

Types of the Linear Ball Slide

Types and Features

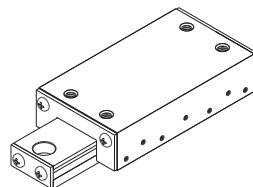
Linear Ball Slide with a Rack Model LSP

Specification Table⇒ **A9-8**

With model LSP, the cage has a rack and pinion mechanism, thus to prevent the cage from slipping.

Also, since the cage does not slip even in vertical mount, this model is used in an even broader range of applications.

Note) Do not use the stopper as a mechanical stopper.



Model LSP

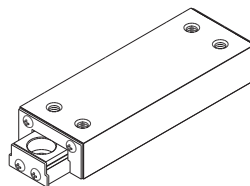
Linear Ball Slide Model LS

Specification Table⇒ **A9-10**

Model LS is a unit-type linear system for finite motion that has a structure where balls are arranged between the base and the slider via a needle roller raceway.

It is incorporated with a stopper mechanism, thus to prevent damage deformation caused by collision between the cage and the endplate.

Note) Do not use the stopper as a mechanical stopper.



Model LS

Linear Ball Slide with a Cylinder Model LSC

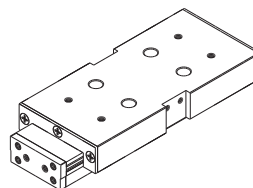
Specification Table⇒ **A9-12**

Model LSC contains an air cylinder for drive inside the base. Feeding air from the two ports on the side face of the base allows the slide to perform reciprocating motion. Since the cylinder is of double-acting type, horizontal traveling speed can be adjusted using the speed controller. The cylinder and the piston are made of a corrosion resistant aluminum alloy, and their surfaces are specially treated to increase wear resistance and durability. Additionally, the cage has a rack and pinion mechanism, thus enabling the cage to operate without slipping.

Air-feeding ports for piping are provided on one side face, ensuring a certain degree of operability and easy assembly even if the installation site has a limited space and is complex.

The table on the right shows the specifications of the air cylinder incorporated in model LSC.

Note) Do not use the stopper as a mechanical stopper.



Model LSC

<Cylinder specifications>

Type of action	Double-acting
Fluid used	air (no lubrication)
Working pressure	100 kPa to 700 kPa (1 kgf/cm ² to 7 kgf/cm ²)
Stroke velocity	50 to 300mm/s