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.

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.
3. The hanger is installed directly with coach screws.



Number of height adjusting plates (reference)

Door width [mm]	No. of plates 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.

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.

For wooden fittings, horizontal,
with door weights of 10-30kg

NSC-CW23 series

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

Features

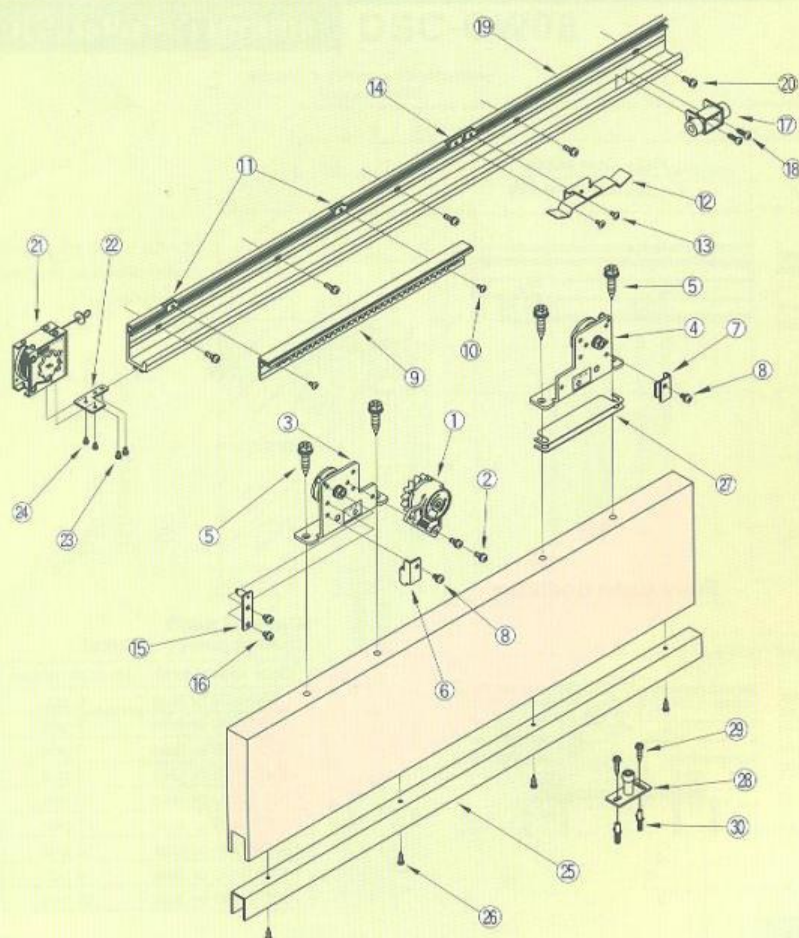
- A standardized set of parts required for horizontal wooden fitting types.
(The product comes standard with a guide rail, guide roller, stop device, and other equipment.)
- Coach screws allow the hanger to be attached directly to the door.
- An endless fluid friction resistance system ensures a long life.
- The product can be converted to the right- and left-handed opening types by simple operation.
- It is easy to install with a screwdriver.

Specifications

Model	NSC-CW23-22	NSC-CW23-31
Applicable doors	Weight [kg]	10-30
	Width [mm]	700-1200
Max. stroke [mm]		1500
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]		3.5-4.6
Durability		more than 1 million open/close operations
Pull spring		PS-02
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	φ 8×50 coach screw	4	
⑥	Door retention fitting Hanger A	1	
⑦	Door retention fitting Hanger B	1	Door retention
⑧	Pan head screw M5×8	2	
⑨	Control rack set	1	
⑩	M4×8 truss screw	2	For control rack set
⑪	Plate nut	2	
⑫	Plate spring	1	
⑬	M5×8 truss screw	2	
⑭	Plate nut	2	For stop device
⑮	Stop roller	1	
⑯	M5×8 pan head screw	2	
⑰	Door stopper fitting	1	For door stopper
⑱	φ 5×16 pan head tapping screw	2	
⑲	Rail L = 2200 [L = 3100]	1	
⑳	M5×16 truss screw	8[11]	For rail
	φ 5×30 truss tapping screw	8[11]	
㉑	Pull spring	1	
㉒	Pull spring fitting	1	For pull spring
㉓	M4×5 pan head screw	2	
㉔	M3×8 pan head screw	2	
㉕	Guide rail L = 1300 [L = 1600]※	1	For guide rail
㉖	φ 4×16 pan head tapping screw	5[6]	
㉗	Height adjusting plate (t=1.0)	4	
㉘	Guide roller φ 16	1	
㉙	φ 5×25 Hexagon tapping screw	2	For guide roller
	M5×12 Hexagon screw	2	
㉚	Curl plug	2	

※ Guide rail : Rail 2.2m Guide rail 1.3m
Rail 3.1m Guide rail 1.6m

For wooden fittings, horizontal,
with door weights of 30-60kg and 60-80kg

NSC-CW36·48 series

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

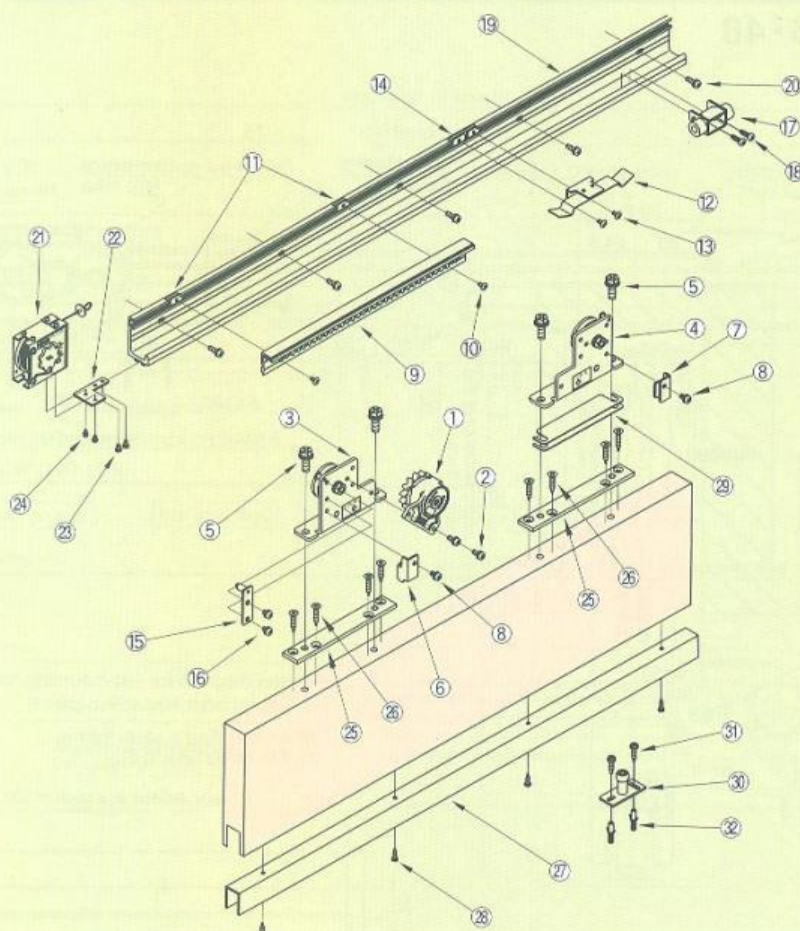
Features

- A standardized set of parts required for horizontal wooden fitting types.
(The product comes standard with a guide rail, guide roller, 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 screwdriver.

Specifications

Model		NSC-CW36-22	NSC-CW36-31	NSC-CW48-22	NSC-CW48-31
Applicable doors	Weight [kg]	30-60		60-80	
	Width [mm]	700-1200	1200-1600	700-1200	1200-1600
Max. stroke [mm]		1500			
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]		4.7-6.9		7.0-8.0	
Durability		more than 1 million open/close operations			
Pull spring		PS-03		PS-04	
Rail length [m]		2.2	3.1	2.2	3.1

Part details



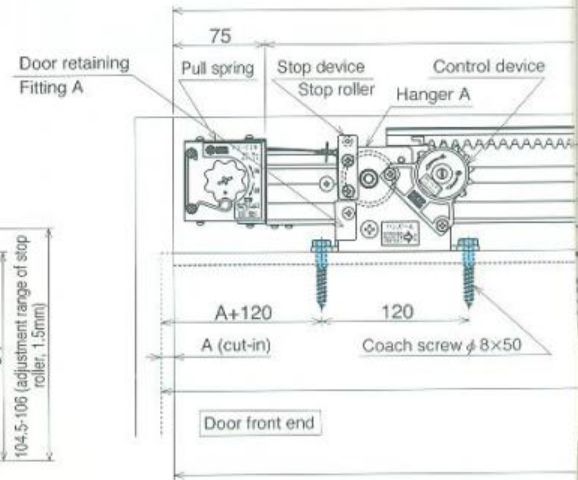
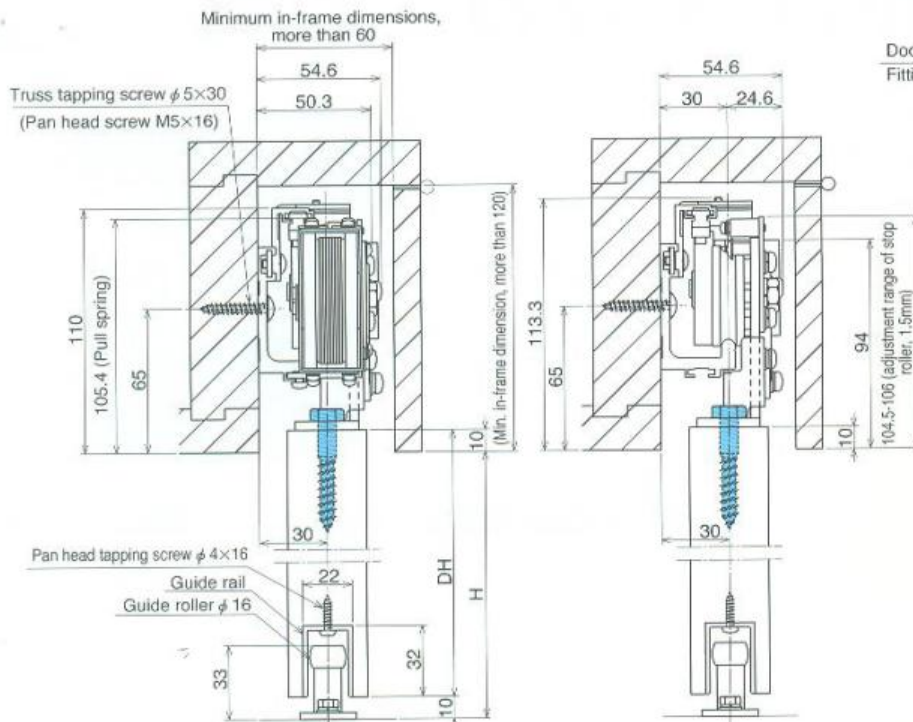
No.	Part	Qty	Remark
①	Control device	1	For control device
②	M5X12 pan head screw	2	
③	Hanger A	1	For hanger
④	Hanger B	1	
⑤	M8X25 hexagon head bolt	4	Door retention
⑥	Door retention fitting Hanger A	1	
⑦	Door retention fitting Hanger B	1	For control rack set
⑧	Pan head screw M5X8	2	
⑨	Control rack set	1	For stop device
⑩	M4X8 truss screw	2	
⑪	Plate nut	2	For door stopper
⑫	Plate spring	1	
⑬	M4X8 truss screw	2	For pull spring
⑭	Plate nut	2	
⑮	Stop roller	1	For wooden door plate
⑯	M5X8 pan head screw	2	
⑰	Door stopper fitting	1	For guide rail
⑱	φ5X16 pan head tapping screw	2	
⑲	Rail L = 2200 [L = 3100]	1	For guide roller
⑳	M5X16 truss screw	8[11]	
㉑	φ5X30 truss tapping screw	8[11]	For guide roller
㉒	Pull spring	1	
㉓	Pull spring fitting	1	For guide roller
㉔	M4X5 pan head screw	2	
㉕	M3X8 pan head screw	2	For guide roller
㉖	Wooden door plate	2	
㉗	φ5X30 flat head tapping screw	8	For guide roller
㉘	Guide rail L = 1300 [L = 1600]※	1	
㉙	φ4X16 pan head tapping screw	5[6]	For guide roller
㉚	Height adjusting plate (t=1.0)	4	
㉛	Guide roller φ16	1	For guide roller
㉜	φ5X25 Hexagon tapping screw	2	
㉝	M5X12 Hexagon screw	2	For guide roller
㉞	Curl plug	2	

※ Guide rail : Rail 2.2m Guide rail 1.3m, Rail 3.1m Guide rail 1.6m



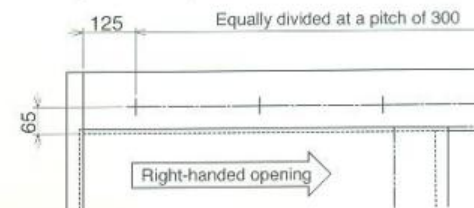
Installation diagrams

NSC-CW23



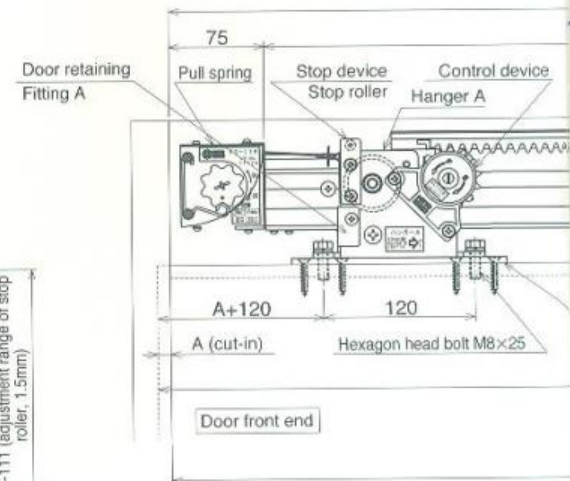
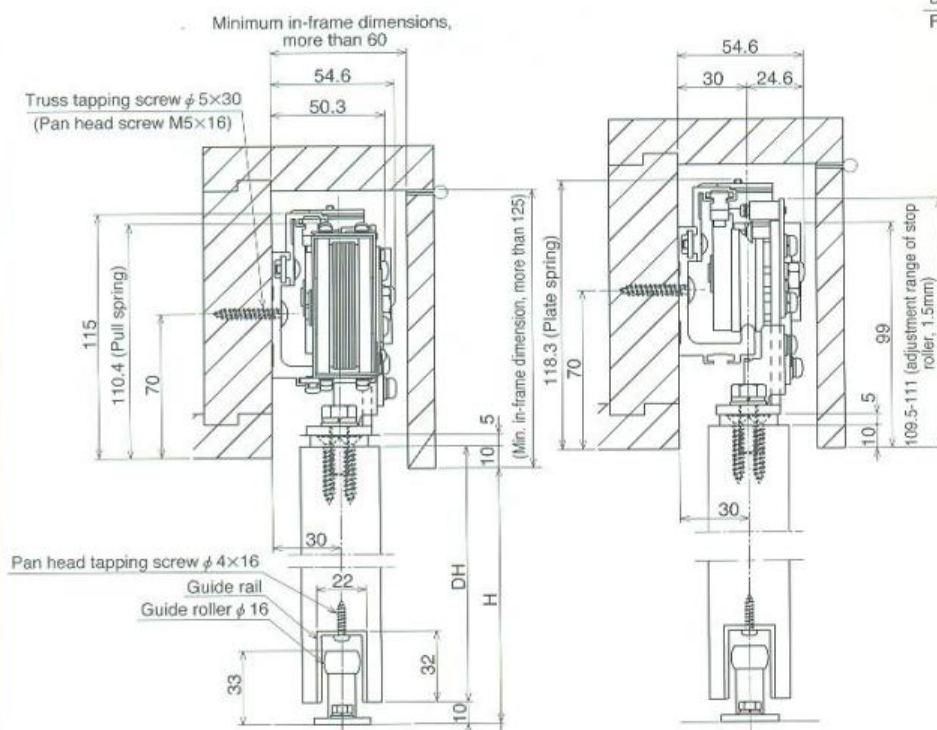
Position diagram for rail-mounting holes
(as viewed from inspection panel)

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



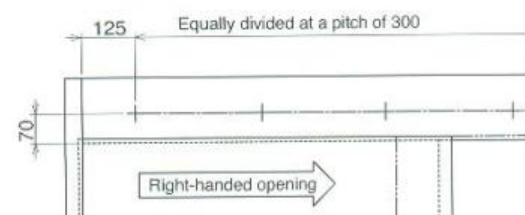
Installation diagrams

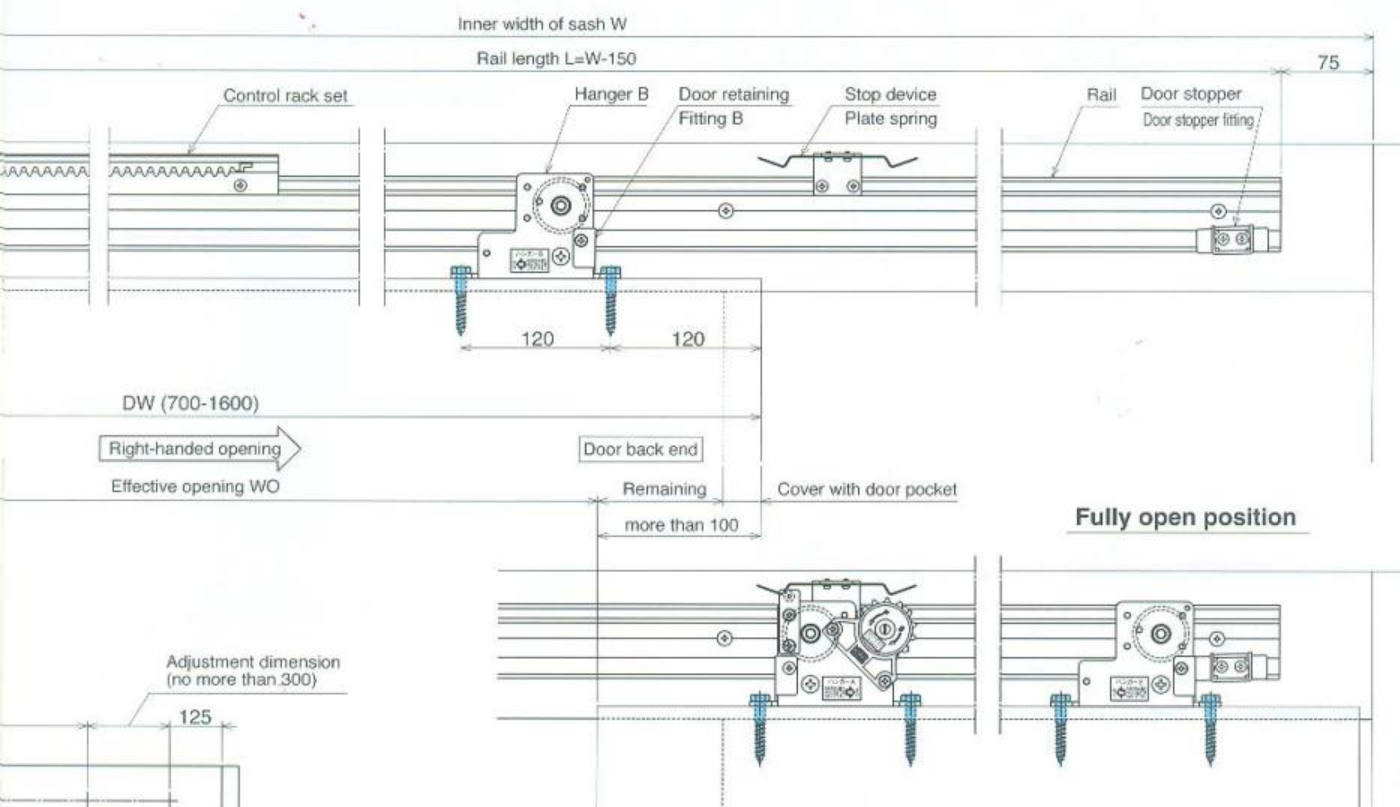
NSC-CW36 · 48



Position diagram for rail-mounting holes
(as viewed from inspection panel)

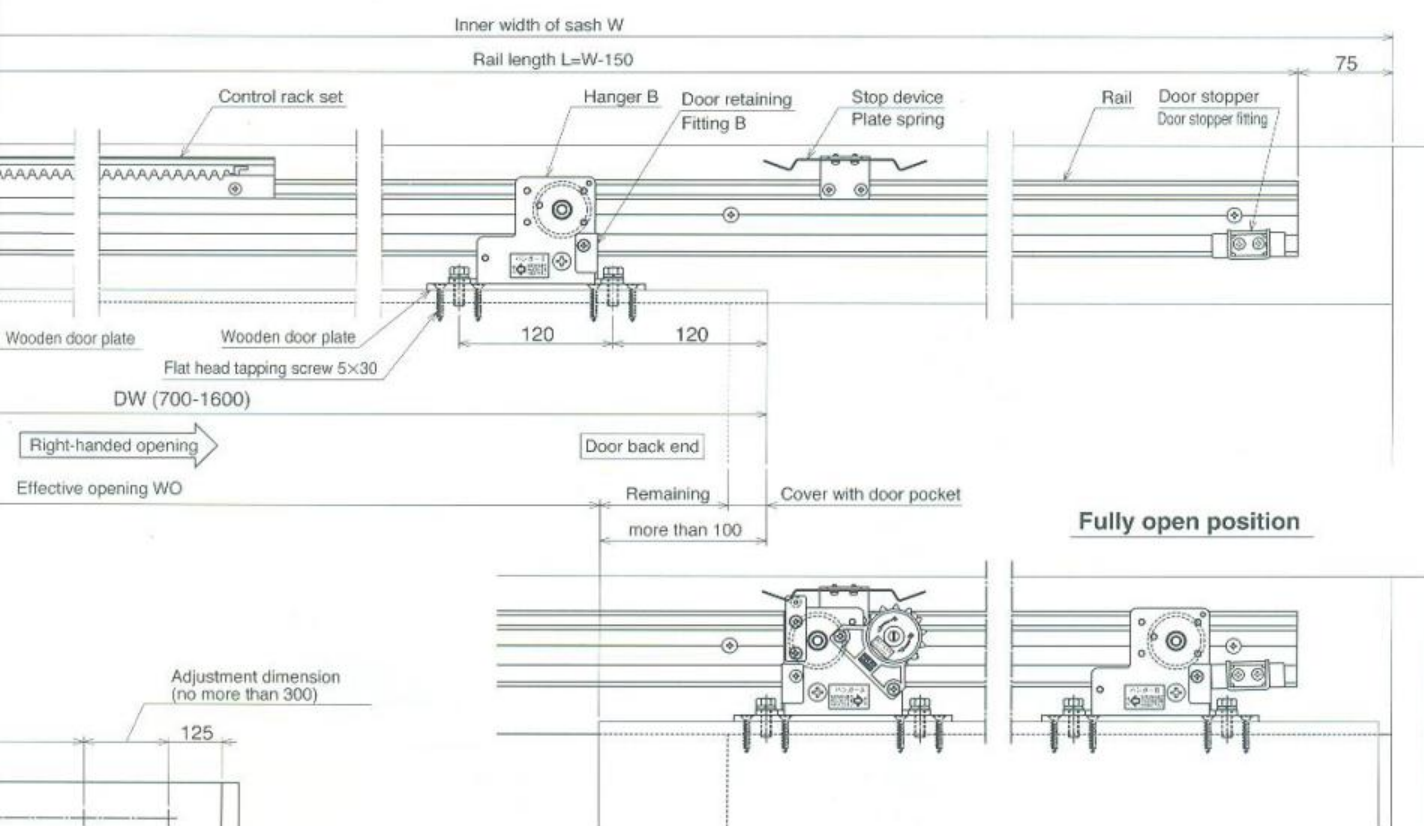
*When handling a steel frame,
tap M5 holes (P = 0.8).





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.
3. The hanger is installed directly with coach screws.

NSC-CW36 · 48



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.

For steel lightweight fittings, inclined,
with door weights of 10-30kg and 30-80kg

DSC-C03·08 series

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

Features

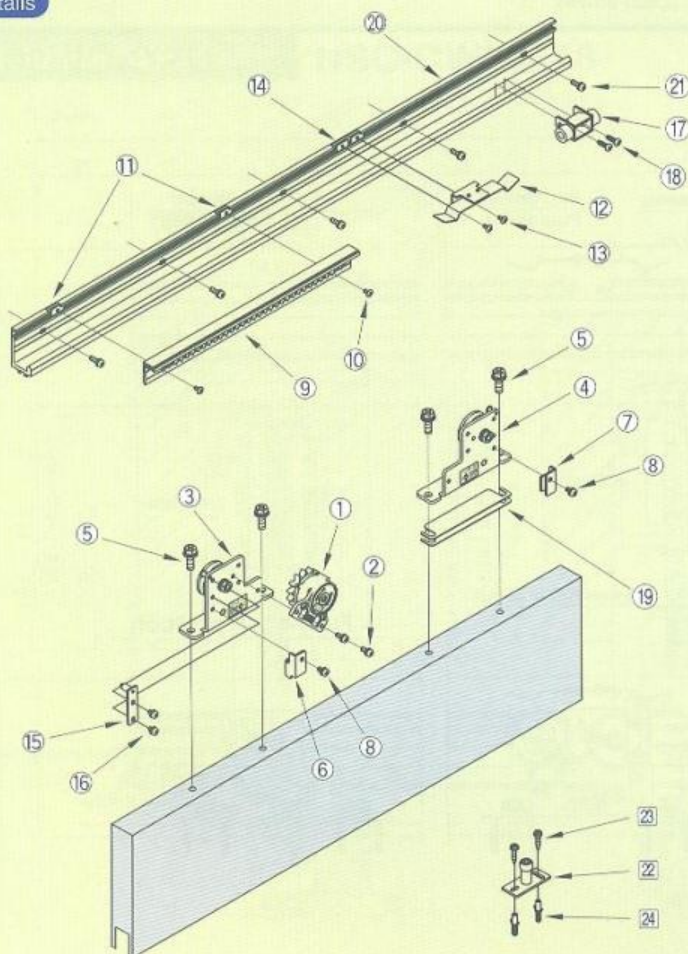
- A standardized set of parts required for inclined steel lightweight fitting types.
(The product comes standard with stop device, and other equipment.)
- An endless fluid friction resistance system ensures a long life.
- The product can be converted to the right- and left-handed opening types by simple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

Specifications

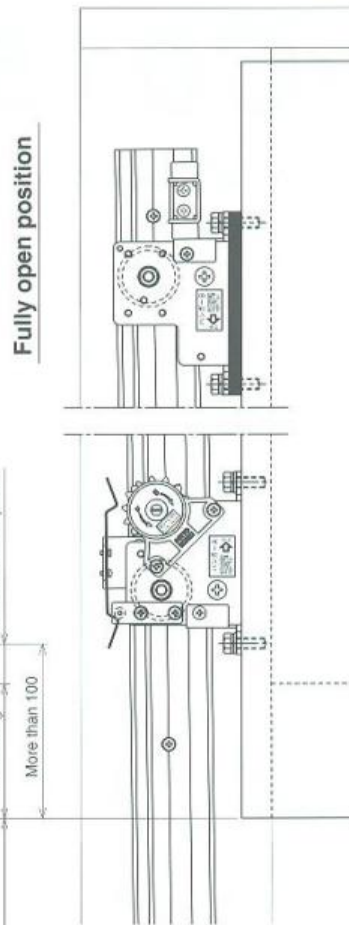
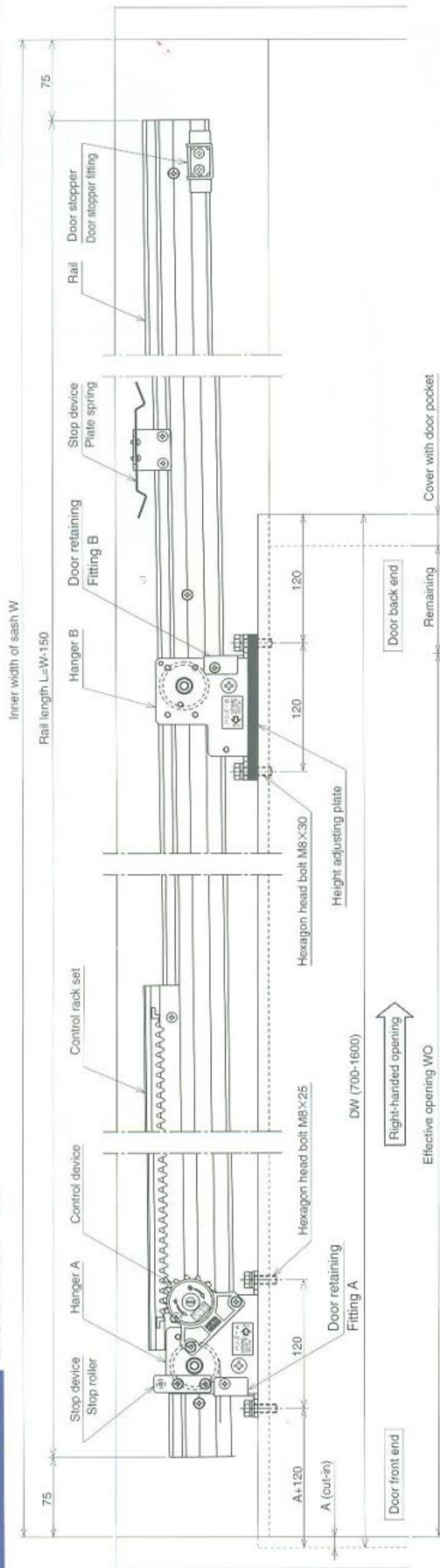
Model		DSC-C03-22	DSC-C03-31	DSC-C08-22	DSC-C08-31
Applicable doors	Weight [kg]	10-30		30-80	
	Width [mm]	700-1200	1200-1600	700-1200	1200-1600
Max. stroke [mm]		1500			
Closing drive system		Rail inclination (3.5/300)			
Controlling system		Fluid friction resistance type			
Controlling time		7-11 seconds (with a door-opening distance of 900mm)			
Initial opening force [N]		2.3-5.4		5.4-12.5	
Durability		More than 1 million open/close operations			
Rail length [m]		2.2	3.1	2.2	3.1



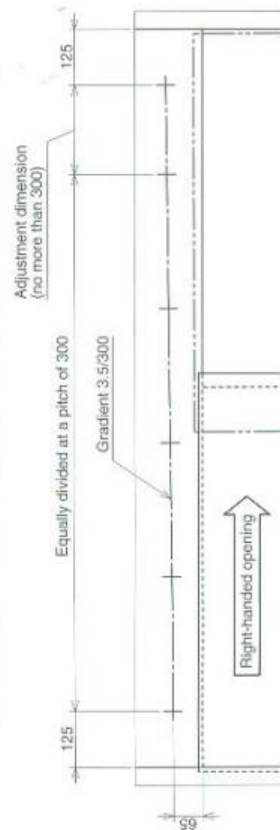
Part details



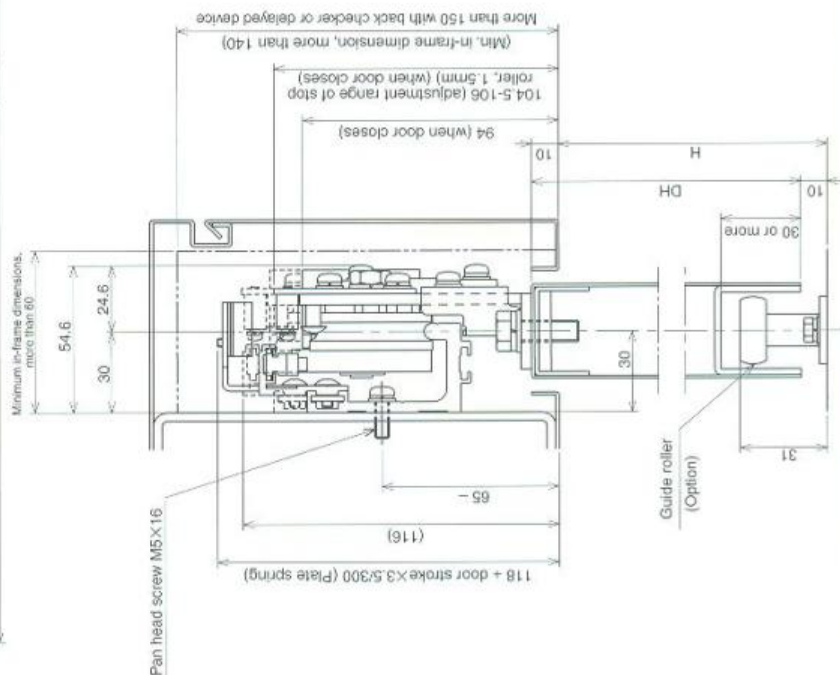
No.	Part	Q'ty	Remark
①	Control device	1	For control device
②	M5X12 pan head screw	2	
③	Hanger A	1	For hanger
④	Hanger B	1	
⑤	M8X25 hexagon head bolt	2	
⑥	M8X30 hexagon head bolt	2	
⑦	Door retention fitting Hanger A	1	Door retention
⑧	Door retention fitting Hanger B	1	
⑨	Pan head screw M5X8	2	
⑩	Control rack set	1	For control rack set
⑪	M4X8 truss screw	2	
⑫	Plate nut	2	For stop device
⑬	Plate spring	1	
⑭	M4X8 truss screw	2	
⑮	Stop roller	1	
⑯	M5X8 pan head screw	2	
⑰	Door stopper fitting	1	For door stopper
⑱	φ5X16 pan head tapping screw	2	
⑲	Height adjusting plate (t = 1.0, 0.5)	15+1	
⑳	Rail L = 2200 [L = 3100]	1	
㉑	M5X16 truss screw	8[11]	For rail
㉒	φ5X30 truss tapping screw	8[11]	
㉓	Guide roller	1	For guide roller Option
㉔	φ5X25 Hexagon tapping screw	2	
㉕	M5X12 Hexagon screw	2	
㉖	Curl plug	2	



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



Door width (mm)	No. of plates 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.



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.

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

DSC-C015 series

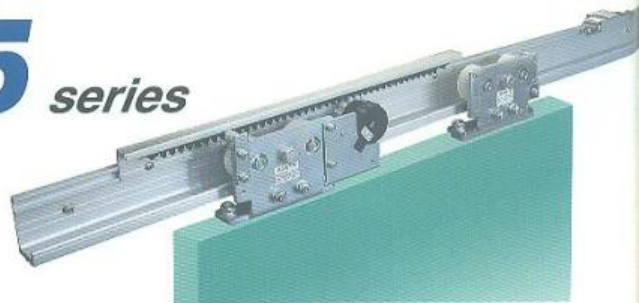
**Reliable, Cost Effective, Sliding Doors
Closers – Simple to Use & Install**

Features

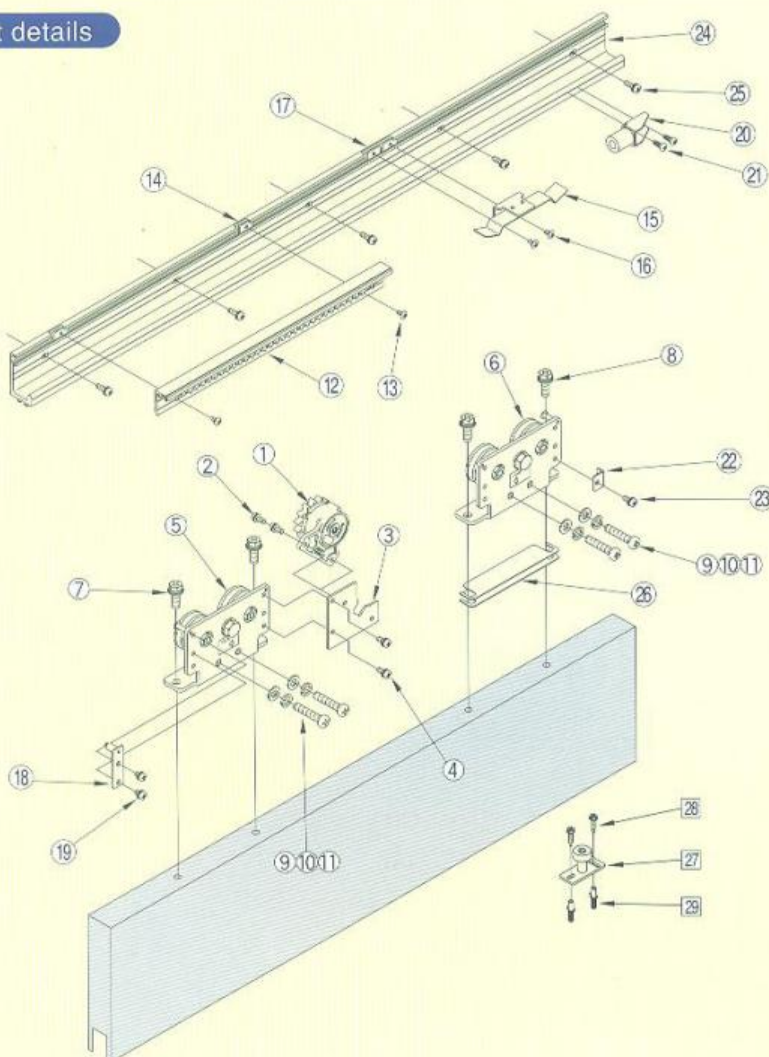
- A standardized set of parts required for inclined steel lightweight fitting types.
(The product comes standard with stop device, and other equipment.)
- An endless fluid friction resistance system ensures a long life.
- The product can be converted to the right- and left-handed opening types by simple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

Specifications

Model		Inclined type	
		DSC-C015-22	DSC-C015-31
Applicable doors	Weight [kg]	80~150	
	Width [mm]	700~1200	1200~1600
Max. stroke [mm]		1500	
Closing drive system		Rail inclination(3.5/300)	
Controlling system		Fluid friction resistance type	
Controlling time		7~11seconds (with a door-opening distance of 900mm)	
Initial opening force [N]		12.5~24.0	
Durability		More than 1 million open/close operations	
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	For hanger
⑤	HangerA	1	
⑥	HangerB	1	
⑦	M8×25 hexagon head bolt	2	For door retention
⑧	M8×30 hexagon head bolt	2	
⑨	M8×40 pan head screw	4	
⑩	Spring washer M8	4	For control rack set
⑪	Plain washer M8	4	
⑫	Control rack set	1	
⑬	M4×8 truss screw	2	For stop device
⑭	Plate nut	2	
⑮	Plate spring	1	
⑯	M4×8 truss screw	2	For door stopper
⑰	Plate nut	2	
⑱	Stop roller	1	
⑲	M5×8 pan head screw	2	For door stopper
⑳	Door stopper fitting	1	
㉑	φ16×19 pan head drill screw	2	
㉒	Door stopper plate	1	For Rail
㉓	M5×8 pan head screw	1	
㉔	Rail L=2200 [L=3100]	1	
㉕	M5×16 truss screw	8[11]	For Rail
㉖	φ5×30 truss tapping screw	8[11]	
㉗	Height adjusting plate (t=1.0,0.5)	15+1	
㉘	Guide roller	1	For guide roller Option
㉙	φ5×25 Hexagon tapping screw	2	
㉚	M5×12 Hexagon screw	2	
㉛	Curl plug	2	

For steel lightweight fittings, horizontal,
with door weights of 10-30kg, 30-60kg and 60-80kg

NSC-C23·36·48 series

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

Features

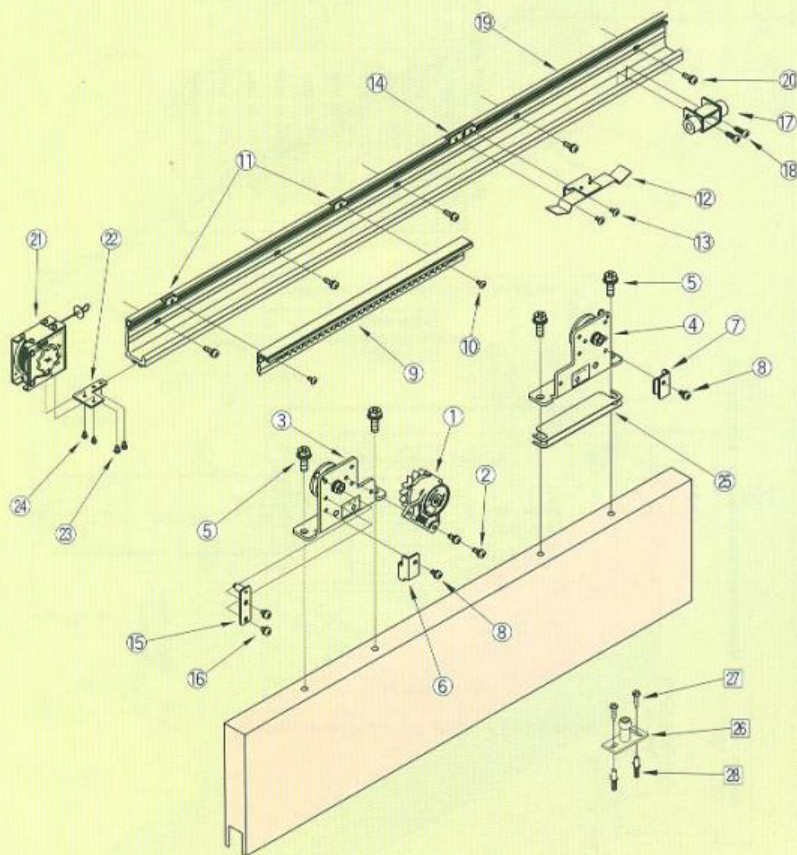
- A standardized set of parts required for horizontal steel lightweight fitting types.
(The product comes standard with a stop device, and other equipment.)
- An endless fluid friction resistance system ensures a long life.
- The product can be converted to the right- and left-handed opening types by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

Specifications

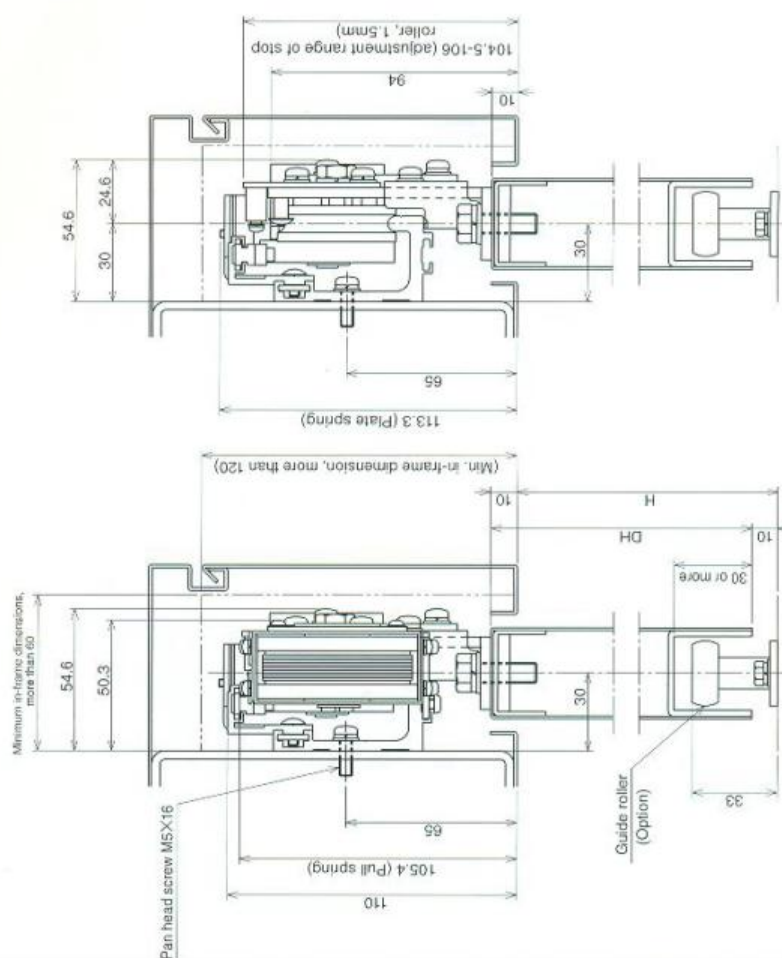
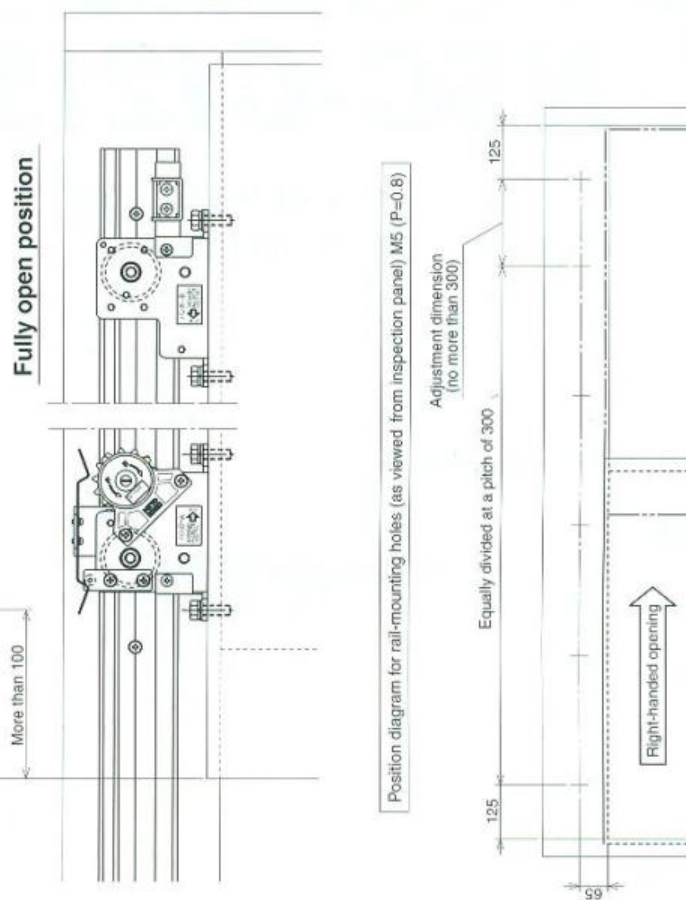
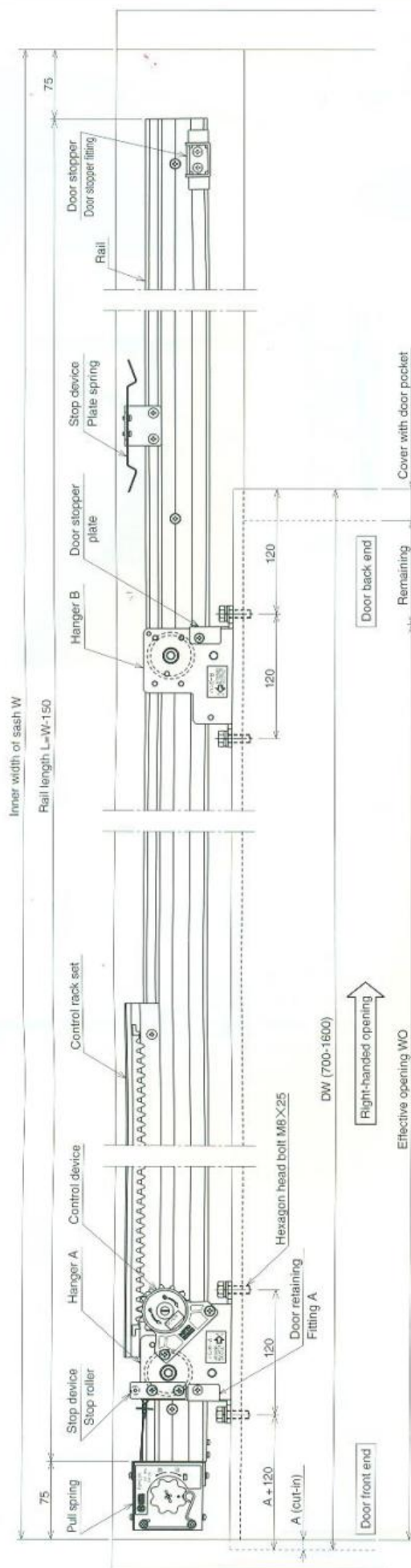
Model		NSC-C23-22	NSC-C23-31	NSC-C36-22	NSC-C36-31	NSC-C48-22	NSC-C48-31
Applicable doors	Weight [kg]	10-30		30-60		60-80	
	Width [mm]	700-1200	1200-1600	700-1200	1200-1600	700-1200	1200-1600
Max. stroke [mm]		1500					
Closing drive system		Spiral spring type					
Controlling system		Fluid friction resistance type					
Controlling time		7-11 seconds (with a door-opening distance of 900mm)					
Initial opening force [N]		3.5-4.6		4.7-6.9		7.0-8.0	
Durability		More than 1 million open/close operations					
Pull spring		PS-02		PS-03		PS-04	
Rail length [m]		2.2	3.1	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 hexagon head bolt	4	Door retention
⑥	Door retention fitting Hanger A	1	
⑦	Door retention fitting Hanger B	1	Door retention
⑧	Pan head screw M5 × 8	2	
⑨	Control rack set	1	For control rack set
⑩	M4×8 truss screw	2	
⑪	Plate nut	2	For stop device
⑫	Plate spring	1	
⑬	M4×8 truss 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 fitting	1	For door stopper
⑱	φ5×16 pan head tapping screw	2	
⑲	Rail L = 2200 [L = 3100]	1	For rail
⑳	M5×16 truss screw	8[11]	
㉑	φ5×30 truss tapping screw	8[11]	For pull spring
㉒	Pull spring	1	
㉓	Pull spring fitting	1	For pull spring
㉔	M4×5 truss screw	2	
㉕	M3×8 truss screw	2	For guide roller
㉖	Height adjusting plate (t=1.0)	4	
㉗	Guide roller	1	For guide roller
㉘	φ5×25 Hexagon tapping screw	2	
㉙	M5×12 Hexagon screw	2	Option
㉚	Curl plug	2	



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

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

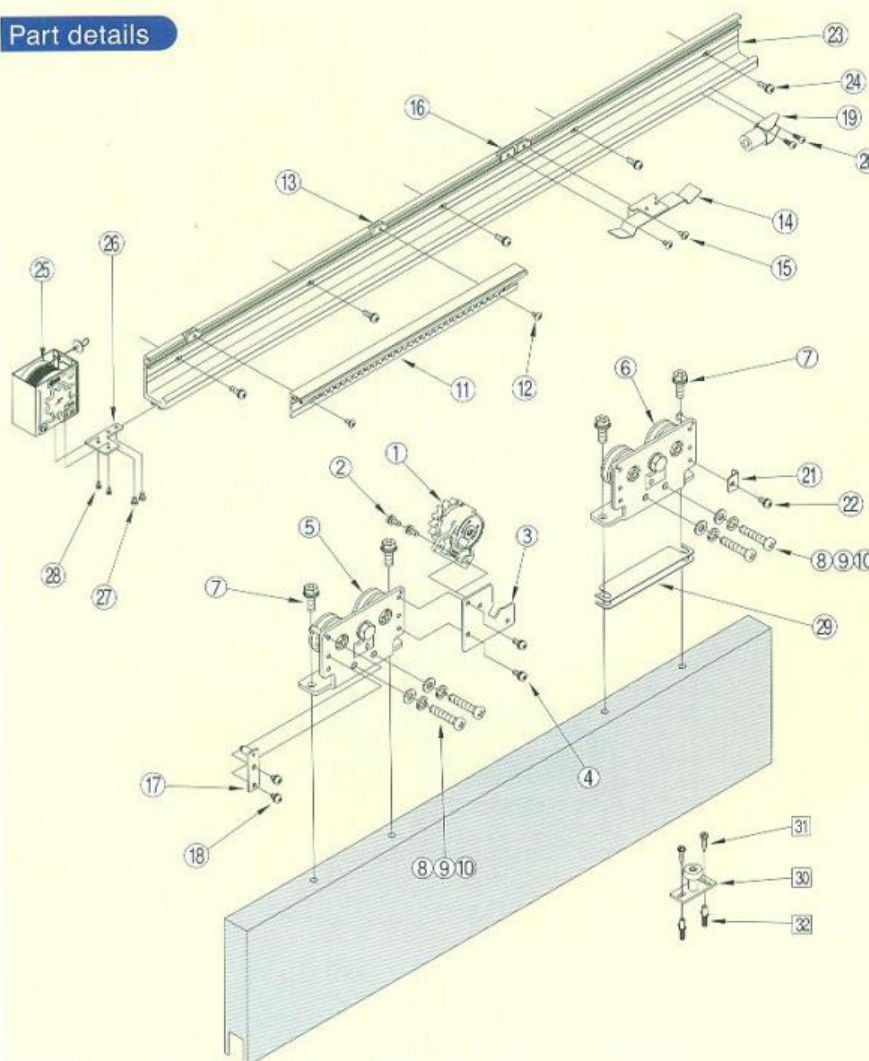
- A standardized set of parts required for horizontal steel lightweight fitting types. (The product comes standard with a stop device, and other equipment.)
- An endless fluid friction resistance system ensures a long life.
- The product can be converted to the right- and left-handed opening types by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

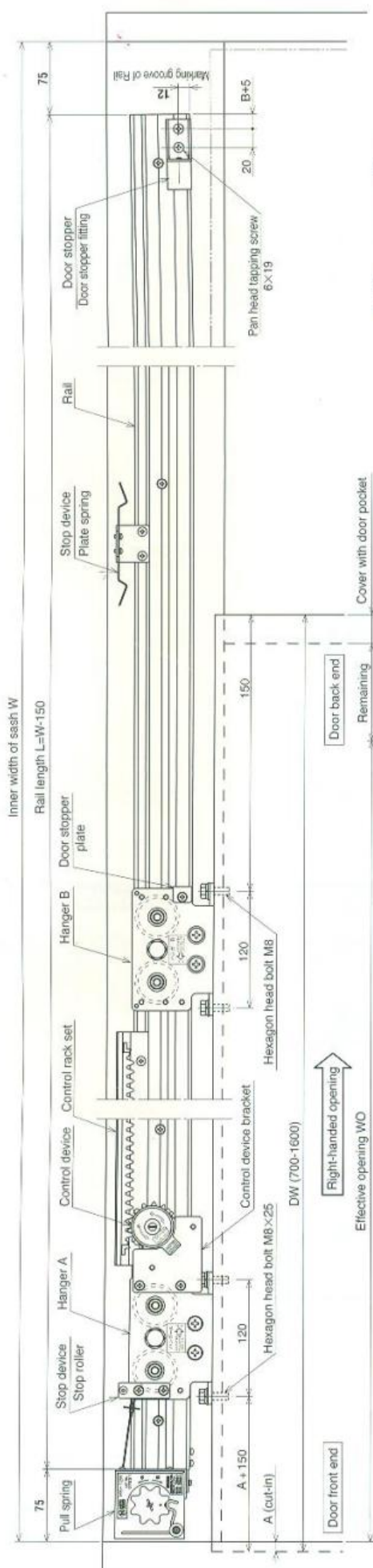


Part details

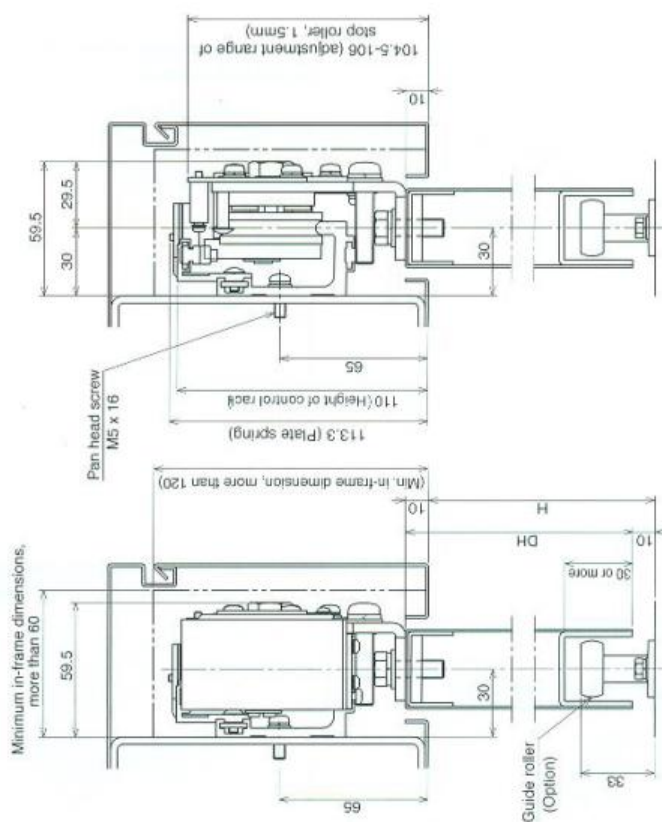
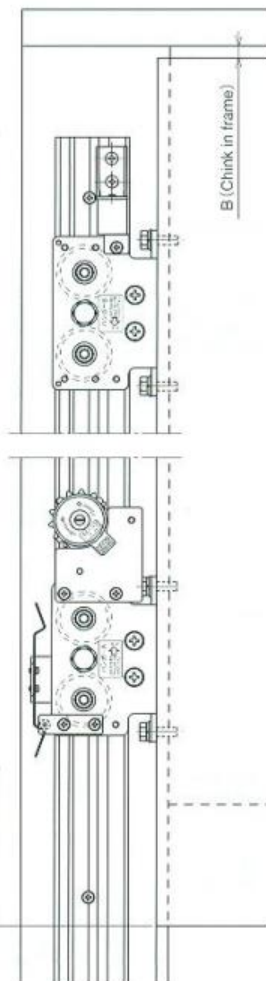


No.	Part	Q'ty	Remark
①	Control device	1	For control device
②	M5X12 pan head screw	2	
③	Control device bracket	1	
④	M5X12 pan head screw	2	
⑤	HangerA	1	For hanger
⑥	HangerB	1	
⑦	M8X25 hexagon head bolt	4	For door retention
⑧	M8X40 pan head screw	4	
⑨	Spring washer M 8	4	
⑩	Plean washer M8	4	
⑪	Control rack set	1	For control rack set
⑫	M4X8 truss screw	2	
⑬	Plate nut	2	For stop device
⑭	Plate spring	1	
⑮	M4X8 truss screw	2	
⑯	Stop roller	1	
⑰	M5X8 pan head screw	2	For door stopper
⑱	Door stopper fitting	1	
⑲	φ6X19 pan head drill screw	2	
⑳	Door stopper bearing plate	1	
㉑	M5X8 pan head screw	1	For pull spring
㉒	Rail L=2200 [L=3100]	1	
㉓	M5X16 truss screw	8[11]	
㉔	φ5X30 truss tapping screw	8[11]	
㉕	Pull spring	1	For pull spring
㉖	Pull spring fitting	1	
㉗	M4X5 pan head screw	2	
㉘	M3X8 pan head screw	2	
㉙	Height adjusting plate (t=1.0)	4	For guide roller
㉚	Guide roller	1	
㉛	φ5X25 Hexagon tapping screw	2	
㉜	M5X12 Hexagon screw	2	
㉝	Curl plug	2	Option

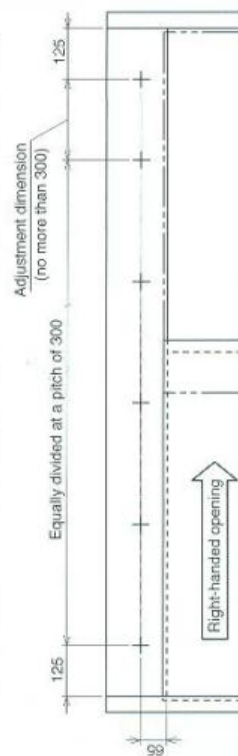
Installation diagrams NSC-C1215 series horizontal



Fully open position



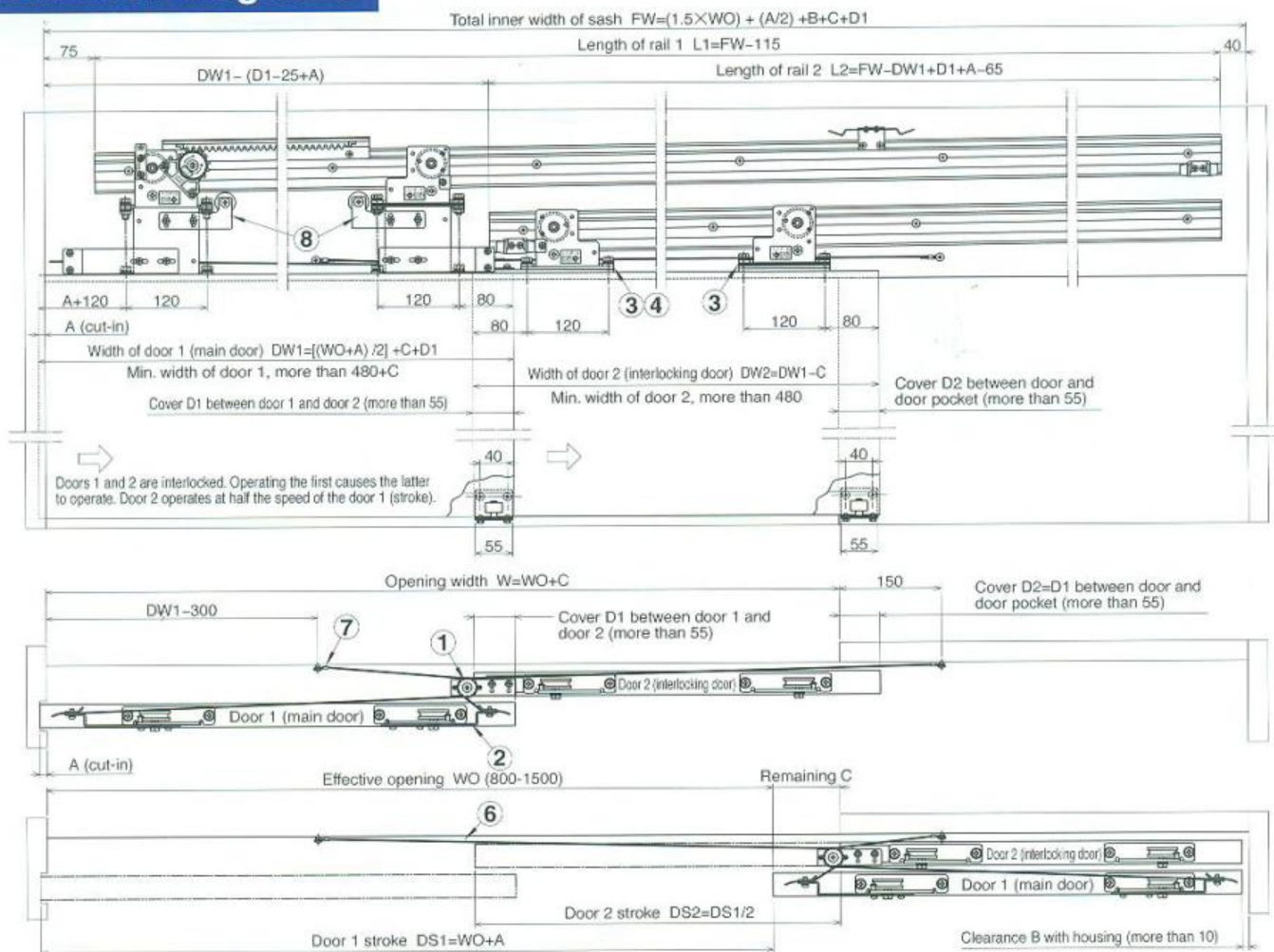
Position diagram for rail-mounting holes (as viewed from inspection panel) M5 (P=0.8)



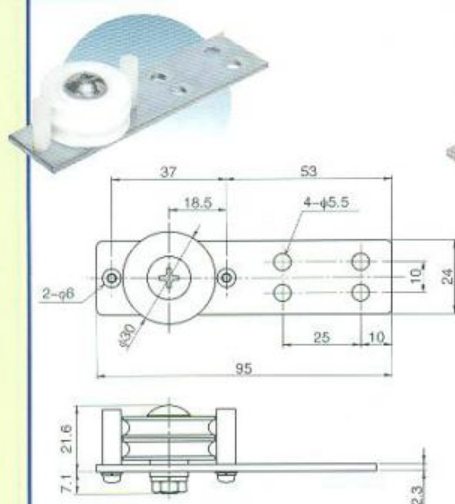
1. These diagrams represent a right-handed opening type. The left-handed opening type is a mirror image of these diagrams.
2. Door orientation is right-handed if the door is opened rightwards as viewed from the inspection panel, and left-handed if the door is opened leftwards.

Option Single action Double sliding system, SC-2S

Installation diagrams



1 Pulley fitting



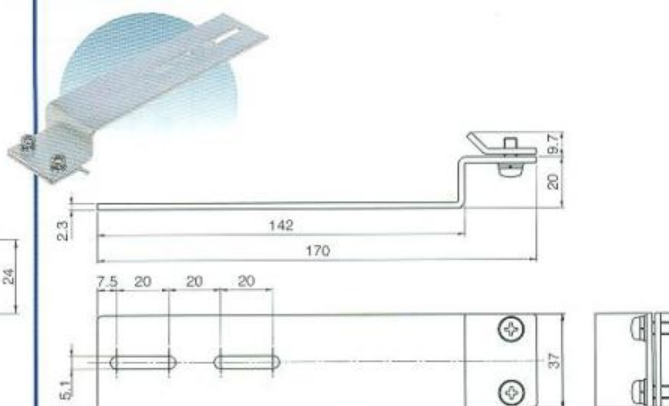
Fitting: Steel
Pulley: Polyacetal

7 Wire fastener on frame



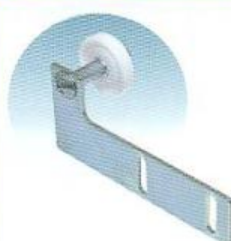
Fitting: Steel

2 Wire fitting

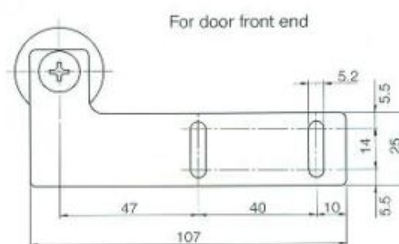


Fitting: Steel

8 Rebound-preventive fitting

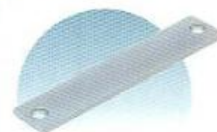


Fitting: Steel
Pulley: Polyacetal



For door front end

3 Liner S

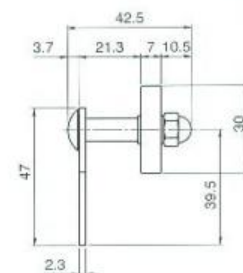


Liner: Steel

4 Liner L



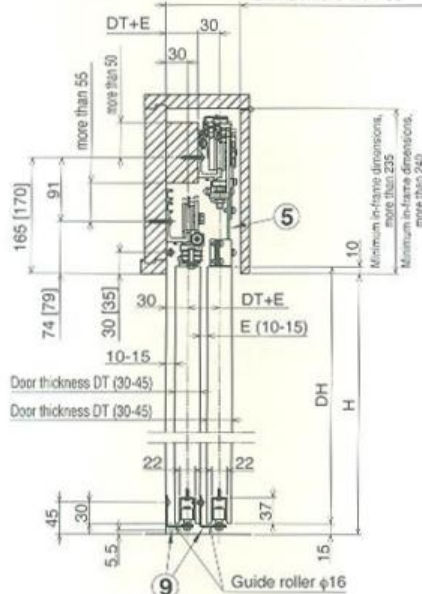
Liner: Steel



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

Technical drawing of a door frame showing dimensions and mounting details. The drawing includes a top view and a side view. Key dimensions include a total width of 125, a pitch of 300, and a gradient of 3.5/300. Mounting holes for rail 1 and rail 2 are indicated, along with mounting holes for wire fasteners. The drawing also shows the door front end and door back end.

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



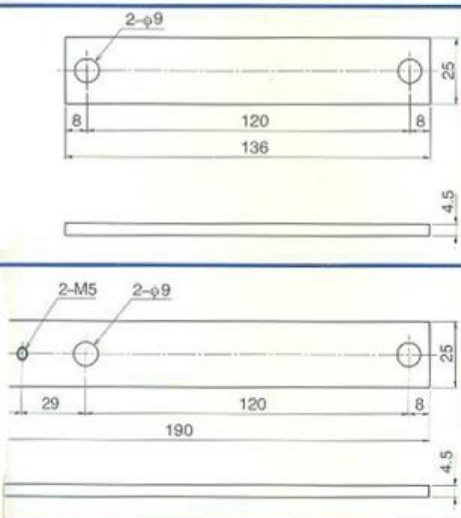
Constituents of single action Double sliding system

Item	Code	Formula
Effective opening	WO	Specify (800-1,500)
Cut-in of door front end	A	Specify
Clearance between housing and door after 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	$(1.5)(WO) + \frac{A}{2} + B + C + D1$
Length of rail 1	L1	FW-115
Length of rail 2	L2	FW-DW1+D1+A-65

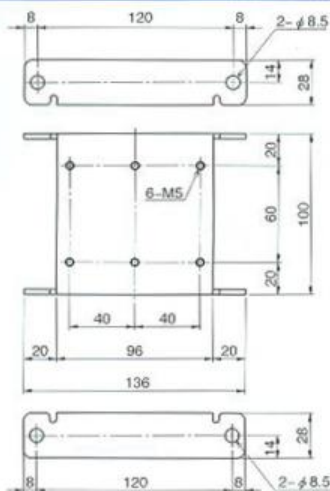
Item	Part	Qty of 1 set	Remark
①	Pulley fitting	1	
②	Wire fastener	2	
③	Liner S	3	
④	Liner L	1	
⑤	Hanger base	2	
⑥	Wire rope	2	
⑦	Wire fastener on frame	2	
⑧	Rebound-preventive fitting	2	1 pc each to dock head and to dock back and
⑨	Guide roller AJ	2	4 types, D = 16, 25, 30, 35
⑩	Hexagon head bolt (M8×25)	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

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-2S, Standard set, Hanger(A,B), Rail and Door stopper.

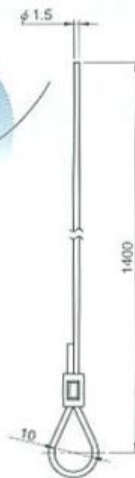
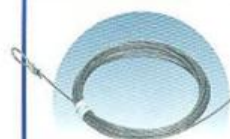


⑤ Hanger base

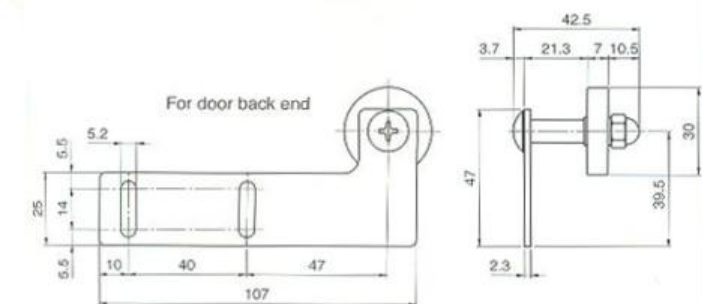


Base: Steel

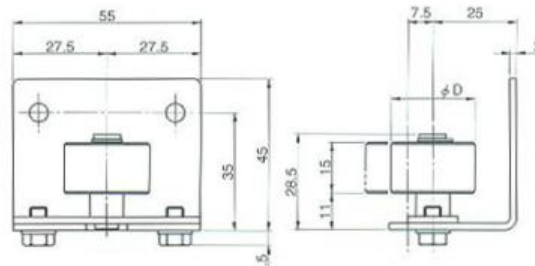
6 Wire rope



Wire: Stainless steel



9 Guide roller AJ

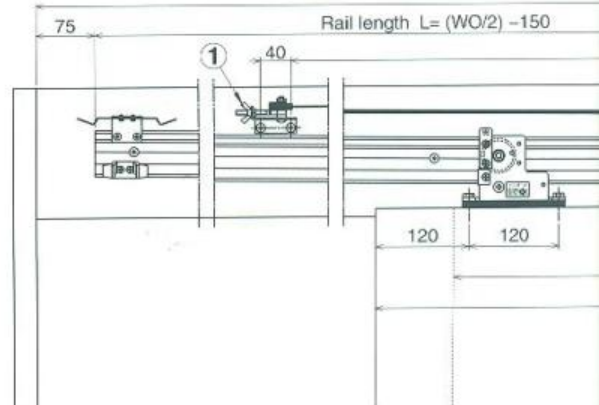
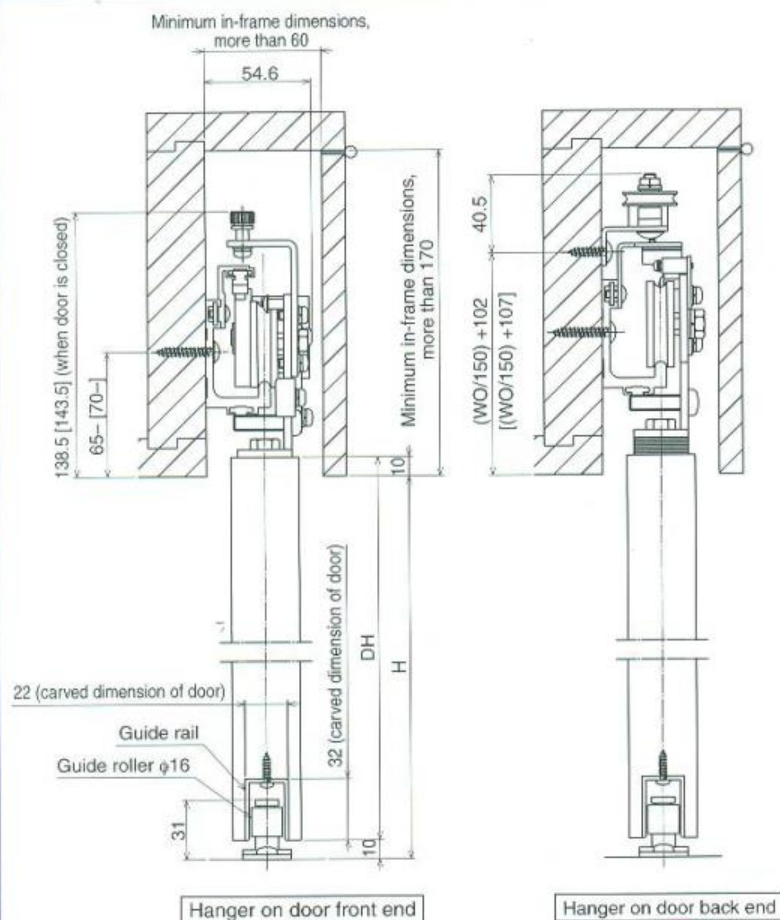


Fitting: Steel
Roller: Polyacetal

*4 types, $\phi D = 16, 25, 30, 35$

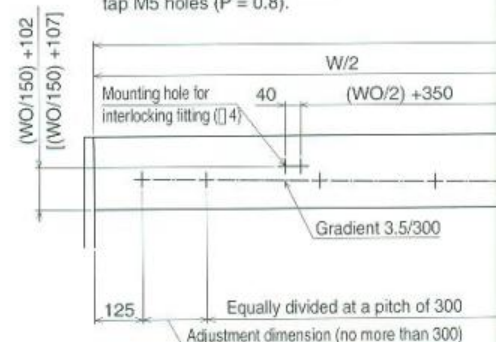
Option Bi-Parting system, SC-W

Installation diagrams

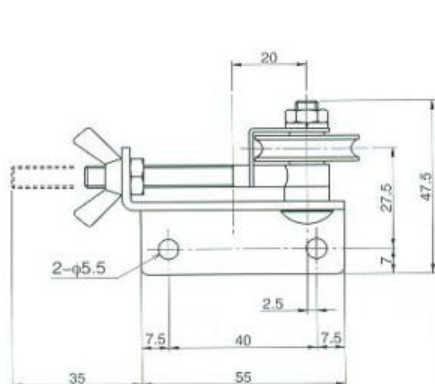
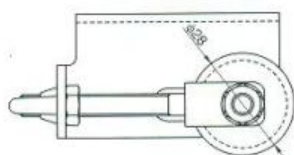


Position diagram of holes on the frame (as viewed from the maintenance cover)

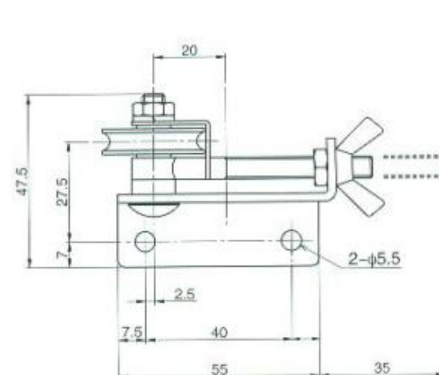
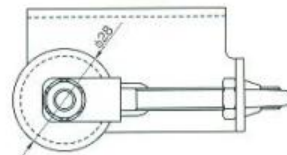
*When handling a steel frame, tap M5 holes ($P = 0.8$).



1 Adjustment fitting L

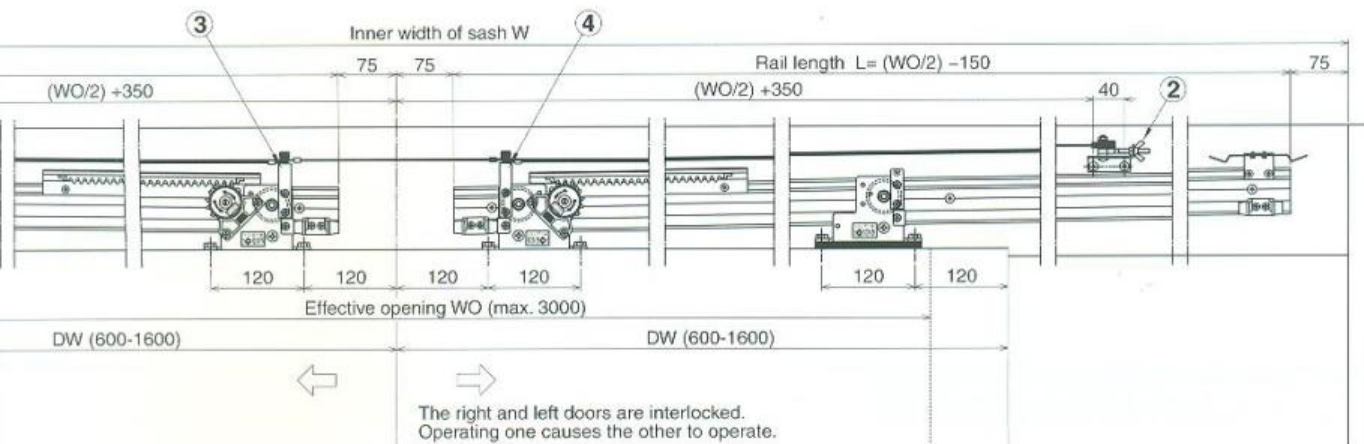


2 Adjustment fitting R



Fitting: Steel
Roller: Polyacetal

Bi-Parting system, SC-W

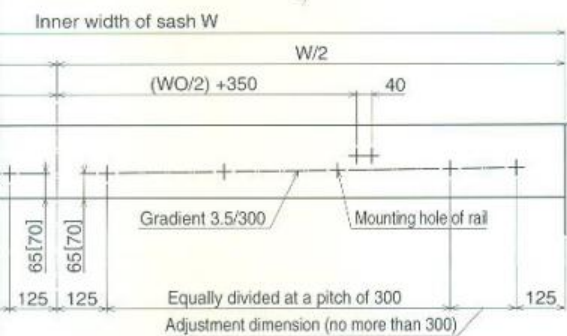


Constituents of Bi-Parting system

Item	Part	Q'ty 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

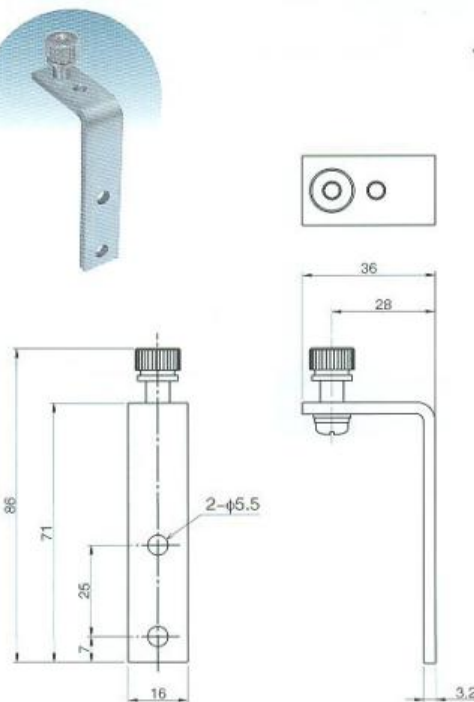
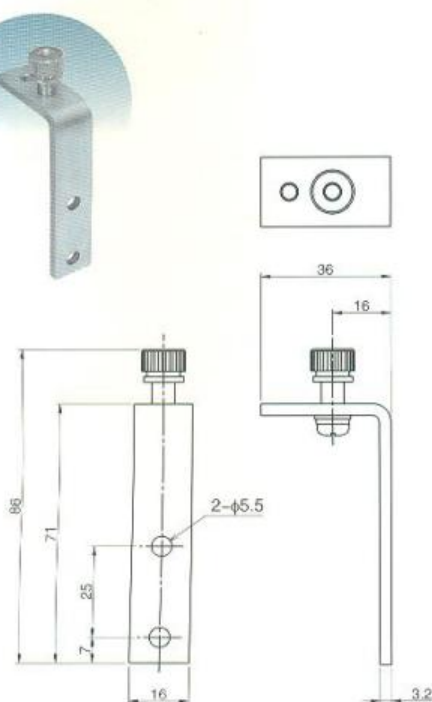
- These diagrams represent a right-handed opening type. The left-handed opening type is a mirror image of these diagrams.
- The dimensions in [] are used when the wooden door plate is used (DSC-CW08 and NSC-CW36/48).
- These diagrams show how an inclined DSC is typically installed. The inclined and horizontal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



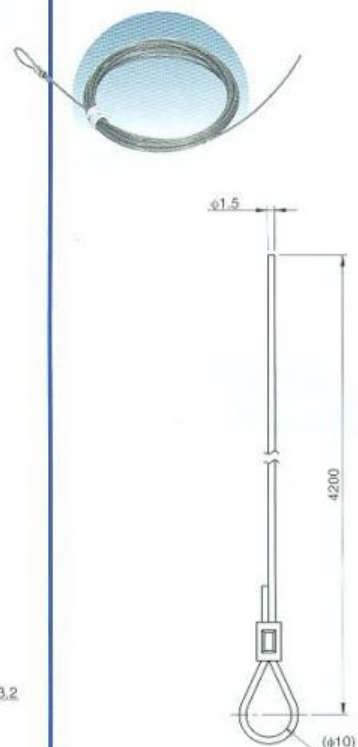
③ Angle L

④ Angle R

⑤ Wire rope



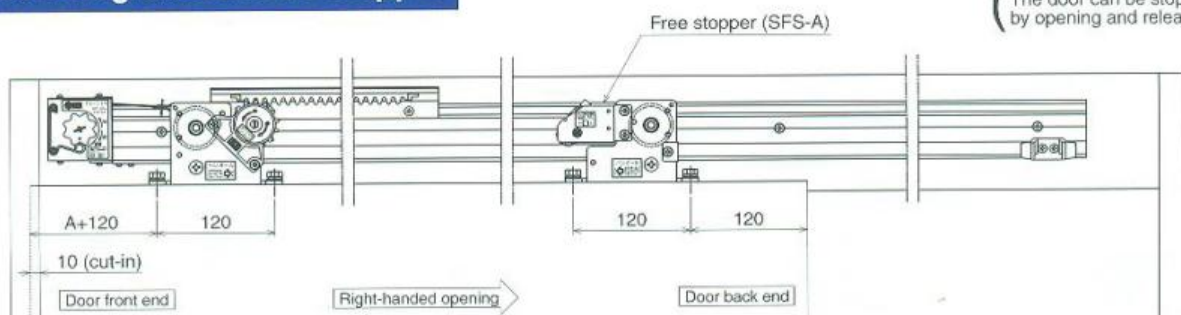
Angle: Steel



Wire: Stainless steel

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

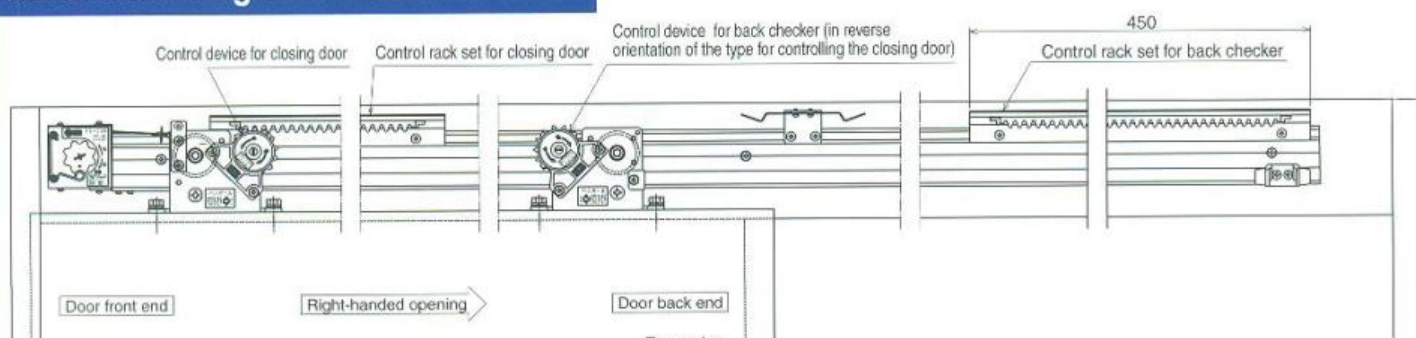
Installation diagrams of free stopper



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.

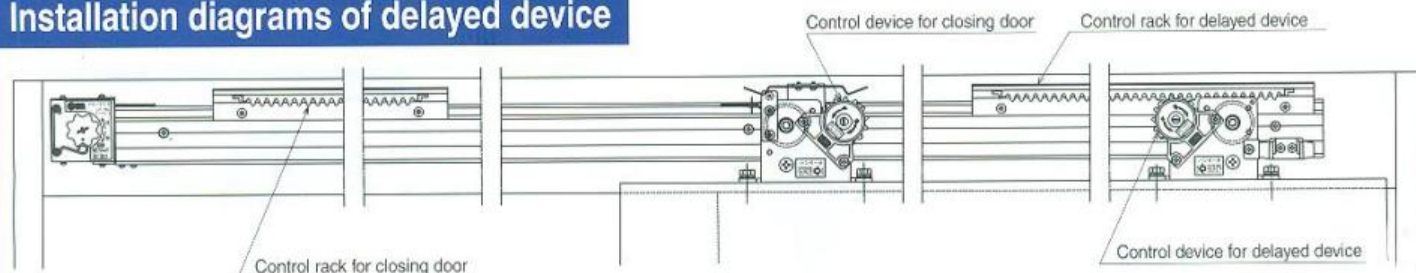
Installation diagrams of back checker



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.

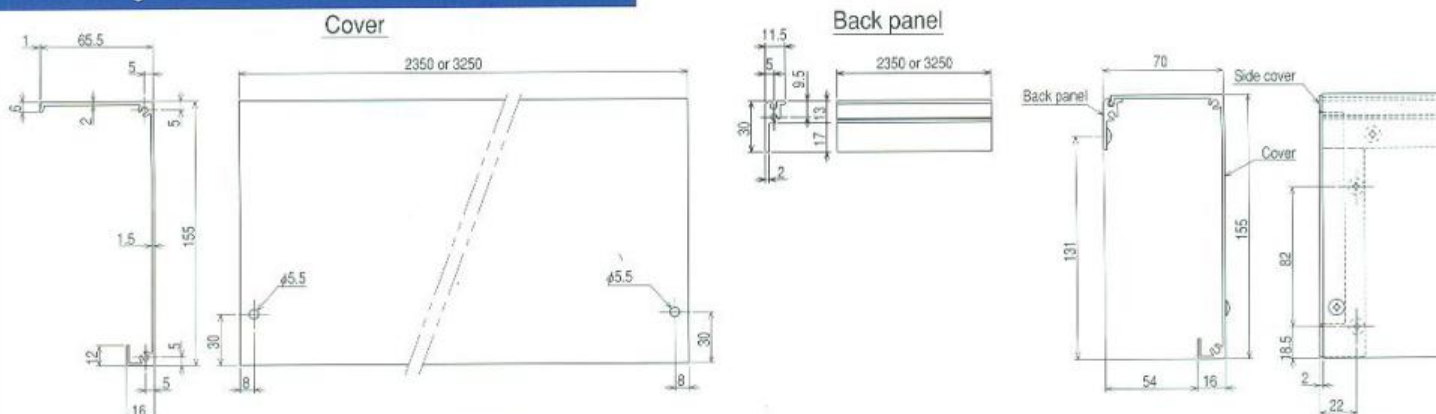
Installation diagrams of delayed device



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

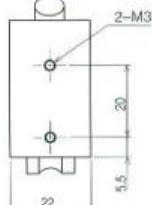
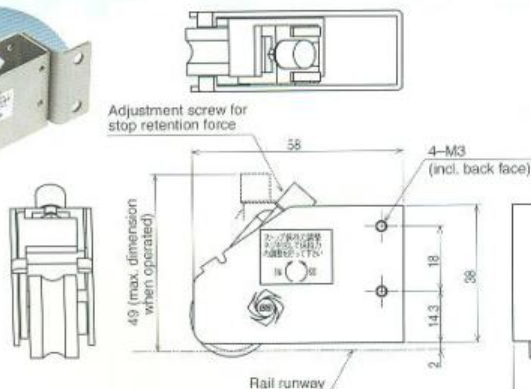
Diagram of fittings installed

For right-handed opening type

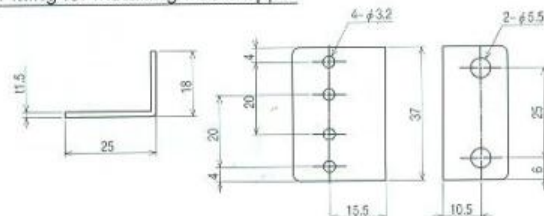
For left-handed opening type



Adjustment screw for stop retention force

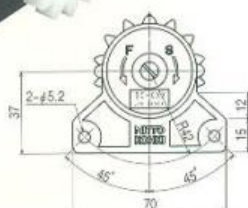


Fitting for installing free stopper

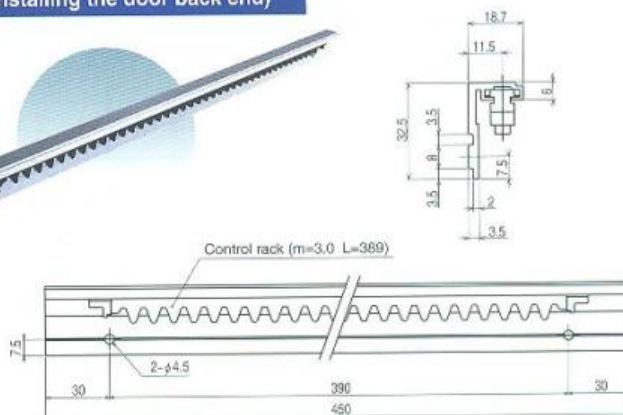
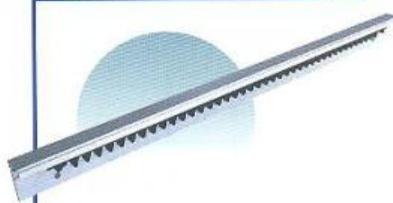
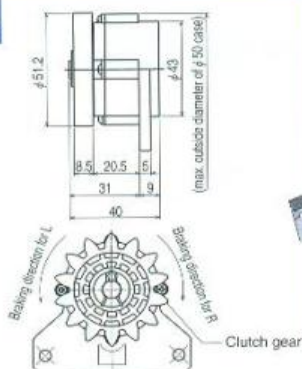


Control device for back check (installing the hanger on the door back end)

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

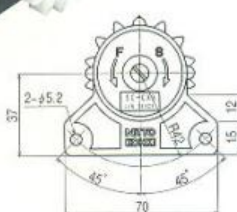


Reverse orientation of the control device for the closing door.

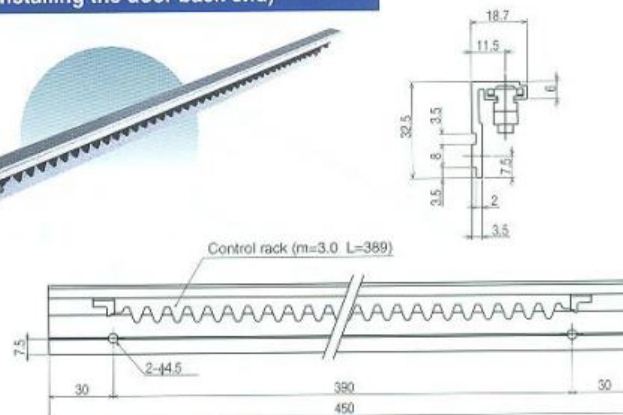
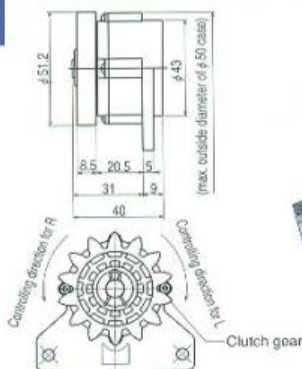


Control device for the delayed device (installing the hanger on the door back end)

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

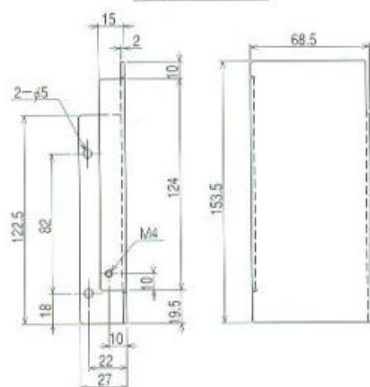
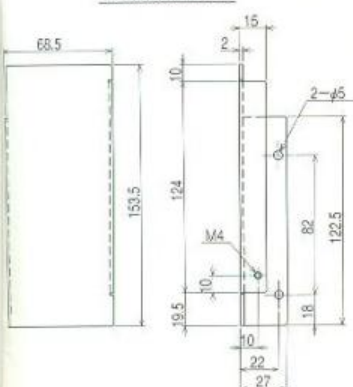


The same orientation as the control device for the closing door.



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.

For lightweight fittings in bathrooms, horizontal type for
bathrooms with door weights of 10-30kg, 30-60kg and 60-80kg

NSC-CB23·36·48 series

The use of stainless steel and a unique sealing technology has created corrosion-resistant, long-life products.

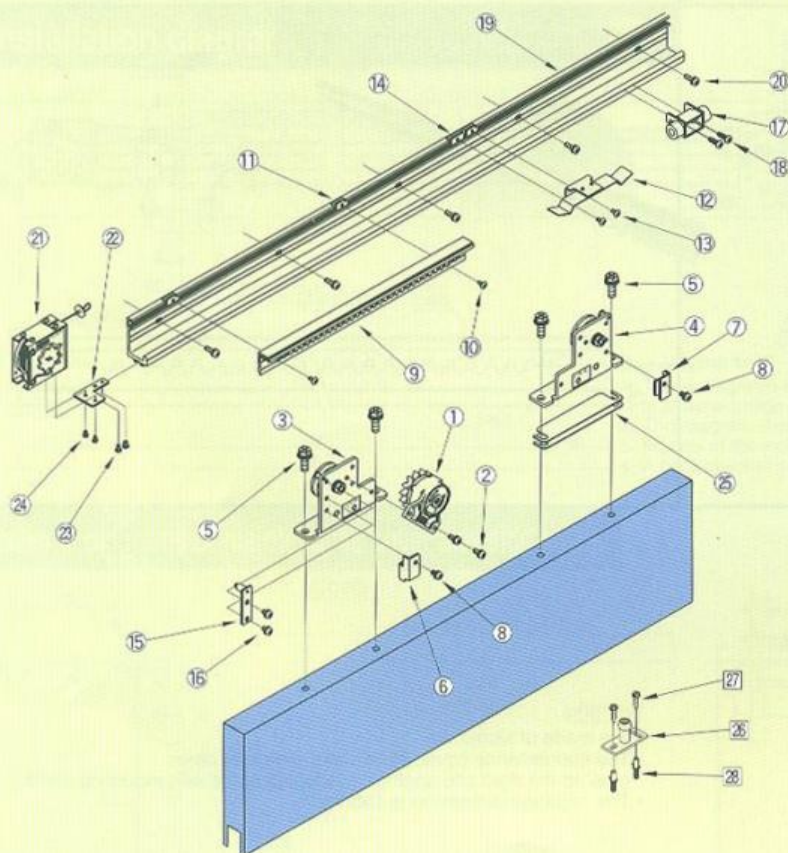
Features

- These products can be used for long periods even in bathrooms and other hot corrosive environments. (They cannot be used in sauna rooms or other very hot environments.)
- The rotary part of the door roller is so designed as to be independent of dust or moisture, thus ensuring high corrosion-resistance and long stability.
- These products apply to doors weighing 10-80kg with openings not exceeding 1,500mm.
- The control device consists of a controlling-force centrifuge structure based on fluid friction resistance, thus ensuring high reliability.
- These products use a pull spring giving excellent performance and high durability (1 million operations) to close the door securely with a light force.

Specifications

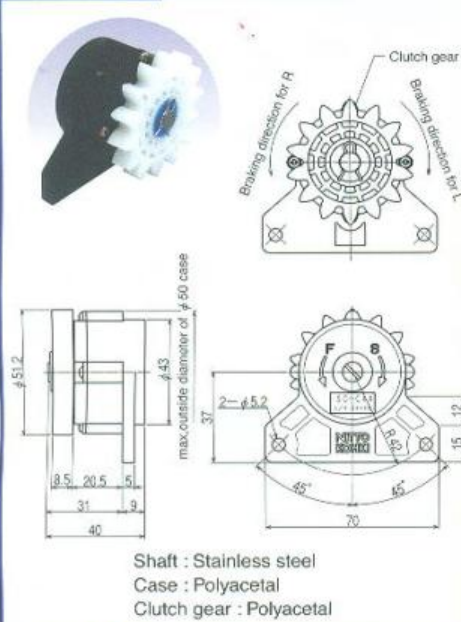
Model		NSC-CB23-22/NSC-CB23-31			NSC-CB36-22/NSC-CB36-31			NSC-CB48-22/NSC-CB48-31		
Applicable doors	Weight [kg]	10-30			30-60			60-80		
	Width [mm]	700-1200	1200-1400	1400-1600	700-1200	1200-1400	1400-1600	700-1200	1200-1400	1400-1600
Max. stroke [mm]		1500								
Closing drive system		Spiral spring type								
Controlling system		Fluid friction resistance type								
Controlling time		8-15 seconds (with a door-opening distance of 900mm)								
Initial opening force [N]		3.5-4.6			4.7-6.9			7.0-8.0		
Durability		More than 1 million open/close operations								
Pull spring		PS-B02			PS-B03			PS-B04		
Rail length [m]		2.2	2.8	3.4	2.2	2.8	3.4	2.2	2.8	3.4

Parts details

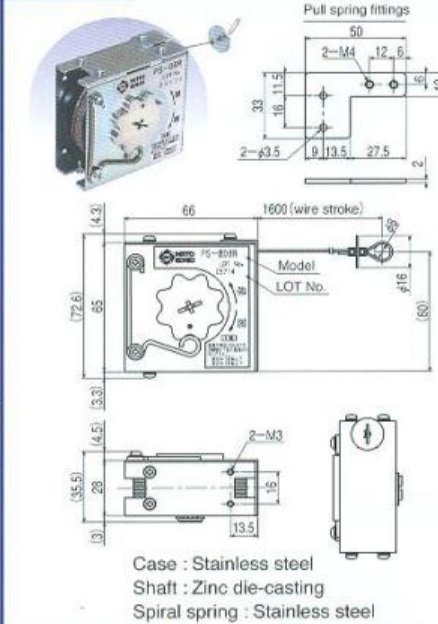


Part	No.	Remark	Q'ty
Control device	①	SC-CB03/SC-CB08	1
	②	M5X12 pan head screw	2
Hanger	③	Hanger A	1
	④	Hanger B	1
	⑤	M8X25 hexagon head bolt	4
Door retention	⑥	Door retention fitting Hanger A	1
	⑦	Door retention fitting Hanger B	1
	⑧	Pan head screw M5 x 8	2
Control rack set	⑨	Control rack set	1
	⑩	M4X8 truss screw	2
	⑪	Plate nut	2
Stop device	⑫	Plate spring	1
	⑬	M4X8 truss screw	2
	⑭	Plate nut	2
	⑮	Stop roller	1
	⑯	M5X8 pan head screw	2
Door stopper	⑰	Door stopper fitting	1
	⑱	5X16 pan head tapping screw	2
Rail	⑲	Rail L=2200 [L=3100]	
	⑳	M5X16 pan head screw	8[11]
	㉑	5X30 truss tapping screw	8[11]
Pull spring	㉒	Pull spring	1
	㉓	Pull spring fitting	1
	㉔	M4X5 pan head screw	2
	㉕	M3X8 pan head screw	2
Height adjusting plate	㉖	(T=1.0)	4
Guide roller (Option)	㉗	Guide roller	1
	㉘	5X25 hexagon tapping screw	2
	㉙	M5X12 hexagon head bolt	2
	㉚	Curli plug 6X30	2

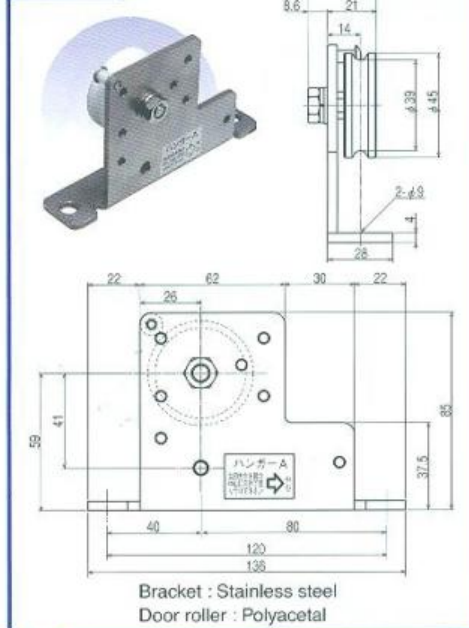
Control device SC-CB03/SC-CB08



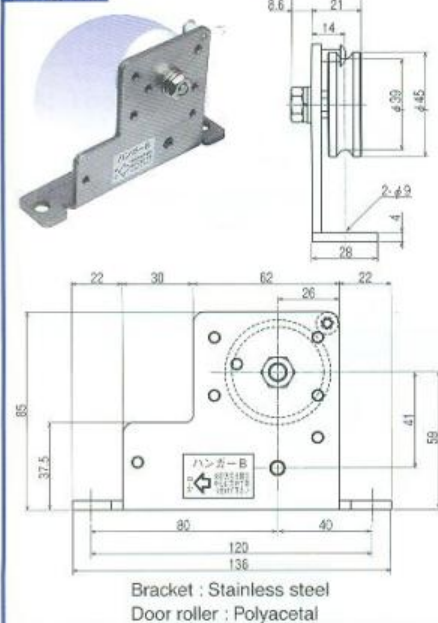
Pull spring PS-B02/PS-B03/PS-B04



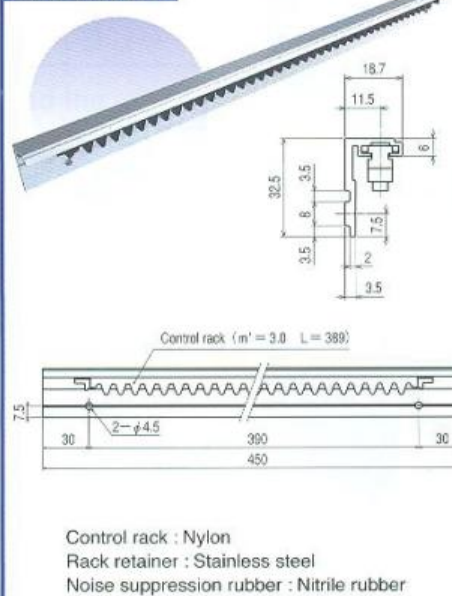
Hanger A



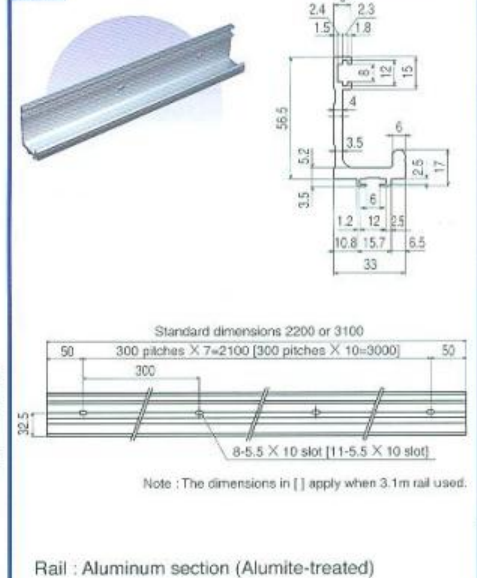
Hanger B



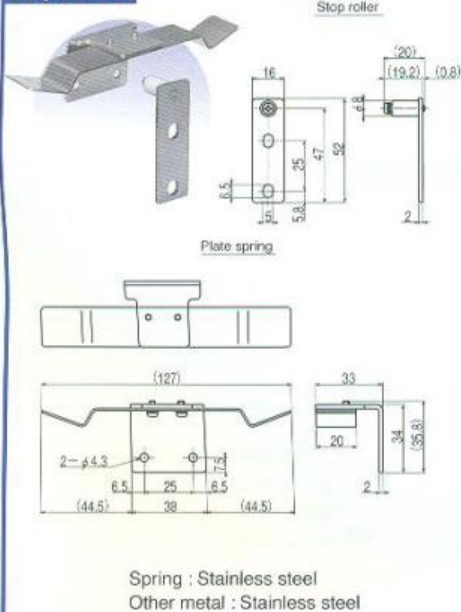
Control rack set



Rail



Stop device



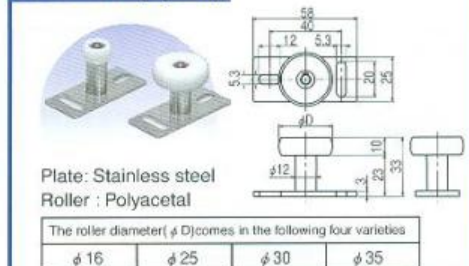
Door stopper



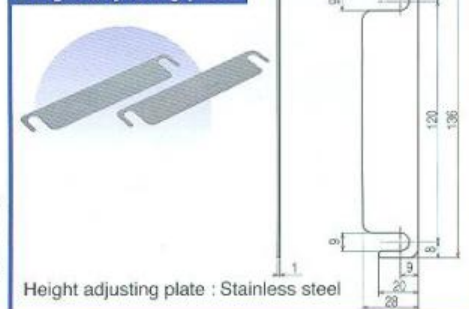
Door retaining fitting for CB type



Guide roller (Option)



Height adjusting plate

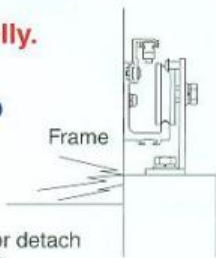


Q&A on Troubleshooting

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.



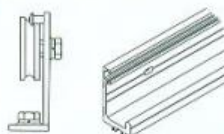
A: The door is not installed vertically.

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



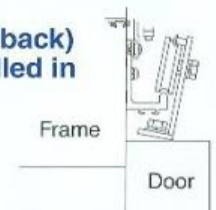
A: The door rollers of the hanger and the rail runway are scratched and dirty.

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



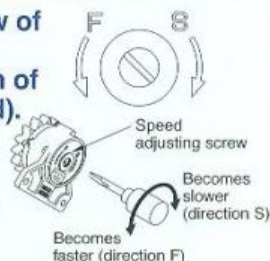
A: The door rollers (front and back) of the hanger are not installed in parallel with the rail.

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



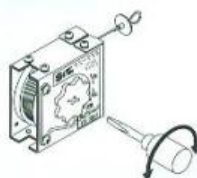
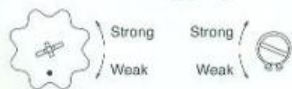
A: The speed adjusting screw of the control device is overturned in the direction of slow (direction S indicated). (An excessive controlling force is applied.)

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



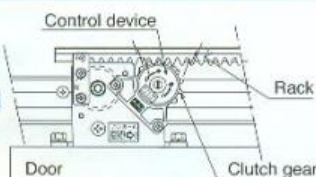
A: The pull spring is unadjusted (a horizontal type).

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.

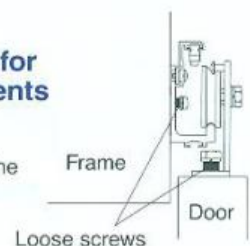
Action: Alleviate the contact.
Example: Cut the rubber or take another appropriate action.



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

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.



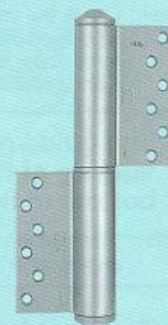
PC series

- Drip-proof 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.



BUTTERFLY TYPE

- Small, slim door closer, being most suitable for lightweight doors (for indoor type).
- Easy to install because of having butterfly shape.
- Usable in common for both right- and left-side opening.



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.)



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