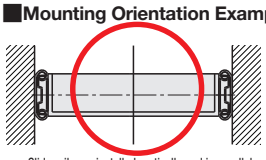
Slide Rails
Precautions for Use

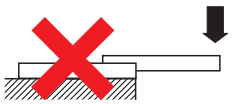
■Mounting Orientation
- Install the left side and right side slide rails in parallel, while fixing them vertically to the ground.
- Some mounting orientations may degrade load carrying performance significantly. For horizontal installation, the target value of load rating is 25% (Reference Value).
- For horizontal installation, if load more than the above reference value is applied, or if center of gravity is put over positions separated from rail center, inner rails may fall off outer rails. Please test and confirm this issue before using the product.

■Mounting Orientation Examples

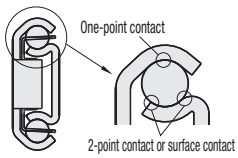

Slide rails are installed vertically and in parallel.


Slide rails are not vertically installed.


Slide rails are not horizontally aligned.

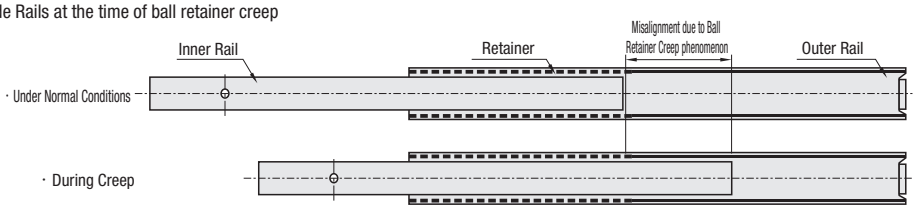

Applying loads on ends when mounted horizontally.

■Ball Retainer Creep phenomenon
- On slide rails, warpage due to machining operations prevents Ball Track Surface from forming into fully circled arch.
- Therefore, contacts between outer / inner rails and balls variously alter, and affect travel distance of these balls. Ball misalignment effect when the said travel distance changes is called Ball Retainer Creep phenomenon.
- If this misalignment occurs, more force than in normal sliding operations may be required to correct the misalignment.
- If Ball Retainer Creep phenomenon occurs, softly pull the rails back to the fully open position to correct misalignment.
- If the rails are repeatedly slid without being fully opened, the previous misalignment is not corrected, and more significant misalignment may occur.
- If unbalanced load is applied due to location deviation of grips toward one side slide rail, Ball Retainer Creep phenomenon may occur. Be careful about this upon designing.

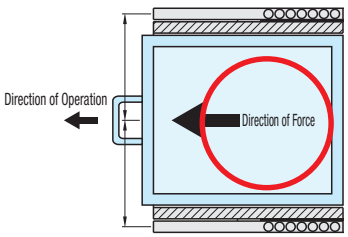


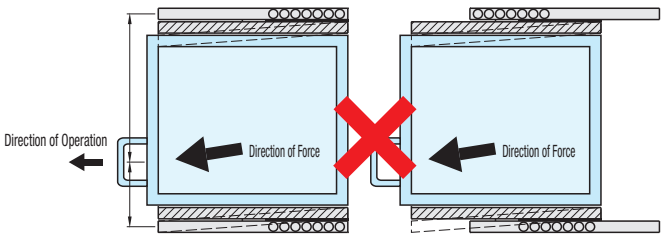
Contacts on Ball change due to difference in gravity center position, or in moving distance between right and left slides, and misalignment may result.

■Slide Rails at the time of ball retainer creep



Retainers reach their left ends of the outer rails, but misalignment prevents the product from becoming the full stroke state.
In order to resolve Ball Retainer Creep phenomenon, strongly slide inner rails to put the product in full stroke state.

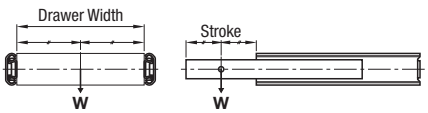




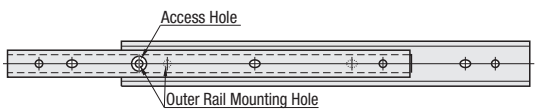
Before being pulled out

After being pulled out

■Load Rating Definition
- Rated load is a static load at the center of extended rail on drawer side.



■Mounting Method
- On areas containing conflict between rails and mounting holes, move access holes over mounting holes before mounting screws.



■Precaution about other operations
- Strong shocks while opening/closing slide rails will cause damage.
  Installation of stopper or buffer on the housing is recommended to protect slide rails from strong shocks.