

# Telescopic Slides

General Information



## General information

Telescopic slides offer smooth-running, wear-free, and quiet linear motion. They are used in a wide variety of applications. It ranges from the simplest extensions and drawers to high-quality versions, which are used in the industrial environment on machines, production systems, and fixtures. They have a multitude of positive features and are also particularly interesting from an economic standpoint.

Typical application examples are: sliding doors, protective covers, keyboards and PC pull-outs, vehicle equipment, storage trays, battery boxes, etc.

Telescopic slides can come with a number of equipment options. They are available for one of the two end positions but also in combination. The options are defined by the type in the part number.

## Design

Telescopic slides consist of an outer and an inner slide as well as, depending on the type or the required extension length, one or two additional middle slides. The slides are made of sheet metal, are interconnected through appropriately shaped geometry and move by means of bearing balls. A ball cage keeps the balls spaced and in position.

The slides are usually mounted with countersunk holes or through holes. Other options, such as threaded bolts or support brackets, are available on request.

With regard to the extension length, telescopic slides can be divided into three categories: partial extension, full extension, and over extension. The categories are defined by the achievable stroke  $l_2$ , which is listed in relation to the nominal length  $l_1$ .

Type of extension	Extension diagram
Partial extension: $l_1 = 100\% \rightarrow l_2 = \text{min. } 75\%$	
Full extension: $l_1 = 100\% \rightarrow l_2 = \text{min. } 100\%$	
Over extension: $l_1 = 100\% \rightarrow l_2 = \text{min. } 150\%$	

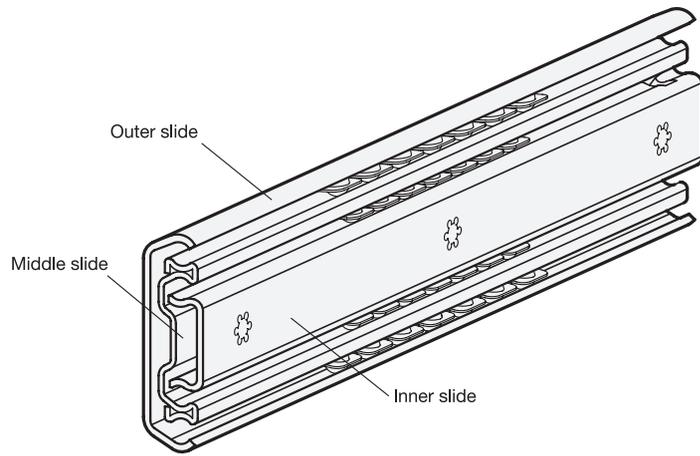
All slides have internally installed stops in the extended and retracted end position to prevent unintentional pulling apart. Depending on the available installation space and required stability, the stops are designed accordingly in a metallic form or with additional plastic or elastomer parts as a rubber stop to prevent the slides from hitting the end positions with too much force.

Furthermore, telescopic slides can come with a variety of accessory functions. Examples include locking devices, latches, detach functions, and self-retracting mechanisms, some of which are dampened. Depending on the slide version, these additional functions are available for the extended or retracted end position or in combination. In addition, customer-specific modifications regarding the mounting of the slides are possible.

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## Telescopic slides with full extension, retracted end position



## Telescopic slides with full extension, extended end position

