# CABINET DOOR HARDWARE

LATERAL OPENING DOOR SYSTEM GLASS SHOWCASE HARDWARE





MonoFlat LIN-X hinge

### P.592~595

Custom Set: Max. Door Weight 15 lbs Standard Set: Max. Door Weight 37 lbs



MonoFlat LIN-X hinge

### P.596~597

Custom Set: Max. Door Weight 20 lbs Standard Set: Max. Door Weight 53 lbs



SUGATSUNE



LIN-X800

www.sugatsune.com



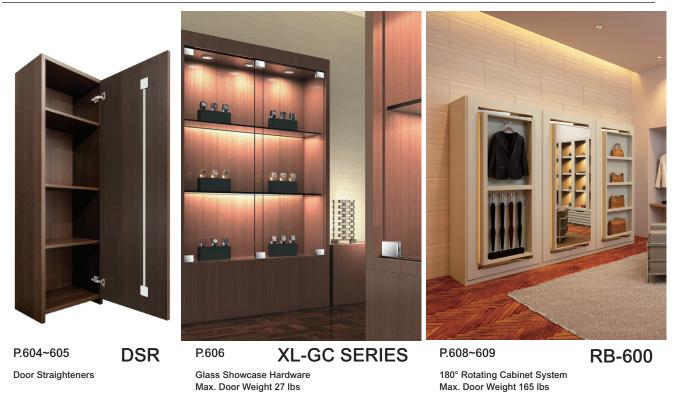


MonoFlat FAD P.601 Max. Door Weight 11 lbs FAD-5



MonoFlat FAD P.602~602 Max. Door Weight 44 lbs FAD-20

### SPECIALITY DOOR HARDWARE



LATERAL OPEN CABINET HARDWARE



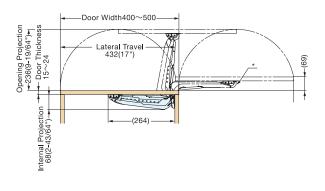


14 11						
Item No.	LIN-X450	LIN-X600				
Door Width	400~500 mm	550~650 mm				
Door width	(15-3/4"~19-11/16")	(21-5/8"~25-9/16")				
Door Height	600~2400 mm (23-5/8"~94-1/2")					
Door Thickness	Door Thickness 15~24 mm (5/8"~15/16")					
Door Weight         *Max 17 kg (37.4 lbs)         *Max 24 kg (52.8 lbs)						
*Max door weight will vary depending on number of hinges used.						

INSTALLATION

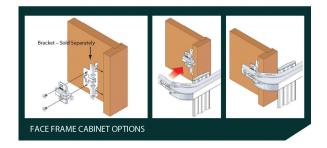
# Sabeline Brabeline Brabeline

### LIN-X450

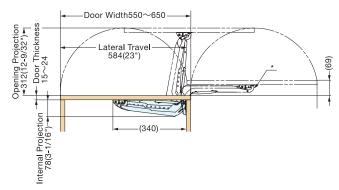


# LIN-X450 / LIN-X600

- Lateral Swing Mechanism Allows doors to swing out laterally in a small radius, ideal for tight front space application.
- Full Access to Cabinet Door will not get in the way when fully opened providing full cancer to the gebinet
- access to the cabinet. • Free Swing & Soft-close
- Easy Installation
- Designed for standard 32 mm system mounting, with snap-on hinge.
- 4-Way Adjustable
- 3-way adjustable like concealed hinges and also with parallel adjustment.
- Various Applications Can be used in single or double door configuration. Ideal for cabinets in kitchen, bathroom, laundry room etc.
   \*For overlay use.



### LIN-X600

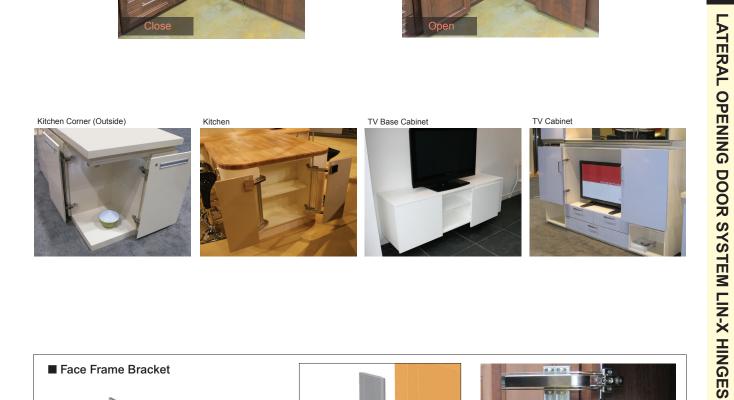


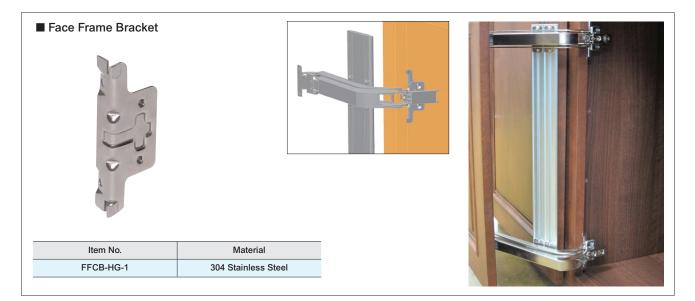


### Application

Kitchen Corner (Inside)







www.sugatsune.com

**1-800-562-5267** (U.S.A. Only)



Opening Projection - Door Thickness 15~24

(68)

Door Height 600~900 (23-5/8"~35-7/16") Door (Max.7kg)

Door Width 400~500

# LATERAL OPENING DOOR SYSTEM

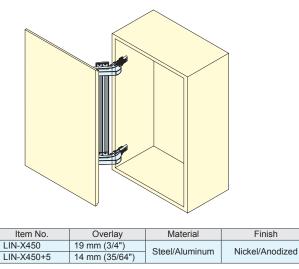
# LIN-X450

Max.490 - (546) -(21-1/2")

THE OWNER

(264) (10-25/64") (02)-

### Standard Kit

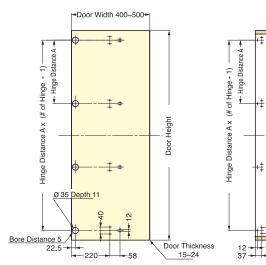


Door Width	400~500 mm (15-3/4"~19-11/16")		
Door Height	600~900 mm (23-5/8"~35-7/16")		
Door Thickness	15~24 mm (5/8"~15/16")		
Door Weight Max. 7 kg (15.4 lbs) / Door			
*Can be used on heavier / taller doors by adding hinge arms.			

Please see below for details

## ■ Individual Parts for Tall / Heavy Door

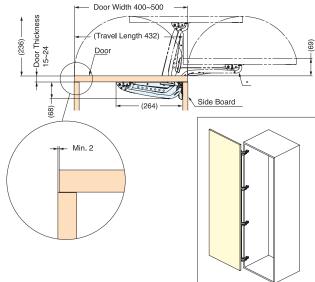
### Door Preparation



Hinge in middle should be positioned at or equally distributed from center of door.

### Door Width 400~500 mm (15-3/4"~19-11/16") 600~2400 mm (23-5/8"~94-1/2") Door Height Door Thickness 15~24 mm (5/8"~15/16") Max. 17 kg (37.4 lbs) Door Weight

# Cabinet Preparation



### Hinge Distance A

Cabinet Inside Height = Connecting Bar + 20mm

Min.

•								
# of Hinges		Length of Connecting Bar (mm)						
# OF FILLINGES	540	840	1140	1440	1740	2040		
2 pcs	490.0	790.0	1090.0	-	-	-		
3 pcs	245.0	395.0	545.0	695.0	845.0	-		
4 pcs	-	263.3	363.3	463.3	563.3	663.3		
5 pcs	-	-	272.5	347.5	422.5	497.5		

594

# **1-800-562-5267** (U.S.A. Only)

### ■ Individual Parts - Ordering Chart

### Ordering Info

Use corresponding letter in below table, and see "Parts Breakdown Table" for parts to be ordered.

	Door Weight					
Door Height	~15.5 lbs (~7.0 kg)	15.6~23.0 lbs (7.1~10.5 kg)	23.1~31 lbs (10.6~14.0 kg)	31.1~37.4 lbs (14.1~17.0 kg)	Connecting Bar / Cover Cap	
23-5/8"~35-7/16" (600~900 mm)	LIN-X450 Standard Set Connecting Bar & Cover included	В			LIN-X450-L540 1 pc LIN-X450C 2 pcs	
35-7/16"~47-1/4" (901~1200 mm)	A	В	С		LIN-X450-L840 1 pc LIN-X450C 2 pcs	
47-1/4"~59-3/64" (1201~1500 mm)	A	В	С	D	LIN-X450-L1140 1 pc LIN-X450C 2 pcs	
59-3/64"~70-7/8" (1501~1800 mm)	В	В	С	D	LIN-X450-L1440 1 pc LIN-X450C 2 pcs	
70-7/8"~82-11/16" (1801~2100 mm)	В	В	С	D	LIN-X450-L1740 1 pc LIN-X450C 2 pcs	
82-11/16"~94-1/2" (2101~2400 mm)	с	С	С	D	LIN-X450-L2040 1 pc LIN-X450C 2 pcs	

### Parts Breakdown Table

Item Number	Description		Qty Required			
item Number	Description		А	В	С	D
LIN-X450ACD	Single Arm ( with Damper )		2	3	3	3
LIN-X450A	Single Arm ( without Damper )		-	-	1	2
230-P4W-32T (for 19 mm overlay) or 230-P4W-32T+5 (for 14 mm overlay)	Mounting Plate *Requires 3 pcs of TAP3515NI Screw 3.5 × 15NI (Sold separately) per Mounting Plate		2	3	4	5
LIN-X450-L540	Connecting Bar L=540 mm					
LIN-X450-L840	Connecting Bar L=840 mm					
LIN-X450-L1140	Connecting Bar L=1140 mm		See table above			
LIN-X450-L1440	Connecting Bar L=1440 mm					
LIN-X450-L1740	Connecting Bar L=1740 mm					
LIN-X450-L2040	Connecting Bar L=2040 mm					
LIN-X450C	End Cap for Connecting Bar		2			



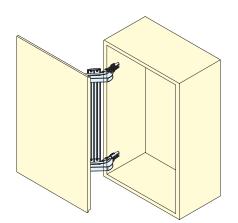
ATSUNE

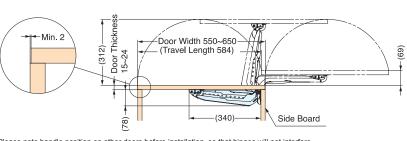




# LIN-X600

Standard Kit





Please note handle position on other doors before installation, so that hinges will not interfere with the handles

Item No.	Overlay	Material	Finish			
LIN-X600	19 mm (3/4")	Steel, Aluminum	Nickel, Anodized			
Included Parts: 2 each of Hinge Arms, Mounting Plates, Cup Covers, Bar End Caos and 1 Connecting Bar.						

Door Width	550~650 mm (21-5/8"~25-9/16")
Door Height	600~900 mm (23-5/8"~35-7/16")
Door Thickness	15~24 mm (5/8"~15/16")
Door Weight	MAX. 9 kg (19.8 lbs) / Door

### Individual Parts for Tall / Heavy Door

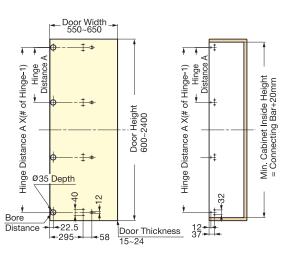
### Door Preparation

Door Width

Door Height

Door Weight

Door Thickness



550~650 mm (21-5/8"~25-9/16")

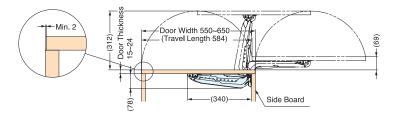
600~2400 mm (23-5/8"~94-1/2")

15~24 mm (5/8"~15/16")

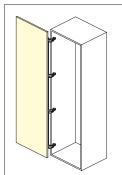
Max. 24 kg (52.8 lbs)

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### Cabinet Preparation



Please note handle position on other doors before installation, so that hinges will not interfere with the handles.



### Hinge Distance A

	¥						
# of Lineses	Length of Connecting Bar (mm)						
	# of Hinges	540	840	1140	1440	1740	2040
	2 pcs	490.0	790.0	-	-	-	-
	3 pcs	245.0	395.0	545.0	695.0	845.0	-
	4 pcs	-	-	363.3	463.3	563.3	663.3
	5 pcs	-	-	-	347.5	422.5	497.5

# **1-800-562-5267** (U.S.A. Only)

LATERAL OPEN CABINET HARDWARE

### Ordering Info

Use corresponding letter in below table, and see "Parts Breakdown Table" for parts to be ordered.

			Door Weight			Connecting Bar /
Door Height	~19.9 lbs (~9.0 kg)	20.0~26.5 lbs (9.1~12.0 kg)	26.6~35.4 lbs (12.1~16.0 kg)	35.5~44.2 lbs (16.1~20.0 kg)	44.3~52.8 lbs (20.1~24.0 kg)	Cover Cap
23-5/8"~35-7/16" (600~900 mm)	LIN-X600 Standard Set Connecting Bar & Cover included	В				LIN-X60-L540 1 pc LIN-X60C 2 pcs
35-7/16"~47-1/4" (901~1200 mm)	$\searrow$	В	В	$\geq$	$\geq$	LIN-X60-L840 1 pc LIN-X60C 2 pcs
47-1/4"~59-3/64" (1201~1500 mm)	$\searrow$	В	В	С	$\geq$	LIN-X60-L1140 1 pc LIN-X60C 2 pcs
59-3/64"~70-7/8" (1501~1800 mm)	$\searrow$	В	В	С	D	LIN-X60-L1440 1 pc LIN-X60C 2 pcs
70-7/8"~82-11/16" (1801~2100 mm)	$\searrow$	В	В	С	D	LIN-X60-L1740 1 pc LIN-X60C 2 pcs
82-11/16"~94-1/2" (2101~2400 mm)		С	С	С	D	LIN-X60-L2040 1 pc LIN-X60C 2 pcs

SUGATSUNE

### Parts Breakdown Table

Item Number	Description			Qty Re	quired	
item number	Description		А	В	С	D
LIN-X600ACD	Single Arm ( with Damper )		2	3	3	3
LIN-X600A	Single Arm ( without Damper )		-	-	1	2
230-P4W-32T (for 19 mm overlay)	Mounting Plate *Requires 3 pcs of TAP3515NI Screw 3.5 × 15NI (Sold separately) per Mounting Plate		2	3	4	5
LIN-X60-L540	Connecting Bar L=540 mm					
LIN-X60-L840	Connecting Bar L=840 mm					
LIN-X60-L1140	Connecting Bar L=1140 mm		See table above			
LIN-X60-L1440	Connecting Bar L=1440 mm					
LIN-X60-L1740	Connecting Bar L=1740 mm	<b>`</b>				
LIN-X60-L2040	Connecting Bar L=2040 mm					
LIN-X60C	End Cap for Connecting Bar		2			



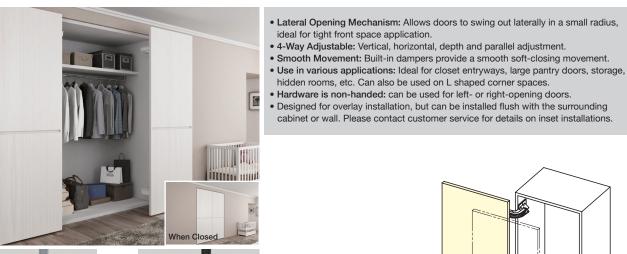
ideal for tight front space application.

hidden rooms, etc. Can also be used on L shaped corner spaces.

cabinet or wall. Please contact customer service for details on inset installations.

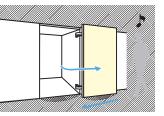
# LATERAL OPENING DOOR SYSTEMS

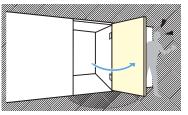
# **LIN-X800**



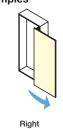


Minimize opening clearance required with LIN-X800, compared to traditional swinging doors. When closed, the LIN-X door can be flush with the surrounding walls.



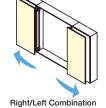


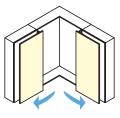
### Installation Examples





Left

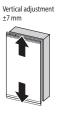




Blind Corner Use

### Adjustability

Adjustable in vertical, horizontal, depth and parallel directions.





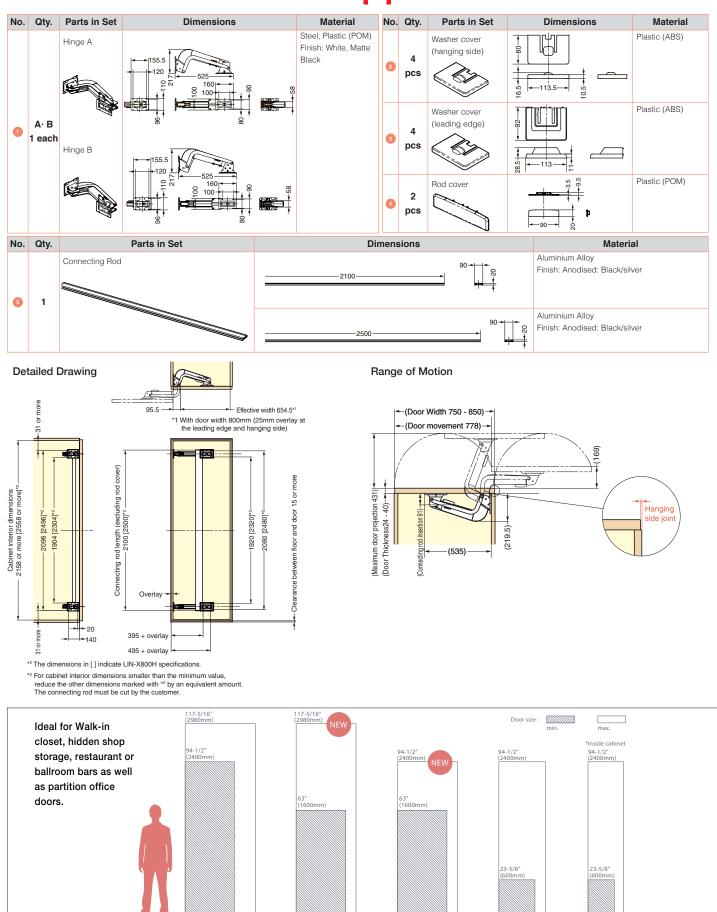


	LIN-X800	LIN-X800H			
Door Width	750~850mm (29-1/2"~33-7/16")				
Max. Door Height	t 2400mm (94-1/2") 2980mm (117-5/16'				
Door Thickness	24~40mm (15/16"~1-9/16")				
Max. Door Weight	40kg/door (88lbs/door)				

Item No.	Material	Weight (kg)	Finish	
LIN-X800-WT-S			10km (40km)	White
LIN-X800-BL-S	Charl Alumainum	18kg (40lbs)	Black	
LIN-X800H-WT-S	Steel, Aluminum	10 7km (44lba)	White	
LIN-X800H-BL-S		18.7kg (44lbs)	Black	

Horizontal adjustment Depth adjustment ±7 mm





850

LIN-X800H 88 lbs(40kg)

750 850

LIN-X800 88 lbs(40kg)

650

**1-800-562-5267** (U.S.A. Only)

LIN-X600 52.8 lbs(24kg)

LIN-X450 37.4 lbs (17kg)

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750 1100

LIN-X1000 200 lbs(90kg)

599

LATERAL OPEN CABINET HARDWARE LATER/



# LATERAL OPENING DOOR SERIES



MonoFlat FAD Door Weight: Max. 5 kg (11 lbs) Please see P.599 for details



5 MonoFlat LIN-X hinge LIN-X450 / 600 Door Weight: Max.17~24 kg (37~53 lbs) Please see P.592~597 for details



MonoFlat FAD Door Weight: Max.20 kg (44 lbs) Please see P.600~601 for details

**FAD-20** 



MonoFlat UNISON M Door Weight: Max.30 kg (66 lbs) Please see P.566~567 for details



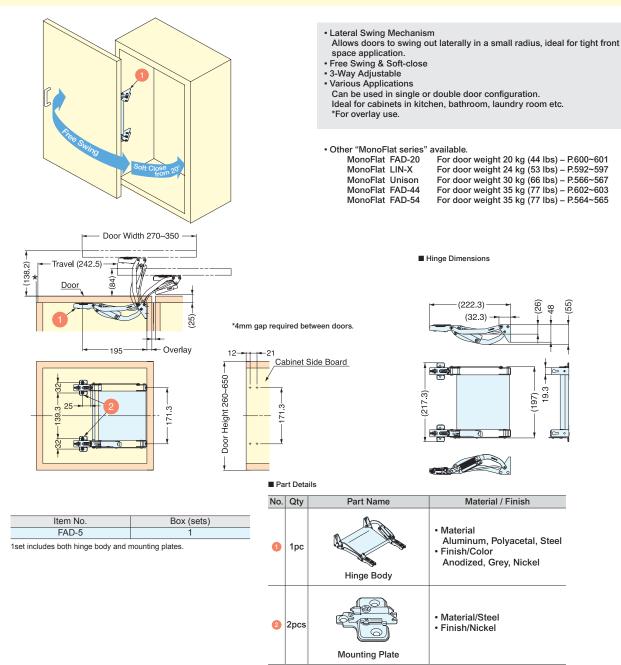




# LATERAL OPENING DOOR SYSTEM (For Light Weight Doors)

FAD-5

**1-800-562-5267** (U.S.A. Only)



ATERAL OPEN CABINET HARDWARE

LATERAL OPENING DOOR SYSTEM

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# MonoFlat FAD

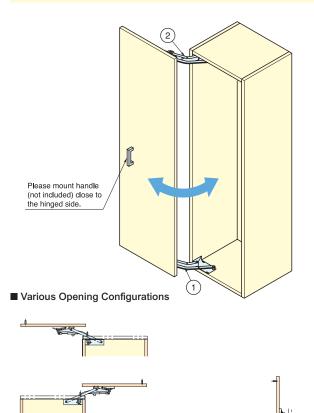
Inside Door Width	500~550 mm (19-11/16"~21-21/32")
Inside Door Height	Max. 2420 mm (95-9/32")
Door Thickness	Max. 35 mm (1-3/8")
Door Weight	Max. 20 kg (44 lbs) / Door

Allows doors to swing out laterally in a small radius, ideal for tight front

Built-in gas spring provides a smooth self opening & closing movement.

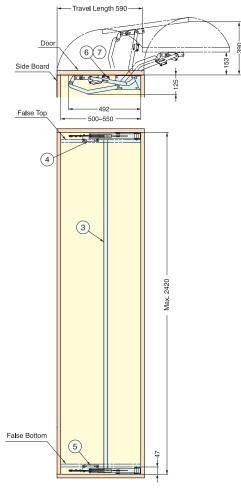
Ideal for storage cabinets in kitchen, closet room, bathroom, laundry

# LATERAL OPENING DOOR SYSTEM (For Medium Weight Doors) FAD-20



• Other "MonoFlat series" available.

iei monorial series	available.	
MonoFlat FAD-5	For door weight 5 kg (11 lbs) – P. 599	
MonoFlat LIN-X	For door weight 24 kg (53 lbs) – P.592~597	
MonoFlat Unison	For door weight 30 kg (66 lbs) – P.566~567	
MonoFlat FAD-44	For door weight 35 kg (77 lbs) – P.602~603	
MonoFlat FAD-54	For door weight 35 kg (77 lbs) – P.564~565	



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Min. 4

3

Min.4

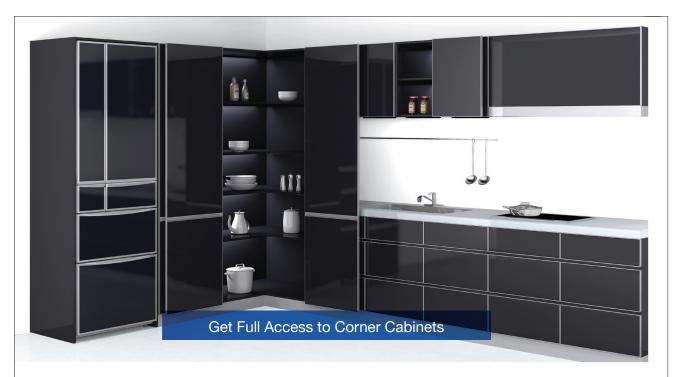
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**1-800-562-5267** (U.S.A. Only)



### Part Details

No.	1	2	3	4	5	6	$\bigcirc$
Name	Arm A	Arm B	Connecting Bar	Door Bracket (Top)	Door Bracket (Bottom)	Bar Clamp	End Cap
		and the second second		Color Color	000000000000000000000000000000000000000		
Qty. / Set	1 pc	1 pc	1 pc	1 pc	1 pc	2 pcs	2 pcs
Discription	Material Aluminum, Steel     Finish/Color Silver	Aluminum, Steel	<ul> <li>Material/Steel</li> <li>Finish/Color Silver</li> </ul>			<ul> <li>Material/Steel</li> <li>Finish/Color Silver</li> </ul>	<ul> <li>Material Polyethylene</li> <li>Finish/Color Black</li> </ul>



### Lateral Opening Door Systems

Sugatsune's Lin-X systems were designed to open in a lateral direction giving you more space in front of doors and cabinets and allowing for full access in corner applications. The Lin-X systems are easy to install with no tracks or rails needed. Doors will never slam with the soft-close dampers and the free-stop capability allows for the doors to stop at any opening desired.



603



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# DSR701-RECESSED/SURFACE

- Installed post-production to fix warped doors.
- Must run complete height of door.
- Can be partially recessed or surface mounted to the back of the door.
- $\pm 10$ mm adjustment can be made from the top of the door with a M4 Allen . Kev (included).
- Min. door thickness 16 mm (9/16").
- Requires M4 (U.S. #8) flathead wood countersunk screws for partially recessed installation or wood panhead screws for surface installation.
- Can be cut from the bottom up to 400mm.
- Note: Sold in Boxes of 10 pieces.

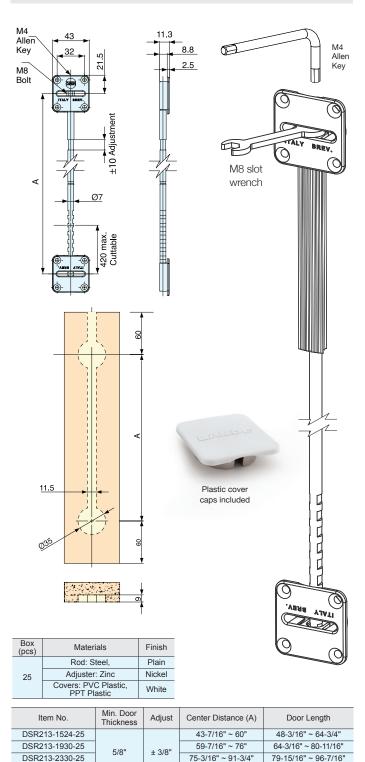
# DSR213-RECESSED

- Installed at time of production to prevent door from warping.
- Adjustors installed 60 mm from the top and bottom of the door.
- Partially Recessed Door Straightener with Cover Caps.
- ±10mm adjustment can be made from the top of the door with a M4 Allen Key(included) or from the back of the door with a M8 slot wrench (included).
- Min. door thickness 16 mm (5/8")

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- Requires 8 M4 (U.S. #8) flathead contersunk wood screws for installation.
- Note: Sold in Boxes of 25 pieces. •

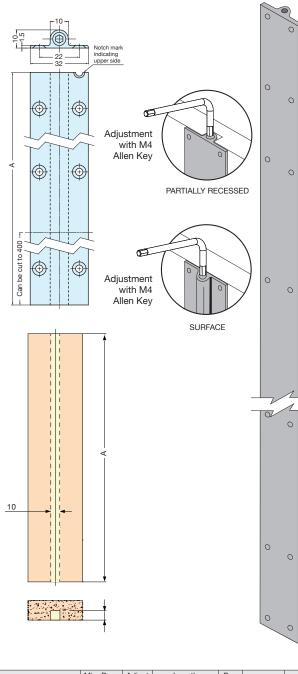
DSR213-2700-25



89-3/4" ~ 106-5/16"

1-800-562-5267 (U.S.A. Only)

94-1/2" ~ 111"



Item No.	Min. Door Thickness	Adjust (mm)	Length Min-Max (A)	Box (pcs)	Materials	Finish
DSR701-1830/B-10		± 3/8"	56-5/16"~72-1/16"	10	Rod: Steel Casing:	Black
DSR701-1830/S-10	5/8"					Silver
DSR701-2200/B-10	5/6	± 3/0	70-7/8" ~ 86-5/8"	10	Aluminum	Black
DSR701-2200/S-10			10-110 - 00-5/8			Silver



# DSR423-CONCEALED

- Installed at time of production to prevent door from warping.
- · Adjustors installed 60 mm from the top and bottom of the door.
- Fully concealed/hidden door straightener. Recessed mounted under laminate. • ±10mm adjustment can be made from the top of the door with a M4 Allen Key (included).
- Min. door thickness 12mm (1/2").
- Optional mounting holes to secure door straighner to door using 4 M4 (U.S. #8) flathead contersunk wood screws.
- Note: Sold in Boxes of 25 pieces.

### M4 Allen Ø7 Ø7 Key M4 Œ Allen Key Ø11 M6 x 420 Cuttable 0 Ø7 20 7 Square 035 8 1 035 80 5 0 Laminate Cover Box (pcs) Materials Finish Rod: Steel Plain 25 Adjuster: Zinc Nickel Min. Door Adjust Center Distance (A) Item No. Door Length DSR423-

	THICKNESS			-
1524-25		+3/8"	43-7/16" ~ 60"	48-3/16" ~ 64-3/4"
1930-25	1/2"		59-7/16" ~ 176"	64-3/16" ~ 80-11/16"
2300-25	1/2	13/0	74" ~ 90-9/16"	78-3/4" ~ 95-1/4"
2700-25			89-3/4" ~ 106-5/16"	94-1/2" ~ 111"

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DSR423-

DSR423-2 DSR423-2

# DSR403-CONCEALED

- Installed at time of production to prevent door from warping.
- Adjustors installed 60 mm from the top and bottom of the door.
- Fully Concealed/Hidden Door Straightener. Recess mounted under laminate.
- ±10mm adjustment can be made from the top of the door with a M4 Allen Key (included).
- Min. door thickness 18mm (11/16").
- Pressure-fit into place, screws not needed for installation.
- Note: Sold in Boxes of 25 pieces. •

M4

Allen

Key

5

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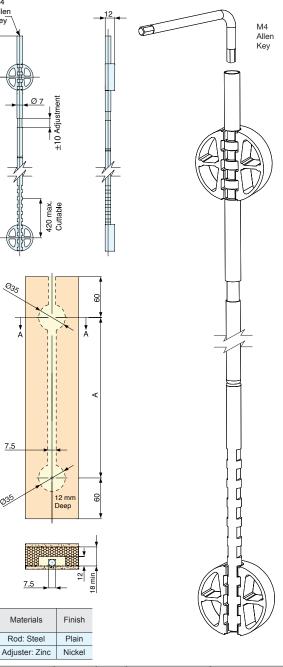
035

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035

Box (pcs)



Item No.	Min. Door Thickness	Adjust	Center Distance (A)	Door Length	
DSR403-1524-25		±3/8"	43-7/16" ~ 60"	48-3/16" ~ 64-3/4"	
DSR403-1930-25	11/16"		59-7/16" ~ 176"	64-3/16" ~ 80-11/16"	
DSR403-2300-25	11/10		74" ~ 90-9/16"	78-3/4" ~ 95-1/4"	
DSR403-2700-25	1		89-3/4" ~ 106-5/16"	94-1/2" ~ 111"	
<b>1-800-562-5267</b> (U.S.A. Only)					



Installation example: Double bypass doors. (Refer to order quantity below)

2

(5)

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(4)

# **XL-GC SERIES (FOR SLIDING DOORS)**



Door Width	Max. 500 mm (19-11/16")
Door Height	Max. 1200 mm (47-1/4")
Door Weight	Max. 12 kg (26.5 lbs) / Per Door
Glass Thickness	8 mm (5/16")



Part Det	ails					6
Order Quantity	No.	Item No.		Part Name	Dimensions	Description
4 ea	1	57-3149-071	Upper Roller			<ul> <li>Material Zinc Alloy (Body) Polyacetal (Roller)</li> <li>Finish/Color Yellow Zinc Chromate (Body) White (Roller)</li> </ul>
1 set	Ø	XL-GC06-C	Upper Bracket		See P.605	<ul> <li>Material Zinc Alloy</li> <li>Finish/Color Chrome</li> <li>*4 pcs per set (for 2 glass doors)</li> </ul>
1 ea	3	XL-GC03-C	Lock		See P.605	Material Zinc Alloy     Finish/Color Chrome *24 key changes (2 keys Included)
1 pair	4	XL-GC08-C	Bottom Guide Bracket		See P.605	<ul> <li>Material Zinc Alloy</li> <li>Finish/Color Chrome</li> <li>*1 pair (Left / Right) per set</li> </ul>
1 ea	5	XL-GC06-UL1200N	Upper Rail	**		<ul> <li>Material Aluminum</li> <li>Finish/Color Plain</li> <li>*Length: 1200 mm (47-1/4 ")</li> </ul>
1 ea	6	XL-GC03-GL 1200	Bottom Rail		25.5) 27.5 27.5 27.5 27.5 27.5 Bore Dimension	Material ABS     Finish/Color Black *Length: 1200 mm (47-1/4")
	WI	ww.sugatsune.o	com			<b>800-562-5267</b> (U.S.A. Only)

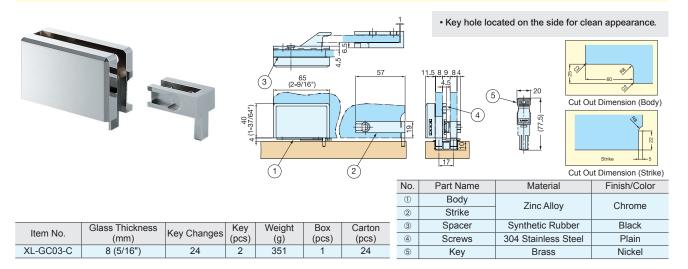
606



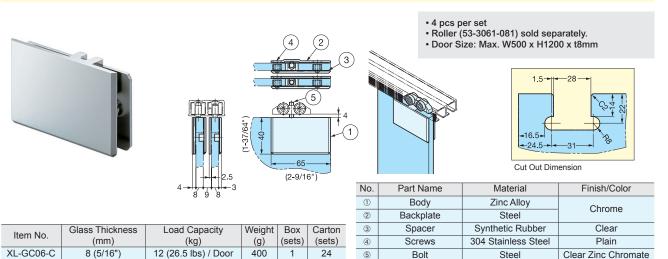
# XL-GC03

XL-GC06

# **GLASS LOCK (FOR SLIDING DOOR)**

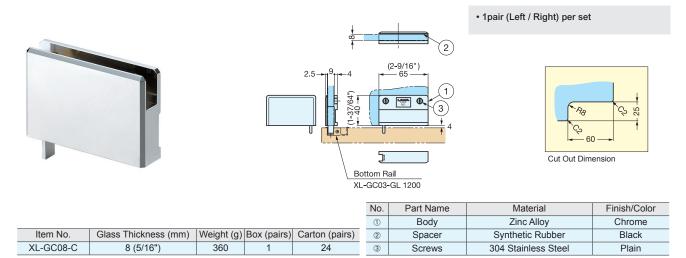


# **UPPER BRACKET (FOR SLIDING DOOR)**



# BOTTOM GUIDE BRACKET (FOR SLIDING DOOR)

XL-GC08



607

**1-800-562-5267** (U.S.A. Only)

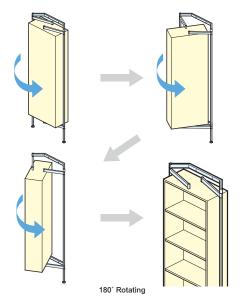


# **180° ROTATING CABINET SYSTEM**

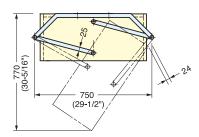
# **RB-600**







### Rotating Clearance

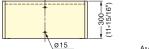


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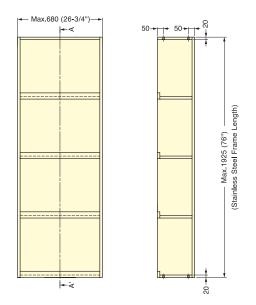
Cabinet Width	Max. 680 mm (26-3/4")			
Cabinet Height	Max. 1930 mm (76")			
Total Height	RB-600-NC Cabinet Height + 230 (9-1/16") RB-600-ST Cabinet Height + 435 (17-1/8") RB-600-CH Cabinet Height + 600 (26")			
Cabinet Depth	300 mm (11-13/16")			
Load capacity	Max. 75 kg (165 lbs) **incl. cabinet**			

- · Innovative "reversible" cabinet system rotates 180° for easy access to both sides.
- 3 model types available: Inset Wall Type (NC), Floor Type (ST), and Floor-to-Ceiling Type (CH).
- · Stainless steel frame can be cut to length to accommodate cabinets of various heights. • Useful for a variety of storage and display installations in residential and
- retail settings.

### Cabinet Preparation







Item No.	Installation	Material/Finish
RB-600-NC	Inset Wall/Cabinet	
RB-600-ST	Floor	304 Stainless Steel/Satin
RB-600-CH	Floor-to-Ceiling	

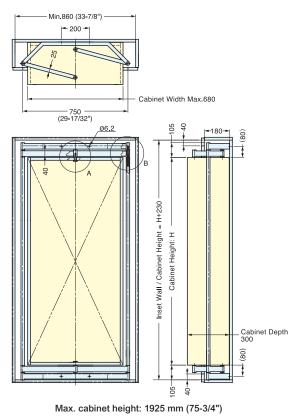
Assembly Wrench (Sold separately)



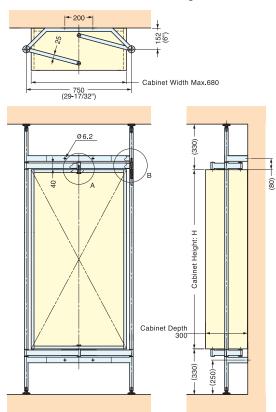




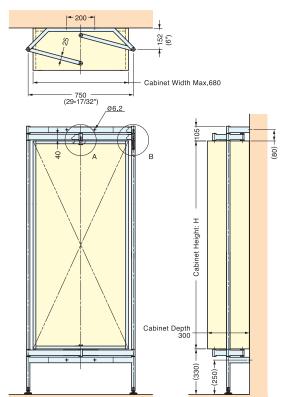
RB-600-NC, Inset Wall / Cabinet



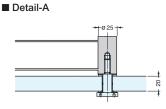


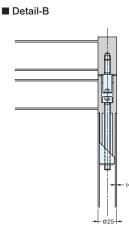


Max. cabinet height: 1925 mm (75-3/4")



Max. cabinet height: 1925 mm (75-3/4")





■ RB-600-ST, Installation - Floor