

Slide Rail 示光K General Catalog

Product Descriptions

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Features and Types

Features of the Slide Rail

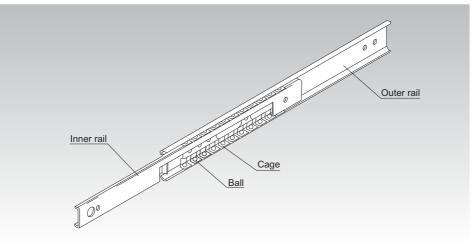


Fig.1 Structure of Slide Rail Model FBL

Structure and Features

Slide Rail model FBL is a thin, compact, lightweight and ultra-low price slide unit for finite motion. It has two rows of balls placed between an inner rail (made of a steel sheet roll-formed with precision) and an outer rail. The balls are evenly spaced by a cage press-molded with precision, thus eliminating friction between balls and achieving a smooth slide mechanism.

Since model FBL achieves smooth straight motion with easy installation, it can be used in a wide range of applications such as photocopiers, measuring instruments, telecommunication equipment, medical equipment, automatic vending machines and various types of office equipment.

[Unit Type That Allows Easy Installation]

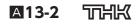
Since the clearance and the motion of the slide unit are optimally adjusted, simply mounting the unit onto the base or the table using screws will achieve a slide mechanism with virtually no running noise.

[Thin and Compact]

Since the sectional shape is thin designed, this slide pack only requires a small side space for installation. In addition, a desired number of slide pack units can be installed in parallel according to the load conditions.

[Maintenance-free Operation]

Since the Slide Rail model FBL is treated with zinc plating, and models E and D are treated with white alumite treatment, they are highly corrosion resistant. In addition, the slide unit contains lithium soap-based grease, which is highly stable against oxidation.



Types of the Slide Rail

Types of the Slide Rail

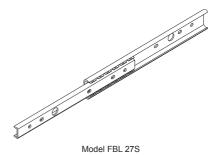
Types and Features

[Single Slides for Light Load]

Model FBL 27S

The most compact slide rail from THK.

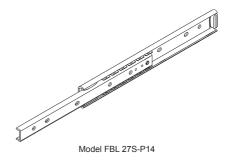
Specification Table⇒▲13-14



Model FBL 27S-P14

An inner rail pulling type of model FBL 27S. Releasing the automatic free disconnection spring attached on the inner rail allows the slide rail to be pulled out. When stored, the spring is automatically released unidirectionally under a certain pressure.

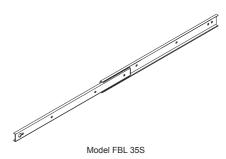




Model FBL 35S

A single slide type of Slide Rail with the most fundamental shape.

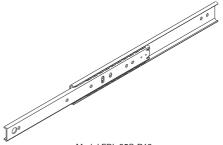
Specification Table⇒▲13-16



Model FBL 35S-P13

An inner rail pulling type of model FBL 35S. Releasing the disconnection spring attached on the inner rail allows the slide rail to be pulled out. When folded, the locked state with the disconnect spring is manually released.

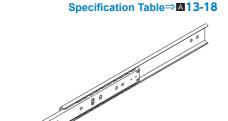




Model FBL 35S-P13

Model FBL 35S-P14

An inner rail pulling type of model FBL 35S. Releasing the automatic free disconnection spring attached on the inner rail allows the slide rail to be pulled out. When stored, the spring is automatically released unidirectionally under a certain pressure.



Model FBL 35S-P14

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Features and Types

Types of the Slide Rail

Model FBL 35M

An inner rail pulling type of model FBL 35S. It stops by frictional resistance when the slide rail is fully opened, and is pulled out when being pulled further with force.

(brake-stop type)

Specification Table⇒▲13-19

Specification Table⇒▲13-20





Model FBL 35J

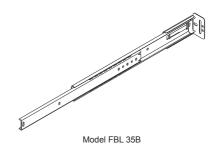
Based on model FBL 35M, this model has a lead ball that serves as a guide when the inner rail is inserted.

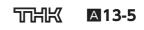
O Model FBL 35J

Model FBL 35B

A brake-stop type of model FBL 35M. It can be mounted on the bottom face of a moving object when used.





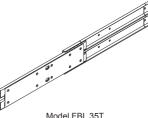


[Single Slides for Medium Load]

Model FBL 35T

A single slide combining two units of model FBL 35S. When folded, the locked state with the disconnect spring is manually released.

Specification Table⇒▲13-22



[Double Slides for Light Load]

Model FBL 27D

A double-slide type that combines two units of model FBL 27S back-to-back. It is widely used in various types of OA equipment.





Model FBL 27D

Model FBL 35E

This is a 2-level slide-unit type suitable for restricted spaces, featuring a stroke length that can exceed the total rail length.

Specification Table⇒▲13-24



Model FBL 35E-P14

A three-rail, double-slide type that allows a long stroke in a small space. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When closed, the locked state is automatically released under pressure in the closing direction.

Specification Table⇒▲13-25



Model FBL 35E-P14



[Double Slides for Medium Load]

Model FBL 35G-P13

A double-slide type that combines two units of model FBL 35S front-to-front. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When folded, the locked state with the disconnect spring is manually released. It is also equipped with a pull-lock mechanism that functions when the slide rail is fully opened.

Model FBL 35G-P14

A double-slide type that combines two units of model FBL 35S front-to-front. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When folded, the lock state with the disconnect spring can automatically be released under a certain pressure in the folding direction. It is also equipped with a pull-lock mechanism that functions when the slide rail is fully opened.

Model FBL 35D

Model FBL 35W

unit.

A double-slide type that combines two units of model FBL 35S back-to-back. It is extensively used regardless of the industry.

A double-slide type based on model FBL 35S that achieves a thickness of one single-slide

Specification Table⇒▲13-26



Specification Table⇒▲13-27



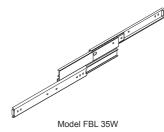
Model FBL 35G-P14

Specification Table⇒▲13-28



Model FBL 35D

Specification Table⇒▲13-29

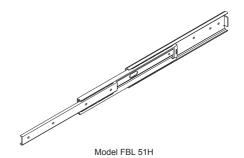




Model FBL 51H

A three-rail, double-slide type that allows a long stroke. With the smallest thickness, this model can be used in a space-saving location even under a large load.

Specification Table⇒▲13-30



Model FBL 51H-P13

A three-rail, double-slide type that allows a long stroke. With the smallest thickness, this model can be used in a space-saving location even under a large load. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When folded, the locked state with the disconnect spring is manually released. It is also equipped with a lock mechanism that functions when the slide rail is fully opened.

Model FBL 51H-P14

A three-rail, double-slide type that allows a long stroke. With the smallest thickness, this model can be used in a space-saving location even under a large load. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When closed, the locked state is automatically released under pressure in the closing direction. Specification Table⇒▲13-31



Model FBL 51H-P13





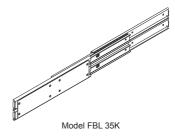
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[Double Slides for Heavy Load]

Model FBL 35K

A double-slide type combining 4 units of model FBL 35S. It achieves the largest permissible load among all types and is optimal for opening/ closing heavy objects.

Specification Table⇒▲13-33

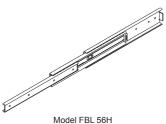


Model FBL 56H

A double-slide type with the largest permissible load among the three rails. It is used extensively in various types of OA furniture.

Specification Table⇒▲13-34

Specification Table⇒▲13-35



Model FBL 56H-P13

A double-slide type with the largest permissible load among the three rails. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When folded, the locked state with the disconnect spring is manually released. It is also equipped with a lock mechanism that functions when the slide rail is fully opened.

Model FBL 56H-P14

A double-slide type with the largest permissible load among the three rails. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When closed, the locked state is automatically released under pressure in the closing direction.



Model FBL 56H-P13

Specification Table⇒▲13-36



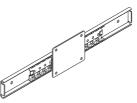


[Linear Type Slides]

Light Load Type Model FBL 35F

Using a flange type that can easily be mounted, this slide-type model is capable of performing straight, finite motion.

Specification Table⇒▲13-37

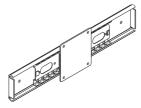


Light Load Type Model FBL 35F

Medium Load Type Model FBL 56F

Using a flange type that can easily be mounted, this slide-type model is capable of performing straight, finite motion. It is optimal for locations under a large working load.

Specification Table⇒▲13-38



Medium Load Type Model FBL 56F

Heavy Load Type Model FBL 48DR

A heavy-load, low-friction slide rail developed for sliding heavy doors.

Specification Table⇒▲13-39



Heavy Load Type Model FBL 48DR

[Wheel-type Linear Slide]

Model E36RS

A linear slide that combines a lightweight outer rail made of precision-extruded aluminum alloy with a highly wear-resistant resin bearing.

Since no grease adheres to the rail surface, it can be used for a drawer without soiling the stored articles. Specification Table⇒▲13-40



Model E36RS



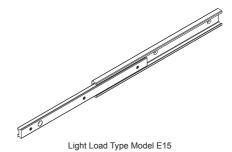
Types of the Slide Rail

[Aluminum Alloy Slide Rail]

Light Load Type Model E15

The lightest and most compact single slide in the aluminum alloy series. It is especially suitable for locations with magnetism, locations requiring antirust measures and locations where much importance is given to appearance.

Specification Table⇒▲13-41



Light Load Type Model E20

A single-slide with the most fundamental shape in the aluminum alloy series. It is especially suitable for locations with magnetism, locations requiring antirust measures and locations where much importance is given to appearance.

Light Load Type Model D20

The lightest and most compact double slides in the aluminum alloy series. It is especially suitable for locations with magnetism, locations requiring antirust measures and locations where much importance is given to appearance.

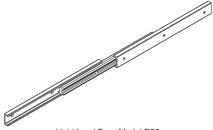
Specification Table⇒▲13-42



Light Load Type Model E20

Specification Table⇒▲13-43

Slide Rail

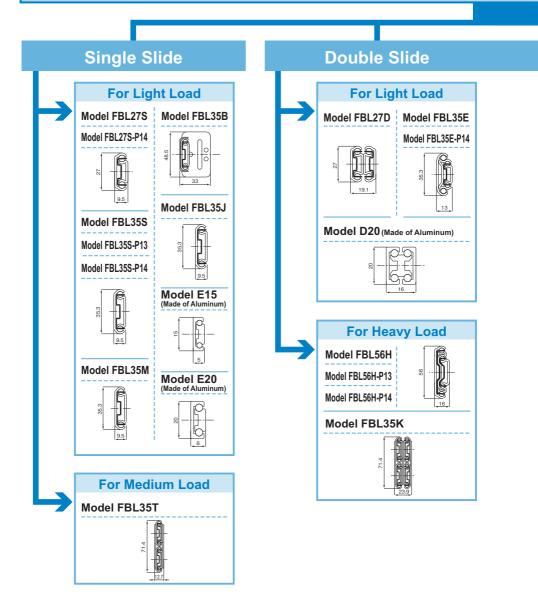


Light Load Type Model D20

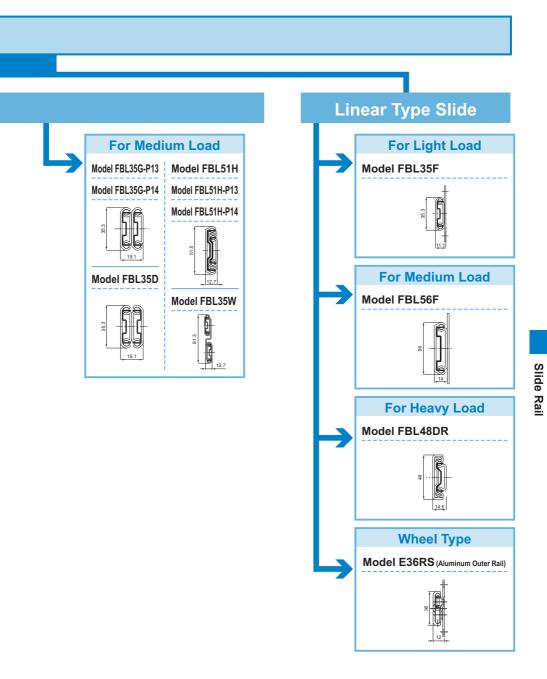


Classification Table for Slide Rails

Slide Rail

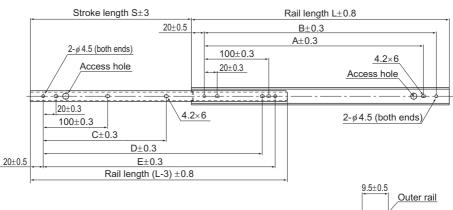


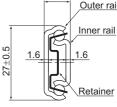
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Model FBL 27S





Cross section

Unit: mm

Rail length	Stroke S		Mounting	g hole dir	nensions	5	Mounti	ng hole	Permissible load	Mass	
(±0.8)	(±3)	А	В	С	D	E	Inner rail	Outer rail	N/pair	kg/pair	
200	135	140.0	160.0	—	140.0	160.0	5	5	260	0.32	
250	185	190.0	210.0	150.0	190.0	210.0	6	5	240	0.40	
300	222	240.0	260.0	190.0	240.0	260.0	6	5	240	0.48	
350	260	290.0	310.0	225.0	290.0	310.0	6	5	230	0.56	
400	297	340.0	360.0	265.0	340.0	360.0	6	5	210	0.64	
450	334	390.0	410.0	300.0	390.0	410.0	6	5	200	0.72	
500	371	440.0	460.0	337.0	440.0	460.0	6	5	180	0.80	

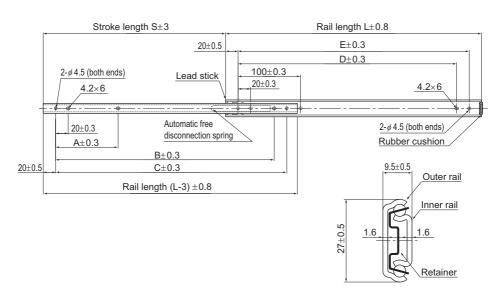
Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding





Model FBL 27S-P14



Cross section

Rail length	Stroke S		Mounting	g hole dir	nensions	;	Mounti	ng hole	Permissible load	Mass	
(±0.8)	(±3)	А	В	С	D	Е	Inner rail	Outer rail	N/pair	kg/pair	
200	116	65.0	—	170.0	140.0	160.0	4	5	260	0.32	
250	152	100.0	—	210.0	190.0	210.0	4	5	240	0.40	
300	202	100.0	—	260.0	240.0	260.0	4	5	240	0.48	
350	251	100.0	—	310.0	290.0	310.0	4	5	230	0.56	
400	297	100.0	—	360.0	340.0	360.0	4	5	210	0.64	
450	332	100.0	390.0	410.0	390.0	410.0	5	5	210	0.72	
500	371	100.0	440.0	460.0	440.0	460.0	5	5	200	0.80	
550	407	100.0	490.0	510.0	490.0	510.0	5	5	180	0.80	

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.



FBL27S-P14 +500L

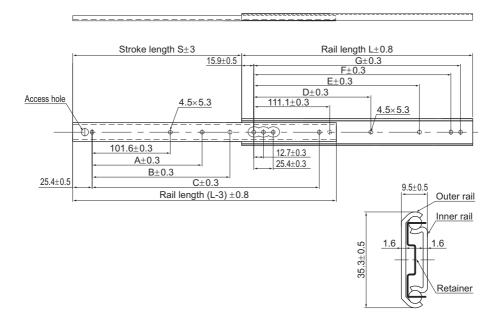
Model number

Overall rail length (mm)

Unit: mm



Model FBL 35S



Unit: mm

Cross section

Rail length	Stroke S		M	ounting	hole di	mensio	ns		Mounti	ng hole	Permissible load	
(±0.8)	(±3)	А	В	С	D	Е	F	G	Inner rail	Outer rail	N/pair	kg/pair
305	229	—	152.4	254.0	—	149.2	260.3	273.0	4	7	490	0.6
356	279	—	203.2	304.8	_	200.0	311.1	323.8	4	7	400	0.7
406	305	_	254.0	355.6	—	250.8	361.9	374.6	4	7	390	0.8
457	330	203.2	304.8	406.4	212.7	301.6	412.7	425.4	5	8	380	0.9
508	381	228.6	355.6	457.2	238.1	352.4	463.5	476.2	5	8	330	1.0
559	406	254.0	406.4	508.0	263.5	403.2	514.3	527.0	5	8	320	1.1
610	432	279.4	457.2	558.8	288.9	454.0	565.1	577.8	5	8	310	1.2
660	483	304.8	508.0	609.6	314.3	504.8	615.9	628.6	5	8	280	1.3
711	508	330.2	558.8	660.4	339.7	555.6	666.7	679.4	5	8	270	1.4

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

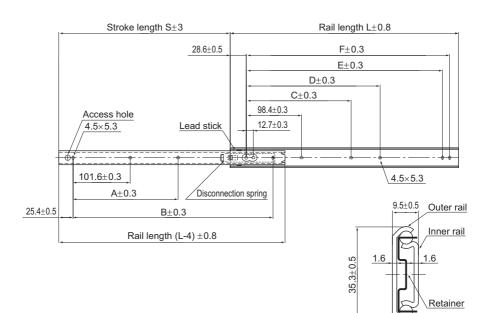
Model number coding







Model FBL 35S-P13



Cross section

Unit: mm

Rail length	Stroke S		Mour	nting hol	e dimen	sions		Mountii	ng hole	Permissible load	Mass
(±0.8)	(±3)	А	В	С	D	Е	F	Inner rail	Outer rail	N/pair	kg/pair
305	224	152.4	—	136.5	—	247.6	260.3	3	6	490	0.6
356	275	203.2	—	187.3	—	298.4	311.1	3	6	400	0.72
406	315	254.0	—	238.1	_	349.2	361.9	3	6	390	0.84
457	330	203.2	406.4	200.0	288.9	400.0	412.7	4	7	380	0.96
508	381	228.6	457.2	225.4	339.7	450.8	463.5	4	7	330	1.04
559	406	254.0	508.0	250.8	390.5	501.6	514.3	4	7	320	1.16
610	432	279.4	558.8	276.2	441.3	552.4	565.1	4	7	310	1.24
660	483	304.8	609.6	301.6	492.1	603.2	615.9	4	7	280	1.36
711	493	330.2	660.4	327.0	542.9	654.0	666.7	4	7	270	1.48

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

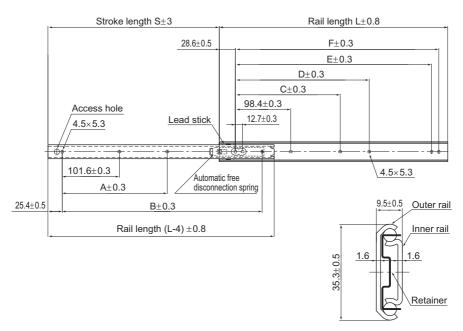
Model number coding



Model number



Model FBL 35S-P14



Cross section

Unit: mm

Rail length	Stroke S		Mour	nting hol	e dimen	sions		Mounti	ng hole	Permissible load	
(±0.8)	(±3)	A	В	С	D	Е	F	Inner rail	Outer rail	N/pair	kg/pair
305	224	152.4	—	136.5	—	247.6	260.3	3	6	490	0.6
356	275	203.2	—	187.3	—	298.4	311.1	3	6	400	0.72
406	315	254.0	_	238.1	—	349.2	361.9	3	6	390	0.84
457	330	203.2	406.4	200.0	288.9	400.0	412.7	4	7	380	0.96
508	381	228.6	457.2	225.4	339.7	450.8	463.5	4	7	330	1.04
559	406	254.0	508.0	250.8	390.5	501.6	514.3	4	7	320	1.16
610	432	279.4	558.8	276.2	441.3	552.4	565.1	4	7	310	1.24
660	483	304.8	609.6	301.6	492.1	603.2	615.9	4	7	280	1.36
711	493	330.2	660.4	327.0	542.9	654.0	666.7	4	7	270	1.48

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

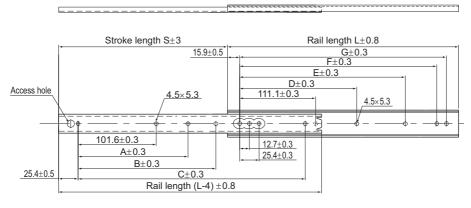
Model number coding

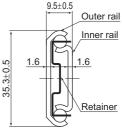
FBL35S-P14 +559L

Model number



Model FBL 35M





Cross section

Unit: mm

Rail length	Stroke S		M	ounting	hole di	mensio	ns		Mounti	ng hole	Permissible load	
(±0.8)	(±3)	А	В	С	D	Е	F	G	Inner rail	Outer rail	N/pair	kg/pair
305	229	_	152.4	254.0	_	149.2	260.3	273.0	4	7	490	0.6
356	279	_	203.2	304.8	_	200.0	311.1	323.8	4	7	400	0.7
406	305	—	254.0	355.6	_	250.8	361.9	374.6	4	7	390	0.8
457	330	203.2	304.8	406.4	212.7	301.6	412.7	425.4	5	8	380	0.9
508	381	228.6	355.6	457.2	238.1	352.4	463.5	476.2	5	8	330	1.0
559	406	254.0	406.4	508.0	263.5	403.2	514.3	527.0	5	8	320	1.1
610	432	279.4	457.2	558.8	288.9	454.0	565.1	577.8	5	8	310	1.2
660	483	304.8	508.0	609.6	314.3	504.8	615.9	628.6	5	8	280	1.3
711	508	330.2	558.8	660.4	339.7	555.6	666.7	679.4	5	8	270	1.4

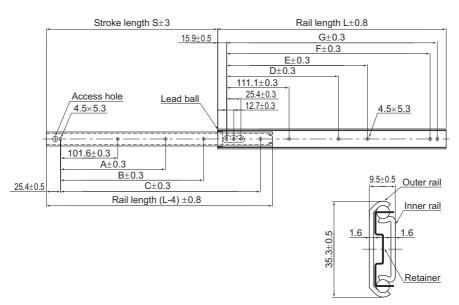
Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding





Model FBL 35J



Cross section

Unit: mm

Rail length	Stroke S		M	ounting	hole di	mensio	ns		Mounti	ng hole	Permissible load	
(±0.8)	(±3)	А	В	С	D	Е	F	G	Inner rail	Outer rail	N/pair	kg/pair
305	229	—	152.4	254.0	—	149.2	260.3	273.0	4	7	490	0.6
356	279	—	203.2	304.8	_	200.0	311.1	323.8	4	7	400	0.7
406	305	—	254.0	355.6	_	250.8	361.9	374.6	4	7	390	0.8
457	330	203.2	304.8	406.4	212.7	301.6	412.7	425.4	5	8	380	0.9
508	381	228.6	355.6	457.2	238.1	352.4	463.5	476.2	5	8	330	1.0
559	406	254.0	406.4	508.0	263.5	403.2	514.3	527.0	5	8	320	1.1
610	432	279.4	457.2	558.8	288.9	454.0	565.1	577.8	5	8	310	1.2
660	483	304.8	508.0	609.6	314.3	504.8	615.9	628.6	5	8	280	1.3
711	508	330.2	558.8	660.4	339.7	555.6	666.7	679.4	5	8	270	1.4

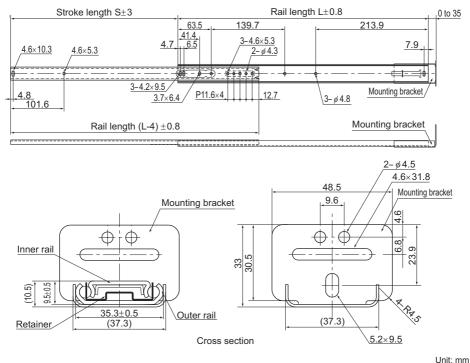
Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding

FBL35J +660L



Model FBL 35B



mm	S
	lide
	Rai

Rail length	Stroke S	Mounti	ng hole	Permissible load	Mass	
(±0.8)	(±3)	Inner rail Outer rail		N/pair	kg/pair	
324	216	7	7	115	0.8	
375	267	7	7	105	0.92	
425	305	7	7	100	1	
476	318	7	7	90	1.12	
527	368	7	7	83	1.24	
578	419	7	7	73	1.32	
629	445	7	7	66	1.44	
679	495	7	7	61	1.6	

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

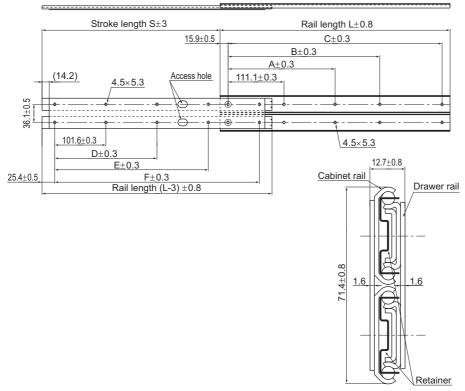
Model number coding

FBL35B +375L

Model number Overall rail length (mm)

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Model FBL 35T



Cross section

Unit: mm

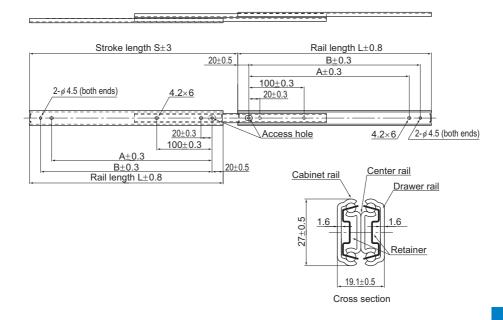
Rail length	Stroke		Mour	nting hol	e dimen	sions		Mounti	ng hole	Permissible load	Mass
L (±0.8)	S (±3)	A	В	С	D	E	F	Inner rail	Outer rail		kg/pair
305	227	—	149.2	273.0	—	152.8	254.4	4	4	1120	2.16
356	278	_	200.0	323.8	—	203.6	305.2	4	4	1070	2.56
406	303	—	250.8	374.6	—	254.4	356.0	4	4	1020	2.96
457	354	212.7	301.6	425.4	203.2	305.2	406.8	5	5	1000	3.3
508	367	238.1	352.4	476.2	228.6	356.0	457.6	5	5	971	3.64
559	430	263.5	403.2	527.0	254.0	406.8	508.4	5	5	922	4.04
610	456	288.9	454.0	577.8	279.4	457.6	559.2	5	5	873	4.32
660	468	314.3	504.8	628.6	304.8	508.4	610.0	5	5	843	4.72
711	506	339.7	555.6	679.4	330.2	559.2	660.8	5	5	784	5.1

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding

FBL35T +559L

Model FBL 27D



Rail length	Stroke	Mounting hol	e dimensions	Mounti	ng hole	Permissible load		
(±0.8)	(±3)	A	В	Drawer rail	Cabinet rail	N/pair	kg/pair	
200	229	140.0	160.0	5	5	370	0.64	
250	276	190.0	210.0	5	5	360	0.8	
300	327	240.0	260.0	5	5	350	0.96	
350	376	290.0	310.0	5	5	330	1.12	
400	426	340.0	360.0	5	5	310	1.28	
450	475	390.0	410.0	5	5	290	1.46	
500	524	440.0	460.0	5	5	280	1.6	

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding

FBL27D +200L

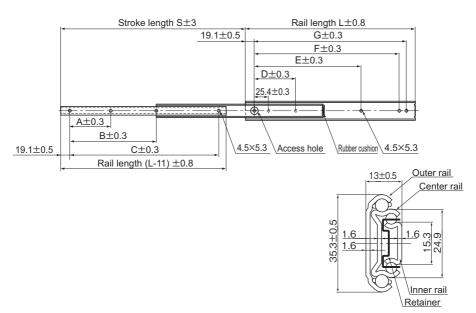
Model number Overall rail length (mm)

Unit: mm



Model FBL 35E

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Cross section

Unit: mm

Rail length	Stroke		Ν	Nounting	hole dir	mension	s		Permissible load	Mass
(±0.8)	(±3)	A	В	С	D	E	F	G	N/pair	kg/pair
305	330	76.2	—	154.9	76.2	190.5	241.3	266.7	290	0.6
356	381	127	—	266.7	88.9	215.9	292.1	317.5	280	0.7
406	432	152.4	—	317.5	127	241.3	342.9	368.3	270	0.9
457	483	177.8	—	368.3	127	292.1	393.7	419.1	250	1.1
508	533	152.4	342.9	419.1	152.4	317.5	444.5	469.9	240	1.3

Note1) To mount model FBL35E, use an M3 truss and binding machine screws. Note2) The Permissible Load and Mass each indicate when used as a pair of 2 units.

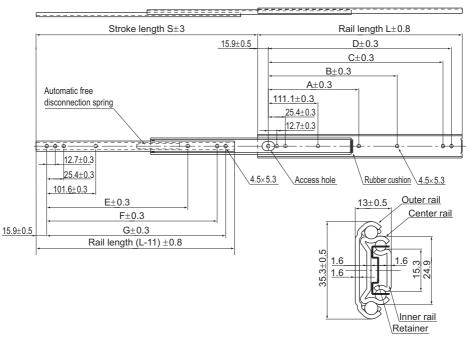
Model number coding



Model No.



Model FBL 35E-P14



Cross section

Rail length			M	ounting	hole di	mensio	ns		Mounti	ng hole	Permissible load	Mass
L (±0.8)	S (±3)	А	В	С	D	E	F	G	Inner rail	Outer rail	N/pair	kg/pair
305	330	_	149.2	260.3	273.0	233.1	254.0	266.7	7	7	294	0.88
356	381	—	200.0	311.1	323.8	258.5	304.8	317.5	7	7	284	1.04
406	432	_	250.8	361.9	374.6	283.9	355.6	368.3	7	7	275	1.16
457	483	212.7	301.6	412.7	425.4	309.3	406.4	419.1	7	8	255	1.32
508	533	238.1	352.4	463.5	476.2	334.7	457.2	469.9	7	8	235	1.48

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding

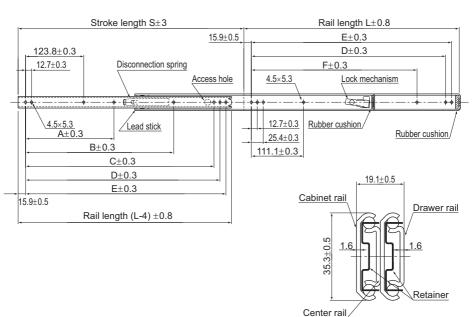
Model number

Overall rail length (mm)

Unit: mm



Model FBL 35G-P13



Cross section

Unit: mm

Rail length	Stroke		Mour	nting hol	e dimen	sions		Mounti	ng hole	Permissible load	Mass
L (±0.8)	S (±3)	А	В	С	D	E	F	Drawer rail	Cabinet rail	N/pair	kg/pair
305	327	_	_	_	260.3	273.0	_	5	6	623	1.2
356	378	—	—	298.4	311.1	323.8	—	6	6	586	1.4
406	429	_	_	349.2	361.9	374.6	250.8	6	7	555	1.6
457	480	212.7	—	400.0	412.7	425.4	301.6	7	7	516	1.8
508	530	238.1	365.1	450.8	463.5	476.2	352.4	8	7	475	2
559	581	263.5	415.9	501.6	514.3	527.0	403.2	8	7	444	2.2
610	632	288.9	466.7	552.4	565.1	577.8	454.0	8	7	413	2.4
660	683	314.3	517.5	603.2	615.9	628.6	504.8	8	7	382	2.6
711	734	339.7	568.3	654.0	666.7	679.4	555.6	8	7	355	2.8

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

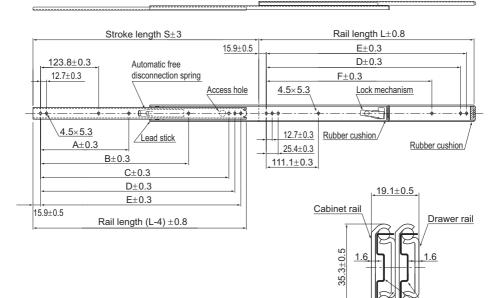
Model number coding

FBL35G-P13 +356L

Model number



Model FBL 35G-P14



Center rail

Cross section

Retainer

Unit: mm

Rail length	Stroke		Mour	nting hol	e dimen	sions		Mounti	ng hole	Permissible load	
L (±0.8)	S (±3)	А	В	С	D	E	F	Drawer rail	Cabinet rail	N/pair	kg/pair
305	327	_	_	_	260.3	273.0	_	5	6	623	1.2
356	378	—	—	298.4	311.1	323.8	—	6	6	586	1.4
406	429	_	—	349.2	361.9	374.6	250.8	6	7	555	1.6
457	480	212.7	—	400.0	412.7	425.4	301.6	7	7	516	1.8
508	530	238.1	365.1	450.8	463.5	476.2	352.4	8	7	475	2
559	581	263.5	415.9	501.6	514.3	527.0	403.2	8	7	444	2.2
610	632	288.9	466.7	552.4	565.1	577.8	454.0	8	7	413	2.4
660	683	314.3	517.5	603.2	615.9	628.6	504.8	8	7	382	2.6
711	734	339.7	568.3	654.0	666.7	679.4	555.6	8	7	355	2.8

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

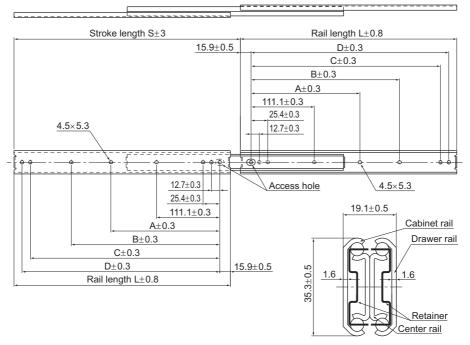
Model number coding



Model number



Model FBL 35D



Cross section

Unit: mm

Rail length	Stroke	Mou	inting hol	e dimens	ions	Mounti	ng hole	Permissible load	Mass
L (±0.8)	S (±3)	А	В	B C D Drawer Cabinet rail rail		N/pair	kg/pair		
305	327	_	149.2	260.3	273.0	7	7	588	1.28
356	378	—	200.0	311.1	323.8	7	7	578	1.48
406	429	_	250.8	361.9	374.6	7	7	559	1.72
457	480	212.7	301.6	412.7	425.4	8	8	549	1.96
508	530	238.1	352.4	463.5	476.2	8	8	529	2.12
559	581	263.5	403.2	514.3	527.0	8	8	500	2.4
610	632	288.9	454.0	565.1	577.8	8	8	480	2.56
660	683	314.3	504.8	615.9	628.6	8	8	461	2.8
711	734	339.7	555.6	666.7	679.4	8	8	441	3

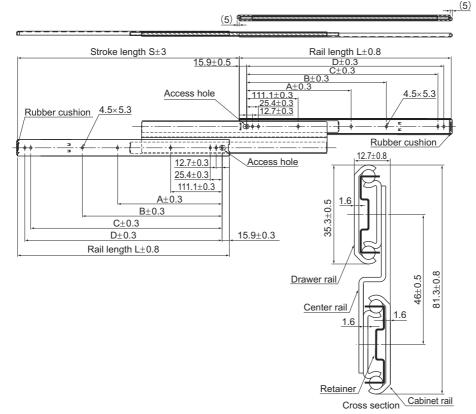
Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding





Model FBL 35W



Note) The product has a rubber cushion.

If desiring to keep the length within the rail length when storing the product, remove the rubber cushion.

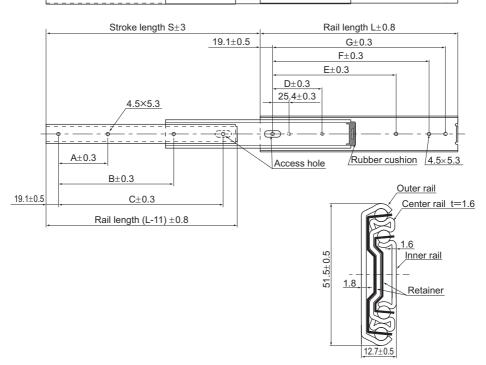
									Unit: mm
Rail length	Stroke	Μοι	inting hol	e dimens	ions	Mounti	ng hole	Permissible load	Mass
L (±0.8)	S (±3)	A	В	С	D	Drawer rail	Cabinet rail	N/pair	kg/pair
305	327	—	149.2	260.4	273.1	7	7	706	1.68
356	378	—	200.0	311.2	323.9	7	7	676	2
406	429	—	250.8	362.0	374.7	7	7	637	2.32
457	480	225.4	301.6	412.8	425.5	8	8	598	2.64
508	530	250.8	352.4	463.6	476.3	8	8	569	2.88
559	581	276.2	403.2	514.4	527.1	8	8	520	3.2
610	632	301.6	454.0	565.2	577.9	8	8	480	3.52
660	683	327.0	504.8	616.0	628.7	8	8	422	3.84
711	734	352.4	555.6	666.8	679.5	8	8	353	4.12

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding

FBL35W +356L

Model FBL 51H



Cross section

Unit: mm

Rail length	Stroke		N	lounting	hole di	mensior	าร		Mounti	ng hole	Permissible load	Mass
L (±0.8)	S (±3)	А	В	С	D	E	F	G	Inner rail	Outer rail	N/pair	kg/pair
305	330	76.2	177.8	254.0	76.2	190.5	241.3	266.7	4	6	850	1.46
356	381	101.6	203.2	304.8	88.9	215.9	292.1	317.5	4	6	820	1.72
406	432	127.0	228.6	355.6	127.0	241.3	342.9	368.3	4	6	770	1.89
457	483	127.0	279.4	406.4	127.0	292.1	393.7	419.1	4	6	730	2.26
508	533	152.4	304.8	457.2	152.4	317.5	444.5	469.9	4	6	710	2.52
559	584	177.8	330.2	508.0	177.8	342.9	495.3	520.7	4	6	690	2.72
610	635	177.8	381.0	558.8	177.8	393.7	546.1	571.5	4	6	660	3.00
660	686	203.2	406.4	609.6	203.2	419.1	596.9	622.3	4	6	630	3.25
711	737	228.6	431.8	660.4	228.6	444.5	647.7	673.1	4	6	610	3.54
762	787	228.6	457.2	711.2	228.6	469.9	698.5	723.9	4	6	580	3.86

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding

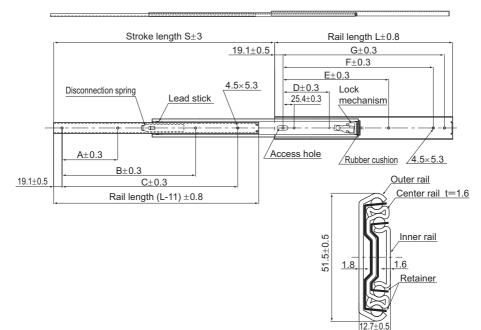


Model number Overall rail length (mm)



To download a desired data, search for the corresponding model number in the Technical site.

Model FBL 51H-P13



Cross section

Slide Rail

Unit: mm

Rail length	Stroke		Μ	ounting	hole di	mensior	าร		Mounti	ng hole	Permissible load	Mass
L (±0.8)	S (±3)	Α	В	С	D	E	F	G	Inner rail	Outer rail	N/pair	kg/pair
305	330	76.2		190.5	76.2	190.5	241.3	266.7	3	6	850	1.46
356	381	101.6	—	266.7	88.9	215.9	292.1	317.5	3	6	820	1.72
406	432	127.0	—	304.8	127.0	241.3	342.9	368.3	3	6	770	1.89
457	483	127.0	317.5	368.3	127.0	292.1	393.7	419.1	4	6	730	2.26
508	533	152.4	355.6	406.4	152.4	317.5	444.5	469.9	4	6	710	2.52
559	584	177.8	381.0	457.2	177.8	342.9	495.3	520.7	4	6	690	2.72
610	635	177.8	430.8	508.0	177.8	393.7	546.1	571.5	4	6	660	3.00
660	686	203.2	457.2	558.8	203.2	419.1	596.9	622.3	4	6	630	3.25
711	737	228.6	508.0	609.6	228.6	444.5	647.7	673.1	4	6	610	3.54
762	787	228.6	533.4	660.4	228.6	469.9	698.5	723.9	4	6	580	3.86

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

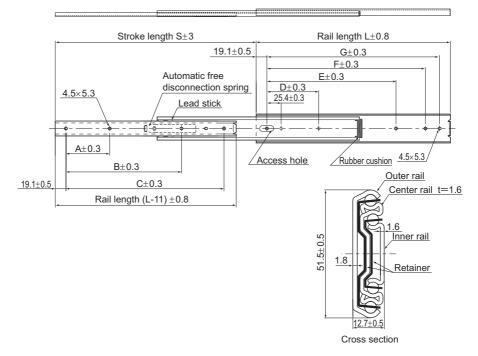
Model number coding



Model number



Model FBL 51H-P14



Unit: mm

Rail length	Stroke		N	lounting	hole di	mensior	าร		Mounti	ng hole	Permissible load	Mass
L (±0.8)	S (±3)	А	В	С	D	E	F	G	Inner rail	Outer rail	N/pair	kg/pair
305	330	76.2	_	254.0	76.2	190.5	241.3	266.7	3	6	850	1.46
356	381	127.0	—	304.8	88.9	215.9	292.1	317.5	3	6	820	1.72
406	432	152.4	317.5	355.6	127.0	241.3	342.9	368.3	4	6	770	1.89
457	483	177.8	368.3	406.4	127.0	292.1	393.7	419.1	4	6	730	2.26
508	533	152.4	419.1	457.2	152.4	317.5	444.5	469.9	4	6	710	2.52
559	584	177.8	469.9	508.0	177.8	342.9	495.3	520.7	4	6	690	2.72
610	635	177.8	520.7	558.8	177.8	393.7	546.1	571.5	4	6	660	3.00
660	686	203.2	571.5	609.6	203.2	419.1	596.9	622.3	4	6	630	3.25
711	737	228.6	622.3	660.4	228.6	444.5	647.7	673.1	4	6	610	3.54
762	787	228.6	673.1	711.2	228.6	469.9	698.5	723.9	4	6	580	3.86

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding

FBL51H-P14 +305L

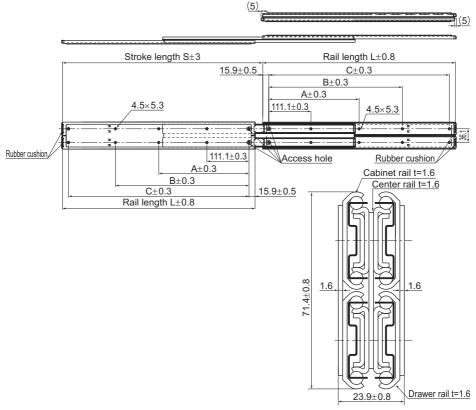
Model number

Overall rail length (mm)



To download a desired data, search for the corresponding model number in the Technical site.

Model FBL 35K



Cross section

Note) The product has a rubber cushion.

If desiring to keep the length within the rail length when storing the product, remove the rubber cushion.

I Inite	
Unit:	111111

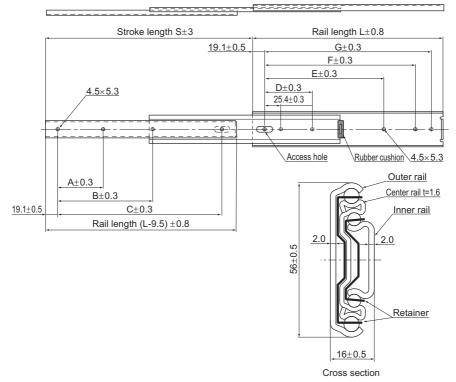
Rail length	Stroke	Mountin	g hole dim	ensions	Mounti	ng hole	Permissible load	Maga
L (±0.8)	S (±3)	А	В	С	Drawer rail	Cabinet rail	N/pair	Mass kg/pair
305	327	—	149.2	273.0	4	4	2670	4.04
356	378	—	200.0	323.8	4	4	2630	4.8
406	429	—	250.8	374.6	4	4	2540	5.6
457	480	212.7	301.6	425.4	5	5	2450	6.04
508	530	238.1	352.4	476.2	5	5	2360	6.92
559	581	263.5	403.2	527.0	5	5	2250	7.56
610	632	288.9	454.0	577.8	5	5	2120	8.4
660	683	314.3	504.8	628.6	5	5	1960	9
711	734	339.7	555.6	679.4	5	5	1780	9.68

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding

FBL35K +711L

Model FBL 56H



Unit: mm

Rail length	Stroke	Mounting hole dimensions							Mounting hole		Permissible load	Mass
L (±0.8)	S (±3)	А	В	С	D	Е	F	G	Inner rail	Outer rail	N/pair	kg/pair
305	330	76.2	177.8	254.0	76.2	190.5	241.3	266.7	4	6	961	1.76
356	381	101.6	203.2	304.8	88.9	215.9	292.1	317.5	4	6	951	2.04
406	432	127.0	228.6	355.6	127.0	241.3	342.9	368.3	4	6	941	2.36
457	483	127.0	279.4	406.4	127.0	292.1	393.7	419.1	4	6	922	2.64
508	533	152.4	304.8	457.2	152.4	317.5	444.5	469.9	4	6	902	2.96
559	584	177.8	330.2	508.0	177.8	342.9	495.3	520.7	4	6	882	3.24
610	635	177.8	381.0	558.8	177.8	393.7	546.1	571.5	4	6	863	3.6
660	686	203.2	406.4	609.6	203.2	419.1	596.9	622.3	4	6	843	3.84
711	737	228.6	431.8	660.4	228.6	444.5	647.7	673.1	4	6	824	4.06
762	787	228.6	457.2	711.2	228.6	469.9	698.5	723.9	4	6	784	4.44

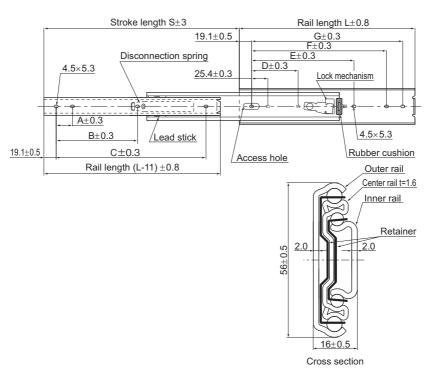
Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding





Model FBL 56H-P13



Unit: mm

Rail length	Stroke	Mounting hole dimensions							Mounting hole		Permissible load	Mass
L (±0.8)	S (±3)	A	В	С	D	Е	F	G	Inner rail	Outer rail	N/pair	kg/pair
305	330	76.2	—	254.0	76.2	190.5	241.3	266.7	3	6	961	1.76
356	381	127.0	—	304.8	88.9	215.9	292.1	317.5	3	6	951	2.04
406	432	152.4	317.5	355.6	127.0	241.3	342.9	368.3	4	6	941	2.36
457	483	177.8	368.3	406.4	127.0	292.1	393.7	419.1	4	6	922	2.64
508	533	152.4	419.1	457.2	152.4	317.5	444.5	469.9	4	6	902	2.96
559	584	177.8	469.9	508.0	177.8	342.9	495.3	520.7	4	6	882	3.24
610	635	177.8	520.7	558.8	177.8	393.7	546.1	571.5	4	6	863	3.6
660	686	203.2	571.5	609.6	203.2	419.1	596.9	622.3	4	6	843	3.84
711	737	228.6	622.3	660.4	228.6	444.5	647.7	673.1	4	6	824	4.06
762	787	228.6	673.1	711.2	228.6	469.9	698.5	723.9	4	6	784	4.44

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

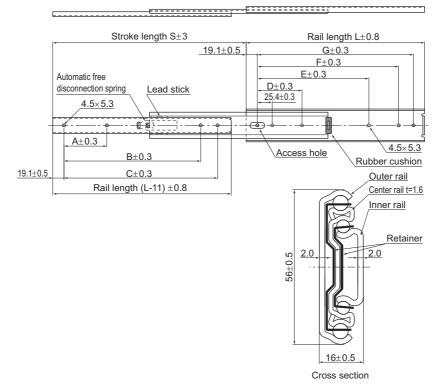
Model number coding



Model number



Model FBL 56H-P14



Unit: mm

Rail length	Stroke		Mounting hole dimensions							ng hole	Permissible load	Mass
L (±0.8)	S (±3)	A	В	С	D	Е	F	G	Inner rail	Outer rail	N/pair	kg/pair
305	330	76.2	—	254.0	76.2	190.5	241.3	266.7	3	6	961	1.76
356	381	127.0	—	304.8	88.9	215.9	292.1	317.5	3	6	951	2.04
406	432	152.4	317.5	355.6	127.0	241.3	342.9	368.3	4	6	941	2.36
457	483	177.8	368.3	406.4	127.0	292.1	393.7	419.1	4	6	922	2.64
508	533	152.4	419.1	457.2	152.4	317.5	444.5	469.9	4	6	902	2.96
559	584	177.8	469.9	508.0	177.8	342.9	495.3	520.7	4	6	882	3.24
610	635	177.8	520.7	558.8	177.8	393.7	546.1	571.5	4	6	863	3.6
660	686	203.2	571.5	609.6	203.2	419.1	596.9	622.3	4	6	843	3.84
711	737	228.6	622.3	660.4	228.6	444.5	647.7	673.1	4	6	824	4.06
762	787	228.6	673.1	711.2	228.6	469.9	698.5	723.9	4	6	784	4.44

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

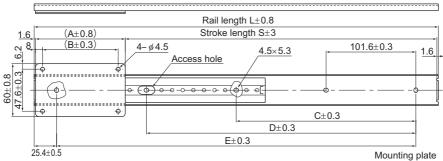
Model number coding

FBL56H-P14 +457L

Model number

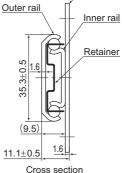


Model FBL 35F



		Mass	Unit:	kg/pair		
Rail length L (±0.8)		Mount	ing pla	te Moo	del No.	
mm	#3	#4	#5	#6	#7	#8
305	0.60	0.67	0.74	0.81	—	—
356	0.66	0.73	0.80	0.87	0.94	1.01
406	0.73	0.80	0.87	0.94	1.01	1.08
457	0.80	0.87	0.94	1.01	1.08	1.15
508	0.86	0.93	1.0	1.07	1.14	1.21
559	0.93	1.0	1.07	1.14	1.21	1.28
610	1.0	1.07	1.14	1.21	1.28	1.35
660	1.06	1.13	1.20	1.27	1.34	1.41
711	1.13	1.20	1.27	1.34	1.41	1.48
762	1.20	1.27	1.34	1.41	1.48	1.55





Note) The mass indicates the value for a pair of 2 product units.

Unit: mm

Mounting plate	Model No.	#3	#4	#5	#6	#7	#8	Dimen	sion of th	e outer	
	Length (A±0.8)	76.2	101.6	127	152.4	177.8	203.2	rail mou	inting hol	nting hole (± 0.3)	
Rail length L	_ (±0.8)	Stroke length	n S (±3) *Vari	es with the co	mbination with	the mounting	plate above.	С	D	E	
305		225.4	200.0	174.6	149.2	—	—	—	152.4	254.0	
356		276.2	250.8	225.4	200.0	174.6	149.2	—	203.2	304.8	
406		327.0	301.6	276.2	250.8	225.4	200.0	—	254.0	355.6	
457		377.8	352.4	327.0	301.6	276.2	250.8	203.2	304.8	406.4	
508		428.6	403.2	377.8	352.4	327.0	301.6	228.6	355.6	457.2	
559		479.4	454.0	428.6	403.2	377.8	352.4	254.0	406.4	508.0	
610		530.2	504.8	479.4	454.0	428.6	403.2	279.4	457.2	558.8	
660		581.0	555.6	530.2	504.8	479.4	454.0	304.8	508.0	609.6	
711		631.8	606.4	581.0	555.6	530.2	504.8	330.2	558.8	660.4	
762		682.6	657.2	631.8	606.4	581.0	555.6	355.6	609.6	711.2	
Pitch of the mounting pla (B±0.3)	0	60.2	85.6	111.0	136.4	161.8	187.2		_	_	
Permissible loa	ad (N/pair)	294	392	490	588	686	784	_	_	_	

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding

FBL35F +356L

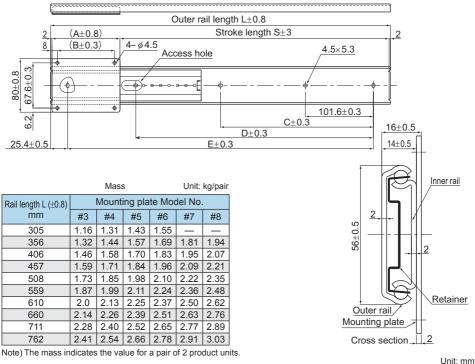
#5

Model number

Model number of mounting plate

Overall rail length (mm)

Model FBL 56F



Mounting plate	Model No.	#3	#4	#5	#6	#7	#8			ion of the outer	
	ength (A±0.8)	76.2	101.6	127	152.4	177.8	203.2	rail mou	inting hole (± 0.3)		
Rail length L	. (±0.8)	Stroke length	s (±3) *Vari	es with the co	mbination with	the mounting	plate above.	С	D	E	
305		224.6	199.2	173.8	148.4	_	—	_	152.4	254.0	
356		275.4	250.0	224.6	199.2	173.8	148.4	_	203.2	304.8	
406		326.2	300.8	275.4	250.0	224.6	199.2	_	254.0	355.6	
457		377.0	351.6	326.2	300.8	275.4	250.0	203.2	304.8	406.4	
508		427.8	402.4	377.0	351.6	326.2	300.8	228.6	355.6	457.2	
559		478.6	453.2	427.8	402.4	377.0	351.6	254.0	406.4	508.0	
610		529.4	504.0	478.6	453.2	427.8	402.4	279.4	457.2	558.8	
660		580.2	554.8	529.4	504.0	478.6	453.2	304.8	508.0	609.6	
711		631.0	605.6	580.2	554.8	529.4	504.0	330.2	558.8	660.4	
762		681.8	656.4	631.0	605.6	580.2	554.8	355.6	609.6	711.2	
Pitch of the mounting pla (B±0.3)	te mounting hole	60.2	85.6	111.0	136.4	161.8	187.2	_	_	_	
Permissible loa	d (N/pair)	588	784	980	1176	1372	1568		_		

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

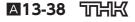
Model number coding

FBL56F +305L #6

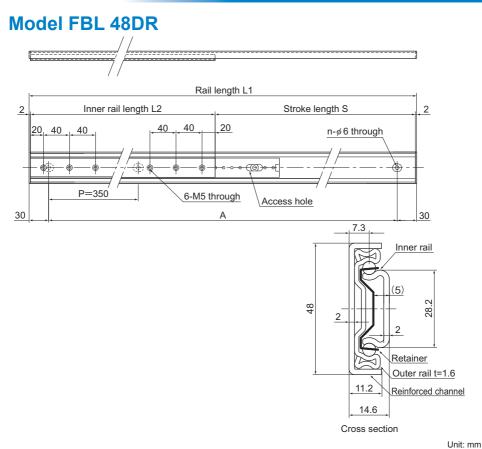
Model number

Model number of mounting plate

Overall rail length (mm)



To download a desired data, search for the corresponding model number in the Technical site



Outer rail length	Inner rail length	Stroke length	Mounting hole pitch	No. of mounting holes	Permissible load	Mass
L1	L2	S	A	n -	[N]	[kg]
1110	496	610	P350×3	4	490	2.73
1110	696	410	P350×3	4	686	2.88
1460	496	960	P350×4	5	490	3.47
1460	696	760	P350×4	5	686	3.62
1810	696	1110	P350×5	6	686	4.36
2160	496	1660	P350×6	7	490	4.95
2160	696	1460	P350×6	7	686	5.10

Note1) Set the length of the mounting screws for the inner rail such that they do not touch the retainer. Note2) Model FBL48DR differs from other slide rails by assuming use with a single rail. Therefore, the value is per single rail for permissible load.

Model number coding

FBL48DR +1810/696L

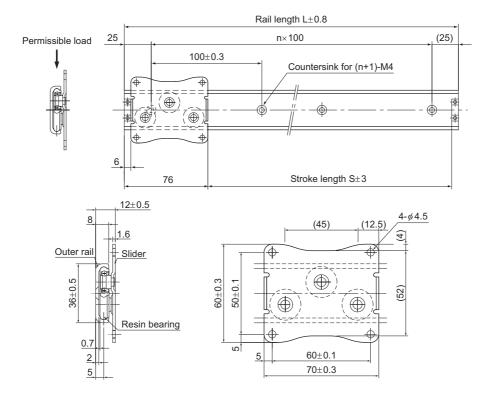
Model number

Outer rail length Inner rail length L1 (mm)

L2 (mm)



Model E36RS



Unit: mm

Rail length L (±0.8)	Stroke length S (±3)	n	Mounting hole n+1	Permissible load ^{Note1)}	Mass
150	68	1	2	40	104
250	168	2	3	40	130
350	268	3	4	40	156
450	368	4	5	40	182
550	468	5	6	40	207
650	568	6	7	40	233
750	668	7	8	40	259

Note) Model E36RS differs from other slide rails by assuming use with a single rail. Therefore, the value is per single rail for permissible load.

Model number coding

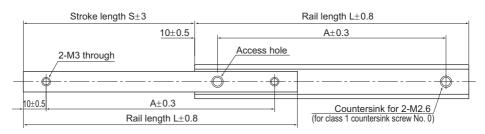
E36RS +550L

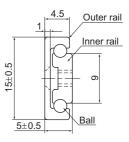
Model number Overall rail length (mm)



To download a desired data, search for the corresponding model number in the Technical site.

Model E15





Cross section

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л.
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Unit: mm

S

Rail length L (±0.8)	Stroke S (±3)	Mounting hole dimensions A±0.3	Permissible load N/pair	Mass [g/pair]
50	20	30.0	5	15
80	45	60.0	8	24
100	60	80.0	10	30
120	75	100.0	10	36

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding

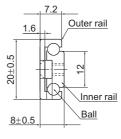


Model number Overall rail length (mm)

[13-41] [13-41]

Model E20

Stroke length S±3 Rail length L±0.8 B±0.3 15 ± 0.5 n-M4 through A±0.3 (Access hole) ٢ 働 ⊕ æ A±0.3 n-ø3.5 90° countersunk (ø6) 15±0.5 B±0.3 Rail length L±0.8



Cross section

Unit: mm

Rail length	Stroke	Mount	ing hole dime	nsions	Permissible load	Mass
L (±0.8)	S (±3)	A±0.3	B±0.3	n (pcs)	N/pair	[g/pair]
80	45	50.0	_	2	20	50
100	60	70.0	_	2	30	62
150	85	60.0	120.0	3	80	98
200	120	85.0	170.0	3	140	131
300	180	135.0	270.0	3	145	197

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

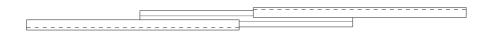
Model number coding

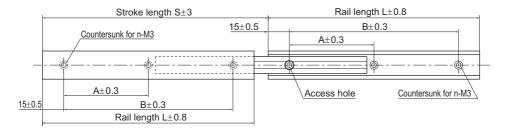
E20 +150L

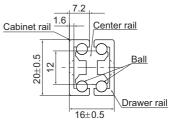
Model number Overall rail length (mm)

图13-42 冗光长

Model D20







Cross section

Unit: mm

Rail length	Stroke	Mounting hole dimensions			Permissible load	Mass
L (±0.8)	S (±3)	A±0.3	B±0.3	n (pcs)	N/pair	[g/pair]
80	80	50.0	_	2	20	94
100	100	70.0	_	2	30	118
150	160	60.0	120.0	3	80	179
200	223	85.0	170.0	3	140	241
300	345	135.0	270.0	3	145	364

Note) The Permissible Load and Mass each indicate when used as a pair of 2 units.

Model number coding

D20 +300L

Model number Overall rail length (mm)



Point of Design

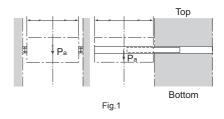
Slide Rail

[Permissible Load and Mounting Orientation]

For use other than with the mounting orientation shown in Fig.1, contact THK.

The permissible load of the Slide Rail indicates the load in the direction Pa that two rails can receive in the middle of the inner rail length at the maximum stroke.

The mounting orientation shown in Fig.2 is applicable to model FBL35B only.



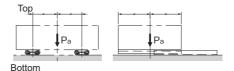


Fig.2 Applicable to model FBL35B only

The mounting orientation of Fig.3 is applicable to model FBL35F and model FBL56F.

The mounting orientation of Fig.4 is applicable to model FBL48DR. To prevent a moment load from being applied, position the center of gravity of the door on the ball and the cage center lines, and ensure that the section A of the hanger is structured to allow free rotation.

The mounting orientation of Fig.5 is applicable to model E36RS.

Unlike other slide rails, model FBL48DR and model E36RS are used with a single rail. Therefore, set the load application position so that it is on the ball and the cage center lines.

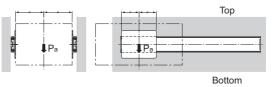
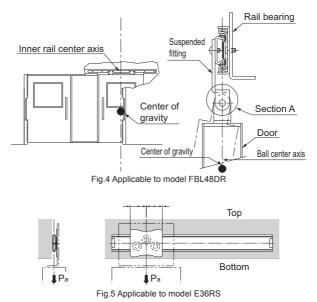


Fig.3 Applicable to model FBL35F, model FBL56F



[Surface Treatment]

The surface of the Slide Rail is electro-galvanized (treated with trivalent chromate) as standard. The aluminum slide rail of models E and D is white alumite-treated as standard. The slider of model E36RS is electro-galvanized (trivalent chromate treatment) and the rail is white alumite-treated as standard. For other surface treatments, contact THK.



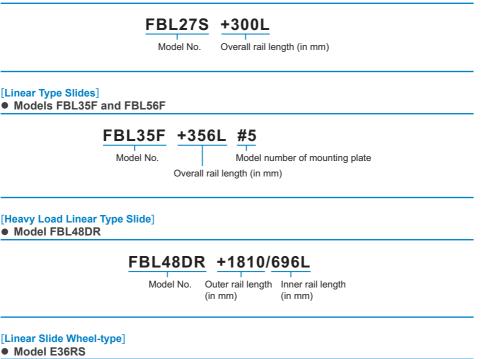
Model Number Coding

Model number configurations differ depending on the model features. Refer to the corresponding sample model number configuration.

[Single slide/Double slide]

A13-46 5日出版

Models FBL 27S, FBL 27S-P14, FBL 35S, FBL 35S-P13, FBL 35S-P14, FBL 35M, FBL 35J, FBL 35B, FBL 35T, FBL 27D, FBL 35E, FBL 35E-P14, FBL 35G-P13, FBL 35G-P14, FBL 35D, FBL 35W, FBL 51H, FBL 51H-P13, FBL 51H-P14, FBL 35K, FBL 56H, FBL 56H-P13 and FBL 56H-P14



E36RS +550L

Model number Overall rail length (mm)

E15 +100L

Model No. Overall rail length (in mm)



[Handling]

- (1) Tilting a slide rail may cause it to fall by its own weight.
- (2) Dropping or hitting the Slide Rail may damage it. Giving an impact force to the slide rail could also cause damage even if the product looks intact.

[Precautions on Use]

- (1) When mounting the Slide Rail, use care to always keep both rails in parallel.
- (2) Entrance of foreign material may cause damage to the Slide Rail or functional loss.
- (3) Avoid using the product at other than normal temperature, or using it in harsh conditions such as intensive reciprocations that generate frictional heat and environments with water or dust.
- (4) The durability of the Slide Rail varies depending on factors such as the drawing dimension, travel distance, mounting conditions and environment in addition to operating frequency. Take these factors into account when making a selection.
- (5) Note that the cage may be displaced due to vertical installation, machine vibration, etc. To correct the cage position, perform the full-close and full-open operations. During these operations, the balls slip to make the sliding motion less smooth. If cage displacement cannot be prevented, we recommend using Slide Packs, LM Guides, etc., which are infinite linear motion systems.
- (6) If you replace an old slider or outer rail of your E36RS with a new one, the clearance and sliding resistance may substantially increase.
- (7) Do not use the supplied stopper as a mechanical stopper. Doing so may damage the stopper due to impact.

[Storage]

When storing the Slide Rail, avoid high temperature, low temperature and high humidity.

A13-48 1元出版



Slide Rail 示光K General Catalog

B Support Book

Features and Types Features of the Slide Rail • Structure and Features Types of the Slide Rail • Types and Features Classification Table for Slide Rails	B 13-2 B 13-2 B 13-3 B 13-3
Mounting Procedure Mounting the Slide Rail	
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Precautions on Use	₿13-19

Product Descriptions (Separate)

Features and Types Features of the Slide Rail • Structure and Features Types of the Slide Rail • Types and Features Classification Table for Slide Rails	A 13-2 A 13-2 A 13-2 A 13-3 A 13-3 A 13-3 A 13-12
Dimensional Drawing, Dimensional Table Model FBL 27SP14 Model FBL 35SP13 Model FBL 35SP13 Model FBL 35SP14 Model FBL 35S Model FBL 35T Model FBL 35T Model FBL 35E-P14 Model FBL 35G-P13 Model FBL 35G-P14 Model FBL 35G-P13 Model FBL 35G-P14 Model FBL 35G-P14 Model FBL 35G-P14 Model FBL 35G-P14 Model FBL 35G-P13 Model FBL 35G-P14 Model FBL 56H-P13 Model FBL 56H-P13 Model FBL 56H-P13 Model FBL 56F Model FBL 35F Model FBL 35F Model FBL 35F Model FBL 35F Model FBL 48DR Model FBL 48DR <td>▲ 13-14 ▲ 13-15 ▲ 13-16 ▲ 13-17 ▲ 13-17 ▲ 13-18 ▲ 13-22 ▲ 13-20 ▲ 13-23 ▲ 13-24 ▲ 13-26 ▲ 13-26 ▲ 13-28 ▲ 13-28 ▲ 13-28 ▲ 13-28 ▲ 13-30 ▲ 13-31 ▲ 13-30 ▲ 13-31 ▲ 13-39 ▲ 13-29 ▲ 13-39 ▲ 13-34 ▲ 13-</td>	▲ 13-14 ▲ 13-15 ▲ 13-16 ▲ 13-17 ▲ 13-17 ▲ 13-18 ▲ 13-22 ▲ 13-20 ▲ 13-23 ▲ 13-24 ▲ 13-26 ▲ 13-26 ▲ 13-28 ▲ 13-28 ▲ 13-28 ▲ 13-28 ▲ 13-30 ▲ 13-31 ▲ 13-30 ▲ 13-31 ▲ 13-39 ▲ 13-29 ▲ 13-39 ▲ 13-34 ▲ 13-
Point of Design	A13-44
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Precautions on Use	A13-48



Features and Types

Features of the Slide Rail

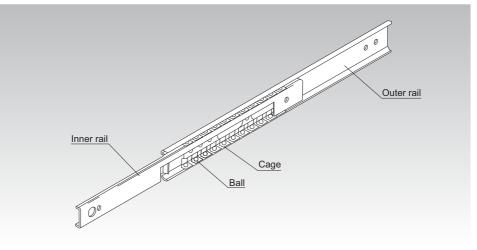


Fig.1 Structure of Slide Rail Model FBL

Structure and Features

Slide Rail model FBL is a thin, compact, lightweight and ultra-low price slide unit for finite motion. It has two rows of balls placed between an inner rail (made of a steel sheet roll-formed with precision) and an outer rail. The balls are evenly spaced by a cage press-molded with precision, thus eliminating friction between balls and achieving a smooth slide mechanism.

Since model FBL achieves smooth straight motion with easy installation, it can be used in a wide range of applications such as photocopiers, measuring instruments, telecommunication equipment, medical equipment, automatic vending machines and various types of office equipment.

[Unit Type That Allows Easy Installation]

Since the clearance and the motion of the slide unit are optimally adjusted, simply mounting the unit onto the base or the table using screws will achieve a slide mechanism with virtually no running noise.

[Thin and Compact]

Since the sectional shape is thin designed, this slide pack only requires a small side space for installation. In addition, a desired number of slide pack units can be installed in parallel according to the load conditions.

[Maintenance-free Operation]

Since the Slide Rail model FBL is treated with zinc plating, and models E and D are treated with white alumite treatment, they are highly corrosion resistant. In addition, the slide unit contains lithium soap-based grease, which is highly stable against oxidation.



Types of the Slide Rail

Types of the Slide Rail

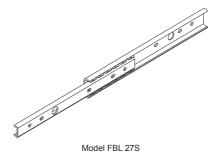
Types and Features

[Single Slides for Light Load]

Model FBL 27S

The most compact slide rail from THK.

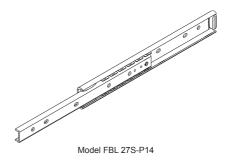
Specification Table⇒▲13-14



Model FBL 27S-P14

An inner rail pulling type of model FBL 27S. Releasing the automatic free disconnection spring attached on the inner rail allows the slide rail to be pulled out. When stored, the spring is automatically released unidirectionally under a certain pressure.



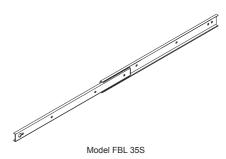


Model FBL 35S

A single slide type of Slide Rail with the most fundamental shape.

Specification Table⇒▲13-16

Slide Rail



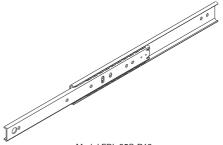


Model FBL 35S-P13

An inner rail pulling type of model FBL 35S. Releasing the disconnection spring attached on the inner rail allows the slide rail to be pulled out. When folded, the locked state with the disconnect spring is manually released.



Specification Table⇒▲13-18

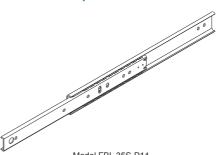


Model FBL 35S-P13

Model FBL 35S-P14

B13-4

An inner rail pulling type of model FBL 35S. Releasing the automatic free disconnection spring attached on the inner rail allows the slide rail to be pulled out. When stored, the spring is automatically released unidirectionally under a certain pressure.



Model FBL 35S-P14

Features and Types

Types of the Slide Rail

Model FBL 35M

An inner rail pulling type of model FBL 35S. It stops by frictional resistance when the slide rail is fully opened, and is pulled out when being pulled further with force.

(brake-stop type)

Specification Table⇒▲13-19

Specification Table⇒▲13-20





Model FBL 35J

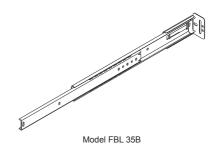
Based on model FBL 35M, this model has a lead ball that serves as a guide when the inner rail is inserted.

Co Model FBL 35J

Model FBL 35B

A brake-stop type of model FBL 35M. It can be mounted on the bottom face of a moving object when used.





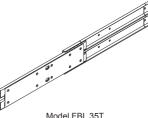


[Single Slides for Medium Load]

Model FBL 35T

A single slide combining two units of model FBL 35S. When folded, the locked state with the disconnect spring is manually released.

Specification Table⇒▲13-22



[Double Slides for Light Load]

Model FBL 27D

A double-slide type that combines two units of model FBL 27S back-to-back. It is widely used in various types of OA equipment.

Specification Table⇒▲13-23



Model FBL 27D

Model FBL 35E

This is a 2-level slide-unit type suitable for restricted spaces, featuring a stroke length that can exceed the total rail length.

Specification Table⇒▲13-24



Model FBL 35E-P14

A three-rail, double-slide type that allows a long stroke in a small space. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When closed, the locked state is automatically released under pressure in the closing direction.

Specification Table⇒▲13-25



Model FBL 35E-P14



[Double Slides for Medium Load]

Model FBL 35G-P13

A double-slide type that combines two units of model FBL 35S front-to-front. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When folded, the locked state with the disconnect spring is manually released. It is also equipped with a pull-lock mechanism that functions when the slide rail is fully opened.

Model FBL 35G-P14

A double-slide type that combines two units of model FBL 35S front-to-front. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When folded, the lock state with the disconnect spring can automatically be released under a certain pressure in the folding direction. It is also equipped with a pull-lock mechanism that functions when the slide rail is fully opened.

Model FBL 35D

Model FBL 35W

unit.

A double-slide type that combines two units of model FBL 35S back-to-back. It is extensively used regardless of the industry.

A double-slide type based on model FBL 35S that achieves a thickness of one single-slide

Specification Table⇒▲13-26



Specification Table⇒▲13-27



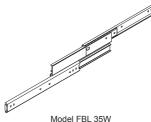
Model FBL 35G-P14

Specification Table⇒▲13-28



Model FBL 35D

Specification Table⇒▲13-29



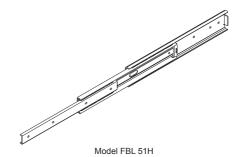




Model FBL 51H

A three-rail, double-slide type that allows a long stroke. With the smallest thickness, this model can be used in a space-saving location even under a large load.

Specification Table⇒▲13-30

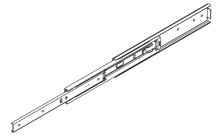


Model FBL 51H-P13

A three-rail, double-slide type that allows a long stroke. With the smallest thickness, this model can be used in a space-saving location even under a large load. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When folded, the locked state with the disconnect spring is manually released. It is also equipped with a lock mechanism that functions when the slide rail is fully opened.

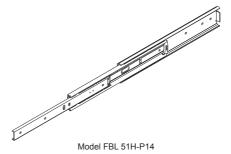
Model FBL 51H-P14

A three-rail, double-slide type that allows a long stroke. With the smallest thickness, this model can be used in a space-saving location even under a large load. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When closed, the locked state is automatically released under pressure in the closing direction. Specification Table⇒▲13-31



Model FBL 51H-P13



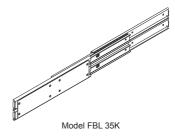


[Double Slides for Heavy Load]

Model FBL 35K

A double-slide type combining 4 units of model FBL 35S. It achieves the largest permissible load among all types and is optimal for opening/ closing heavy objects.

Specification Table⇒▲13-33

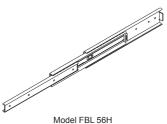


Model FBL 56H

A double-slide type with the largest permissible load among the three rails. It is used extensively in various types of OA furniture.

Specification Table⇒▲13-34

Specification Table⇒▲13-35

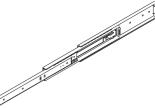


Model FBL 56H-P13

A double-slide type with the largest permissible load among the three rails. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When folded, the locked state with the disconnect spring is manually released. It is also equipped with a lock mechanism that functions when the slide rail is fully opened.

Model FBL 56H-P14

A double-slide type with the largest permissible load among the three rails. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When closed, the locked state is automatically released under pressure in the closing direction.



Model FBL 56H-P13

Specification Table⇒A13-36



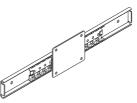


[Linear Type Slides]

Light Load Type Model FBL 35F

Using a flange type that can easily be mounted, this slide-type model is capable of performing straight, finite motion.

Specification Table⇒▲13-37

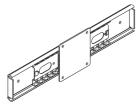


Light Load Type Model FBL 35F

Medium Load Type Model FBL 56F

Using a flange type that can easily be mounted, this slide-type model is capable of performing straight, finite motion. It is optimal for locations under a large working load.

Specification Table⇒▲13-38



Medium Load Type Model FBL 56F

Heavy Load Type Model FBL 48DR

A heavy-load, low-friction slide rail developed for sliding heavy doors.

Specification Table⇒▲13-39



Heavy Load Type Model FBL 48DR

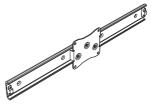
[Wheel-type Linear Slide]

Model E36RS

A linear slide that combines a lightweight outer rail made of precision-extruded aluminum alloy with a highly wear-resistant resin bearing.

Since no grease adheres to the rail surface, it can be used for a drawer without soiling the stored articles.

Specification Table⇒▲13-40



Model E36RS



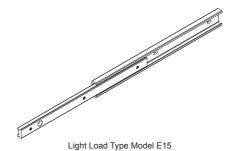
Types of the Slide Rail

[Aluminum Alloy Slide Rail]

Light Load Type Model E15

The lightest and most compact single slide in the aluminum alloy series. It is especially suitable for locations with magnetism, locations requiring antirust measures and locations where much importance is given to appearance.

Specification Table⇒▲13-41



Light Load Type Model E20

A single-slide with the most fundamental shape in the aluminum alloy series. It is especially suitable for locations with magnetism, locations requiring antirust measures and locations where much importance is given to appearance.

Light Load Type Model D20

The lightest and most compact double slides in the aluminum alloy series. It is especially suitable for locations with magnetism, locations requiring antirust measures and locations where much importance is given to appearance.

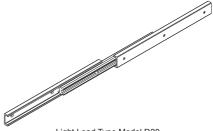
Specification Table⇒▲13-42



Light Load Type Model E20

Specification Table⇒▲13-43

Slide Rail

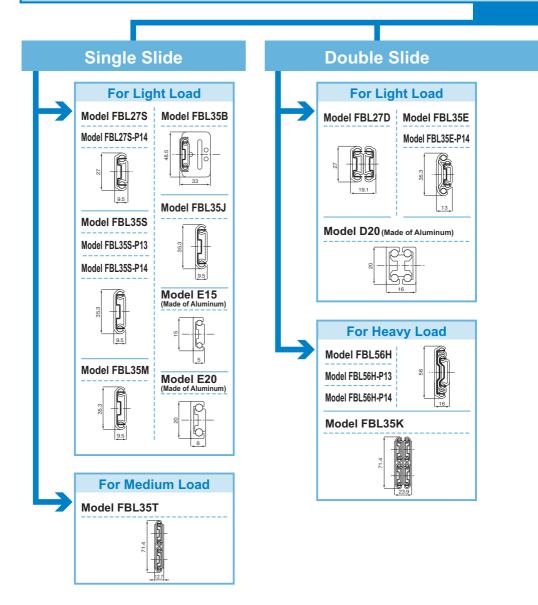


Light Load Type Model D20

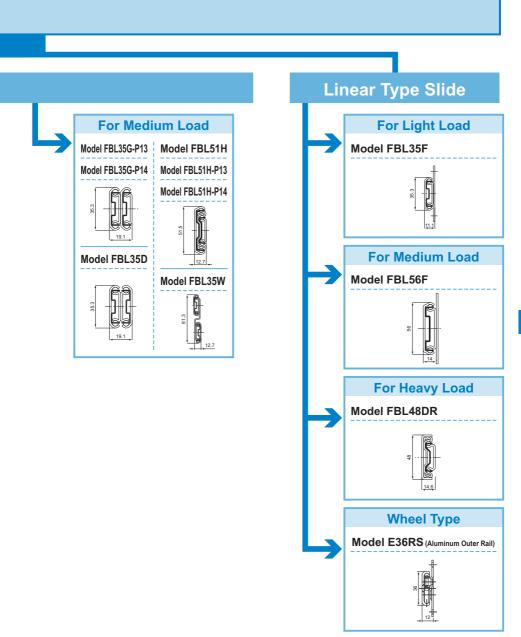


Classification Table for Slide Rails

Slide Rail







₩₩ ■13-13

Mounting the Slide Rail

[Mounting Screws of the Slide Rail]

The slide rail is designed to be mounted using M4 screws. Since the mounting space is small as shown in Fig.1, we recommend using button head or binding head bolts.

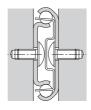


Fig.1

Model number	button-head bolt	binding-head bolt	countersunk screw
Models FBL27S/27S-P14/27D	M3	M3 , M4	—
Model E15	—	—	M2.6
Models E20/D20	—	_	M3
Model FBL35E	M3	M3	_
Model E36RS	—	_	M4

Note that the mounting screw for the slide rail of the models indicated in the following table is different.

Note) For button head bolts, binding head bolts, and countersunk screws, see the appendix of JIS B 1111.

[Attaching the Slide Rail]

At full extension of the slide, mount the outer rail at the overlap of rails. Followed by full retraction of the slide and mount the opposite end using the access hole.

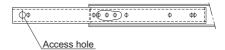
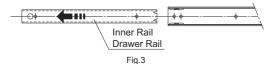


Fig.2

* For the following model numbers, mount outer rail after removing inner rail, as shown in Fig.3.

Models: FBL27S-P14,FBL35S-P13,FBL35S-P14,FBL35M,FBL35J,FBL35B,FBL35E-P14, FBL35G-P13,FBL35G-P14,FBL51H-P13,FBL51H-P14,FBL56H-P13,FBL56H-P14

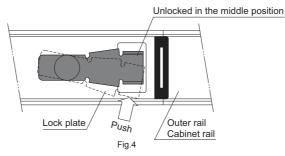




Mounting Procedure

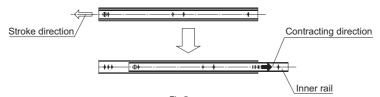
Mounting the Slide Rail

In addition, when mounting the outer rail or cabinet rail of models FBL35G-P13, FBL35G-P14, FBL51H-P13 and FBL56H-P13, which have locking mechanisms, release the lock by pressing the lock plate in the direction indicated in Fig.4 and adjust the position of the access hole.



* For the following models, mount the inner rail by sliding it in the contracting direction as show in Fig.5. When doing so, do not remove the inner rail from the outer rail. If the inner rail is pulled out, it may be difficult to reinsert.

Models: FBL27S, FBL35S, FBL35T



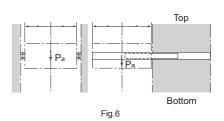


[Permissible Load and Mounting Orientation]

For use other than with the mounting orientation shown in Fig.6, contact THK.

The permissible load of the Slide Rail indicates the load in the direction Pa that two rails can receive in the middle of the inner rail length at the maximum stroke.

The mounting orientation shown in Fig.7 is applicable to "model FBL35B" only.





Bottom

Fig.7 Applicable to "model FBL35B" only

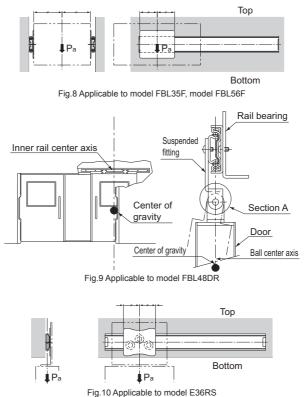


The mounting orientation of Fig.8 is applicable to model FBL35F and model FBL56F.

The mounting orientation of Fig.9 is applicable to model FBL48DR. To prevent a moment load from being applied, position the center of gravity of the door on the ball and the cage center lines, and ensure that the section A of the hanger is structured to allow free rotation.

The mounting orientation of Fig.10 is applicable to model E36RS.

Unlike other slide rails, model FBL48DR and model E36RS are used with a single rail. Therefore, set the load application position so that it is on the ball and the cage center lines.



[Surface Treatment]

The surface of the Slide Rail is electro-galvanized (treated with trivalent chromate) as standard. The aluminum slide rail of models E and D is white alumite-treated as standard. The slider of model E36RS is electro-galvanized (trivalent chromate treatment) and the rail is white alumite-treated as standard. For other surface treatments, contact THK.



Model Number Coding

Model number configurations differ depending on the model features. Refer to the corresponding sample model number configuration.

[Single slide/Double slide]

Models FBL 27S, FBL 27S-P14, FBL 35S, FBL 35S-P13, FBL 35S-P14, FBL 35M, FBL 35J, FBL 35B, FBL 35T, FBL 27D, FBL 35E, FBL 35E-P14, FBL 35G-P13, FBL 35G-P14, FBL 35D, FBL 35W, FBL 51H, FBL 51H-P13, FBL 51H-P14, FBL 35K, FBL 56H, FBL 56H-P13 and FBL 56H-P14



[Linear Type Slides]Models FBL35F and FBL56F

FBL35F +356L #5

Model No.

Model number of mounting plate

Overall rail length (in mm)

[Heavy Load Linear Type Slide] • Model FBL48DR

FBL48DR +1810/696L

Model No. Outer rail length Inner rail length (in mm) (in mm)

[Linear Slide Wheel-type]Model E36RS

E36RS +550L

Model number Overall rail length (mm)



E15 +100L

Model No. Overall rail length (in mm)



[Handling]

- (1) Tilting a slide rail may cause it to fall by its own weight.
- (2) Dropping or hitting the Slide Rail may damage it. Giving an impact force to the slide rail could also cause damage even if the product looks intact.

[Precautions on Use]

- (1) When mounting the Slide Rail, use care to always keep both rails in parallel.
- (2) Entrance of foreign material may cause damage to the Slide Rail or functional loss.
- (3) Avoid using the product at other than normal temperature, or using it in harsh conditions such as intensive reciprocations that generate frictional heat and environments with water or dust.
- (4) The durability of the Slide Rail varies depending on factors such as the drawing dimension, travel distance, mounting conditions and environment in addition to operating frequency. Take these factors into account when making a selection.
- (5) Note that the cage may be displaced due to vertical installation, machine vibration, etc. To correct the cage position, perform the full-close and full-open operations. During these operations, the balls slip to make the sliding motion less smooth. If cage displacement cannot be prevented, we recommend using Slide Packs, LM Guides, etc., which are infinite linear motion systems.
- (6) If you replace an old slider or outer rail of your E36RS with a new one, the clearance and sliding resistance may substantially increase.
- (7) Do not use the supplied stopper as a mechanical stopper. Doing so may damage the stopper due to impact.

[Storage]

When storing the Slide Rail, avoid high temperature, low temperature and high humidity.



