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POWRÓT DO STRONY GŁÓWNEJ



Slide Rail

行出ば General Catalog

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Model FBL 56F B-565
Model FBL 48DR B-566
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Model E20 B-568
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^{*} Please see the separate "B Product Specifications".

Features of the Slide Rail

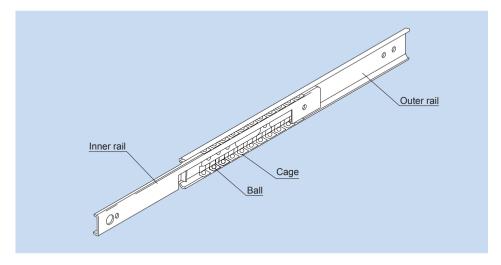


Fig.1 Structure of Slide Rail Model FBL

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 is treated with zinc plating, it is highly corrosion resistant. In addition, the slide unit contains lithium soap-based grease, which is highly stable against oxidation.

Types of the Slide Rail

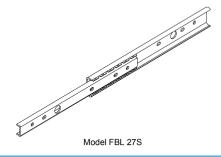
Types and Features

[Single Slides for Light Load]

Model FBL 27S

The most compact slide rail from THK.

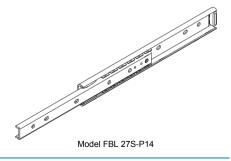
Specification Table⇒B-542



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.

Specification Table⇒B-543



Model FBL 35S

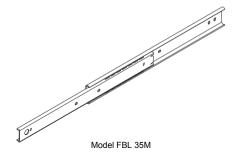
A single slide type of Slide Rail with the most fundamental shape.



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)

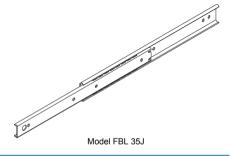
Specification Table⇒B-545



Model FBL 35J

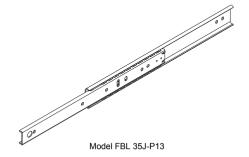
Based on model FBL 35M, this model has a lead ball that serves as a guide when the inner rail is inserted.

Specification Table⇒B-546



Model FBL 35J-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⇒B-548

Model FBL 35J-P14

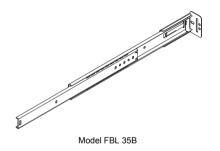
An inner rail pulling type of model FBL 35S. Releasing the automatic free disconnection spring attached on the inner rail allows the slide rail to be pulled out. When stored, the spring is automatically released unidirectionally under a certain pressure.

Model FBI 35.I-P14

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.

Specification Table⇒B-549

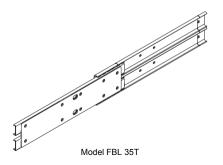


[Single Slides for Medium Load]

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⇒B-550

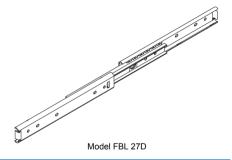


[Double Slides for Light Load]

Model FBL 27D

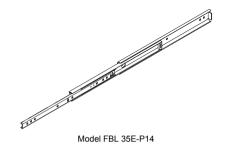
A double-slide type that combines two units of model FBL 27S back-to-back. It is widely used in various types of OA equipment.

Specification Table⇒B-551



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 folded, the locked state is automatically released under a certain pressure in the folding direction.



Specification Table⇒B-553

Specification Table⇒B-554

[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 FBI 35G-P14

Specification Table⇒B-555

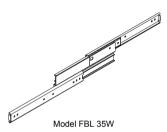
Model FBL 35D

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



Model FBL 35W

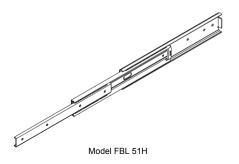
A double-slide type based on model FBL 35S that achieves a thickness of one single-slide unit.



Model FBL 51H

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

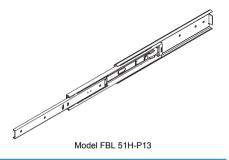
Specification Table⇒B-557



Model FBL 51H-P13

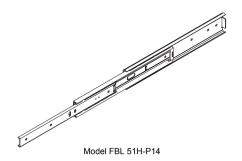
A three-rail, double-slide type that allows a long stroke. With the smallest thickness, this model can be used in a space-saving location even under a large load. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When folded, the locked 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.

Specification Table⇒B-558



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 folded, the locked state is automatically released under a certain pressure in the folding direction.

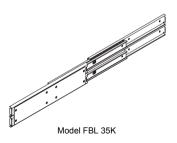


[Double Slides for Heavy Load]

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.

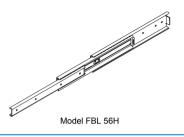
Specification Table⇒B-560



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.

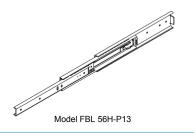
Specification Table⇒B-561



Model FBL 56H-P13

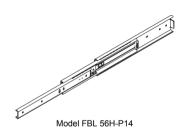
A double-slide type with the largest permissible load among the three rails. Releasing the automatic free disconnection spring attached on the inner rail allows the inner rail to be pulled out. When folded, the locked state with the disconnect spring is manually released. It is also equipped with a lock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

Specification Table⇒B-562



Model FBL 561H-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 folded, the locked state is automatically released under a certain pressure in the folding direction.

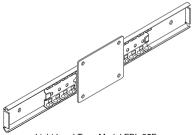


[Linear Type Slides]

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⇒B-564

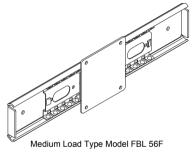


Light Load Type Model FBL 35F

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⇒B-565



Heavy Load Type Model FBL 48DR

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

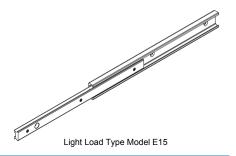


[Aluminum Alloy Slide Rail]

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.

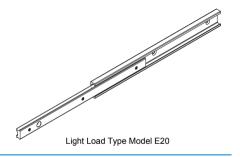
Specification Table⇒B-567



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.

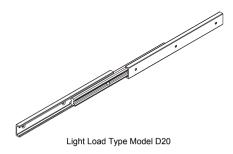
Specification Table⇒B-568



Light Load Type Model D20

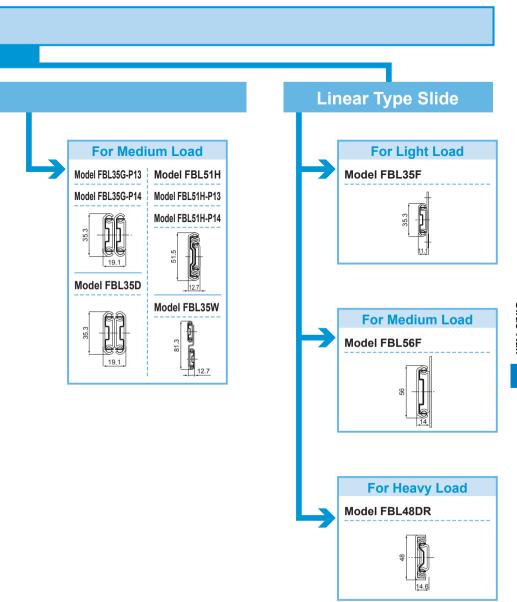
The lightest and most compact double slides in the aluminum alloy series. It is especially suitable for locations with magnetism, locations requiring antirust measures and locations where much importance is given to appearance.

Specification Table⇒B-569



Classification Table for Slide Rails

Slide Rail Double Slide Single Slide For Light Load For Light Load Model FBL27S Model FBL35J Model FBL27D | Model FBL35E-P14 Model FBL27S-P14 Model FBL35J-P13 Model FBL35J-P14 Model D20 (Made of Aluminum) Model FBI 35S Model E15 (Made of Aluminum) Model FBL35M For Heavy Load Model FBL56H Model E20 Model FBL56H-P13 (Made of Aluminum) Model FBI 35B Model FBL56H-P14 Model FBL35K For Medium Load Model FBL35T



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 buttonhead bolt or binding-head bolt (JIS B 1111 annex).

Note) For models FBL27S/27S-P14/27D, use M4 bindinghead bolt, or M3 button-head bolt or binding-head bolt.

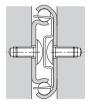
Note) For model FBL48DR, use M5×8 mounting screw. Note) For model E15. use M2.6 countersunk screw.

Note) For model E15, use M2.6 countersunk screw.

Note) For models E20 and D20, use M3 countersunk screw.

Note) For model FBL 35E. use M3 button-head bolts or bind-

ing-head bolts.



Fia.1

[Attaching the Slide Rail]

While keeping the maximum stroke, mount the outer rail at the section where the inner rail and the outer rail overlap, slide the inner rail backward, and then secure the rail using a screw through the access hole.



Fig.2

[Permissible Load and Mounting Orientation]

For use other than with the mounting orientation shown in Fig.3, 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.

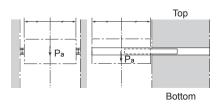


Fig.3

[Surface Treatment]

The surface of the Slide Rail is treated with electro-galvanizing (gloss chromate treatment) as standard. Colored chromate treatment and chrome plating are also available. Contact THK for details.

[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.

[Storage]

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