

DRAWER SLIDES

STAINLESS STEEL FULL EXTENSION SLIDES



Item Name	Load Capacity (pair)	Page	Side View	Features									
ESR-DC4513	40 - 54 kgf	565-1											
SCR3-15S	10 - 12 kgf	565-2											
SCR3	10 - 12 kgf	566											
ESR-3813	29 - 45 kgf	568											
ESR-4513	40 - 52 kgf	569											
ESR3	43 - 65 kgf	571											
ESR7	36.2 - 63.5 kgf	572											
SNS35W	36 - 62 kgf	572											
ESR10	182 - 272 kgf	574											
ESR2031	13 - 17 kgf	575											
5302S	64 - 116 kgf	576											
273SL	12 - 18 kgf	577											
SNS27D	28 - 38 kgf	578											
SNS35D	45 - 60 kgf	579											
ESR4658	32 - 50 kgf	579											
TSS3	50 - 95 kgf	590											

STAINLESS STEEL 3/4 EXTENSION SLIDES



Item Name	Load Capacity (pair)	Page	Side View	Features									
SCRW2	14 - 18 kgf	567											
ESR1	25 - 49 kgf	570											
ESR2	5 - 8 kgf	570											
ESR5	80 - 114 kgf	571											

Item Name	Load Capacity (pair)	Page	Side View	Features									
				LOCK	FRICTION	DETACH	BUMPER	SOFT CLOSING	HOLD CLOSED	HOLD OPENED	2-WAYS	CATCH	SOFT & SILENT CLOSING
ESR8	25 - 49 kgf	573		●		●							
ESR13	25 - 49 kgf	574							●				
ESR2021	11 - 16 kgf	575											
272SL	14 - 18 kgf	576				●							
SNS27S	18 - 26 kgf	577											
SNS35S	25 - 49 kgf	578											
RKA5 (SUS430)	15 kgf	592				●						●	

ALUMINIUM FULL EXTENSION SLIDES

Item Name	Load Capacity (pair)	Page	Side View	Features									
				LOCK	FRICTION	DETACH	BUMPER	SOFT CLOSING	HOLD CLOSED	HOLD OPENED	2-WAYS	CATCH	SOFT & SILENT CLOSING
AR3	3.1 - 11.2 kgf	588											
AR3-K	8.7 - 10.7 kgf	589								●			
AR3-16	2 - 4 kgf	591											

ALUMINIUM 3/4 EXTENSION SLIDES

Item Name	Load Capacity (pair)	Page	Side View	Features									
				LOCK	FRICTION	DETACH	BUMPER	SOFT CLOSING	HOLD CLOSED	HOLD OPENED	2-WAYS	CATCH	SOFT & SILENT CLOSING
AR2	8.2 - 15.3 kgf	588											
AR2-K	8.7 - 12.7 kgf	589								●			
ARW2-16	3 - 7 / 1.1 - 3.1 kgf	591									●		

STEEL FULL EXTENSION SLIDES

Item Name	Load Capacity (pair)	Page	Side View	Features									
				LOCK	FRICTION	DETACH	BUMPER	SOFT CLOSING	HOLD CLOSED	HOLD OPENED	2-WAYS	CATCH	SOFT & SILENT CLOSING
2150	20 - 40 kgf	580				●		●	●				
3660	15 - 20 kgf	581				●	●	●					
4660	15 - 45 kgf	582				●	●	●					



Item Name	Load Capacity (pair)	Page	Side View	Features									
4061	20 - 45 kgf	583											
4638	27 - 45 kgf	584											
3670	15 - 20 kgf	585											
4670	15 - 40 kgf	586											
4670BL	15 - 40 kgf	587											

STEEL 3/4 EXTENSION SLIDES



Item Name	Load Capacity (pair)	Page	Side View	Features									
RKA5	15 kgf	592											
RKA6	15 kgf	593											
RJA6	30 kgf	593											

LINEAR SLIDES



Item Name	Load Capacity (pair)	Page	Side View	Features									
LGB30	-	565-3											
LGB-30CM	30 kgf	565-3											
LGB30-ST	-	565-4											
LGB30-P65-100	-	565-4	-										
MR-CLP	-	565-5	-										
MR-20CNB	-	565-5											
MR-30CNB	-	565-6											
MRS40	-	565-6											
MR-40CS	-	565-6											
MR-40CNB	-	565-6											



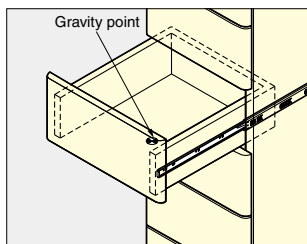
Item Name	Load Capacity (pair)	Page	Side View	Features							
SCRL2 	18 - 24 kgf	567									
ESR9 	5 kgf	573									
TSSL 	-	590									
ARL2-16 	2 - 5/ 0.8 - 1.8 kgf	591									
MR-15CS 	Horizontal static 10.2 kgf, Vertical static 3.06 kgf	596, 598									
MR-20CS 	Horizontal static 30.6 kgf, Vertical static 17.8 kgf	596, 598									
MR-30CS(Old:MR-50C) 	Horizontal static 53 kgf, Vertical static 31.1 kgf	596, 598									
MRS 	-	597	-								

OTHERS



Item Name	Load Capacity (pair)	Page	Side View	Features							
SB-275A 	5 kgf	594	-								
SB-257-R2 	5 kgf	594									
SB-300R 	5 kgf	595									
GDSR144-R 	-	595	-								

TERMS OF LOAD CAPACITY OF DRAWER SLIDES

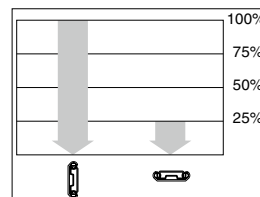


Drawer slides are to be installed to drawers vertically with firm screws. Under the conditions that the drawer width is 300 mm and the opening frequency is 10 times /month, the load capacity is determined as the maximum loading weight at the gravity point on the drawer: the middle of width and travel length of the installed slide.

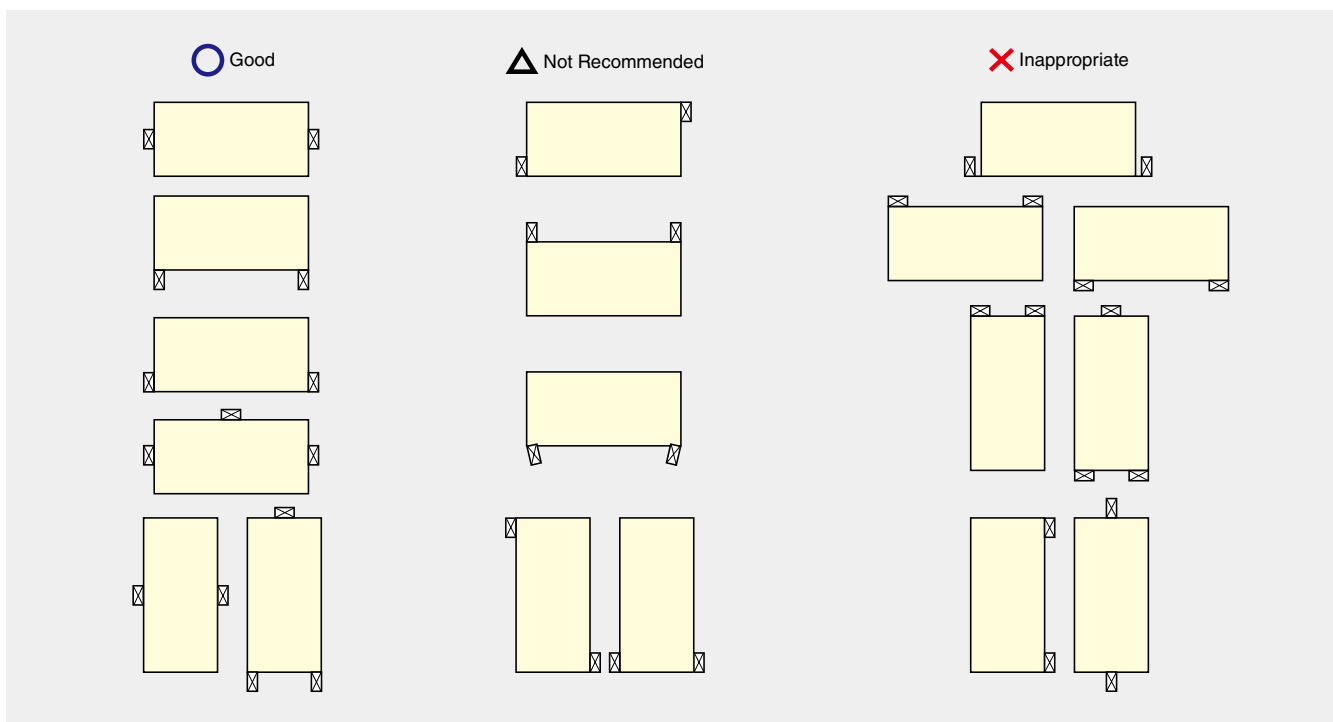
***The load capacity will be generally less than 25% in under-mount installations as shown in the chart.**

Note that the load capacity varies depending on conditions of the application.

*Various kinds of the parts are made of roll-formed metal sheet which may present sharp edges. Please be careful when to install.



Installation of Drawer Slides



Functions



The drawer can be held in opened position.



The drawer can be stopped at any position by the resistance of the ball retainer. The drawer can be detached by pulling outward.



The drawer is detachable.



With a bumper to avoid metal-to-metal noise at the end of the course.



Push to open.



The drawer can be held in the fully closed position.



The drawer can be held in the fully opened position.



The drawer can be moved to both ways.



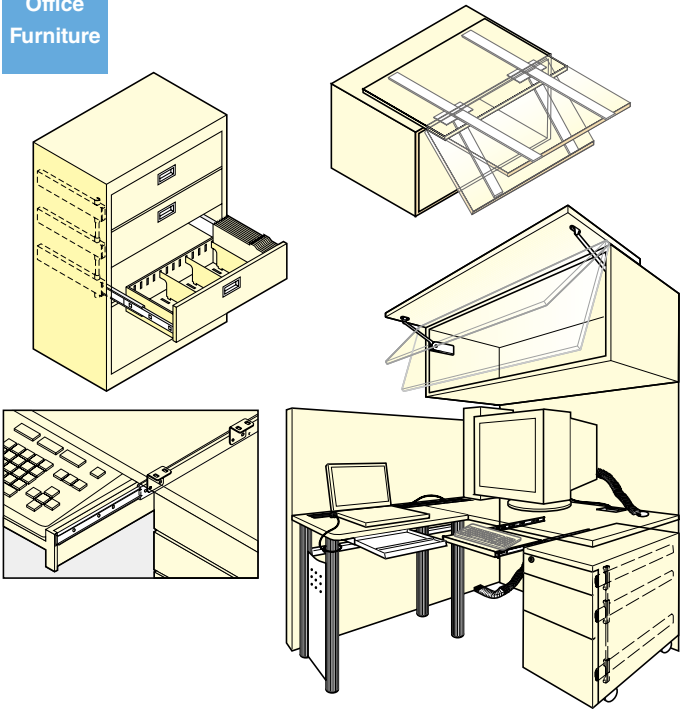
Self-closing system catches the drawer when closing.



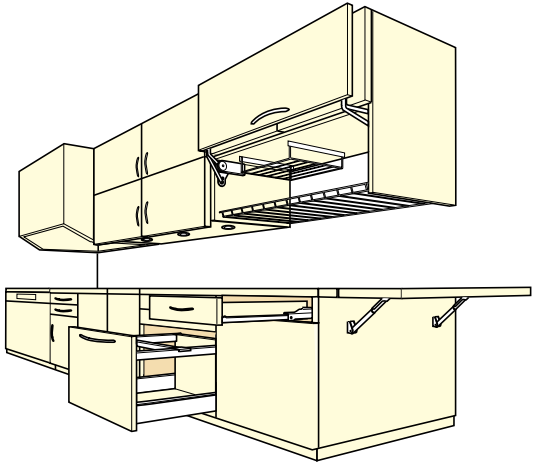
Silent and soft-closing.

APPLICATION EXAMPLES

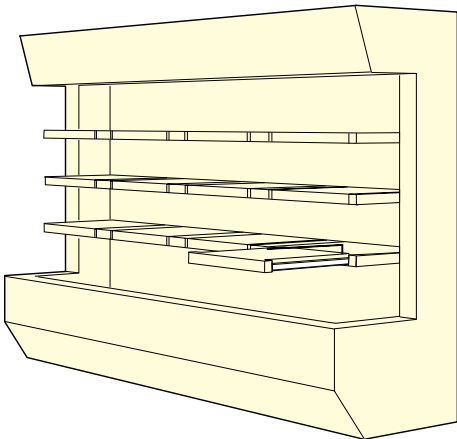
Office
Furniture



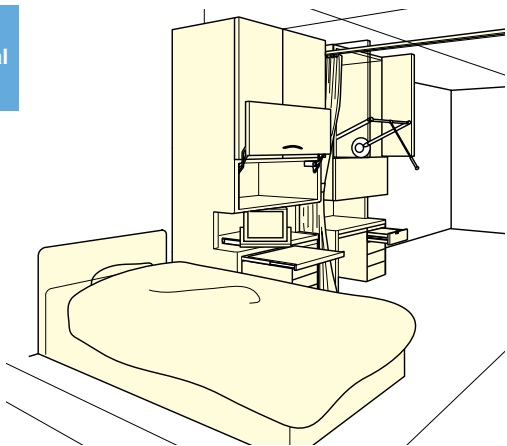
Kitchen



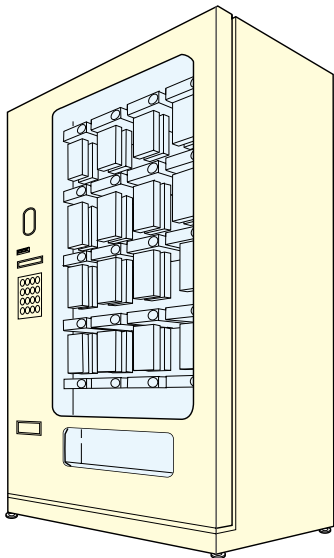
Shop



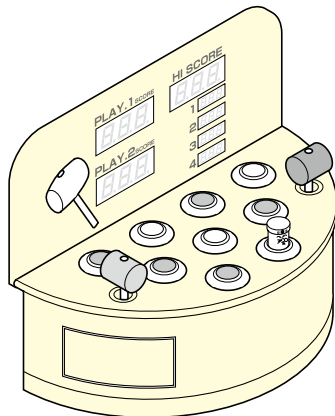
Hospital



Vending
Machine



Gaming
Machine



DRAWER SLIDES

APPLICATION EXAMPLES

FULL EXTENSION SLIDE

LOAD
CAPACITY 40~54kgfDETACH
⇄HOLD
CLOSED

L=R

SUS

ESR-DC4513

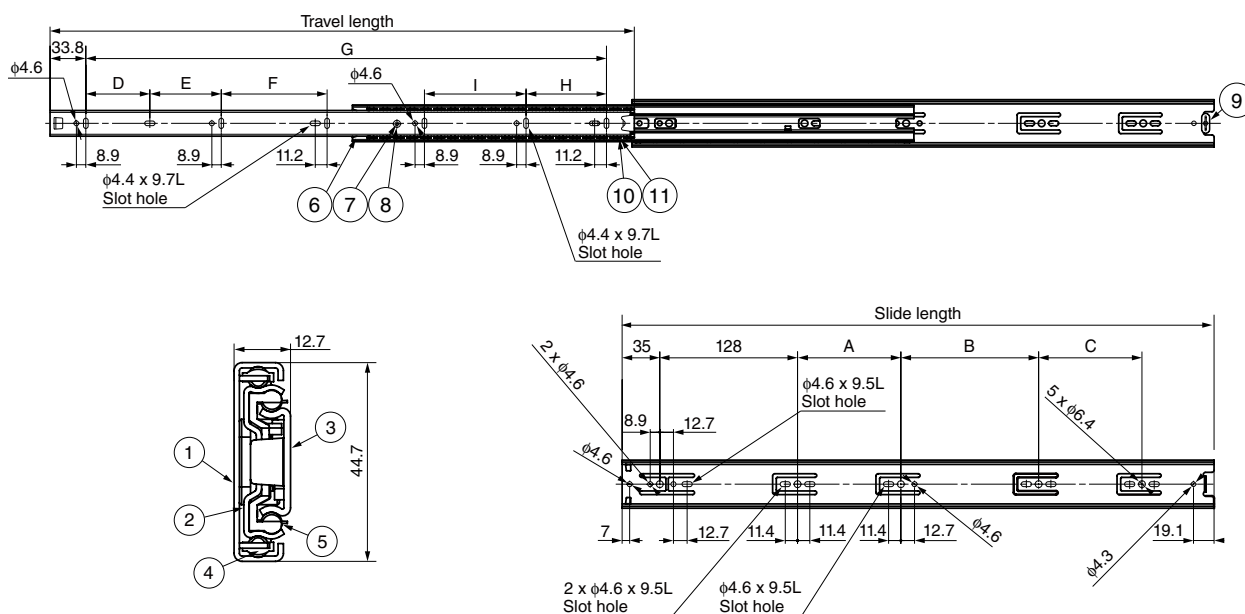


Features

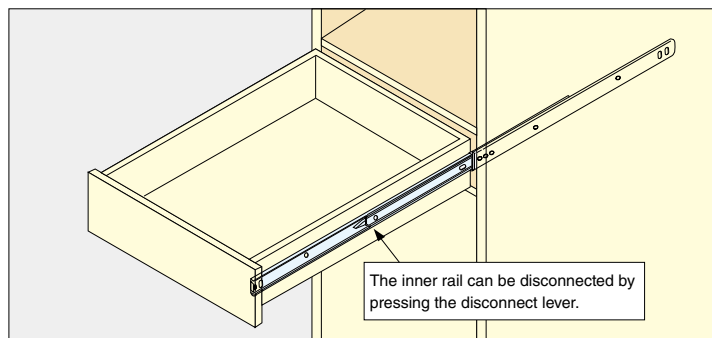
- Full extension.
- Front disconnect.
- Positive stop.
- Hold-in detent.
- Non-handed.

Recommended Screws

M4 or #8 Binding, or Pan head screws



Installation



No.	Part Name	Material
①	Outer Member	Stainless Steel (SUS304)
②	Middle Member	
③	Inner Member	
④	Retainer	Polypropylene
⑤	Ball Case	Stainless Steel (SUS304)
⑥	Stopper (Guide)	Nylon 6
⑦	Disconnecter	Nylon 66
⑧	Rivet	Stainless Steel (SUS304)
⑨	Stopper	Urethane
⑩	Balls	Stainless Steel (SUS304)
⑪	Grease	H1 Grade

CAD	Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	Load Capacity N/pair	Load Capacity kgf/pair	Weight (g)	Box (pair)			
2D/3D	190-043-692	ESR-DC4513-8	200	200	96	-	-	-	-	-	142	-	-	529	54	447	10			
2D/3D	190-035-153	ESR-DC4513-10	250	250							192			510	52	603				
2D/3D	190-035-154	ESR-DC4513-12	300	300							242			490	50	754				
2D/3D	190-035-155	ESR-DC4513-14	350	350							292			480	49	919				
2D/3D	190-035-156	ESR-DC4513-16	400	400							96			342	461	47		1064		
2D/3D	190-035-157	ESR-DC4513-18	450	450							128			392	72	451		46	1228	
2D/3D	190-035-158	ESR-DC4513-20	500	500							192			442	122	431		44	1373	
2D/3D	190-035-159	ESR-DC4513-22	550	550							96			492	76	96		421	43	1528
2D/3D	190-035-160	ESR-DC4513-24	600	600							128			542	126	-		412	42	1687
2D/3D	190-035-161	ESR-DC4513-26	650	650							192			592	48	402		41	1854	
2D/3D	190-035-162	ESR-DC4513-28	700	700							642	98	128	392	40	2020				

ALL STAINLESS STEEL MINI SLIDE (FULL EXTENSION)

LOAD CAPACITY 98 - 118 N/pair

L=R SUS

SCR3-15S



B type shown.

Features

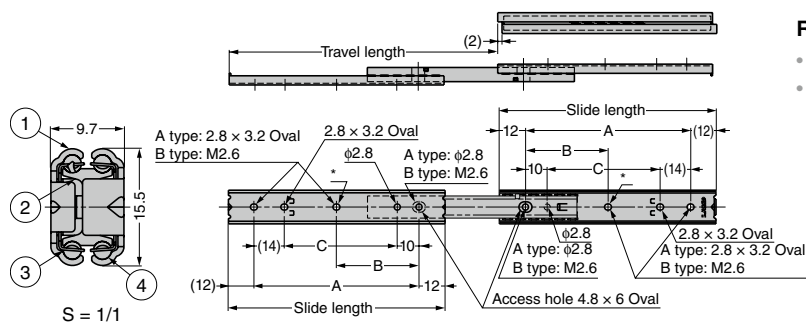
- Full extension (3 members).
- Installed with ball creep prevention mechanism which also provides stable and consistent operating force.
- Only 15.5 mm in height, designed to reduce distortion or bending when extended, which makes it suitable for a variety of different applications.
- Uses only registered NSF H1 Food Grade Lubricant grease.

Remarks

- Types with slide length 80 mm have no holes marked with *
- In order to protect the rails and retainers from strong shocks, please install a stopper separately.

Recommended Screws

- M2.6 low head screw (for A type)
- M2.6 screw (for B type) Screw length = Panel thickness + Max. 1.7 mm



No.	Part Name	Material
①	Outer Member	Stainless Steel (SUS304)
②	Inner Member	
③	Retainer	Stainless Steel (SUS440)
④	Balls	

Sold individually

CAD	Item Code	Item Name	Holes	Slide Length	Travel Length	A	B	C	Vertical Installation		Weight (g/pc)	Box (pcs)	Carton (pcs)
									Load Capacity N/pair	Load Capacity kgf/pair			
2030	190-034-800	SCR3-15S-80A	A Type	80	97	56	—	32	98	10	36	—	—
2030	190-034-801	SCR3-15S-100A	(Through Hole)	100	125	76	38	52	108	11	45	—	—
2030	190-034-802	SCR3-15S-150A		150	177	126	63	102	118	12	70	—	—
2030	190-034-803	SCR3-15S-80B	B Type	80	97	56	—	32	98	10	36	—	—
2030	190-034-804	SCR3-15S-100B	(Screw Hole)	100	125	76	38	52	108	11	45	—	—
2030	190-034-805	SCR3-15S-150B		150	177	126	63	102	118	12	70	—	—

DRAWER SLIDES

ALL STAINLESS STEEL MINI SLIDE (FULL EXTENSION)

GUIDE RAIL

LGB30

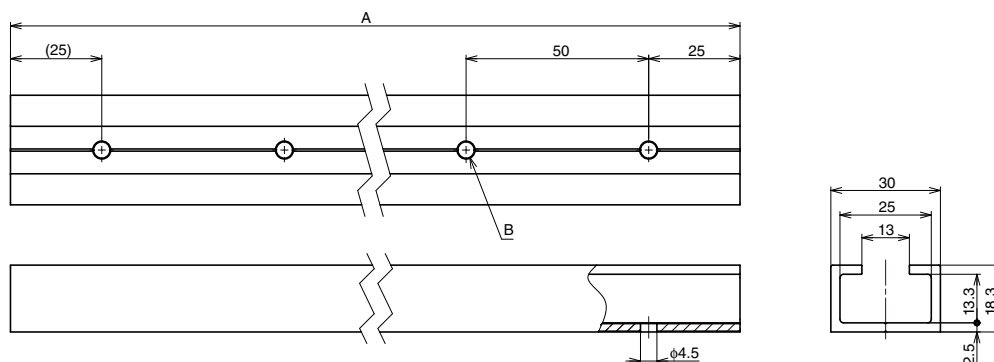


Recommended Screws

- Hexagon socket button head screw M4
- Binding head screw M4
- Binding head tapping screw 4

Remarks

- Mounting holes and both ends are not surface treated.
- Do not use under moment load.



CAD	Item Code	Item Name	A	B	Material	Finish	Weight (g/pc)	Box (pcs)	Carton (pcs)
2030	190-036-273	LGB30-400	400	8	Aluminium Alloy	Anodised Silver	195	50	—
2030	190-036-274	LGB30-800	800	16			390	25	—
2030	190-036-275	LGB30-2000	2000	40			875	10	—

GUIDE BLOCK (SILENT TYPE)

LOAD CAPACITY Max. 294N

LGB-30CM



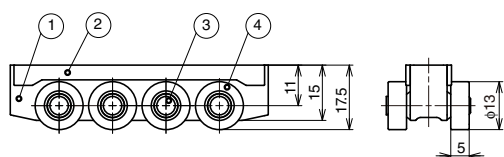
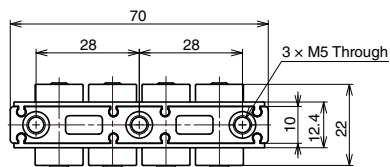
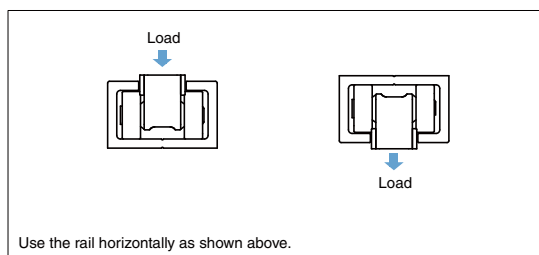
Features

- Bearing roller used in guide block allows for smooth movement.
- Plastic outer ring type bearing roller provides silent operation.
- Made exclusively for use with the guide rail LGB30.

Remarks

Do not use under moment load.

Load Direction



No.	Product Name	Material	Finish / Colour
①	Body	Zinc Alloy (ZDC)	Clear Zinc Chromate (Trivalent)
②	Slide Protector	PE	Black
③	Roller Shaft	Stainless Steel (SUS304)	Plain
④	Roller	Steel/POM	Outer Ring: Black

CAD	Item Code	Item Name	Load Capacity N	Load Capacity kgf	Weight (g)	Box (pcs)	Carton (pcs)
2030	190-036-158	LGB-30CM	Max. 294	Max. 30	76	200	2000

STOPPER

LGB30-ST

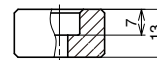
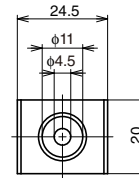


Features

- Used for preventing guide block LGB-30CM from coming off.
- Install to guide rail LGB30 with screws. Mounting screws not included.

Remarks

Do not use for stopping guide block collision.



CAD	Item Code	Item Name	Material	Colour	Weight (g)	Box (pcs)	Carton (pcs)
	190-036-127	LGB30-ST	POM	Black	5.6	240	960

MOUNTING PLATE

LGB30-P65-100



Installation



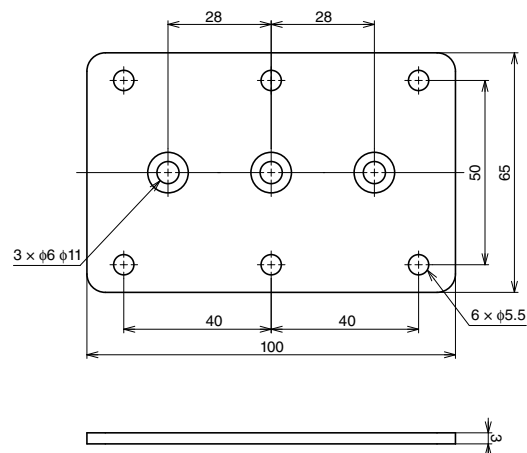
Features

Install to guide block LGB-30CM with supplied screws.

Parts Included

Hexagon socket countersunk head screw M5 x 16 3 pcs (SUS)

Dimensions



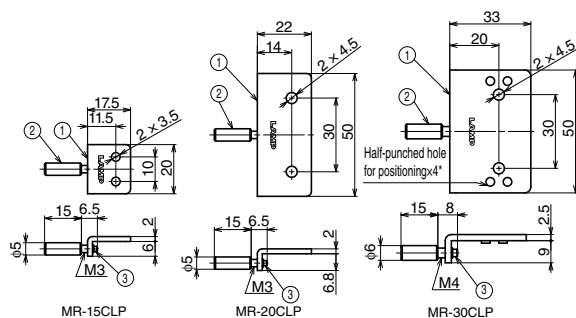
CAD	Item Code	Item Name	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
	190-036-465	LGB30-P65-100	Stainless Steel (SUS304)	Barrel Polished	137	50	—

CLAMP (FOR MINI GUIDE RAIL MRS)

MR-CLP



Application Image



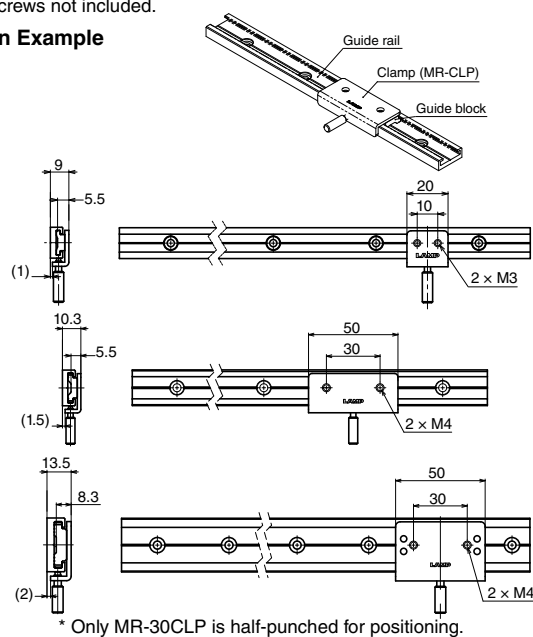
Features

- Clamp used for temporary holding and positioning for mini guide rail MRS.
- Easy to fix in place by simply pushing on the sides of the rail.
- Install to mini guide block MR with screws.

Remarks

- Do not use when a load equivalent to the moment is being applied.
- Holding position may shift when an external force exceeding the retaining force (reference value) is applied.
- Knob tip may be damaged when the knob maximum tightening torque is exceeded.
- Mounting screws not included.

Application Example

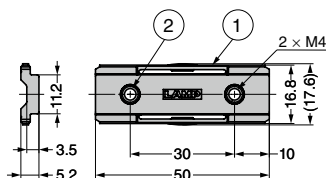


No.	Product Name	Material	Finish / Colour
①	Plate	Stainless Steel (SUS304)	Barrel Polished
②	Knob Body	Stainless Steel (SUS303)	Plain
③	Knob Tip	POM	Black

CAD	Item Code	Item Name	Retaining N (Reference)	Knob Tightening Torque N·m	Weight (g)	Guide Block	Box (pcs)	Carton (pcs)
2D/3D	190-035-310	MR-15CLP	Max. 7	Max. 0.05	8.6	MR-15CS	250	1000
2D/3D	190-035-311	MR-20CLP	Max. 7	Max. 0.05	22.6	MR-20CS	50	200
2D/3D	190-035-312	MR-30CLP	Max. 14	Max. 0.1	40.8	MR-30CS	50	200

MINI GUIDE BLOCK (PRELOAD TYPE)

MR-20CNB



Features

- Preload type which minimises rattling.
- Made from special polyethylene resin with excellent sliding properties, eliminating the need for grease or oil.
- The special polyethylene resin has a high chemical resistance, providing for reliable usage with a wide range of chemicals.
- UL94 HB grade flame resistance.
- The MR-20CNB is designed only for use with the MRS20 Mini Guide Rail.

Remarks

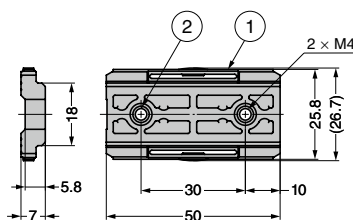
This block is not designed to secure moving objects. Never use the Mini Guide Rail in a vertical or slanted position, as this is dangerous and may cause moving objects to slide or fall.

CAD	Item Code	Item Name	Weight (g)	Compatible Rail	Box (pcs)	Carton (pcs)
2D/3D	190-037-638	MR-20CNB	5	MRS20	50	1,000

No.	Material	Finish/Colour
①	Special Polyethylene	High Sliding Grade/Grey
②	Stainless Steel (SUS304)	Plain

MINI GUIDE BLOCK (PRELOAD TYPE)

MR-30CNB



No.	Material	Finish/Colour
①	Special Polyethylene	High Sliding Grade/Grey
②	Stainless Steel (SUS304)	Plain

CAD	Item Code	Item Name	Weight (g)	Compatible Rail	Box (pcs)	Carton (pcs)
	190-037-639	MR-30CNB	7	MRS30	50	1,000

Features

- Preload type which minimises rattling.
- Made from special polyethylene resin with excellent sliding properties, eliminating the need for grease or oil.
- The special polyethylene resin has a high chemical resistance, providing for reliable usage with a wide range of chemicals.
- UL94 HB grade flame resistance.
- The MR-30CNB is designed only for use with the MRS30 Mini Guide Rail.

Remarks

This block is not designed to secure moving objects. Never use the Mini Guide Rail in a vertical or slanted position, as this is dangerous and may cause moving objects to slide or fall.

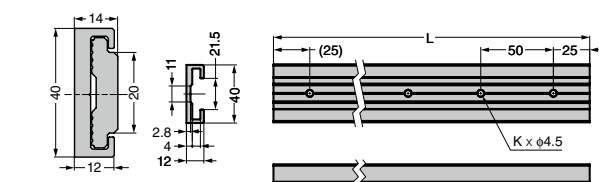
MINI GUIDE RAIL

Under Development

MRS40



Combined Specifications



Sample combination: MR-40CS

*Same specifications apply to MR-40CNB preload type

Features

- Made from a lightweight, durable aluminium alloy.
- Anodised for excellent corrosion resistance.
- Recyclable.

Remarks

The inside of the installation holes and the edges on both sides are not anodized.

Recommended Screw

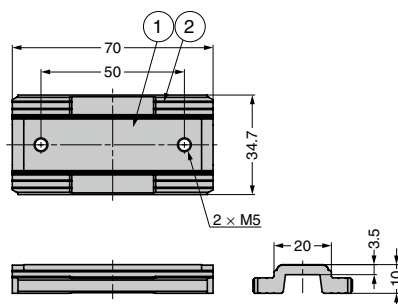
Size M4 hex socket button bolts or size M4 hex socket low head bolts, size M4 cross-recessed binding screws

CAD	Item Code	Item Name	Rail Length (L)	Number of Holes (K)	Material	Finish	Weight (g)	Compatible Carriage	Box (pcs)
	190-037-686	MRS40-400	400	8	Aluminium Alloy	Silver Anodising	236 per rail	MR-40CS, MR-40CNB	50
	190-037-687	MRS40-800	800	16			472 per rail		25
	190-037-688	MRS40-2000	2000	40			1180 per rail		10

MINI GUIDE BLOCK

Under Development

MR-40CS



Features

- Made from special polyethylene resin with excellent sliding properties, eliminating the need for grease or oil.
- The special polyethylene resin has a high chemical resistance, providing for reliable usage with a wide range of chemicals.
- UL94 HB grade flame resistance.
- The MR-40CS is designed only for use with the MRS40 Mini Guide Rail.

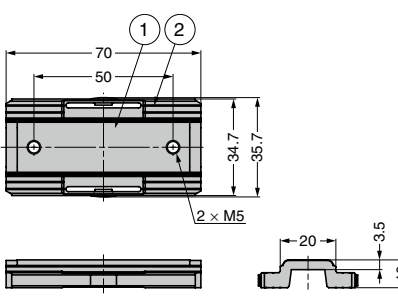
CAD	Item Code	Item Name	Weight (g)	Compatible Rail	Box (pcs)	Carton (pcs)
	190-041-092	MR-40CS	41	MRS40	50	1,000

No.	Material	Finish/Colour
①	Special Polyethylene	High Sliding Grade/Grey
②	Stainless Steel (SUS304)	Gloss Barrel Polished

MINI GUIDE BLOCK (PRELOAD TYPE)

Under Development

MR-40CNB



No.	Material	Finish/Colour
①	Special Polyethylene	High Sliding Grade/Grey
②	Stainless Steel (SUS304)	Gloss Barrel Polished

CAD	Item Code	Item Name	Weight (g)	Compatible Rail	Box (pcs)	Carton (pcs)
	190-041-093	MR-40CNB	40	MRS40	50	1,000

Features

- Preload type which minimises rattling.
- Made from special polyethylene resin with excellent sliding properties, eliminating the need for grease or oil.
- The special polyethylene resin has a high chemical resistance, providing for reliable usage with a wide range of chemicals.
- UL94 HB grade flame resistance.
- The MR-40CNB is designed only for use with the MRS40 Mini Guide Rail.

Remarks

This block is not designed to secure moving objects. Never use the Mini Guide Rail in a vertical or slanted position, as this is dangerous and may cause moving objects to slide or fall.

STAINLESS STEEL MINI SLIDE (2-WAY)

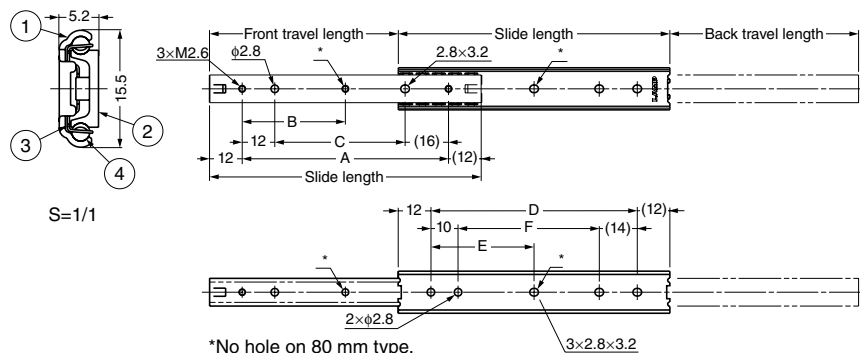
**SCRW2**

Features

- 3/4 extension (2 members).
- Ultra slim profile.
- Special inner member allows smooth movement.
- The drawer can be moved to both directions.

Recommended Screws

- M2.6 low head screw (for outer rail)
- M2.6 screw (for inner rail)
- Max. screw length = Board thickness + 1.5 mm



No.	Part Name	Material
①	Outer Rail	Stainless Steel (SUS304)
②	Inner Rail	Stainless Steel (SUS304)
③	Retainer	Stainless Steel (SUS304)
④	Balls	Steel

Sold by piece.

Item Code	Item Name	Slide Length	Front Travel Length	Back Travel Length	A	B	C	D	E	F	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
															
190-026-620	SCRW2-15- 80A	80	48.5	48.5	56	—	28	56	—	32	137 N/pair	14 kgf/pair	21 g	50 pcs	200 pcs
190-026-621	SCRW2-15-100A	100	68.5	68.5	76	38	48	76	38	52	157 N/pair	16 kgf/pair	26 g	50 pcs	200 pcs
190-026-622	SCRW2-15-150A	150	94.5	94.5	126	63	98	126	63	102	177 N/pair	18 kgf/pair	41 g	50 pcs	200 pcs

STAINLESS STEEL MINI GUIDE



SCRL2

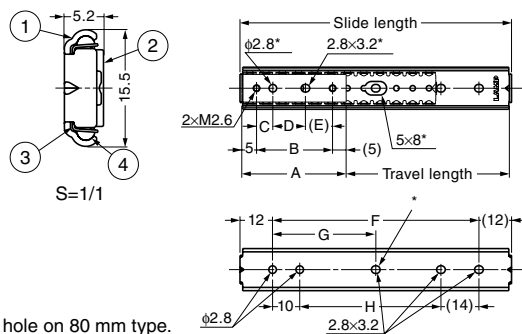


Features

- Ultra slim profile.
- Special inner member allows smooth movement.

Recommended Screws

- M2.6 low head screw (for outer rail)
- M2.6 screw (for inner rail) Screw length = Panel thickness + Max. 1.5



*No hole on 80 mm type.

No.	Part Name	Material
①	Outer Rail	Stainless steel (SUS304)
②	Inner Rail	Stainless steel (SUS304)
③	Retainer	Stainless steel (SUS304)
④	Balls	Steel

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	Load Capacity N	Load Capacity kgf	Weight	Box	Carton
																
190-026-623	SCRL2-15- 80A	80	49	28	18	—	—	—	56	—	32	177 N/pair	18 kgf/pair	16 g	50 pcs	200 pcs
190-026-624	SCRL2-15-100A	100	59	38	28	6	12	10	76	38	52	206 N/pair	21 kgf/pair	20 g	50 pcs	200 pcs
190-026-625	SCRL2-15-150A	150	109	38	28	6	12	10	126	63	102	206 N/pair	21 kgf/pair	29 g	50 pcs	200 pcs
190-026-626	SCRL2-15-200A	200	149	48	38	10	14	14	176	88	152	235 N/pair	24 kgf/pair	38 g	50 pcs	200 pcs

FULL EXTENSION SLIDE

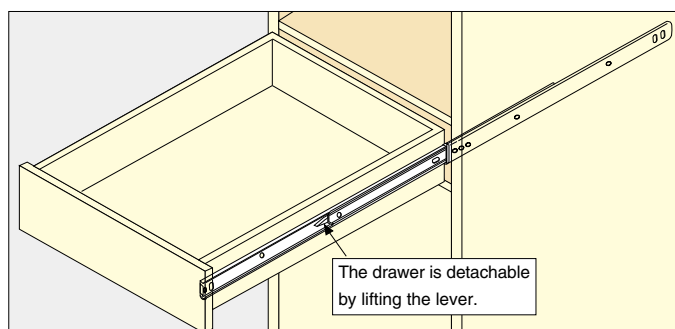
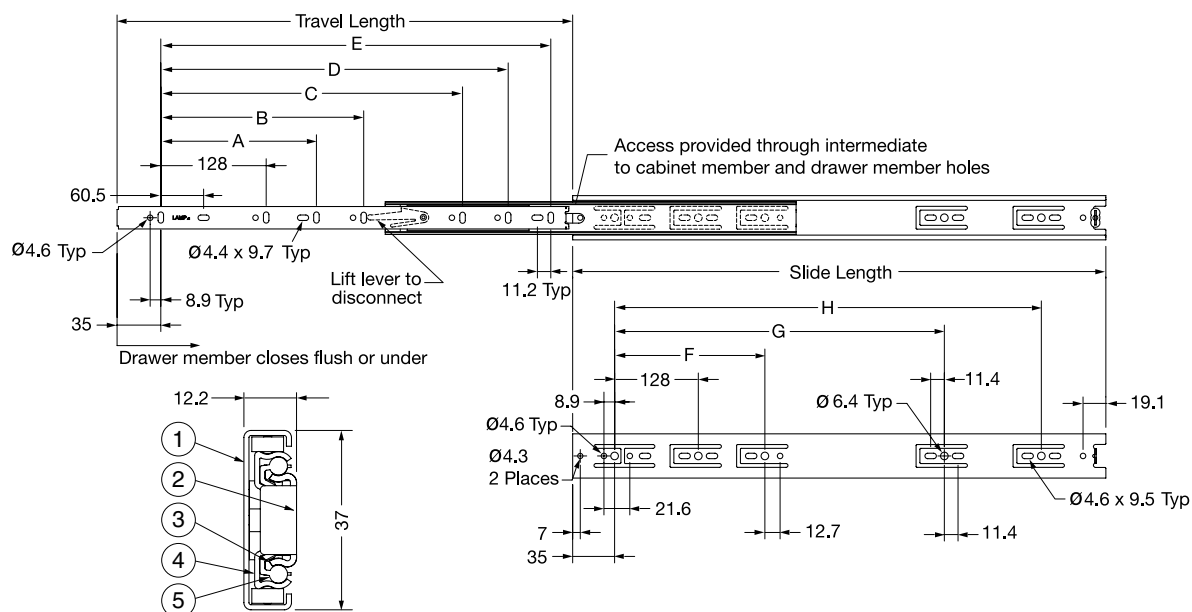


ESR-3813



DRAWER SLIDES

FULL EXTENSION SLIDE



Installation

Features

- Full extension.
- The drawer is detachable by lifting the lever.
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer can be held in the fully closed position.
- Non-handed.
- Mount with M4 Binding, Pan, or Truss head screws.

No.	Part	Material
①	Outer Rail	304 Stainless Steel
②	Inner Rail	
③	Retainer	
④	Intermediate Member	
⑤	Balls	

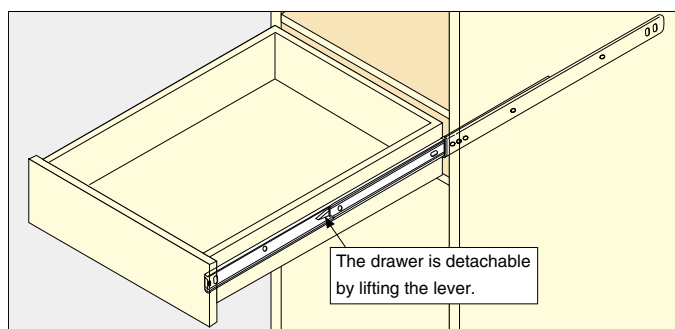
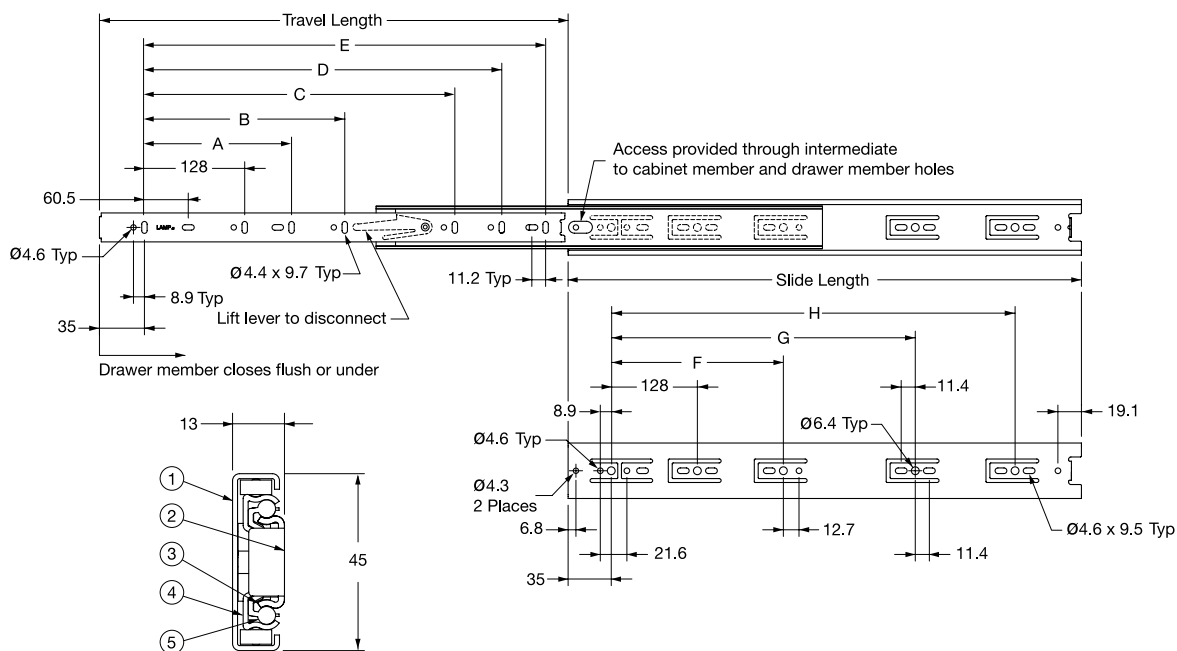
Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	Load Capacity	Weight	Box
190-118-877	ESR-3813-8	200	200	-	-	-	-	142	-	-	-	45 kgf/pair	400 g/pair	10 pairs
190-118-878	ESR-3813-10	250	243	-	-	-	-	192	-	-	-	42 kgf/pair	530 g/pair	
190-118-879	ESR-3813-12	300	305	-	-	-	-	242	224	-	-	40 kgf/pair	637 g/pair	
190-118-880	ESR-3813-14	350	355	-	-	-	-	292	224	-	-	38 kgf/pair	726 g/pair	
190-118-881	ESR-3813-16	400	406	-	-	-	-	342	224	320	-	36 kgf/pair	816 g/pair	
190-118-882	ESR-3813-18	450	457	-	-	320	-	392	224	352	-	34 kgf/pair	910 g/pair	
190-118-883	ESR-3813-20	500	508	-	-	320	-	442	224	416	-	33 kgf/pair	1000 g/pair	
190-118-884	ESR-3813-22	550	559	-	-	320	416	492	224	352	448	31 kgf/pair	1090 g/pair	
190-118-885	ESR-3813-24	600	610	224	-	416	-	542	224	352	480	29 kgf/pair	1180 g/pair	

FULL EXTENSION SLIDE



ESR-4513



Installation

Features

- Full extension.
- The drawer is detachable by lifting the lever.
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer can be held in the fully closed position.
- Non-handed.
- Mount with M4 Binding, Pan, or Truss head screws.

No.	Part	Material
①	Outer Rail	304 Stainless Steel
②	Inner Rail	
③	Retainer	
④	Intermediate Member	
⑤	Balls	

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	Load Capacity	Weight	Box
190-118-867	ESR-4513-10	250	243	-	-	-	-	192	-	-	-	52 kgf/pair	743 g/pair	10 pairs
190-118-868	ESR-4513-12	300	305	-	-	-	-	242	224	-	-	50 kgf/pair	932 g/pair	
190-118-869	ESR-4513-14	350	355	-	-	-	-	292	224	-	-	49 kgf/pair	1070 g/pair	
190-118-870	ESR-4513-16	400	406	-	-	-	-	342	224	320	-	47 kgf/pair	1223 g/pair	
190-118-871	ESR-4513-18	450	457	-	-	320	-	392	224	352	-	46 kgf/pair	1376 g/pair	
190-118-872	ESR-4513-20	500	508	-	-	320	-	442	224	416	-	44 kgf/pair	1530 g/pair	
190-118-873	ESR-4513-22	550	559	-	-	320	416	492	224	352	448	43 kgf/pair	1682 g/pair	
190-118-874	ESR-4513-24	600	610	224	-	416	-	542	224	352	480	42 kgf/pair	1835 g/pair	
190-118-875	ESR-4513-26	650	660	224	-	416	544	592	224	352	544	41 kgf/pair	1988 g/pair	
190-118-876	ESR-4513-28	700	711	224	288	416	544	642	224	352	544	40 kgf/pair	2141 g/pair	

3/4 EXTENSION SLIDE



ESR1

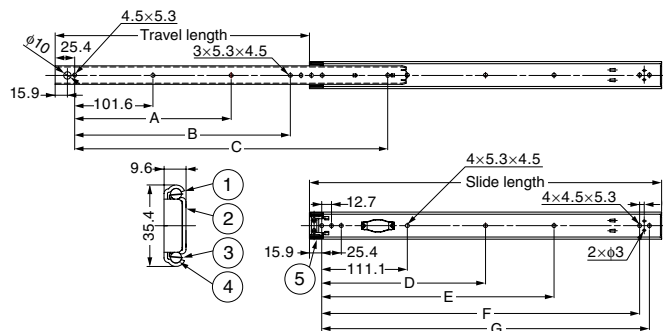


Features

- 3/4 extension slide (2 members).
- The drawer can be stopped at any position by the resistance of the ball retainer. The drawer can be detached by pulling outward.

Recommended Screws

M4 binding screw or M4 truss screw



No.	Part Name	Material	Finish/Color
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS304)	—
⑤	Guide	Polyacetal (POM)	White

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	Load Capacity	Weight	Box
190-111-301	ESR1-12	304.8	228.6	—	152.4	254	—	149.2	260.3	273	481 N/pair	49 kgf/pair	0.32 kg/pc 30 pcs
190-111-302	ESR1-14	355.6	279.4	—	203.2	304.8	—	200	311.1	323.8	461 N/pair	47 kgf/pair	0.37 kg/pc 30 pcs
190-111-303	ESR1-16	406.4	304.8	—	254	355.6	—	250.8	361.9	374.6	422 N/pair	43 kgf/pair	0.43 kg/pc 30 pcs
190-111-304	ESR1-18	457.2	330.2	203.2	304.8	406.4	212.7	301.6	412.7	425.4	402 N/pair	41 kgf/pair	0.48 kg/pc 30 pcs
190-111-305	ESR1-20	508	381	228.6	355.6	457.2	238.1	352.4	463.5	476.2	363 N/pair	37 kgf/pair	0.54 kg/pc 30 pcs
190-111-306	ESR1-22	558.8	406.4	254	406.4	508	263.5	403.2	514.3	527	333 N/pair	34 kgf/pair	0.60 kg/pc 30 pcs
190-111-307	ESR1-24	609.6	432.8	279.4	457.2	558.8	288.9	454	565.1	577.8	294 N/pair	30 kgf/pair	0.66 kg/pc 30 pcs
190-111-308	ESR1-26	660.4	482.6	304.8	508	609.6	314.3	504.8	615.9	628.6	265 N/pair	27 kgf/pair	0.71 kg/pc 30 pcs
190-111-309	ESR1-28	711.2	508	330.2	558.8	660.4	339.7	555.6	666.7	679.4	245 N/pair	25 kgf/pair	0.76 kg/pc 30 pcs

3/4 EXTENSION SLIDE



ESR2



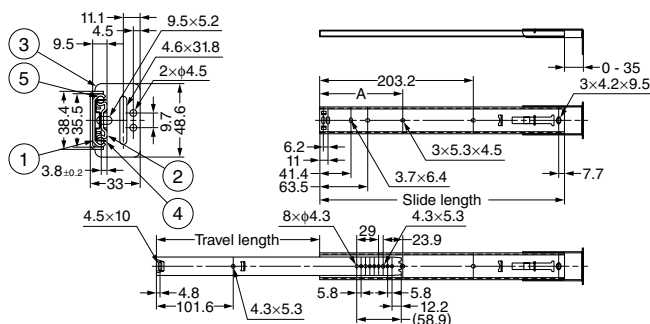
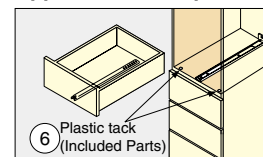
Features

- Under-mount type. Ideal for limited spaces.
- 3/4 extension slide (2 members).
- The drawer can be stopped at any position by the resistance of the ball retainer. The drawer can be detached by pulling outward.

Parts Included

Two plastic tacks.

Application Example

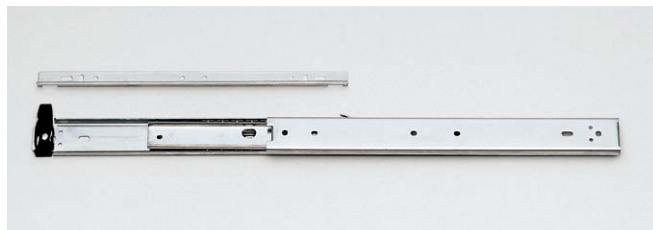


No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Bracket	Stainless Steel (SUS304)	Plain
④	Retainer	Stainless Steel (SUS304)	Plain
⑤	Balls	Stainless Steel (SUS304)	—
⑥	Plastic Tack	Plastic	—

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	Load Capacity N	Load Capacity kgf	Weight	Box
190-111-310	ESR2-12	323.8	215.9	109.9	78 N/piece	8 kgf/piece	0.4 kg/pc	20 pcs
190-111-311	ESR2-14	374.6	266.7	160.7	74 N/piece	7.5 kgf/piece	0.43 kg/pc	20 pcs
190-111-312	ESR2-16	425.4	304.8	—	69 N/piece	7 kgf/piece	0.48 kg/pc	20 pcs
190-111-313	ESR2-18	476.2	317.5	262.3	69 N/piece	7 kgf/piece	0.53 kg/pc	20 pcs
190-111-314	ESR2-20	527	368.3	313.1	64 N/piece	6.5 kgf/piece	0.57 kg/pc	20 pcs
190-111-315	ESR2-22	577.8	419.1	363.9	59 N/piece	6 kgf/piece	0.62 kg/pc	20 pcs
190-111-316	ESR2-24	628.6	444.5	414.7	54 N/piece	5.5 kgf/piece	0.66 kg/pc	20 pcs
190-111-317	ESR2-26	679.4	495.3	465.5	49 N/piece	5 kgf/piece	0.71 kg/pc	20 pcs

FULL EXTENSION SLIDE

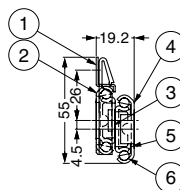
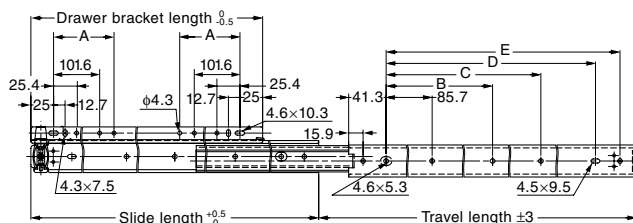

ESR3


Features

- Full extension (3 members).
- The drawer is detachable by lifting the lever.
- With a bumper to avoid metal-to-metal noise at the end of the course.

Recommended Screws

M4 binding screw



No.	Part Name	Material	Finish
①	Drawer Bracket	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Intermediate Member	Stainless Steel (SUS304)	Plain
④	Outer Rail	Stainless Steel (SUS304)	Plain
⑤	Retainer	Stainless Steel (SUS304)	Plain
⑥	Balls	Stainless Steel (SUS304)	—

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	Drawer Bracket Length	A	B	C	D	E	Outer Rail Holes	Load Capacity	Weight	Box
190-115-206	ESR3-12	304.8	348.4	273	—	—	123.1	218.3	245.3	6	637 N/pair	65 kgf/pair	0.68 kg/pair 6 pairs
190-115-207	ESR3-14	355.6	399.2	273	—	—	173.9	269.1	296.1	6	598 N/pair	61 kgf/pair	0.78 kg/pair 6 pairs
190-115-208	ESR3-16	406.4	450	375	—	—	224.7	319.9	346.9	6	598 N/pair	61 kgf/pair	0.91 kg/pair 6 pairs
190-110-413	ESR3-18	457.2	500.8	375	—	187.3	275.5	370.7	397.7	7	549 N/pair	56 kgf/pair	1.01 kg/pair 6 pairs
190-115-210	ESR3-20	508	551.6	375	—	212.7	326.3	421.5	448.5	7	510 N/pair	52 kgf/pair	1.11 kg/pair 6 pairs
190-115-211	ESR3-22	558.8	602.4	527	177.8	238.1	377.1	472.3	499.3	7	510 N/pair	52 kgf/pair	1.26 kg/pair 6 pairs
190-115-212	ESR3-24	609.6	653.2	527	177.8	263.5	427.9	523.1	550.1	7	471 N/pair	48 kgf/pair	1.37 kg/pair 6 pairs
190-110-417	ESR3-26	660.4	704	575.3	177.8	288.9	478.7	573.9	600.9	7	422 N/pair	43 kgf/pair	1.48 kg/pair 6 pairs
190-115-214	ESR3-28	711.2	754.8	575.3	177.8	314.3	529.5	624.7	651.7	7	422 N/pair	43 kgf/pair	1.58 kg/pair 6 pairs

3/4 EXTENSION SLIDE

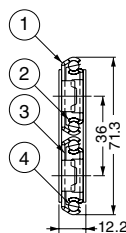
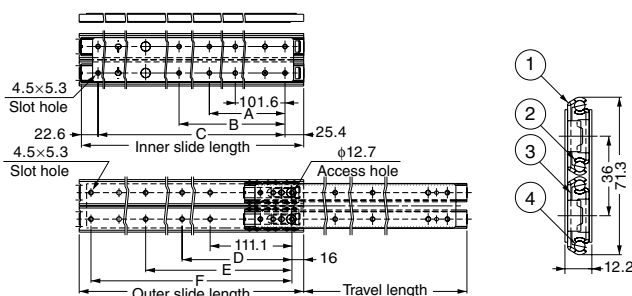

ESR5


Features

3/4 extension (2 members) for heavy duty applications.

Recommended Screws

M4 binding screw or truss head screw



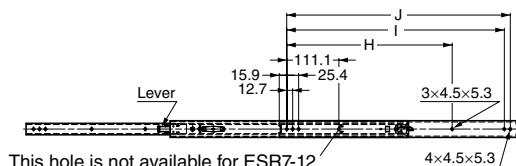
No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Satin
②	Inner Rail	Stainless Steel (SUS304)	Satin
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS304)	Plain

Sold by piece.

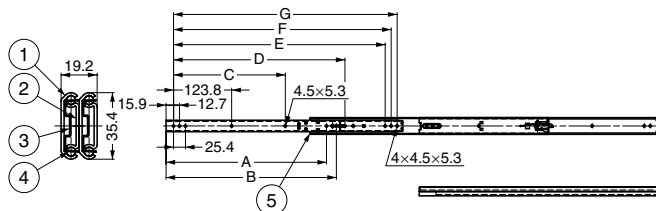
Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	Inner Rail Holes	Outer Rail Holes	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-428	ESR5-12	305	221.8	—	152.4	254	—	149.2	273	6	8	1118 N/pair	114 kgf/pair	0.9 kgf/pc	12 pcs
190-110-429	ESR5-14	355.8	259.9	—	203.2	304.8	—	200	323.8	6	8	1069 N/pair	109 kgf/pair	1.0 kgf/pc	12 pcs
190-110-430	ESR5-16	406.6	298	—	254	355.6	—	250.8	374.6	6	8	1020 N/pair	104 kgf/pair	1.2 kgf/pc	12 pcs
190-110-431	ESR5-18	457.4	348.8	203.2	304.8	406.4	212.7	301.6	425.4	6	10	1000 N/pair	102 kgf/pair	1.3 kgf/pc	12 pcs
190-110-432	ESR5-20	508.2	361.5	228.6	355.6	457.2	238.1	352.4	476.2	6	10	971 N/pair	99 kgf/pair	1.5 kgf/pc	12 pcs
190-110-433	ESR5-22	559	425	254	406.4	508	263.5	403.2	527	6	10	922 N/pair	94 kgf/pair	1.6 kgf/pc	12 pcs
190-110-434	ESR5-24	609.8	450.4	279.4	457.2	558.8	288.9	454	577.8	6	10	873 N/pair	89 kgf/pair	1.8 kgf/pc	12 pcs
190-110-435	ESR5-26	660.6	463.1	304.8	508	609.6	314.3	504.8	628.6	6	10	843 N/pair	86 kgf/pair	1.9 kgf/pc	12 pcs
190-110-436	ESR5-28	711.4	501.2	330.2	558.8	660.4	339.7	555.6	679.4	6	10	785 N/pair	80 kgf/pair	2.0 kgf/pc	12 pcs



ESR7



This hole is not available for ESR7-12.



- Full extension (3 members).
- The drawer can be held in opened position.
- The drawer is detachable by lifting the lever.
- Non-handed.

M4 binding screw or truss head screw

No.	Part Name	Material	Finish/Colour
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS304)	–
⑤	Guide	Polyacetal (POM)	White

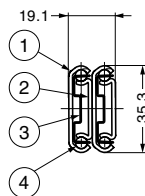
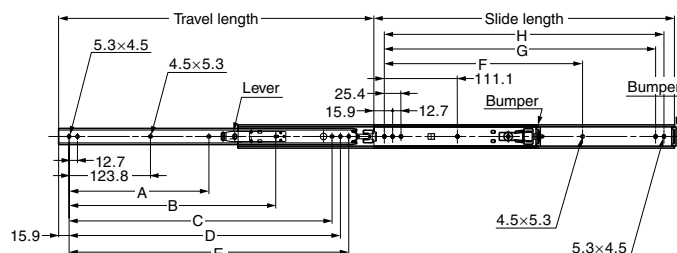
Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	J	Load Capacity N	Load Capacity kgf	Box
190-111-318	ESR7-12	304.8	336	228	248.4	–	–	–	260.3	273	–	260.3	273	623 N/pair	63.5 kgf/pair	16 pcs
190-111-319	ESR7-14	355.6	386.8	278.8	299.2	–	–	–	311.1	323.8	–	311.1	323.8	586 N/pair	59.8 kgf/pair	16 pcs
190-111-320	ESR7-16	406.4	437.6	291.5	311.9	–	–	349.2	361.9	374.6	250.8	361.9	374.6	555 N/pair	56.6 kgf/pair	16 pcs
190-111-321	ESR7-18	457.2	488.4	316.9	337.3	212.7	–	400	412.7	425.4	301.6	412.7	425.4	516 N/pair	52.6 kgf/pair	16 pcs
190-111-322	ESR7-20	508	539.2	342.3	362.7	238.1	–	450.8	463.5	476.2	352.4	463.5	476.2	476 N/pair	48.5 kgf/pair	16 pcs
190-111-323	ESR7-22	558.8	590	367.7	388.1	263.5	415.9	501.6	514.3	527	403.2	514.3	527	444 N/pair	45.3 kgf/pair	16 pcs
190-111-324	ESR7-24	609.6	640.8	393.1	413.5	288.9	466.7	552.4	565.1	577.8	454	565.1	577.8	413 N/pair	42.1 kgf/pair	16 pcs
190-111-325	ESR7-26	660.4	691.6	418.5	438.9	314.3	517.5	603.2	615.9	628.6	504.8	615.9	628.6	383 N/pair	39 kgf/pair	16 pcs
190-111-326	ESR7-28	711.2	742.4	443.9	464.3	339.7	568.3	654	666.7	679.4	555.6	666.7	679.4	355 N/pair	36.2 kgf/pair	16 pcs

DETACH



SNS35W



- Full extension (3 members).
- The drawer is detachable by lifting the lever.
- The drawer can be held in the fully opened position.
- Non-handed.

M4 tapping screw or pan head-screw

No.	Part Name	Material	Finish/Colour
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS440)	–
⑤	Bumper	Elastomer (TPE)	Black

Sold by piece.

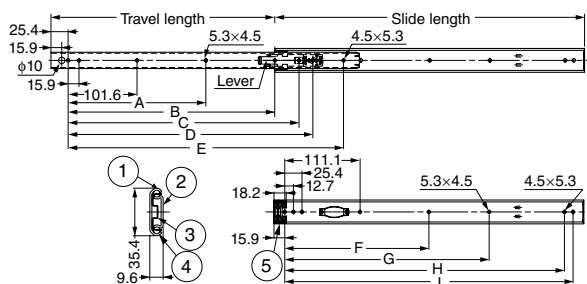
Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	Load Capacity N	Load Capacity kgf	Weight	Box
190-112-231	SNS35W-30	304.8	327.2	–	–	–	260.3	273	–	260.3	273	623 N/pair	62 kgf/pair	0.78 kg/pc	10 pcs
190-112-232	SNS35W-35	355.6	377.9	–	–	298.4	311.1	323.8	–	311.1	323.8	586 N/pair	59 kgf/pair	0.903 kg/pc	10 pcs
190-112-233	SNS35W-40	406.4	428.7	–	–	349.2	361.9	374.6	250.8	361.9	374.6	555 N/pair	56 kgf/pair	1.028 kg/pc	10 pcs
190-112-234	SNS35W-45	457.2	479.5	212.7	–	400	412.7	425.4	301.6	412.7	425.4	516 N/pair	52 kgf/pair	1.151 kg/pc	10 pcs
190-112-235	SNS35W-50	508	530.3	238.1	365.1	450.8	463.6	476.2	352.4	463.6	476.2	475 N/pair	48 kgf/pair	1.275 kg/pc	10 pcs
190-112-236	SNS35W-55	558.8	581.2	263.5	415.9	501.6	514.3	527	403.2	514.3	527	444 N/pair	44 kgf/pair	1.399 kg/pc	10 pcs
190-112-237	SNS35W-60	609.6	631.9	288.9	466.7	552.4	565.1	577.8	454	565.1	577.8	413 N/pair	41 kgf/pair	1.523 kg/pc	10 pcs
190-112-238	SNS35W-65	660.4	682.7	314.3	517.5	603.2	615.9	628.6	504.8	615.9	628.6	382 N/pair	38 kgf/pair	1.647 kg/pc	10 pcs
190-112-239	SNS35W-70	711.2	733.5	339.7	568.3	654	666.7	679.4	555.6	666.7	679.4	355 N/pair	36 kgf/pair	1.77 kg/pc	10 pcs

3/4 EXTENSION SLIDE


ESR8


Features

- 3/4 extension (2 members).
- The drawer can be held in opened position.
- The drawer is detachable by lifting the lever.
- Non-handed.

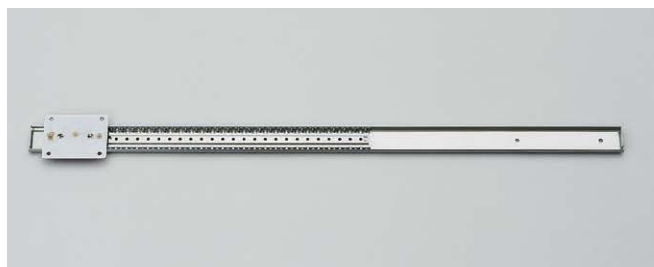


No.	Part Name	Material	Finish/Colour
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS304)	—
⑤	Guide	Polyacetal (POM)	White

Sold by piece.

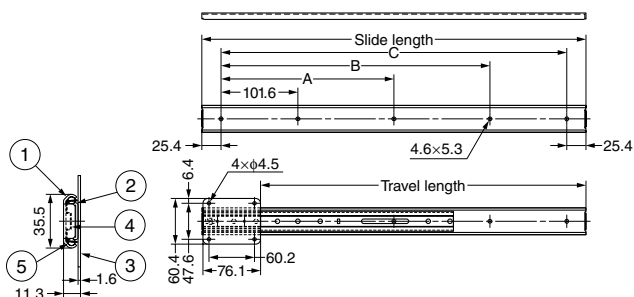
Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	Load Capacity		Weight	Box
190-111-327	ESR8-12	304.8	228.6	—	152.4	—	259.5	—	—	149.2	260.3	273	481 N/pair	49 kgf/pair	0.32 kg/pc	30 pcs
190-111-328	ESR8-14	355.6	279.4	—	203.2	—	310.3	—	—	200	311.1	323.8	461 N/pair	47 kgf/pair	0.38 kg/pc	30 pcs
190-111-329	ESR8-16	406.4	304.8	—	203.2	—	335.7	355.6	—	250.8	361.9	374.6	422 N/pair	43 kgf/pair	0.43 kg/pc	30 pcs
190-111-330	ESR8-18	457.2	330.2	203.2	—	340.7	366.1	406.4	212.7	301.6	412.7	425.4	402 N/pair	41 kgf/pair	0.48 kg/pc	30 pcs
190-111-331	ESR8-20	508	381	228.6	—	391.5	411.9	457.2	238.1	352.4	463.5	476.2	363 N/pair	37 kgf/pair	0.53 kg/pc	30 pcs
190-111-332	ESR8-22	558.8	406.4	254	—	416.9	437.3	508	263.5	403.2	514.3	527	333 N/pair	34 kgf/pair	0.58 kg/pc	30 pcs
190-111-333	ESR8-24	609.6	432.8	279.4	—	443.3	463.7	558.8	288.9	454	565.1	577.8	294 N/pair	30 kgf/pair	0.63 kg/pc	30 pcs
190-111-334	ESR8-26	660.4	482.6	304.8	—	493.1	513.5	609.6	314.3	504.8	615.9	628.6	265 N/pair	27 kgf/pair	0.68 kg/pc	30 pcs
190-111-335	ESR8-28	711.2	508	330.2	—	538.9	558.8	660.4	339.7	555.6	666.7	679.6	245 N/pair	25 kgf/pair	0.73 kg/pc	30 pcs

LINEAR BALL BEARING GUIDE


ESR9


Features

- Ideal for doors of small cabinets. 2 slides can support up to 5 kg.
- Mounting plate attached.



No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Mounting Plate	Stainless Steel (SUS304)	Plain
④	Retainer	Stainless Steel (SUS304)	Plain
⑤	Balls	Stainless Steel (SUS304)	—

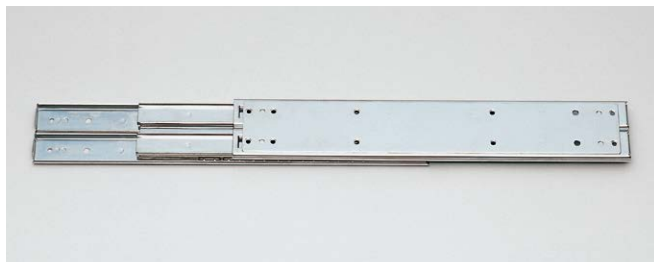
Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	Load Capacity	Weight	Box
190-111-336	ESR9-12	304.8	225	—	152.4	254	5 kgf/pair	0.28 kg/pair	22 pcs
190-111-337	ESR9-14	355.6	276	—	203.2	304.8	5 kgf/pair	0.31 kg/pair	22 pcs
190-111-338	ESR9-16	406.4	327	—	254	355.6	5 kgf/pair	0.34 kg/pair	22 pcs
190-111-339	ESR9-18	457.2	378	203.2	304.8	406.4	5 kgf/pair	0.37 kg/pair	22 pcs
190-111-340	ESR9-20	508	428	228.6	355.6	457.2	5 kgf/pair	0.40 kg/pair	22 pcs
190-111-341	ESR9-22	558.8	479	254	406.4	508	5 kgf/pair	0.44 kg/pair	22 pcs
190-111-342	ESR9-24	609.6	530	279.4	457.2	558.8	5 kgf/pair	0.47 kg/pair	22 pcs
190-111-343	ESR9-26	660.4	581	304.8	508	609.6	5 kgf/pair	0.50 kg/pair	22 pcs
190-111-344	ESR9-28	711.2	632	330.2	558.8	660.4	5 kgf/pair	0.54 kg/pair	22 pcs

FULL EXTENSION SLIDE



ESR10

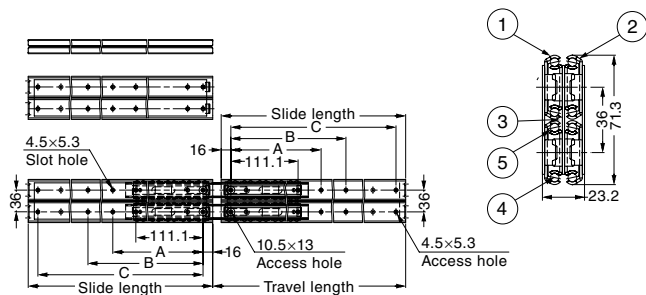


Features

- Full extension (3 members).
- Non-handed.
- Heavy duty.

Recommended Screws

M4



No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Satin
②	Inner Rail	Stainless Steel (SUS304)	Satin
③	Intermediate Member	Stainless Steel (SUS304)	Satin
④	Retainer	Stainless Steel (SUS304)	–
⑤	Balls	Stainless Steel (SUS304)	–

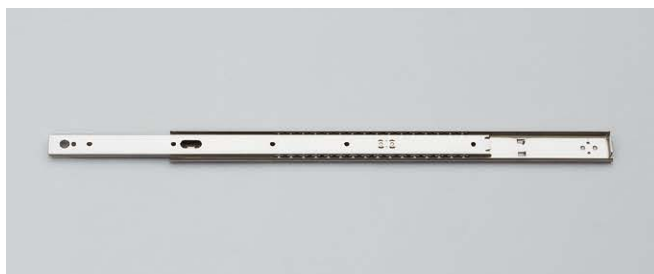
Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-419	ESR10-12	305	319	–	149.2	273	2667 N/pair	272 kgf/pair	1.7 kg/pc	8 pcs
190-110-420	ESR10-14	355.8	369.8	–	200	323.8	2628 N/pair	268 kgf/pair	1.9 kg/pc	8 pcs
190-110-421	ESR10-16	406.6	420.6	–	250.8	374.6	2540 N/pair	259 kgf/pair	2.2 kg/pc	6 pcs
190-110-422	ESR10-18	457.4	471.4	212.7	301.6	425.4	2452 N/pair	250 kgf/pair	2.5 kg/pc	6 pcs
190-110-423	ESR10-20	508.2	522.2	238.1	352.4	476.2	2363 N/pair	241 kgf/pair	2.8 kg/pc	6 pcs
190-110-424	ESR10-22	559	573	263.5	403.2	527	2246 N/pair	229 kgf/pair	3.1 kg/pc	6 pcs
190-110-425	ESR10-24	609.8	623.8	288.9	454	577.8	2118 N/pair	216 kgf/pair	3.5 kg/pc	4 pcs
190-110-426	ESR10-26	660.6	674.6	314.3	504.8	628.6	1961 N/pair	200 kgf/pair	3.7 kg/pc	4 pcs
190-110-427	ESR10-28	711.4	725.4	339.7	555.6	679.4	1785 N/pair	182 kgf/pair	4 kg/pc	4 pcs

3/4 EXTENSION SLIDE

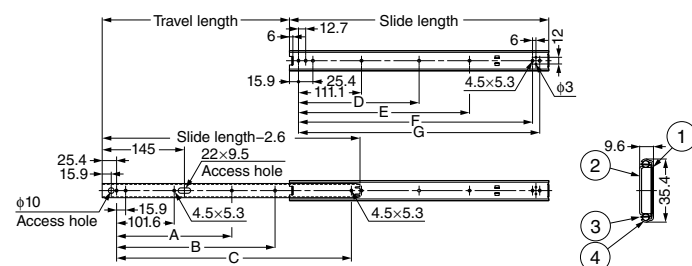


ESR13



Features

- 3/4 extension slide (2 members).
- The drawer can be held in the fully closed position.
- Non-handed.



No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS304)	—

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	Load Capacity N	Load Capacity kgf	Weight	Box
190-111-345	ESR13-12	304.8	228.6	–	177.8	258	–	149.2	260.3	273	481 N/pair	49 kgf/pair	0.33 kg/pc	30 pcs
190-111-346	ESR13-14	355.6	279.4	–	228.6	308.8	–	200	311.1	323.8	461 N/pair	47 kgf/pair	0.38 kg/pc	30 pcs
190-111-347	ESR13-16	406.4	304.8	–	254	359.6	–	250.8	361.9	374.6	422 N/pair	43 kgf/pair	0.42 kg/pc	30 pcs
190-111-348	ESR13-18	457.2	330.2	203.2	279.4	410.4	212.7	301.6	412.7	425.4	402 N/pair	41 kgf/pair	0.49 kg/pc	30 pcs
190-111-349	ESR13-20	508	381	228.6	330.2	461.2	238.1	352.4	463.5	476.2	363 N/pair	37 kgf/pair	0.54 kg/pc	30 pcs
190-111-350	ESR13-22	558.8	406.4	254	355.6	512	263.5	403.2	514.3	527	333 N/pair	34 kgf/pair	0.59 kg/pc	30 pcs
190-111-351	ESR13-24	609.6	431.8	254	381	562.8	288.9	454	565.1	577.8	294 N/pair	30 kgf/pair	0.63 kg/pc	30 pcs
190-111-352	ESR13-26	660.4	482.6	254	431.8	613.6	314.3	504.8	615.9	628.6	265 N/pair	27 kgf/pair	0.68 kg/pc	30 pcs
190-111-353	ESR13-28	711.2	508	279.4	457.2	664.4	339.7	555.6	666.7	679.4	245 N/pair	25 kgf/pair	0.75 kg/pc	30 pcs

3/4 EXTENSION SLIDE



ESR2021

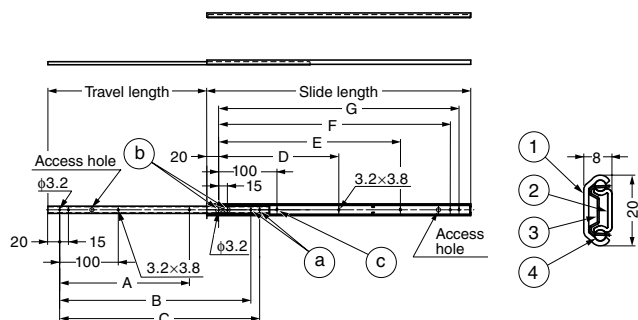


Features

- 3/4 extension slide (2 members).
- Non-handed.

Recommended Screws

M3 screw with binding or truss head



No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS304)	—

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	Load Capacity N	Load Capacity kgf	Weight	Box
190-011-649	ESR2021-200	200	134	—	145	160	—	—	145	160	127 N/pair	13 kgf/pair	0.2 kg/pair	200 pcs
190-011-650	ESR2021-250	250	184	150	195	210	—	—	195	210	147 N/pair	15 kgf/pair	0.25 kg/pair	100 pcs
190-011-651	ESR2021-300	300	224	190	245	260	—	160	245	260	157 N/pair	16 kgf/pair	0.3 kg/pair	100 pcs
190-011-652	*ESR2021-350	350	244	225	295	310	—	210	295	310	157 N/pair	16 kgf/pair	0.35 kg/pair	100 pcs
190-011-653	ESR2021-400	400	294	265	345	360	—	260	345	360	147 N/pair	15 kgf/pair	0.4 kg/pair	100 pcs
190-011-654	ESR2021-450	450	334	300	395	410	205	310	395	410	127 N/pair	13 kgf/pair	0.45 kg/pair	100 pcs
190-011-655	ESR2021-500	500	384	337	445	460	230	360	445	460	108 N/pair	11 kgf/pair	0.5 kg/pair	100 pcs

* When current stock runs out, the model's value in column A will become 190.

FULL EXTENSION SLIDE



ESR2031

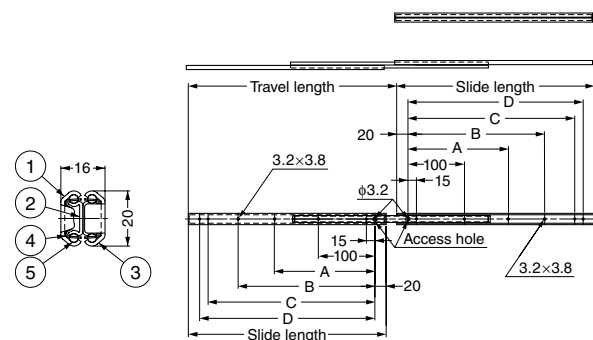


Features

- Full extension (3 members).
- Non-handed.

Recommended Screws

M3 screw with binding or truss head



No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Intermediate Member	Stainless Steel (SUS304)	Plain
③	Inner Rail	Stainless Steel (SUS304)	Plain
④	Retainer	Stainless Steel (SUS304)	Plain
⑤	Balls	Stainless Steel (SUS304)	—

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	Load Capacity N	Load Capacity kgf	Weight	Box
190-011-656	ESR2031-200	200	229	—	—	145	160	167 N/pair	17 kgf/pair	0.4 kg/pair	96 pcs
190-011-657	ESR2031-250	250	269	—	—	195	210	167 N/pair	17 kgf/pair	0.5 kg/pair	48 pcs
190-011-658	ESR2031-300	300	329	—	160	245	260	167 N/pair	17 kgf/pair	0.6 kg/pair	48 pcs
190-011-659	ESR2031-350	350	369	—	210	295	310	167 N/pair	17 kgf/pair	0.7 kg/pair	48 pcs
190-011-660	ESR2031-400	400	429	—	260	345	360	167 N/pair	17 kgf/pair	0.8 kg/pair	48 pcs
190-011-661	ESR2031-450	450	469	205	310	395	410	157 N/pair	16 kgf/pair	0.9 kg/pair	48 pcs
190-011-662	ESR2031-500	500	529	230	360	445	460	127 N/pair	13 kgf/pair	1 kg/pair	48 pcs

FULL EXTENSION SLIDE

L=R

STAINLESS
304
STEEL

5302S



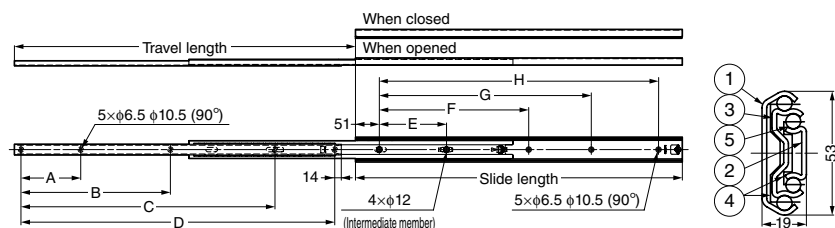
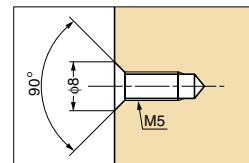
Features

- Full extension (3 members).
- Non-handed.

Recommended Screws

M5 countersunk head screw

Cut Out Dimensions



No.	Part Name	Material	Finish/Colour
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Intermediate Member	Stainless Steel (SUS304)	Plain
④	Retainer	Stainless Steel (SUS304)	Plain
⑤	Balls	Stainless Steel (SUS304)	-

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	Load Capacity N	Load Capacity kgf	Weight	Box
190-112-730	5302S-300	300	334	128	256	-	-	112	192	-	-	1137 N/pair	116 kgf/pair	0.86 kg/pc	20 pcs
190-112-731	5302S-350	350	384	160	320	-	-	144	240	-	-	1088 N/pair	111 kgf/pair	1 kg/pc	20 pcs
190-112-732	5302S-400	400	433	160	256	352	-	144	224	304	-	970 N/pair	99 kgf/pair	1.14 kg/pc	16 pcs
190-112-733	5302S-450	450	482	128	288	416	-	80	272	352	-	941 N/pair	96 kgf/pair	1.28 kg/pc	16 pcs
190-112-734	5302S-500	500	532	128	288	448	-	112	272	384	-	902 N/pair	92 kgf/pair	1.43 kg/pc	10 pcs
190-112-735	5302S-550	550	580	192	320	512	-	112	288	448	-	843 N/pair	86 kgf/pair	1.57 kg/pc	10 pcs
190-112-736	5302S-600	600	630	208	336	544	-	112	336	496	-	794 N/pair	81 kgf/pair	1.71 kg/pc	10 pcs
190-112-737	5302S-650	650	677	128	288	480	608	112	272	416	544	745 N/pair	76 kgf/pair	1.85 kg/pc	10 pcs
190-112-738	5302S-700	700	728	128	336	544	672	144	304	448	592	696 N/pair	71 kgf/pair	2 kg/pc	8 pcs
190-112-739	5302S-750	750	777	192	370	530	722	176	336	496	648	666 N/pair	68 kgf/pair	2.14 kg/pc	8 pcs
190-112-740	5302S-800	800	826	224	388	548	772	192	384	576	688	627 N/pair	64 kgf/pair	2.28 kg/pc	8 pcs

3/4 EXTENSION SLIDE

DETACH

L=R

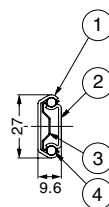
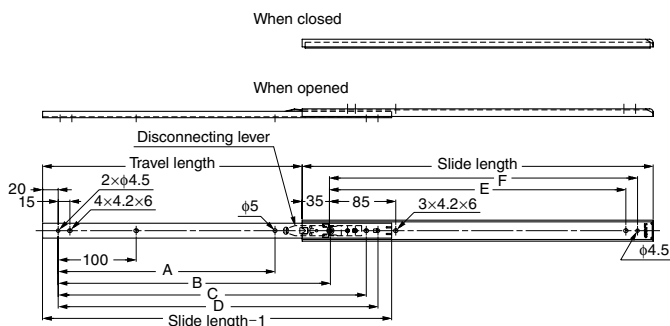
STAINLESS
304
STEEL

272SL



Features

- 3/4 extension (2 members).
- The drawer is detachable by activating the lever.
- Non-handed.



No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS304)	-

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	Load Capacity N	Load Capacity kgf	Weight	Box
190-116-707	272SL-300	300	220	165	236	-	-	230	245	177 N/pair	18 kgf/pair	0.42 kg/pair	20 pairs
190-116-708	272SL-350	350	261	206	277	-	-	280	295	167 N/pair	17 kgf/pair	0.49 kg/pair	20 pairs
190-116-709	272SL-400	400	301	246	317	-	362.5	330	345	157 N/pair	16 kgf/pair	0.56 kg/pair	20 pairs
190-116-710	272SL-450	450	333	278	349	395	410	380	395	147 N/pair	15 kgf/pair	0.62 kg/pair	20 pairs
190-116-711	272SL-500	500	373	318	389	445	460	430	445	137 N/pair	14 kgf/pair	0.68 kg/pair	20 pairs

FULL EXTENSION SLIDE

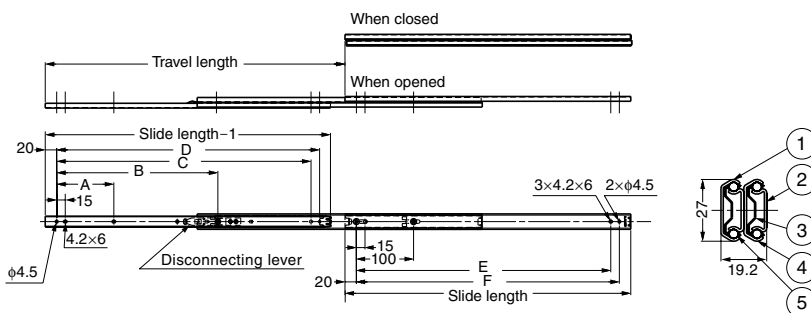


273SL



Features

- Full extension (3 members).
- The drawer is detachable by lifting the lever.
- Non-handed.



No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Intermediate Member	Stainless Steel (SUS304)	Plain
⑤	Balls	Stainless Steel (SUS304)	-

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	Load Capacity N	Load Capacity kgf	Weight	Box
190-116-712	273SL-200	200	221	-	135	-	-	145	160	177 N/pair	18 kgf/pair	0.55 kg/pair	10 pairs
190-116-713	273SL-250	250	280	-	143.5	195	210	195	210	167 N/pair	17 kgf/pair	0.68 kg/pair	10 pairs
190-116-714	273SL-300	300	327	100	188	245	260	245	260	157 N/pair	16 kgf/pair	0.82 kg/pair	10 pairs
190-116-715	273SL-350	350	376	100	211.5	295	310	295	310	147 N/pair	15 kgf/pair	0.96 kg/pair	10 pairs
190-116-716	273SL-400	400	426	100	236	345	360	345	360	137 N/pair	14 kgf/pair	1.09 kg/pair	10 pairs
190-116-717	273SL-450	450	478	100	261.5	395	410	395	410	128 N/pair	13 kgf/pair	1.24 kg/pair	10 pairs
190-116-718	273SL-500	500	524	100	282	445	460	445	460	118 N/pair	12 kgf/pair	1.35 kg/pair	10 pairs

3/4 EXTENSION SLIDE



SNS27S

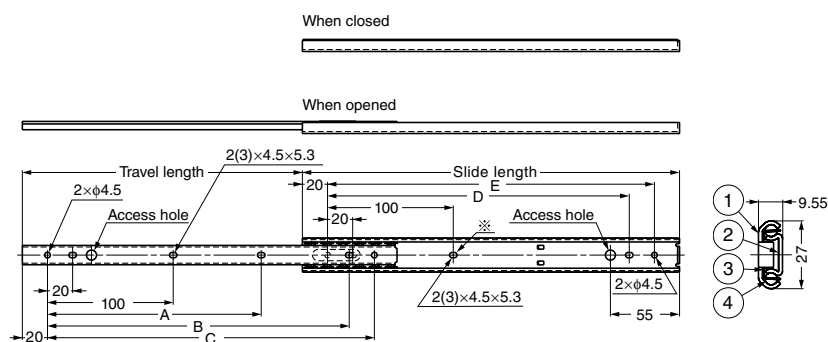


Features

- 3/4 extension (2 members).
- All stainless steel slide.
- Non-handed.

Recommended Screws

M4 pan head tapping screw



※ The hole cannot be used as a fitting hole for the SNS27S-50

No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS440)	-

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-177	SNS27S-20	200	135	-	140	160	140	160	255 N/pair	26 kgf/pair	0.33 kg/pair	40 pcs
190-110-178	SNS27S-25	250	185	150	190	210	190	210	235 N/pair	24 kgf/pair	0.41 kg/pair	40 pcs
190-110-179	SNS27S-30	300	222	190	240	260	240	260	235 N/pair	24 kgf/pair	0.5 kg/pair	40 pcs
190-110-180	SNS27S-35	350	260	225	290	310	290	310	226 N/pair	23 kgf/pair	0.58 kg/pair	40 pcs
190-110-181	SNS27S-40	400	297	265	340	360	340	360	206 N/pair	21 kgf/pair	0.66 kg/pair	40 pcs
190-110-182	SNS27S-45	450	334	300	390	410	390	410	196 N/pair	20 kgf/pair	0.74 kg/pair	40 pcs
190-110-183	SNS27S-50	500	371	337	440	460	440	460	177 N/pair	18 kgf/pair	0.82 kg/pair	40 pcs

FULL EXTENSION SLIDE

L=R

STAINLESS
304
STEEL

SNS27D

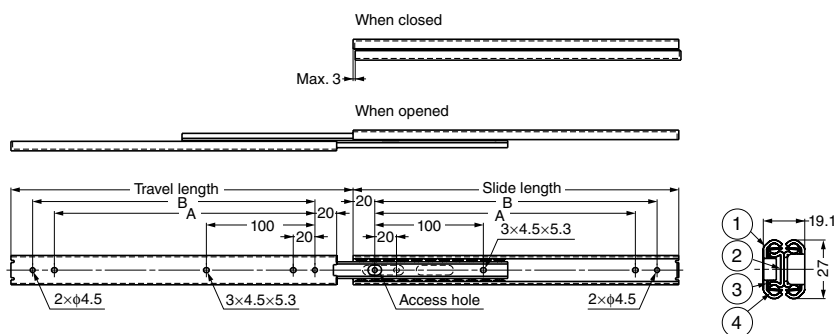


Features

- Full extension (3 members).
- Non-handed.

Recommended Screws

M4 pan head tapping screw



No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS440)	—

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-184	SNS27D-20	200	216.8	140	160	373 N/pair	38 kgf/pair	0.67 kg/pair	20 pcs
190-110-185	SNS27D-25	250	266	190	210	363 N/pair	37 kgf/pair	0.83 kg/pair	20 pcs
190-110-186	SNS27D-30	300	315.2	240	260	353 N/pair	36 kgf/pair	1 kg/pair	20 pcs
190-110-187	SNS27D-35	350	364.4	290	310	333 N/pair	34 kgf/pair	1.16 kg/pair	20 pcs
190-110-188	SNS27D-40	400	413.6	340	360	314 N/pair	32 kgf/pair	1.32 kg/pair	20 pcs
190-110-189	SNS27D-45	450	462.8	390	410	294 N/pair	30 kgf/pair	1.48 kg/pair	20 pcs
190-110-190	SNS27D-50	500	512	440	460	275 N/pair	28 kgf/pair	1.642 kg/pair	20 pcs

3/4 EXTENSION SLIDE

L=R

STAINLESS
304
STEEL

SNS35S

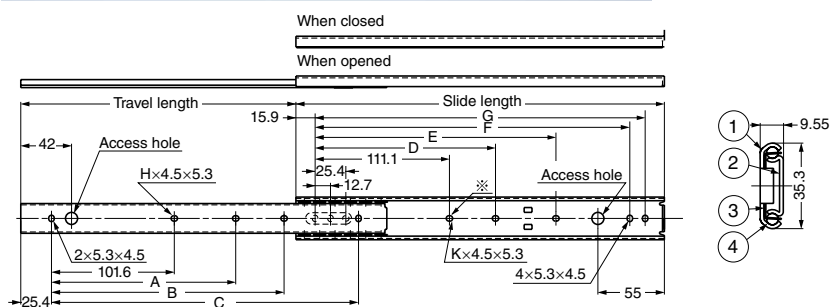


Features

- 3/4 extension (2 members).
- Non-handed.

Recommended Screws

M4 pan head tapping screw



※ The hole cannot be used as a fitting hole for the following items.

- SNS35S-45
- SNS35S-50
- SNS35S-55
- SNS35S-60
- SNS35S-65
- SNS35S-70

No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS440)	—

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	K	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-191	SNS35S-30	304.8	228.6	—	152.4	254	—	149.2	260.3	273	2	3	481 N/pair	49 kgf/pair	0.62 kg/pair	40 pcs
190-110-192	SNS35S-35	355.6	279.4	—	203.2	304.8	—	200	311.1	323.8	2	3	461 N/pair	47 kgf/pair	0.72 kg/pair	40 pcs
190-110-193	SNS35S-40	406.4	304.8	—	254	355.6	—	250.8	361.9	374.6	2	3	422 N/pair	43 kgf/pair	0.82 kg/pair	40 pcs
190-110-194	SNS35S-45	457.2	330.2	203.2	304.8	406.4	212.7	301.6	412.7	425.4	3	4	402 N/pair	41 kgf/pair	0.92 kg/pair	40 pcs
190-110-195	SNS35S-50	508	381	228.6	355.6	457.2	238.1	352.4	463.5	476.2	3	4	363 N/pair	37 kgf/pair	1.02 kg/pair	40 pcs
190-110-196	SNS35S-55	558.8	406.4	254	406.4	508	263.5	403.2	514.3	527	3	4	333 N/pair	34 kgf/pair	1.12 kg/pair	40 pcs
190-110-197	SNS35S-60	609.6	431.8	279.4	457.2	558.8	288.9	454	565.1	577.8	3	4	294 N/pair	30 kgf/pair	1.22 kg/pair	40 pcs
190-110-198	SNS35S-65	660.4	482.6	304.8	508	609.6	314.3	504.8	615.9	628.6	3	4	265 N/pair	27 kgf/pair	1.32 kg/pair	40 pcs
190-110-199	SNS35S-70	711.2	508	330.2	558.8	660.4	339.7	555.6	666.7	679.4	3	4	245 N/pair	25 kgf/pair	1.42 kg/pair	40 pcs

FULL EXTENSION SLIDE

L=R

STAINLESS
304
STEEL

SNS35D

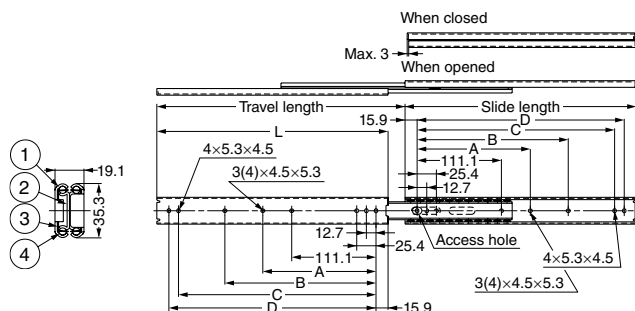


Features

- Full extension (3 members).
- Non-handed.

Recommended Screws

M4 pan head tapping screw



No.	Part Name	Material	Finish
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	Balls	Stainless Steel (SUS440)	-

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-200	SNS35D-30	304.8	327.2	-	149.2	260.3	273	588 N/pair	60 kgf/pair	1.24 kg/pair	10 pcs
190-110-201	SNS35D-35	355.6	377.9	-	200	311.1	323.8	579 N/pair	59 kgf/pair	1.44 kg/pair	10 pcs
190-110-202	SNS35D-40	406.4	428.7	-	250.8	361.9	374.6	559 N/pair	57 kgf/pair	1.64 kg/pair	10 pcs
190-110-203	SNS35D-45	457.2	479.5	212.7	301.6	412.7	425.4	549 N/pair	56 kgf/pair	1.84 kg/pair	10 pcs
190-110-204	SNS35D-50	508	530.3	238.1	352.4	463.5	476.2	530 N/pair	54 kgf/pair	2.05 kg/pair	10 pcs
190-110-205	SNS35D-55	558.8	580.3	263.5	403.2	514.3	527	500 N/pair	51 kgf/pair	2.25 kg/pair	10 pcs
190-110-206	SNS35D-60	609.6	631.9	288.9	454	565.1	577.8	481 N/pair	49 kgf/pair	2.45 kg/pair	10 pcs
190-110-207	SNS35D-65	660.4	682.7	314.3	504.8	615.9	628.6	461 N/pair	47 kgf/pair	2.65 kg/pair	10 pcs
190-110-208	SNS35D-70	711.2	733.5	339.7	555.6	666.7	679.4	441 N/pair	45 kgf/pair	2.85 kg/pair	10 pcs

FULL EXTENSION SLIDE

BUMPER

DETACH

HOLD
CLOSED

L=R

STAINLESS
304
STEEL

ESR4658



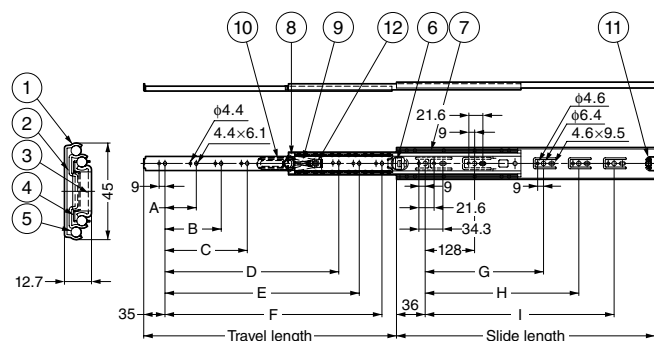
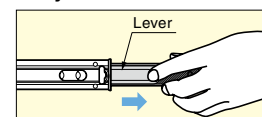
Features

- Full extension (3 members).
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer is detachable by lifting the lever.
- Non-handed.

Recommended Screws

- For wood: M4 tapping screw
- For steel: M4 screw

Easy to Detach



No.	Part Name	Material	Finish/Colour
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Intermediate Member	Stainless Steel (SUS304)	Plain
③	Inner Rail	Stainless Steel (SUS304)	Plain
④	Retainer	Stainless Steel (SUS304)	Plain
⑤	Balls	Stainless Steel (SUS304)	-
⑥	Rubbing Prevention Bumper	Polypropylene (PP)	Natural
⑦	Retainer	Polyethylene (PE)	Grey
⑧	Guide Block	Polyamide (PA)	Black
⑨	Lever 1	Polyacetal (POM)	Black
⑩	Lever 2	Polyethylene (PE)	Black
⑪	Closing Catch Bumper	Polyurethane (PUR)	Black
⑫	Rivet	Stainless Steel (SUS302)	-

Sold in pairs (2 pcs).

	Item Name	Slide Length	Travel Length	B	D	F	H	I		Load Capacity kgf	Weight	
190-110-706	ESR4658-14	350	356	-	-	-	-	-	292 224	490 N/pair	50 kgf/pair	0.99 kg/pair 10 pairs
190-110-707	ESR4658-16	400	406	-	-	320	-	-	342 224	470 N/pair	48 kgf/pair	1.13 kg/pair 10 pairs
190-110-708	ESR4658-18	450	457	128	-	320	-	-	392 224	441 N/pair	45 kgf/pair	1.28 kg/pair 10 pairs
190-110-709	ESR4658-20	500	508	128	-	352	-	-	442 224	421 N/pair	43 kgf/pair	1.42 kg/pair 10 pairs
190-110-710	ESR4658-22	550	559	128	-	416	-	-	492 224	402 N/pair	41 kgf/pair	1.57 kg/pair 10 pairs
190-110-711	ESR4658-24	600	610	128	-	416	-	-	542 224	382 N/pair	39 kgf/pair	1.71 kg/pair 10 pairs
190-110-712	ESR4658-26	650	660	128	224	-	416	544	592 224	353 N/pair	36 kgf/pair	1.86 kg/pair 10 pairs
190-110-713	ESR4658-28	700	711	128	224	-	448	544	642 224	314 N/pair	32 kgf/pair	2 kg/pair 10 pairs

DETACH

**HOLD
CLOSED**



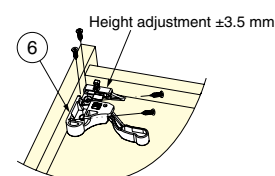
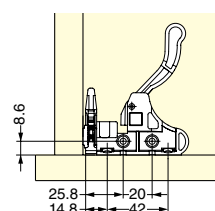
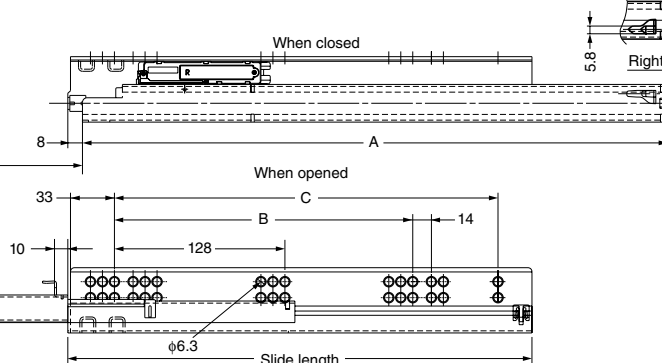
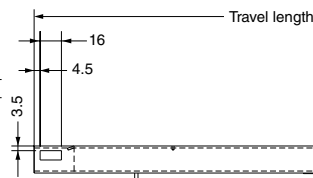
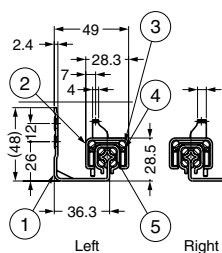
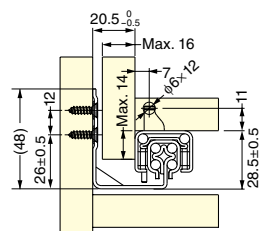
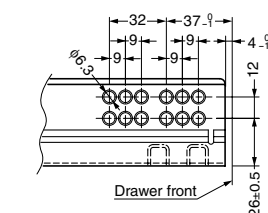
2150



- Under carriage mounting with bracket: Ideal for drawer with limited space.
- Full extension (3 members).
- No handle or knobs required for a sleek, modern look.
- The drawer is detachable by lifting the lever.
- The drawer can be held in the fully closed position.

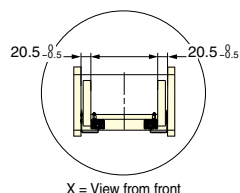
Countersunk head tapping screw 4x15, 3x6

The rail is hidden.



Technical drawing of a drawer assembly. The drawing shows a side view of a drawer with a handle. Key dimensions and components are labeled:

- Drawer length l_s** : The total length of the drawer.
- 3**: A dimension indicating the distance from the left edge to the start of the handle.
- 10**: A dimension indicating the distance from the top edge to the start of the handle.
- 4- $\varnothing$** : A dimension indicating the diameter of the handle.
- 37- $\varnothing$** : A dimension indicating the diameter of the handle.
- X**: A dimension indicating the distance from the left edge to the start of the handle.



No.	Part Name	Material	Finish
①	Outer Member	Steel	Zinc Chromate
②	Inner Member	Steel	Zinc Chromate
③	Ball	Steel	-
④	Retainer (Outside)	Polyacetal (POM)	-
⑤	Retainer (Inside)	Polyethylene (PE)	-
⑥	Clip	Polyamide (PA)	-

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	Drawer Length	Minimum Cabinet Length	W	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-655	2150-270	181.5	266	255	–	–	260	280	470	196 N/pair	20 kgf/pair	1.5 kgf/pair	6 pairs
190-110-656	2150-300	206.5	296	285	–	–	290	310	500	294 N/pair	30 kgf/pair	1.6 kgf/pair	6 pairs
190-110-657	2150-350	241.5	346	335	–	–	340	360	550	294 N/pair	30 kgf/pair	1.9 kgf/pair	6 pairs
190-110-658	2150-400	276.5	396	385	224	–	390	410	600	343 N/pair	35 kgf/pair	2.1 kgf/pair	6 pairs
190-110-659	2150-450	311.5	446	435	224	–	440	460	650	392 N/pair	40 kgf/pair	2.4 kgf/pair	6 pairs
190-110-660	2150-500	356.5	496	485	224	–	490	510	700	343 N/pair	35 kgf/pair	2.6 kgf/pair	6 pairs
190-110-661	2150-550	391.5	546	535	224	–	540	560	750	343 N/pair	35 kgf/pair	2.9 kgf/pair	6 pairs
190-110-662	2150-600	416.5	596	585	224	288	590	610	800	294 N/pair	30 kgf/pair	3.1 kgf/pair	6 pairs

PUSH-TO-OPEN SLIDE



3660



Features

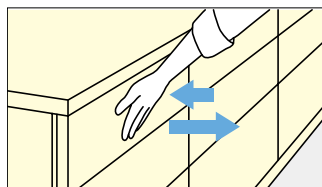
- Push-to-open mechanism.
- No handle or knobs required for a sleek, modern look.
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer is detachable by lifting the lever.
- Heavy duty type: 4660 series are also available (P.582).

Parts Included

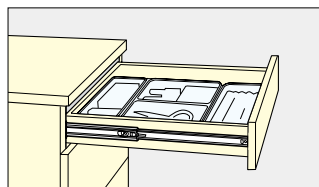
- Truss head tapping screw 4x12
- Hex key



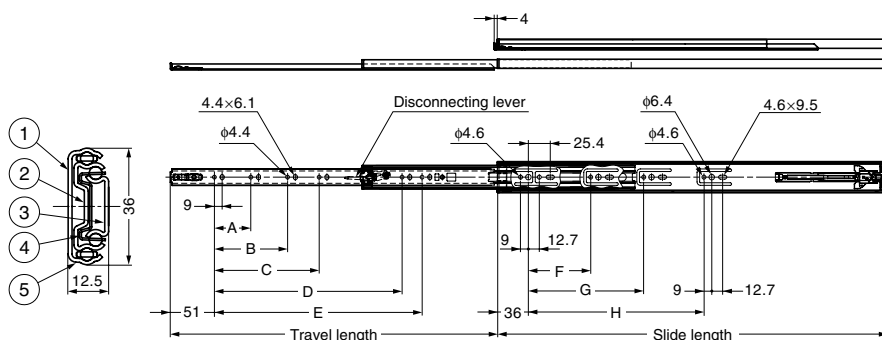
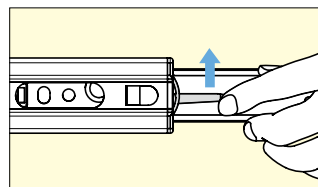
Push to Open



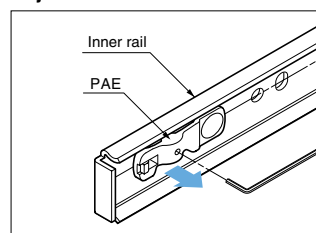
Full Extension (3 Members)



Easy to Detach



Adjustment for the Installation Dimensions 12.7 mm



No.	Part Name	Material	Finish/Colour
①	Outer Member	Steel	Clear Zinc Chromate
②	Intermediate Member	Steel	Clear Zinc Chromate
③	Inner Member	Steel	Clear Zinc Chromate
④	Retainer	Steel	(Zinc Chromate Steel)
⑤	Balls	Steel	-

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	W	Load Capacity N	Load Capacity kgf	Weight	Box
190-027-551	3660-250	250	250	-	-	-	-	121	87	-	-	450	147 N/pair	15 kgf/pair	0.61 kg/pair	20 pairs
190-027-552	3660-300	300	300	71	-	-	-	171	119	-	-	500	147 N/pair	15 kgf/pair	0.73 kg/pair	20 pairs
190-027-553	3660-350	350	350	103	-	-	-	221	119	183	-	550	147 N/pair	15 kgf/pair	0.84 kg/pair	10 pairs
190-027-554	3660-400	400	400	103	231	-	-	271	119	199	-	600	196 N/pair	20 kgf/pair	0.97 kg/pair	10 pairs
190-027-555	3660-450	450	450	103	263	-	-	321	119	247	-	650	196 N/pair	20 kgf/pair	1.09 kg/pair	10 pairs
190-027-556	3660-500	500	500	103	167	295	-	371	119	215	295	700	196 N/pair	20 kgf/pair	1.21 kg/pair	10 pairs
190-027-557	3660-550	550	550	103	199	327	-	421	119	215	345	750	196 N/pair	20 kgf/pair	1.33 kg/pair	10 pairs
190-027-558	3660-600	600	600	103	199	327	391	471	119	247	375	800	196 N/pair	20 kgf/pair	1.55 kg/pair	10 pairs

PUSH-TO-OPEN SLIDE



4660



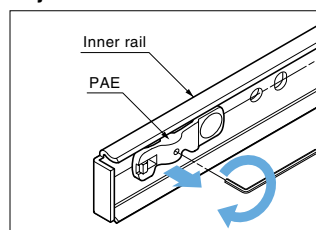
Features

- Push-to-open mechanism.
- No handle or knobs required for a sleek, modern look.
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer is detachable by lifting the lever.
- Light-weight type: 3660 is also available (36 mm wide/15-20 kgf). P.581.

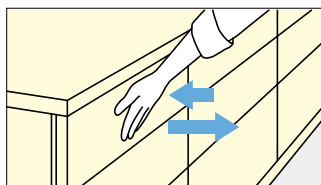
Parts Included

- Truss head tapping screw 4x12
- Hex key

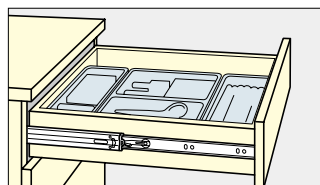
Adjustment for the Installation Dimensions 12.7 mm



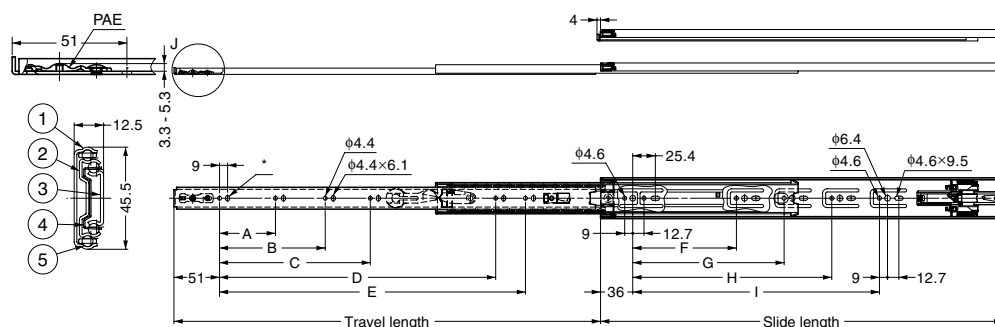
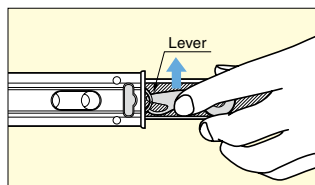
Push to Open



Full Extension (3 Members)

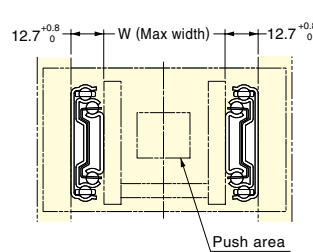
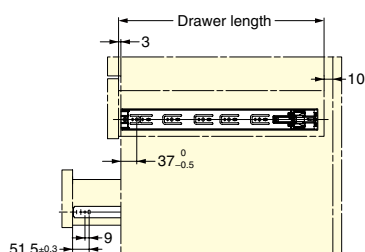


Easy to Detach



Minimum cabinet depth = drawer length + 10 mm

*No hole on the 250 mm type.



No.	Part Name	Material	Finish
①	Outer Rail	Steel	Clear Zinc Chromate
②	Intermediate Member	Steel	Clear Zinc Chromate
③	Inner Rail	Steel	Clear Zinc Chromate
④	Retainer	Steel	(Zinc Chromate Steel)
⑤	Balls	Steel	-

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	W	Load Capacity N	Load Capacity kgf	Weight	Box
190-021-275	4660-250	250	200	-	-	-	117	-	87	-	-	-	450	147 N/pair	15 kgf/pair	0.76 kg/pair	10 pairs
190-021-276	4660-300	300	296	-	-	-	167	-	119	-	-	-	500	196 N/pair	20 kgf/pair	0.90 kg/pair	10 pairs
190-021-277	4660-350	350	348	71	-	-	217	-	119	183	-	-	550	245 N/pair	25 kgf/pair	1.02 kg/pair	10 pairs
190-021-278	4660-400	400	406	103	-	-	267	-	119	215	-	-	600	294 N/pair	30 kgf/pair	1.19 kg/pair	10 pairs
190-021-279	4660-450	450	458	71	135	-	317	-	119	279	-	-	650	343 N/pair	35 kgf/pair	1.35 kg/pair	10 pairs
190-021-280	4660-500	500	509	71	135	-	327	367	119	215	335	-	700	392 N/pair	40 kgf/pair	1.49 kg/pair	10 pairs
190-021-281	4660-550	550	560	103	167	-	359	417	119	215	343	-	750	441 N/pair	45 kgf/pair	1.65 kg/pair	6 pairs
190-021-282	4660-600	600	611	103	199	-	391	467	119	215	343	439	800	343 N/pair	35 kgf/pair	1.81 kg/pair	6 pairs
190-021-283	4660-650	650	661	103	199	-	441	517	119	215	343	471	850	343 N/pair	35 kgf/pair	1.95 kg/pair	6 pairs
190-021-284	4660-700	700	712	103	199	263	491	567	119	215	343	535	900	343 N/pair	35 kgf/pair	2.10 kg/pair	6 pairs

DETACH

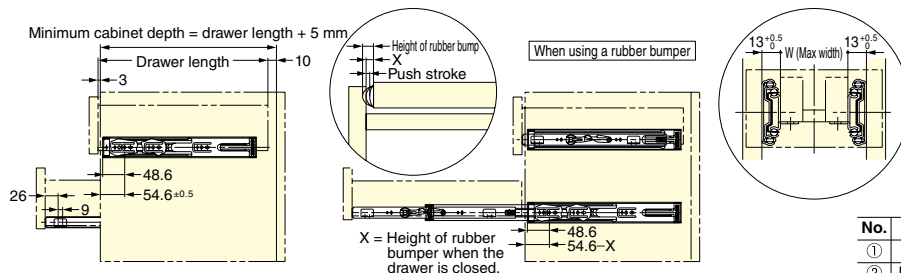
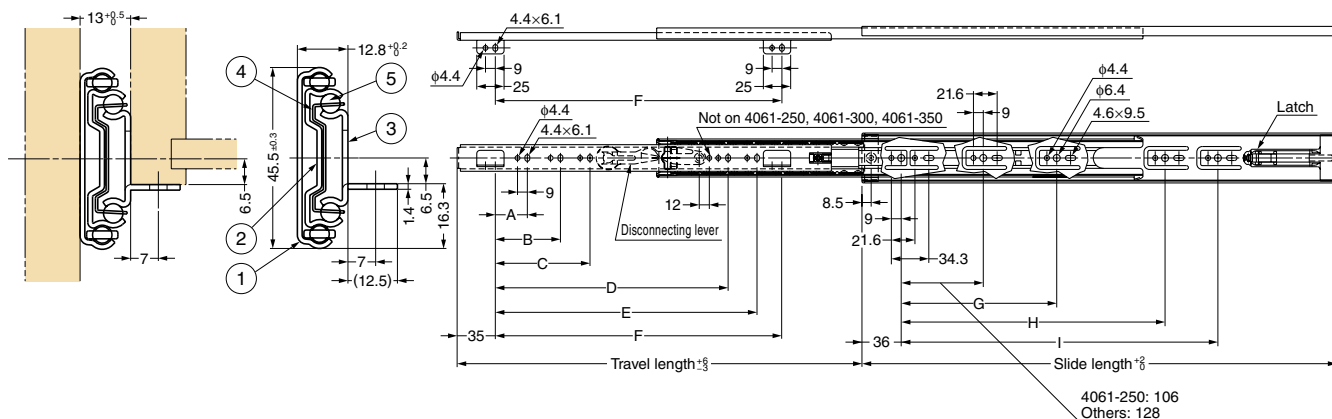
4061



- Push-to-open mechanism.
- No handle or knobs required for a sleek, modern look.
- The drawer is detachable by lifting the lever.
- Full extension (3 members).

M4 truss head tapping screw

A diagram showing a hand on a handrail. Two blue arrows point horizontally in opposite directions (left and right) from the hand, indicating movement.



No.	Part Name	Material	Finish
①	Outer Rail	Steel	Clear Zinc Chromate
②	Intermediate Member	Steel	Clear Zinc Chromate
③	Inner Rail	Steel	Clear Zinc Chromate
④	Retainer	Steel	(Zinc Chromate Steel)
⑤	Balls	Steel	—

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	W	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-889	*1 4061-250	250	238	32	–	–	–	–	156	–	–	106	450	196 N/pair	20 kgf/pair	0.67 kg/pair	10 pairs
190-110-890	*1 4061-300	300	305	64	–	–	–	–	200	–	–	128	500	245 N/pair	25 kgf/pair	0.82 kg/pair	10 pairs
190-110-891	*1 4061-350	350	356	96	–	–	–	–	250	192	–	192	550	343 N/pair	35 kgf/pair	0.97 kg/pair	10 pairs
190-110-892	*1 4061-400	400	406	128	–	–	–	–	294	224	–	224	600	392 N/pair	40 kgf/pair	1.13 kg/pair	10 pairs
190-110-893	*1 4061-450	450	457	96	160	–	–	–	344	288	–	288	650	441 N/pair	45 kgf/pair	1.28 kg/pair	10 pairs
190-110-894	*2 4061-500	500	508	96	160	352	–	–	394	224	–	352	700	441 N/pair	45 kgf/pair	1.42 kg/pair	10 pairs
190-110-895	*2 4061-550	550	559	128	192	384	–	–	444	224	–	352	750	392 N/pair	40 kgf/pair	–	10 pairs
190-110-896	*2 4061-600	600	610	128	224	416	–	–	494	224	352	448	800	392 N/pair	40 kgf/pair	–	10 pairs
190-110-897	*2 4061-650	650	660	128	224	416	480	–	544	224	352	480	850	343 N/pair	35 kgf/pair	–	10 pairs
190-110-898	*2 4061-700	700	711	128	224	288	480	544	594	224	352	544	900	343 N/pair	35 kgf/pair	–	10 pairs

*2 Minimum order quantity is 500 pairs.

PUSH-TO-OPEN SLIDE



4638



Features

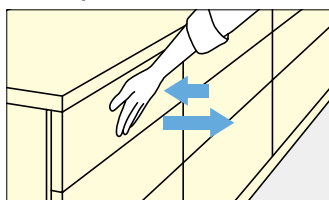
- Push-to-open mechanism.
- No handle or knobs required for a sleek, modern look.
- The drawer is detachable by lifting the lever.
- The drawer can be held in the fully opened position.
- Full extension (3 members).

Recommended Screws

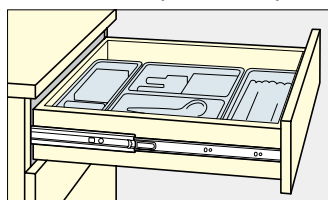
M4 round head screw, M4 blind head screw, M4 truss head screw



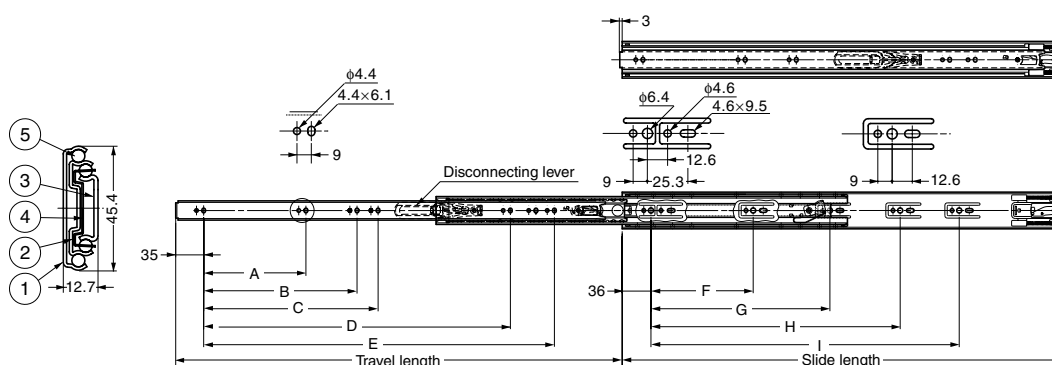
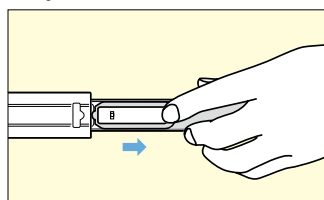
Push Open



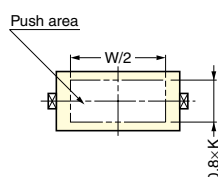
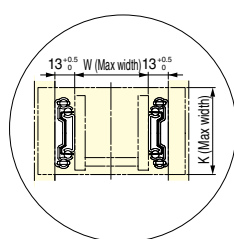
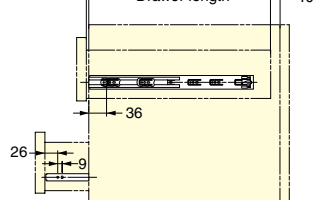
Full Extension (3 Members)



Easy to Detach



Minimum cabinet depth = drawer length + 7 mm



No.	Part Name	Material	Finish
①	Outer Rail	Steel	Clear Zinc Chromate
②	Intermediate Member	Steel	Clear Zinc Chromate
③	Inner Rail	Steel	Clear Zinc Chromate
④	Retainer	Steel	Clear Zinc Chromate
⑤	Balls	Steel	-

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	Max. Drawer Length		Load Capacity N	Load Capacity kgf	Weight	Box
													W	K				
190-012-468	4638-14	350	356	-	-	-	-	224	128	-	-	224	550	215	441 N/pair	45 kgf/pair	0.96 kg/pair	20 pairs
190-012-469	4638-16	400	406	-	-	-	-	288	-	256	-	-	600	250	422 N/pair	43 kgf/pair	1.12 kg/pair	20 pairs
190-012-470	4638-18	450	457	128	-	-	-	320	-	224	320	-	650	280	392 N/pair	40 kgf/pair	1.27 kg/pair	10 pairs
190-012-471	4638-20	500	508	128	-	-	-	384	-	224	352	-	700	310	373 N/pair	38 kgf/pair	1.42 kg/pair	10 pairs
190-012-472	4638-22	550	559	128	-	-	192	416	128	224	320	416	750	340	353 N/pair	36 kgf/pair	1.57 kg/pair	10 pairs
190-012-473	4638-24	600	610	128	224	-	416	480	128	-	352	448	800	375	330 N/pair	34 kgf/pair	1.72 kg/pair	10 pairs
190-012-474	4638-26	650	660	128	224	-	416	512	128	-	352	512	850	405	304 N/pair	31 kgf/pair	1.86 kg/pair	10 pairs
190-012-475	4638-28	700	711	128	224	448	512	576	128	-	352	544	900	435	265 N/pair	27 kgf/pair	2.02 kg/pair	10 pairs

FULL EXTENSION SOFT-CLOSE SLIDE



3670



Features

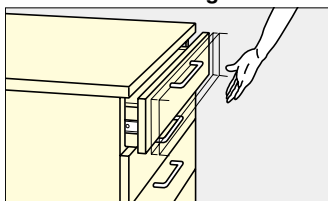
- Smooth and elegant soft-closing mechanism.
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer is detachable by lifting the lever.
- Self-closes at 20 mm distance from closed position (250-350 mm slide) and at 36 mm distance from closed position (400-600 mm slide).
- Heavy duty type: 4670 series are also available (P.586 & P.587).

Parts Included

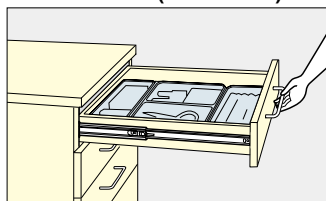
Truss head tapping screw 4x12



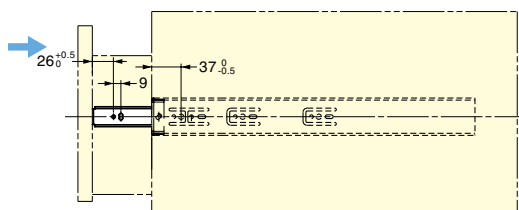
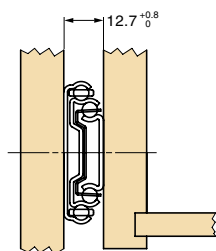
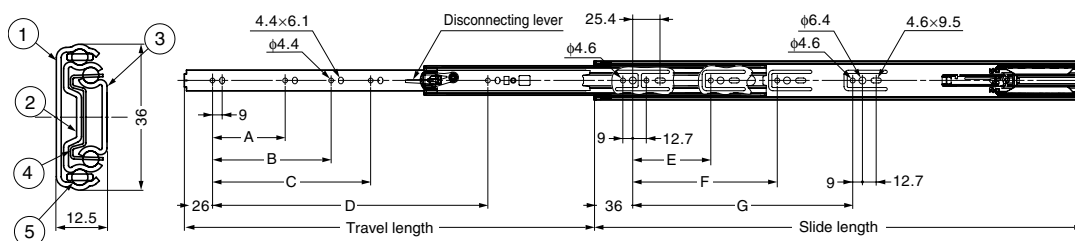
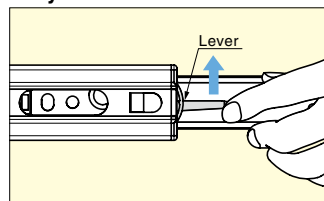
Self and Soft Closing



Full Extension (3 Members)



Easy to Detach



No.	Part Name	Material	Finish/Colour
①	Outer Member	Steel	Clear Zinc Chromate
②	Intermediate Member	Steel	Clear Zinc Chromate
③	Inner Member	Steel	Clear Zinc Chromate
④	Retainer	Steel	(Zinc Chromate Steel)
⑤	Balls	Steel	-

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	Load Capacity N	Load Capacity kgf	Weight	Box
190-027-543	3670-250	250	200	124	-	-	-	87	-	-	147 N/pair	15 kgf/pair	0.60 kg/pair	20 pairs
190-027-544	3670-300	300	300	174	-	-	-	119	-	-	147 N/pair	15 kgf/pair	0.70 kg/pair	20 pairs
190-027-545	3670-350	350	350	96	224	-	-	119	183	-	147 N/pair	15 kgf/pair	0.81 kg/pair	10 pairs
190-027-546	3670-400	400	400	160	256	-	-	119	199	-	196 N/pair	20 kgf/pair	0.93 kg/pair	10 pairs
190-027-547	3670-450	450	450	96	192	306	-	119	247	-	196 N/pair	20 kgf/pair	1.05 kg/pair	10 pairs
190-027-548	3670-500	500	500	128	224	356	-	119	215	295	196 N/pair	20 kgf/pair	1.16 kg/pair	10 pairs
190-027-549	3670-550	550	550	128	224	352	406	119	215	343	196 N/pair	20 kgf/pair	1.29 kg/pair	10 pairs
190-027-550	3670-600	600	600	128	224	384	456	119	247	375	196 N/pair	20 kgf/pair	1.41 kg/pair	10 pairs

FULL EXTENSION SOFT-CLOSE SLIDE



4670



Features

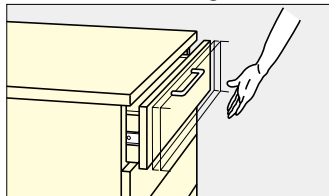
- Self and soft closing slide.
- Full extension (3 members).
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer is detachable by lifting the lever.
- Self-closes at 20 mm distance from closed position (250-350 mm slide) and at 36 mm distance from closed position (400-600 mm slide).

Parts Included

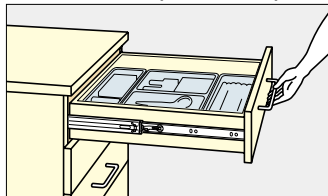
Truss head tapping screw 4x12



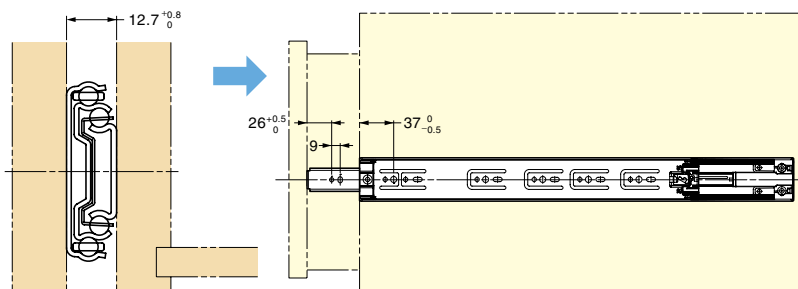
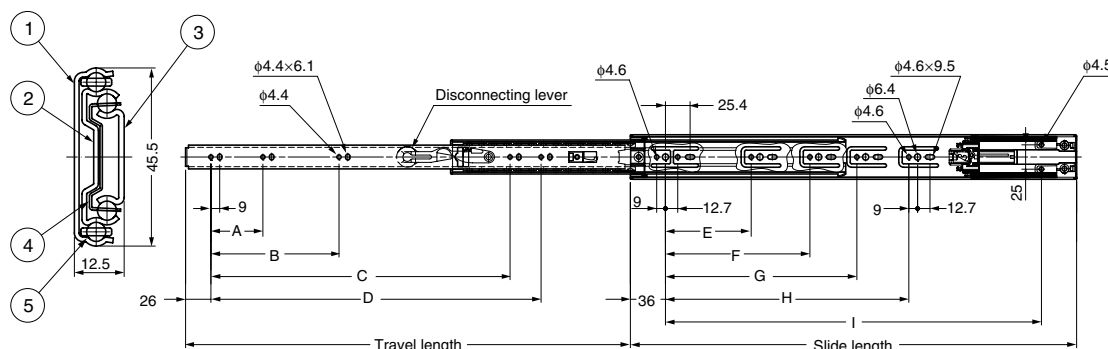
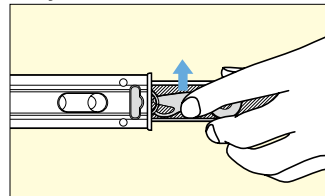
Self and Soft Closing



Full Extension (3 Members)



Easy to Detach



No.	Part Name	Material	Finish/Colour
①	Outer Rail	Steel	Clear Zinc Chromate
②	Intermediate Member	Steel	Clear Zinc Chromate
③	Inner Rail	Steel	Clear Zinc Chromate
④	Retainer	Steel	(Zinc Chromate Steel)
⑤	Balls	Steel	-

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	Load Capacity N	Load Capacity kgf	Weight	Box
190-021-265	4670-250	250	175	-	-	124	-	87	-	-	-	179	147 N/pair	15 kgf/pair	0.72 kg/pair	10 pairs
190-021-266	4670-300	300	275	-	-	174	-	119	-	-	-	229	196 N/pair	20 kgf/pair	0.88 kg/pair	10 pairs
190-021-267	4670-350	350	353	96	-	224	-	119	183	-	-	279	245 N/pair	25 kgf/pair	1.02 kg/pair	10 pairs
190-021-268	4670-400	400	404	96	-	254	-	119	199	-	-	329	245 N/pair	25 kgf/pair	1.17 kg/pair	10 pairs
190-021-269	4670-450	450	455	128	-	294	-	119	247	-	-	379	294 N/pair	30 kgf/pair	1.31 kg/pair	10 pairs
190-021-270	4670-500	500	505	96	160	344	-	119	295	-	-	429	343 N/pair	35 kgf/pair	1.48 kg/pair	10 pairs
190-021-271	4670-550	550	556	96	160	394	-	119	215	343	-	479	392 N/pair	40 kgf/pair	1.62 kg/pair	6 pairs
190-021-272	4670-600	600	606	128	192	444	-	119	215	343	-	529	294 N/pair	30 kgf/pair	1.77 kg/pair	6 pairs
190-021-273	4670-650	650	653	128	224	416	494	119	215	343	439	579	294 N/pair	30 kgf/pair	1.94 kg/pair	6 pairs
190-021-274	4670-700	700	704	128	224	480	544	119	215	343	487	629	294 N/pair	30 kgf/pair	2.10 kg/pair	6 pairs

FULL EXTENSION SOFT-CLOSE SLIDE



4670BL



Features

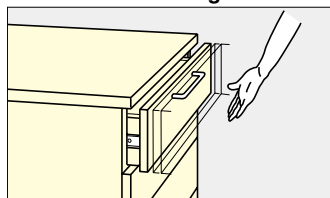
- Self and soft closing slide.
- Full extension (3 members).
- With a bumper to avoid metal-to-metal noise at the end of the course.
- The drawer is detachable by lifting the lever.
- Self-closes at 20 mm distance from closed position (250-350 mm slide) and at 36 mm distance from closed position (400-600 mm slide).

Parts Included

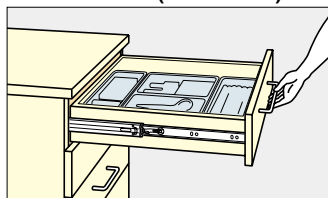
Truss head tapping screw 4x12 (black finish)



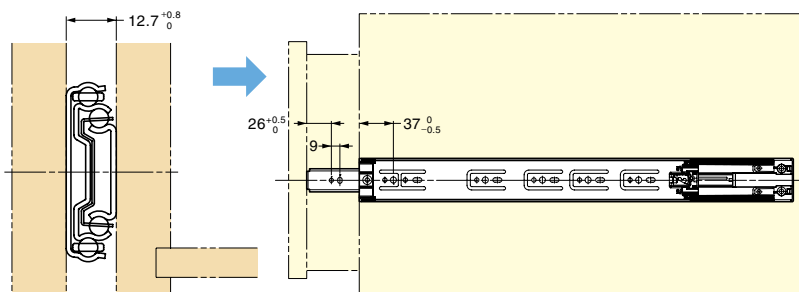
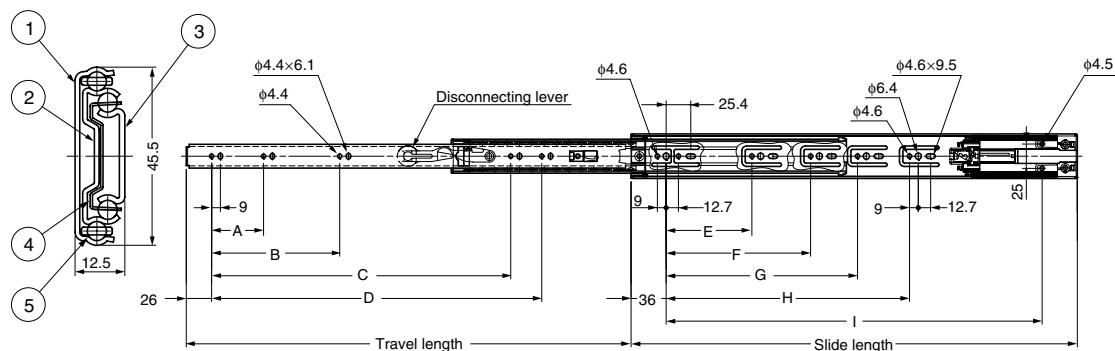
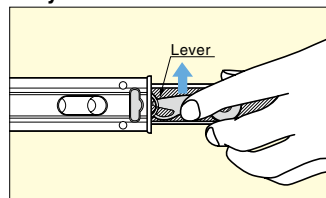
Self and Soft Closing



Full Extension (3 Members)



Easy to Detach



No.	Part Name	Material	Finish/Colour
①	Outer Rail	Steel	Black
②	Intermediate Member	Steel	Electrodeposition
③	Inner Rail	Steel	(Zinc Chromate Steel)
④	Retainer	Steel	—
⑤	Balls	Steel	—

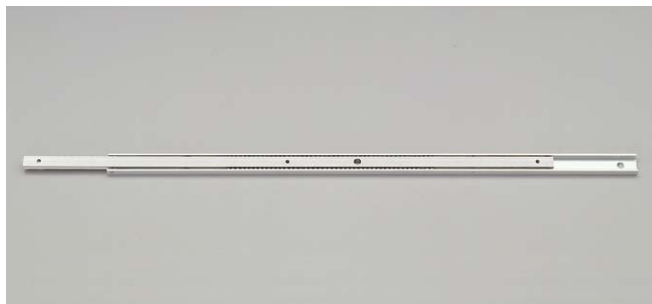
Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	Load Capacity N	Load Capacity kgf	Weight	Box
190-028-947	4670-250BL	250	175	–	–	124	–	87	–	–	–	179	147 N/pair	15 kgf/pair	0.72 kg/pair	10 pairs
190-028-948	4670-300BL	300	275	–	–	174	–	119	–	–	–	229	196 N/pair	20 kgf/pair	0.88 kg/pair	10 pairs
190-028-949	4670-350BL	350	353	96	–	224	–	119	183	–	–	279	245 N/pair	25 kgf/pair	1.02 kg/pair	10 pairs
190-028-950	4670-400BL	400	404	96	–	254	–	119	199	–	–	329	245 N/pair	25 kgf/pair	1.17 kg/pair	10 pairs
190-028-951	4670-450BL	450	455	128	–	294	–	119	247	–	–	379	294 N/pair	30 kgf/pair	1.31 kg/pair	10 pairs
190-028-952	4670-500BL	500	505	96	160	344	–	119	295	–	–	429	343 N/pair	35 kgf/pair	1.48 kg/pair	10 pairs
190-028-953	4670-550BL	550	556	96	160	394	–	119	215	343	–	479	392 N/pair	40 kgf/pair	1.62 kg/pair	6 pairs
190-028-954	4670-600BL	600	606	128	192	444	–	119	215	343	–	529	294 N/pair	30 kgf/pair	1.77 kg/pair	6 pairs

3/4 EXTENSION SLIDE

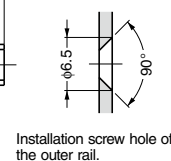
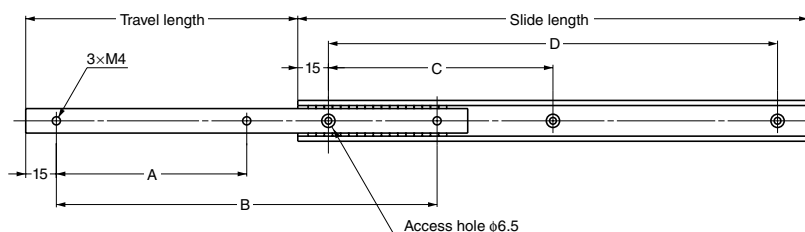
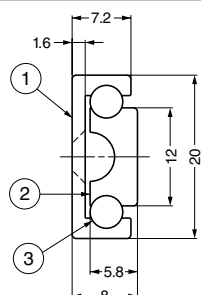
L=R

AR2



Features

- 3/4 extension (2 members).
- Non-handed.
- Recommended Screw: M3



Installation screw hole of the outer rail.

No.	Part Name	Material	Finish/Colour
①	Outer Rail	Aluminium Alloy	White Anodized
②	Inner Rail	Aluminium Alloy	White Anodized
③	Balls	Steel	-

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	Load Capacity N	Load Capacity kgf	Weight	Box
190-119-533	AR2-100	100	60	-	70	-	70	150 N/pair	15.3 kgf/pair	31 g	1,000 pcs
190-119-534	AR2-200	200	120	85	170	85	170	120 N/pair	12.2 kgf/pair	63 g	500 pcs
190-119-535	AR2-300	300	180	135	270	135	270	100 N/pair	10.2 kgf/pair	76 g	250 pcs
190-119-536	AR2-400	400	240	185	370	185	370	90 N/pair	9.2 kgf/pair	129 g	200 pcs
190-119-537	AR2-500	500	300	235	470	235	470	80 N/pair	8.2 kgf/pair	161 g	200 pcs

FULL EXTENSION SLIDE

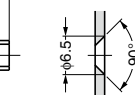
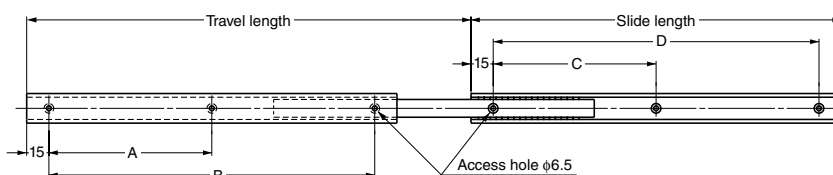
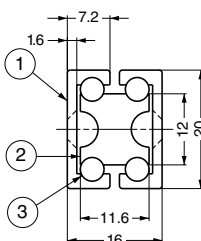
L=R

AR3



Features

- Full extension (3 members).
- Non-handed.
- Recommended Screw: M3



Installation screw hole of the outer rail.

No.	Part Name	Material	Finish/Colour
①	Outer Rail	Aluminium Alloy	White Anodized
②	Inner Rail	Aluminium Alloy	White Anodized
③	Balls	Steel	-

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	Load Capacity N	Load Capacity kgf	Weight	Box
190-119-538	AR3-100	100	100	-	70	-	70	110 N/pair	11.2 kgf/pair	63 g	500 pcs
190-119-539	AR3-200	200	223	85	170	85	170	90 N/pair	9.2 kgf/pair	128 g	250 pcs
190-119-540	AR3-300	300	345	135	270	135	270	70 N/pair	7.1 kgf/pair	194 g	125 pcs
190-119-541	AR3-400	400	460	185	370	185	370	50 N/pair	5.1 kgf/pair	260 g	100 pcs
190-119-542	AR3-500	500	576	235	470	235	470	30 N/pair	3.1 kgf/pair	325 g	100 pcs

3/4 EXTENSION SLIDE

HOLD
OPENED

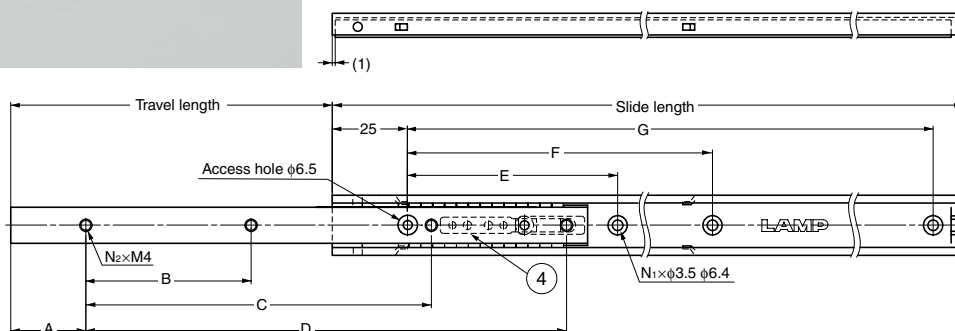
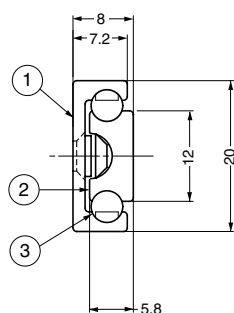
L=R

AR2-K



Features

- 3/4 extension (2 members).
- Non-handed.
- The drawer can be held in the fully opened position.
- Recommended Screw: M3



No.	Part Name	Material	Finish
①	Outer Rail	Aluminium Alloy	Anodized Silver
②	Inner Rail	Aluminium Alloy	Anodized Silver
③	Balls	Steel	-
④	Detent Catch	Stainless Steel (SUS304)	-

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	F	G	N ₁	N ₂	Load Capacity N	Load Capacity kgf	Weight	Box
190-112-251	AR2-K200	200	110	25	60	160	-	150	-	-	2	3	125 N/pair	12.7 kgf/pair	64 g	500 pcs
190-112-252	AR2-K300	300	170	45	100	230	-	130	250	-	3	3	110 N/pair	11.2 kgf/pair	97 g	250 pcs
190-112-253	AR2-K400	400	230	45	150	270	330	130	280	350	4	4	95 N/pair	9.7 kgf/pair	130 g	200 pcs
190-112-254	AR2-K500	500	290	45	190	340	430	130	280	450	4	4	85 N/pair	8.7 kgf/pair	162 g	200 pcs

FULL EXTENSION SLIDE

HOLD
OPENED

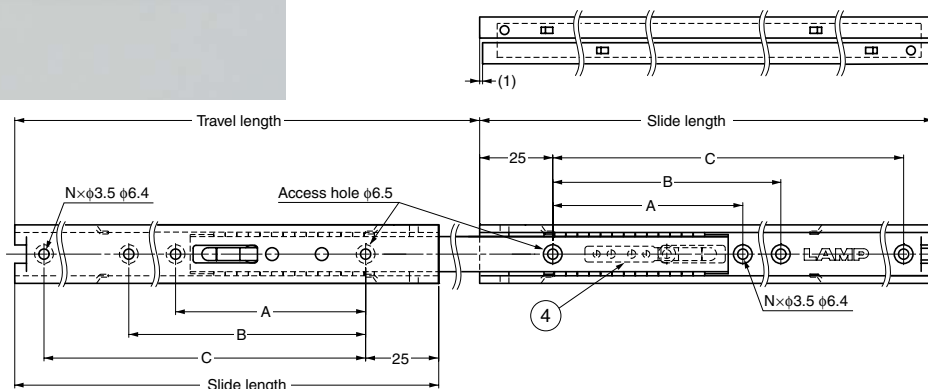
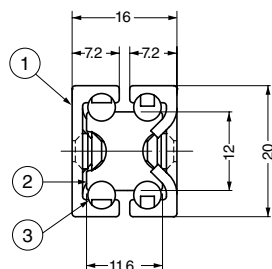
L=R

AR3-K



Features

- Full extension (3 members).
- Non-handed.
- The drawer can be held in the fully opened position.
- Recommended Screw: M3



No.	Part Name	Material	Finish
①	Outer Rail	Aluminium Alloy	Anodized Silver
②	Inner Rail	Aluminium Alloy	Anodized Silver
③	Balls	Steel	-
④	Detent Catch	Stainless Steel (SUS304)	-

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	N	Load Capacity N	Load Capacity kgf	Weight	Box
190-112-255	AR3-K200	200	214	150	-	-	2	105 N/pair	10.7 kgf/pair	130 g	250 pcs
190-112-256	AR3-K300	300	314	130	250	-	3	100 N/pair	10.2 kgf/pair	198 g	125 pcs
190-112-257	AR3-K400	400	414	130	280	350	4	90 N/pair	9.2 kgf/pair	263 g	100 pcs
190-112-258	AR3-K500	500	514	130	280	450	4	85 N/pair	8.7 kgf/pair	304 g	100 pcs

LINEAR BALL BEARING GUIDE

L=R

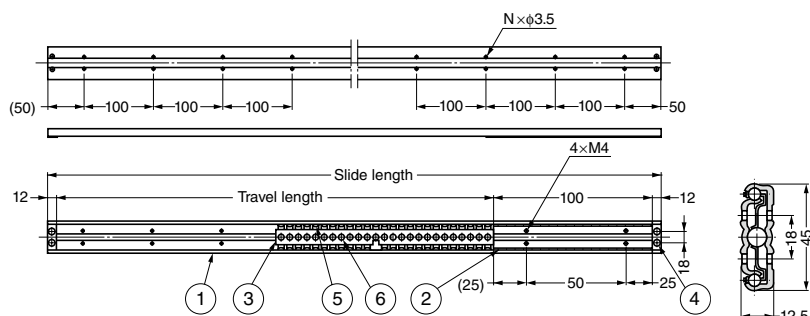
STAINLESS
304
STEEL

TSSL



Features

- Stainless steel slide.
- Inner rail is located inside the retainer for precise movement.
- Non-handed.



No.	Part Name	Material	Finish/Colour
①	Outer Rail	Stainless Steel (SUS304)	Plain
②	Inner Rail	Stainless Steel (SUS304)	Plain
③	Retainer	Stainless Steel (SUS304)	Plain
④	End Stopper	Polyamide (PA)	Black
⑤	Balls	Carbon Steel	-
⑥	Balls	Carbon Steel	-

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	Holes N	Weight	Box
190-110-600	TSSL- 300-100	300	176	6	0.46 kg/pc	12 pcs
190-110-601	TSSL- 400-100	400	276	8	0.57 kg/pc	12 pcs
190-110-602	TSSL- 500-100	500	376	10	0.68 kg/pc	12 pcs
190-110-603	TSSL- 600-100	600	476	12	0.80 kg/pc	12 pcs
190-110-604	TSSL- 800-100	800	676	16	1.05 kg/pc	12 pcs
190-110-605	TSSL-1000-100	1000	876	20	1.30 kg/pc	12 pcs

FULL EXTENSION SLIDE

L=R

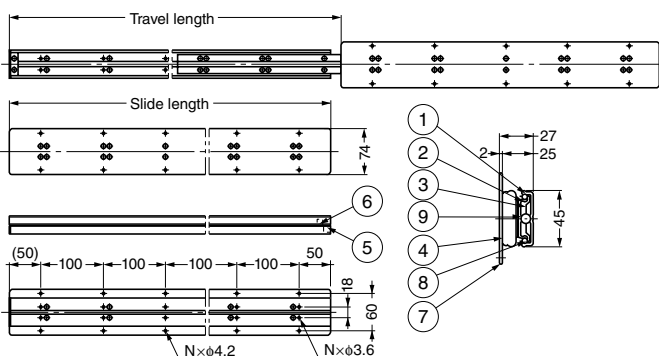
STAINLESS
304
STEEL

TSS3



Features

- Full extension (3 members).
- Non-handed.
- Heavy duty.



No.	Part Name	Material	Colour
①	Outer Rail	Stainless Steel (SUS304)	-
②	Inner Rail	Stainless Steel (SUS304)	-
③	Retainer	Stainless Steel (SUS304)	-
④	End Stopper	Polyamide (PA)	Black
⑤	Outer Guide	Polyacetal (POM)	Black
⑥	Inner Guide	Polyacetal (POM)	Black
⑦	Plate	Stainless Steel (SUS304)	-
⑧	Balls	Carbon Steel	-
⑨	Balls	Carbon Steel	-

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	Holes N	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-400	TSS3- 300	300	336	6	931 N/pair	95 kgf/pair	1.38 kg/pc	4 pcs
190-110-401	TSS3- 400	400	436	8	882 N/pair	90 kgf/pair	1.86 kg/pc	4 pcs
190-110-402	TSS3- 500	500	536	10	833 N/pair	85 kgf/pair	2.39 kg/pc	4 pcs
190-110-403	TSS3- 600	600	636	12	784 N/pair	80 kgf/pair	2.88 kg/pc	4 pcs
190-110-404	TSS3- 800	800	836	16	637 N/pair	65 kgf/pair	3.79 kg/pc	4 pcs
190-110-405	TSS3-1000	1000	1036	20	490 N/pair	50 kgf/pair	4.71 kg/pc	4 pcs

ALUMINIUM MINI GUIDE

L=R

ARL2-16

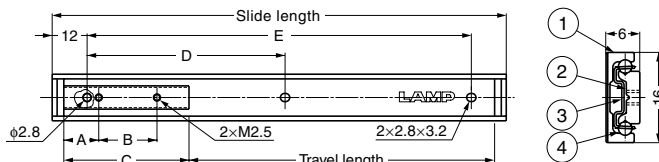


Features

- Thin profile for various applications.
- Light-weight aluminium body.

Recommended Screws

- For outer rail: M2.5 low head screw
- For inner rail: M2.5 screw



No.	Part Name	Material	Finish
①	Outer Rail	Aluminium Alloy	Anodized Silver
②	Inner Rail	Aluminium Alloy	Anodized Silver
③	Retainer	Steel	Zinc Chromate Steel
④	Balls	Steel	-

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	C	D	E	Load Capacity N	Load Capacity kgf	Load Capacity N	Load Capacity kgf	Weight	Box
190-012-584	ARL2-16-70	70	(30)	5	18	28	-	46	20 N	2 kgf	8 N	0.8 kgf	13.37 g	20 pcs
190-012-585	ARL2-16-100	100	(52)	10	19	39	38	76	49 N	5 kgf	18 N	1.8 kgf	17.98 g	20 pcs
190-012-586	ARL2-16-150	150	(96)	10	19	39	63	126	49 N	5 kgf	18 N	1.8 kgf	23.28 g	20 pcs

ALUMINIUM MINI SLIDE (2-WAY)



L=R

ARW2-16

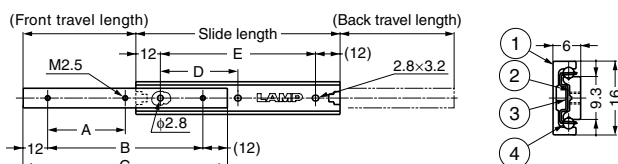


Features

- 3/4 extension (2 members).
- The drawer can be moved to the both directions.
- Thin profile for various applications.
- Light-weight aluminium body.
- Designed without positive stop for easy assembly. Please add a secondary stop if necessary.

Recommended Screws

- For outer rail: M2.5 low head screw
- For inner rail: M2.5 screw



No.	Part Name	Material	Finish
①	Outer Rail	Aluminium Alloy	Anodized Silver
②	Inner Rail	Aluminium Alloy	Anodized Silver
③	Retainer	Steel	Zinc Chromate Steel
④	Balls	Steel	-

Sold by piece.

Item Code	Item Name	Slide Length	Front Travel Length	Back Travel Length	A	B	C	D	E	Load Capacity N	Load Capacity kg	Load Capacity N	Load Capacity kg	Weight	Box
190-012-578	ARW2-16-70	70	32	32	-	46	70	-	46	29 N	3 kg	11 N	1.1 kg	15.34 g	20 pcs
190-012-579	ARW2-16-100	100	40	40	38	76	100	38	76	49 N	5 kg	20 N	2 kg	21.2 g	20 pcs
190-012-580	ARW2-16-150	150	79	79	63	126	150	63	126	69 N	7 kg	30 N	3.1 kg	29.1 g	20 pcs

ALUMINIUM MINI SLIDE (FULL EXTENSION)

L=R

AR3-16

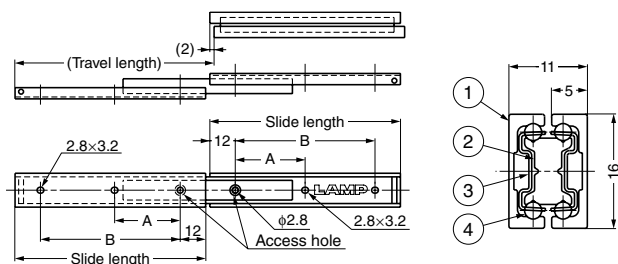


Features

- Full extension (3 members).
- Thin profile for various applications.
- Light-weight aluminium body.

Recommended Screws

For outer rail: M2.5 low head screw



No.	Part Name	Material	Finish
①	Outer Rail	Aluminium Alloy	Anodized Silver
②	Inner Rail	Aluminium Alloy	Anodized Silver
③	Retainer	Steel	Zinc Chromate Steel
④	Balls	Steel	-

Sold by piece.

Item Code	Item Name	Slide Length	Travel Length	A	B	Load Capacity N	Load Capacity kgf	Weight	Box
190-012-581	AR3-16-80	80	77	-	56	20 N/pair	2 kgf/pair	31.44 g	10 pcs
190-012-582	AR3-16-100	100	117	38	76	29 N/pair	3 kgf/pair	35.6 g	10 pcs
190-012-583	AR3-16-150	150	151	63	126	39 N/pair	4 kgf/pair	54.3 g	10 pcs

STAINLESS STEEL DRAWER RUNNER



RKA5 (SUS430)

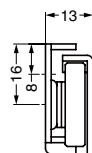
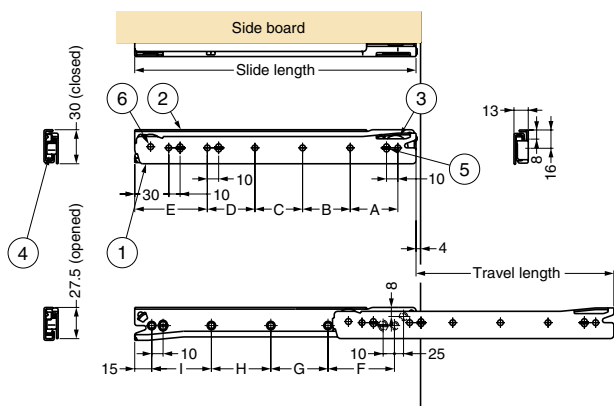
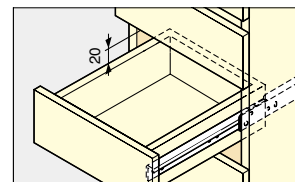


Features

- 3/4 extension (2 members).
- Urethane roller provides smooth and silent movement.
- The drawer is detachable.
- Self-closing.

Recommended Screws

M3 or M3.5 screw



No.	Part Name	Material	Finish/Colour
①	Inner Rail	Stainless Steel (SUS430)	-
②	Outer Rail	Stainless Steel (SUS430)	-
③	Roller	Polyurethane (PUR)/ Polyacetal (POM)	Black/ White
④	Rail Guide	Polyacetal (POM)	White
⑤	Roller Washer	Stainless Steel (SUS430)	-
⑥	Shaft	Stainless Steel (SUS430)	-

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	Inner Rail						Outer Rail					Load Capacity N	Load Capacity kgf	Weight	Box
				A	B	C	D	E	Holes	F	G	H	I	Holes				
190-110-170	RKA5-300 (SUS430)	296	205	165	-	-	-	115	6	112.5	112.5	-	-	6	147 N/pair	15 kgf/pair	0.48 kg/pair	20 pairs
190-110-171	RKA5-350 (SUS430)	346	250	105	105	-	-	120	7	91.5	92	91.5	-	7	147 N/pair	15 kgf/pair	0.57 kg/pair	20 pairs
190-110-172	RKA5-400 (SUS430)	396	295	127.5	127.5	-	-	125	7	108.5	108	108.5	-	7	147 N/pair	15 kgf/pair	0.65 kg/pair	20 pairs
190-110-173	RKA5-450 (SUS430)	446	340	100	100	100	-	130	8	125	125	125	-	7	147 N/pair	15 kgf/pair	0.7 kg/pair	10 pairs
190-110-174	RKA5-500 (SUS430)	496	380	113	114	113	-	140	8	106	106.5	106.5	106	8	147 N/pair	15 kgf/pair	0.82 kg/pair	10 pairs
190-110-175	RKA5-550 (SUS430)	546	420	126.5	127	126.5	-	150	8	119	118.5	118.5	119	8	147 N/pair	15 kgf/pair	0.9 kg/pair	10 pairs
190-110-176	RKA5-600 (SUS430)	596	460	105	105	105	105	160	9	131.5	131	131	131.5	8	147 N/pair	15 kgf/pair	0.98 kg/pair	10 pairs

DRAWER RUNNER



RKA5



Same dimensions as RKA5 (SUS430).

Features

- 3/4 extension (2 members).
- Urethane roller provides smooth and silent movement.
- The drawer is detachable.
- Self-closing.

Recommended Screws

M3 or M3.5 screw

No.	Part Name	Material	Finish/Colour
①	Inner Rail	Steel	Powder Coating/White
②	Outer Rail	Steel	Powder Coating/White
③	Roller	Polyurethane (PUR)/Polyacetal (POM)	Black/White
④	Rail Guide	Polyacetal (POM)	White
⑤	Roller Washer	Steel	Clear Zinc Chromate
⑥	Shaft	Steel	Nickel

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	Inner Rail						Outer Rail					Load Capacity N	Load Capacity kgf	Weight	Box
				A	B	C	D	E	Holes	F	G	H	I	Holes				
190-110-110	RKA5-300	296	205	165	-	-	-	115	6	112.5	112.5	-	-	6	147 N/pair	15 kgf/pair	480 g/pair	20 pairs
190-110-111	RKA5-350	346	250	105	105	-	-	120	7	91.5	92	91.5	-	7	147 N/pair	15 kgf/pair	570 g/pair	20 pairs
190-110-112	RKA5-400	396	295	127.5	127.5	-	-	125	7	108.5	108	108.5	-	7	147 N/pair	15 kgf/pair	650 g/pair	20 pairs
190-110-113	RKA5-450	446	340	100	100	100	-	130	8	125	125	125	-	7	147 N/pair	15 kgf/pair	700 g/pair	10 pairs
190-110-114	RKA5-500	496	380	113	114	113	-	140	8	106	106.5	106.5	106	8	147 N/pair	15 kgf/pair	820 g/pair	10 pairs
190-110-115	RKA5-550	546	420	126.5	127	126.5	-	150	8	119	118.5	118.5	119	8	147 N/pair	15 kgf/pair	900 g/pair	10 pairs
190-110-116	RKA5-600	596	460	105	105	105	105	160	9	131.5	131	131	131.5	8	147 N/pair	15 kgf/pair	980 g/pair	10 pairs

DRAWER RUNNER (UNDER MOUNT)



RKA6

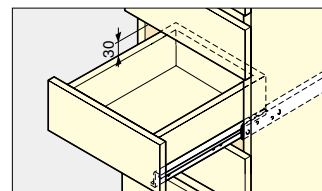
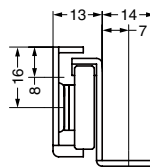
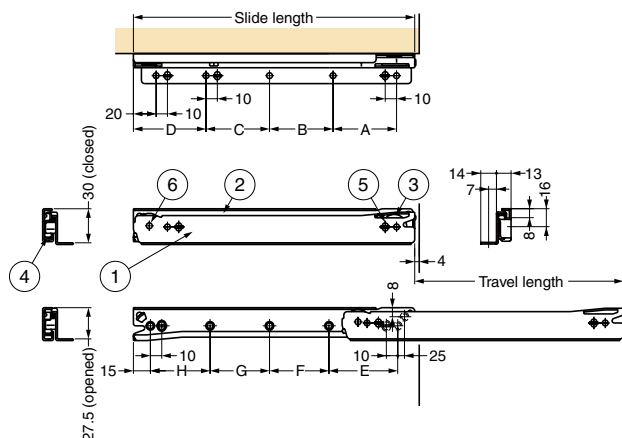


Features

- 3/4 extension (2 members).
- Urethane roller provides smooth and silent movement.
- The drawer is detachable.
- Self-closing.

Recommended Screws

M3 or M3.5 screw



No.	Part Name	Material	Finish/Colour
①	Inner Rail	Steel	Powder Coating/White
②	Outer Rail	Steel	Powder Coating/White
③	Roller	Polyurethane (PUR)/Polyacetal (POM)	Black/White
④	Rail Guide	Polyacetal (POM)	White
⑤	Roller Washer	Steel	Clear Zinc Chromate
⑥	Shaft	Steel	Nickel

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	Inner Rail					Outer Rail					Load Capacity N	Load Capacity kgf	Weight	Box
				A	B	C	D	Holes	E	F	G	H	Holes				
190-110-120	RKA6-300	296	205	165	–	–	115	6	112.5	112.5	–	–	6	147 N/pair	15 kgf/pair	580 g/pair	20 pairs
190-110-121	RKA6-350	346	250	210	–	–	120	6	91.5	92	91.5	–	7	147 N/pair	15 kgf/pair	680 g/pair	20 pairs
190-110-122	RKA6-400	396	295	127.5	127.5	–	125	7	108.5	108	108.5	–	7	147 N/pair	15 kgf/pair	780 g/pair	20 pairs
190-110-123	RKA6-450	446	340	150	150	–	130	7	125	125	125	–	7	147 N/pair	15 kgf/pair	865 g/pair	10 pairs
190-110-124	RKA6-500	496	380	170	170	–	140	7	106	106.5	106.5	106	8	147 N/pair	15 kgf/pair	985 g/pair	10 pairs
190-110-125	RKA6-550	546	420	190	190	–	150	7	119	118.5	118.5	119	8	147 N/pair	15 kgf/pair	1085 g/pair	10 pairs
190-110-126	RKA6-600	596	460	140	140	140	160	8	131.5	131	131	131.5	8	147 N/pair	15 kgf/pair	1185 g/pair	10 pairs

DRAWER RUNNER (UNDER MOUNT)



RJA6

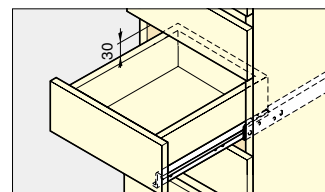
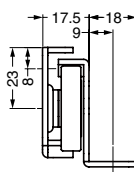
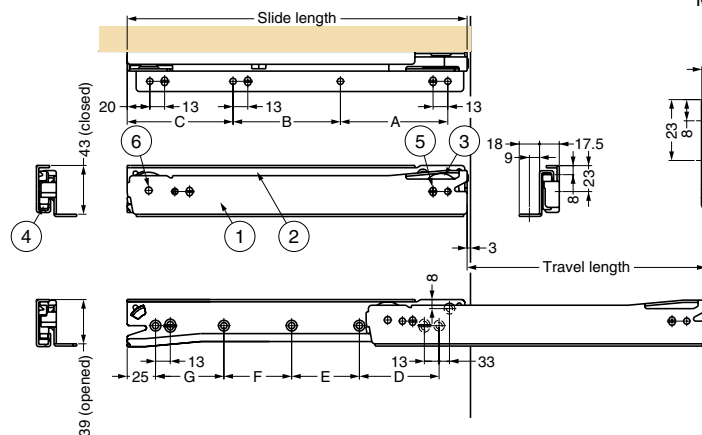


Features

- 3/4 extension (2 members).
- Urethane roller provides smooth and silent movement.
- The drawer is detachable.
- Self-closing.

Recommended Screws

M4



No.	Part Name	Material	Finish/Colour
①	Inner Rail	Steel	Powder Coating/White
②	Outer Rail	Steel	Powder Coating/White
③	Roller	Polyurethane (PUR)/Polyacetal (POM)	Black/White
④	Rail Guide	Polyacetal (POM)	White
⑤	Roller Washer	Stainless Steel (SUS430)	-
⑥	Shaft	Stainless Steel (SUS430)	-

Sold in pairs (2 pcs).

Item Code	Item Name	Slide Length	Travel Length	Inner Rail				Outer Rail					Load Capacity N	Load Capacity kgf	Weight	Box
				A	B	C	Holes	D	E	F	G	Holes				
190-110-151	RJA6-350	347	230	190	—	140	6	125	125	—	—	6	294 N/pair	30 kgf/pair	1.2 kg/pair	10 pairs
190-110-152	RJA6-400	397	275	117.5	117.5	145	7	100	100	100	—	7	294 N/pair	30 kgf/pair	1.44 kg/pair	10 pairs
190-110-153	RJA6-450	447	315	137.5	137.5	155	7	117	116	117	—	7	294 N/pair	30 kgf/pair	1.625 kg/pair	5 pairs
190-110-154	RJA6-500	497	355	157.5	157.5	165	7	100	100	100	100	8	294 N/pair	30 kgf/pair	1.81 kg/pair	5 pairs
190-110-155	RJA6-550	547	395	177.5	177.5	175	7	113	112	112	113	8	294 N/pair	30 kgf/pair	1.995 kg/pair	5 pairs

PLASTIC SLIDE

TEST
METHOD 13

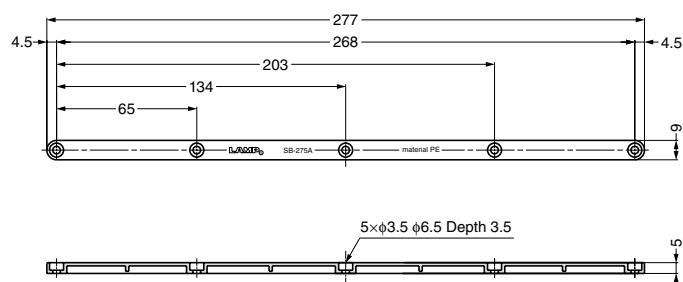
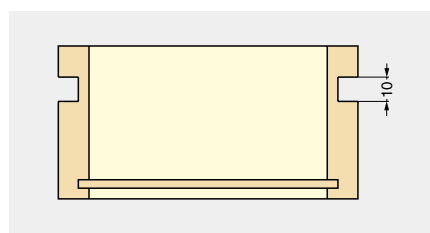
L=R

SB-275A



Features

- Plastic slide with smooth movement.
- Easy to install. Great solution for mass production furniture and storage items.
- Used in pairs.



Sold by piece.

Item Code	Item Name	Material	Colour	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-500	SB-275A	Polyethylene (PE)	White	49 N/pair	5 kgf/pair	6 g	1,000 pcs

PLASTIC SLIDE

TEST
METHOD 13

L=R

SB-257-R2

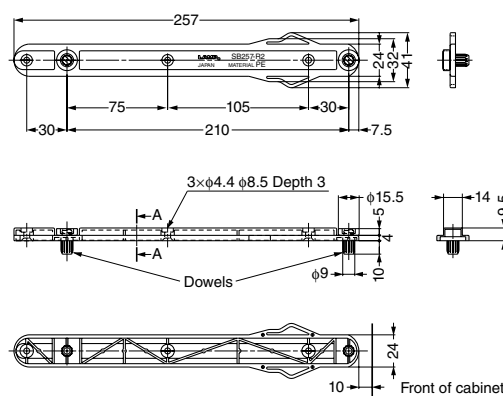


Features

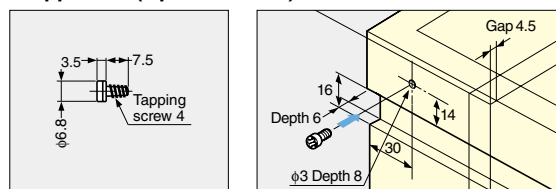
- Plastic slide with smooth movement.
- Easy to install. To fix in place tightly, please use screws.
- Used in pairs.

Optional Parts

Stopper pin SBSP



Stopper Pin (Optional Parts)



Slide

Sold by piece.

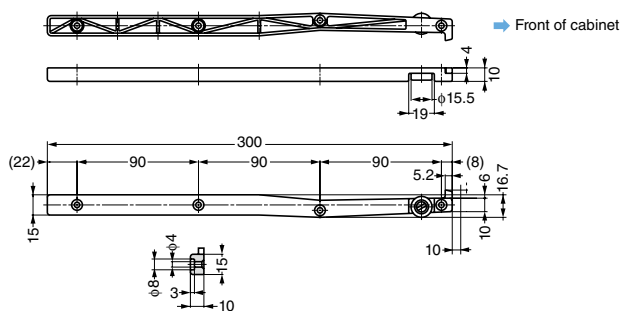
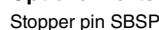
Item Code	Item Name	Material	Colour	Load Capacity N	Load Capacity kgf	Weight	Box
190-111-300	SB-257-R2	Polyethylene (PE)	White	49 N/pair	5 kgf/pair	20 g	400 pcs

Stopper Pin (Optional Parts)

Item Code	Item Name	Material	Finish	Box	Carton
190-110-013	SBSP	Steel	Yellow Zinc Chromate	1,600 pcs	8,000 pcs

**TEST
METHOD 13**

DRAWER SLIDES



Technical drawing showing a tapping screw (4) with dimensions: 3.5, 7.5, and $\phi 6.3$. The screw is shown being driven into a joint.

Sold by piece.

Item Code	Item Name	Type	Material	Colour	Load Capacity N	Load Capacity kgf	Weight	Box
190-110-502	SB-300RR	Right	Polyethylene (PE)	White	49 N/pair	5 kgf/pair	20 g	600 pcs
190-110-503	SB-300RL	Left	Polyethylene (PE)	White	49 N/pair	5 kgf/pair	20 g	600 pcs

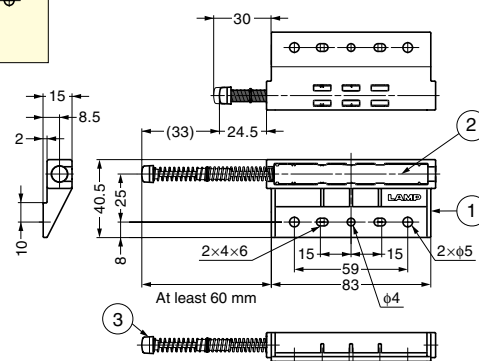
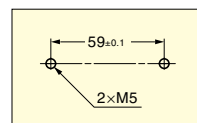
Item Code	Item Name	Material	Finish	Box	Carton
190-110-013	SBSP	Steel	Yellow Zinc Chromate	1,600 pcs	8,000 pcs

GDSR144-R



Remarks

Cut Out Dimensions



No.	Part Name	Material	Colour
①	Bracket	ABS	Light Grey
②	Body	Polycetal (POM)	Grey
③	Bumper	Polyurethane (PUR)	Red

Item Code	Item Name	Reaction Force N	Reaction Force kgf	Weight	Box
190-118-835	GDSR144-R	20 N	2 kgf	24 g	240 pcs

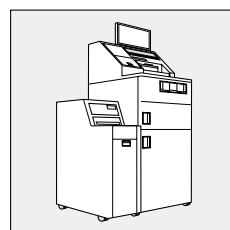
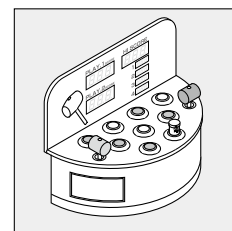
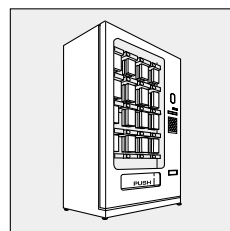
MINI GUIDE BLOCK & RAIL

MRS, MR



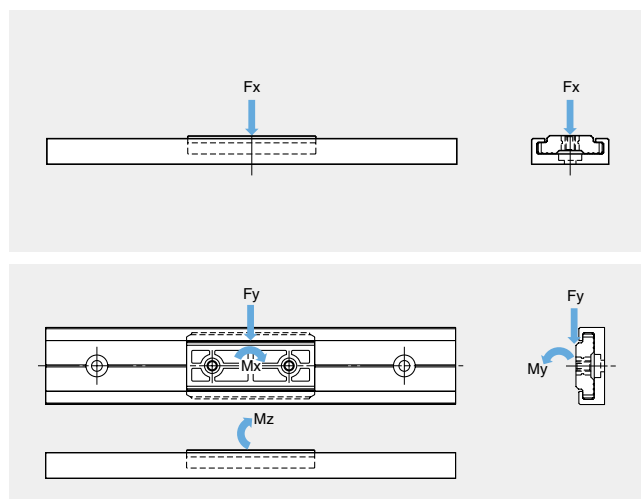
Features

- Ideal for small stroke application.
- No grease needed.



Load Rating Information

Reduction factor



*Certain reduction needs to be applied to the load rating depending on application or environment.

Conditions	Static Friction Coefficient	Dynamic Friction Coefficient
Low speed/low operation frequency	0.4 - 0.5	0.9 - 1.0
Moderate speed/high operation frequency	0.3 - 0.4	0.6 - 0.8
High operation frequency with vibration and shocks	0.2 - 0.3	0.3 - 0.5

Item Code	Item Name	Horizontal Static Load Fx N	Horizontal Static Load Fx kgf	Vertical Static Load Fy N	Vertical Static Load Fy kgf
190-027-335	MR-15CS	100 N	10.2 kgf	30 N	3.06 kgf
190-111-496	MR-20CS	300 N	30.6 kgf	175 N	17.8 kgf
190-111-489	MR-30CS	520 N	53.0 kgf	305 N	31.1 kgf
	Item Name	Vertical Dynamic Load Mx N-m	Vertical Dynamic Load Mx kgf-cm	Horizontal Dynamic Load My N-m	Horizontal Dynamic Load My kgf-cm
	MR-15CS	-	-	-	-
	MR-20CS	3 N-m	30.6 kgf-cm	1.5 N-m	15.3 kgf-cm
	MR-30CS	5 N-m	51.0 kgf-cm	2.5 N-m	25.5 kgf-cm
	Item Name	Horizontal Dynamic Load Mz N-m	Horizontal Dynamic Load Mz kgf-cm	* Item name has been revised. (New:MR-30CS,Old:MR-50CN)	
	MR-15CS	-	-		
	MR-20CS	1.5 N-m	15.3 kgf-cm		
	MR-30CS	2.5 N-m	25.5 kgf-cm		

MINI GUIDE RAIL

MRS

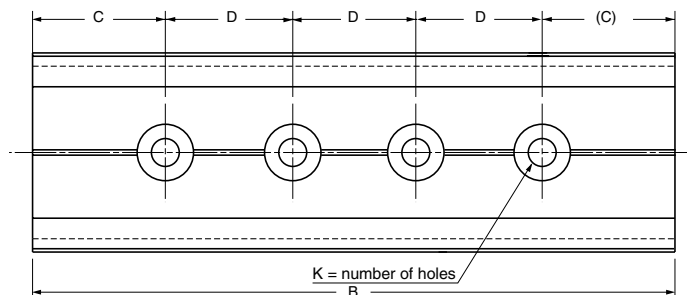
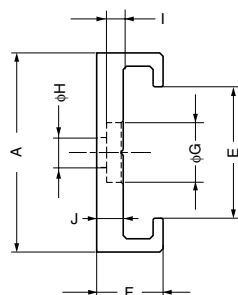


Features

- Does not need grease.
- Very compact.
- Easy to use solution for projects with lower precision requirements.
- Made from anodized aluminium for high corrosion resistance.

Recommended Screws

- Hexagon socket button head screw M3, Pan head screw M3 (MRS15)
- M4 hexagon socket button head screw (MRS20, MRS30)

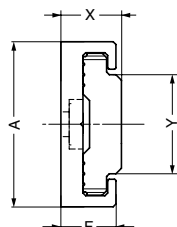


DRAWER SLIDES

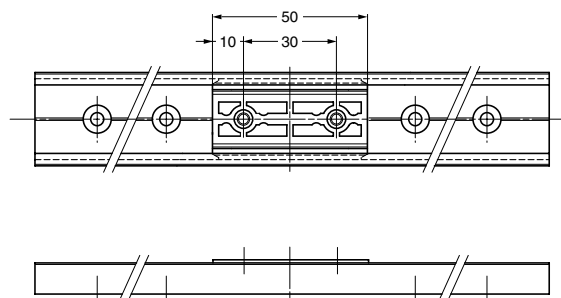
MINI GUIDE RAIL

How to Combine Guide Blocks and Rails

(sold separately)



Combination example: MRS30 & MR-30CS

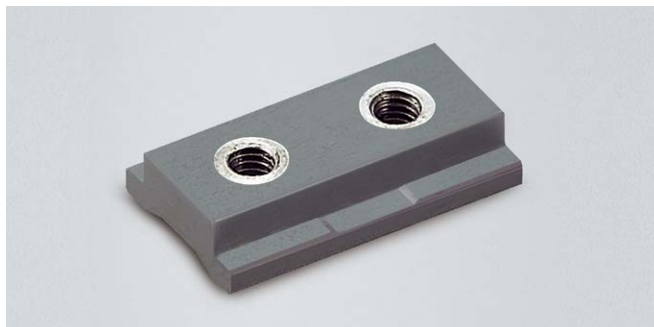


Mini Guide Rail			Mini Guide Block		
Item Name	A	F	Item Name	X	Y
MRS15	15	6	MR-15CS	7	7.8
MRS20	20	7.2	MR-20CS	8.2	11.2
MRS30	30	10	MR-30CS	11	18

Item Code	Item Name	A	B	C	D	E	F	G	H	I	J	K	Material	Finish	Guide Block	Weight	Box
190-027-331	MRS15- 100	15	100	25	50	8.7	6	6.5	3.5	1.8	2.8	2	Aluminium Alloy	Anodized Silver	MR-15CS	14.5 g	200 pcs
190-027-332	MRS15- 200	15	200	25	50	8.7	6	6.5	3.5	1.8	2.8	4	Aluminium Alloy	Anodized Silver	MR-15CS	29 g	200 pcs
190-027-333	MRS15- 400	15	400	25	50	8.7	6	6.5	3.5	1.8	2.8	8	Aluminium Alloy	Anodized Silver	MR-15CS	58 g	100 pcs
190-027-334	MRS15- 800	15	800	25	50	8.7	6	6.5	3.5	1.8	2.8	16	Aluminium Alloy	Anodized Silver	MR-15CS	117 g	80 pcs
190-111-491	MRS20- 100	20	100	25	50	12.4	7.2	7.6	4.5	1.8	3	2	Aluminium Alloy	Anodized Silver	MR-20CS	20 g	200 pcs
190-111-492	MRS20- 200	20	200	25	50	12.4	7.2	7.6	4.5	1.8	3	4	Aluminium Alloy	Anodized Silver	MR-20CS	40 g	200 pcs
190-111-493	MRS20- 400	20	400	25	50	12.4	7.2	7.6	4.5	1.8	3	8	Aluminium Alloy	Anodized Silver	MR-20CS	80 g	100 pcs
190-111-494	MRS20- 800	20	800	25	50	12.4	7.2	7.6	4.5	1.8	3	16	Aluminium Alloy	Anodized Silver	MR-20CS	160 g	80 pcs
190-111-495	MRS20-2000	20	2000	25	50	12.4	7.2	7.6	4.5	1.8	3	40	Aluminium Alloy	Anodized Silver	MR-20CS	400 g	30 pcs
190-112-860	MRS30- 100	30	100	10	40	19.8	10	8.5	4.5	2.5	4	3	Aluminium Alloy	Anodized Silver	MR-30CS	39 g	200 pcs
190-112-861	MRS30- 200	30	200	20	40	19.8	10	8.5	4.5	2.5	4	5	Aluminium Alloy	Anodized Silver	MR-30CS	79 g	100 pcs
190-112-862	MRS30- 400	30	400	20	40	19.8	10	8.5	4.5	2.5	4	10	Aluminium Alloy	Anodized Silver	MR-30CS	159 g	50 pcs
190-112-863	MRS30- 800	30	800	20	40	19.8	10	8.5	4.5	2.5	4	20	Aluminium Alloy	Anodized Silver	MR-30CS	312 g	40 pcs
190-112-864	MRS30-2000	30	2000	20	40	19.8	10	8.5	4.5	2.5	4	50	Aluminium Alloy	Anodized Silver	MR-30CS	790 g	15 pcs

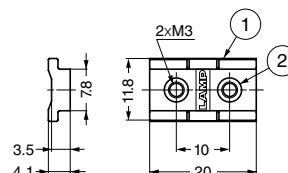
MINI GUIDE BLOCK

MR-15CS



Features

- Does not need grease.
- Very compact.
- Easy to use solution for projects with lower precision requirements.
- MR is made from a special polyethylene resin with extremely smooth properties, eliminating need for grease or oil.
- Flame resistant (UL94HB rating).
- Use with MRS15 mini guide rail.
- See P.596 for load rating.



Item Code	Item Name	Guide Rail	Weight	Box
190-027-335	MR-15CS	MRS15	2 g	150 pcs

No.	Material	Finish/Colour
①	Polyethylene (UL94HB)	Grey
②	Stainless Steel (SUS304)	Plain

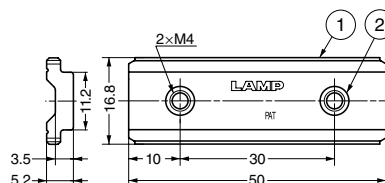
MINI GUIDE BLOCK

MR-20CS



Features

- Does not need grease.
- Very compact.
- Easy to use solution for projects with lower precision requirements.
- MR is made from a special polyethylene resin with extremely smooth properties, eliminating need for grease or oil.
- Flame resistant (UL94HB rating).
- Use with MRS20 mini guide rail.
- See P.596 for load rating.



Item Code	Item Name	Guide Rail	Weight	Box
190-111-496	MR-20CS	MRS20	6 g	50 pcs

No.	Material	Finish/Colour
①	Polyethylene (UL94HB)	Grey
②	Stainless Steel (SUS304)	Plain

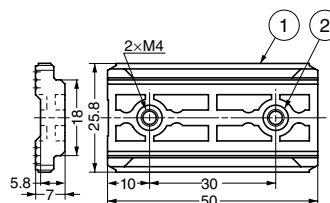
MINI GUIDE BLOCK

MR-30CS



Features

- Does not need grease.
- Very compact.
- Easy to use solution for projects with lower precision requirements.
- MR is made from a special polyethylene resin with extremely smooth properties, eliminating need for grease or oil.
- Flame resistant (UL94HB rating).
- Use with MRS30 mini guide rail.
- See P.596 for load rating.



Item Code	Item Name	Guide Rail	Weight	Box
190-111-489	MR-30CS	MRS30	7 g	50 pcs

No.	Material	Finish/Colour
①	Polyethylene (UL94HB)	Grey
②	Stainless Steel (SUS304)	Plain

*Item name has been revised (Old item name : MR-50CN) .