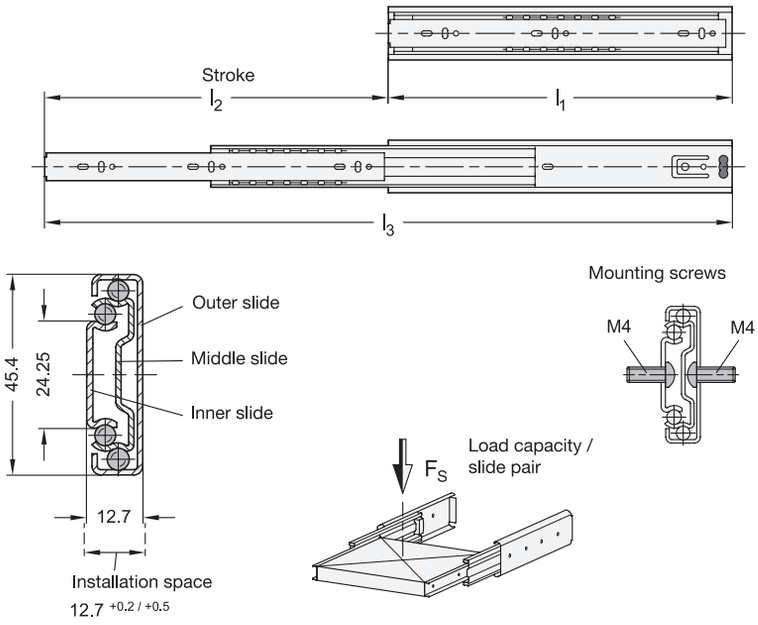


Metric

SS Stainless Steel FDA

2 Type

F With rubber stop, locking device in retracted position, detach function

3 Identification no.

1 Mounting with through holes

Metric table

Dimensions in: millimeters - *inches*

1				
l_1	l_2 $^{+3}_{-3}$ Stroke	l_3	F_s per pair at 10,000 cycles	F_s per pair at 50,000 cycles
300 *11.81*	300 *11.81*	600 *23.62*	430 N *96.67 lbf*	310 N *69.69 lbf*
350 *13.78*	350 *13.78*	700 *27.56*	450 N *101 lbf*	330 N *74.19 lbf*
400 *15.75*	400 *15.75*	800 *31.50*	480 N *108 lbf*	360 N *80.93 lbf*
450 *17.72*	450 *17.72*	900 *35.43*	480 N *108 lbf*	360 N *80.93 lbf*

1				
l_1	l_2 $^{+3}_{-3}$ Stroke	l_3	F_s per pair at 10,000 cycles	F_s per pair at 50,000 cycles
500 *19.69*	500 *19.69*	1000 *39.37*	450 N *101 lbf*	330 N *74.19 lbf*
550 *21.65*	550 *21.65*	1100 *43.31*	430 N *96.67 lbf*	310 N *69.69 lbf*
600 *23.62*	600 *23.62*	1200 *47.24*	410 N *92.17 lbf*	310 N *69.69 lbf*

Specification

4

- Slide profile and balls
  Stainless steel AISI 304 **NI**
- Ball cage, outer slide
  Plastic
- Ball cage, inner slide
  Stainless steel AISI 304
- Ruber stop and detach function
  Plastic / Elastomer
- Lubricant
  Roller bearing grease, FDA compliant
- Operating temperature -4 °F to +212 °F
  (-20 °C to +100 °C)
- *Stainless Steel Characteristics → page 2143*
- RoHS compliant

On request

- Other lengths and hole distances
- Other mounting options

Information

GN 1450 telescopic slides are installed in pairs. The stroke reaches ≈ 100 % of the nominal length l_1 (full extension).

The telescopic slides are delivered in **pairs**. They can be installed on either the left or right side due to the design. All mounting holes are easy to reach through auxiliary holes. Only the mounting holes are shown, but other production-related holes may be present.

see also...
- *List of Telescopic Slide Types → page 1856*
- *Technical Information on Telescopic Slides → page 1901*
- *Telescopic Slides GN 1410 (Steel, with Full Extension) → page 1865*

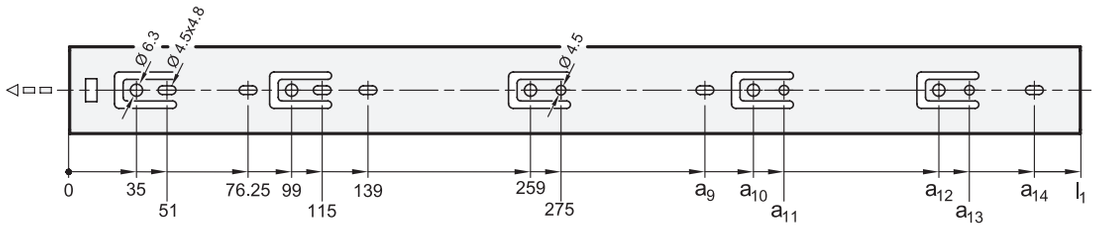
How to order

1 2 3 4

GN 1450-400-F-1-NI

1	Length l_1
2	Type
3	Identification no.
4	Material

Mounting holes - Outer slide

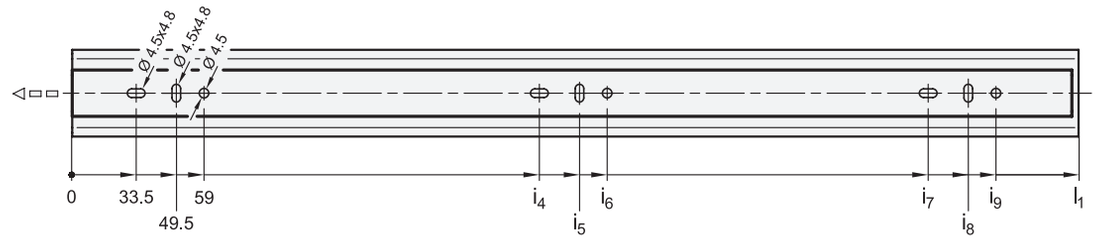


Metric table

Dimensions in: millimeters - *inches*

l_1	a_9	a_{10}	a_{11}	a_{12}	a_{13}	a_{14}
300 *11.81*	-	-	-	-	-	-
350 *13.78*	309 *12.17*	-	-	-	-	-
400 *15.75*	-	323 *12.72*	339 *13.35*	-	-	373 *14.69*
450 *17.72*	361.5 *14.23*	387 *15.24*	403 *15.87*	-	-	-
500 *19.69*	361.5 *14.23*	387 *15.24*	403 *15.87*	451 *17.76*	467 *18.39*	-
550 *21.65*	361.5 *14.23*	387 *15.24*	403 *15.87*	451 *17.76*	467 *18.39*	501 *19.72*
600 *23.62*	361.5 *14.23*	387 *15.24*	403 *15.87*	515 *20.28*	531 *20.91*	565 *22.24*

Mounting holes - Inner slide



Metric table

Dimensions in: millimeters - *inches*

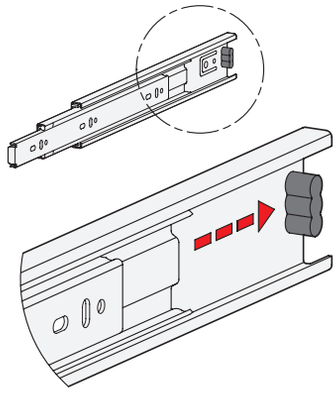
l_1	i_4	i_5	i_6	i_7	i_8	i_9
300 *11.81*	129.5 *5.10*	145.5 *5.73*	155 *6.10*	257.5 *10.14*	273.5 *10.77*	283 *11.14*
350 *13.78*	161.5 *6.36*	177.5 *6.99*	187 *7.36*	289.5 *11.40*	305.5 *12.03*	315 *12.40*
400 *15.75*	193.5 *7.62*	209.5 *8.25*	219 *8.62*	353.5 *13.92*	369.5 *14.55*	379 *14.92*
450 *17.72*	193.5 *7.62*	209.5 *8.25*	219 *8.62*	385.5 *15.18*	401.5 *15.81*	411 *16.18*
500 *19.69*	225.5 *8.88*	241.5 *9.51*	251 *9.88*	449.5 *17.70*	465.5 *18.33*	475 *18.70*
550 *21.65*	257.5 *10.14*	273.5 *10.77*	283 *11.14*	481.5 *18.96*	497.5 *19.59*	507 *19.96*
600 *23.62*	289.5 *11.40*	305.5 *12.03*	315 *12.40*	545.5 *21.48*	561.5 *22.11*	571 *22.48*

Mounting screws

For the listed loading forces F_S to be absorbed reliably in the surrounding structure, all available through holes of the outer and inner slide having a Ø of 4.5 mm must be used. Alternatively, the outer slide has holes with a Ø of 6.3 mm for metric screws. The slotted holes, Ø 4.5 x 4.8 mm, are also used for mounting and facilitate adjustment. Failure to use mounting screws reduces the specified load capacity accordingly. The following screws can be used for mounting:

Designation - Standard		Outer slide	Inner slide
Socket button head screw	ISO 7380	M 4	M 4
Phillips pan head screw	ISO 7045	M 4	M 4
Phillips pan head self-tapping screw	ISO 7049	ST 3.9 / 4.2	ST 3.9 / 4.2

Rubber stop, locking device in retracted position

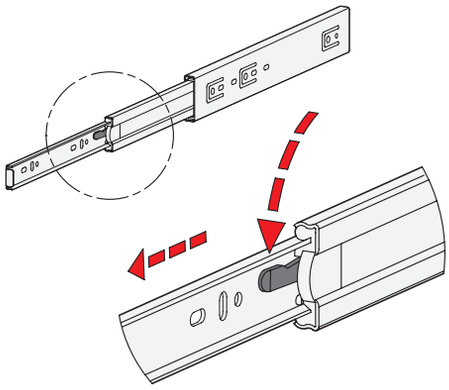


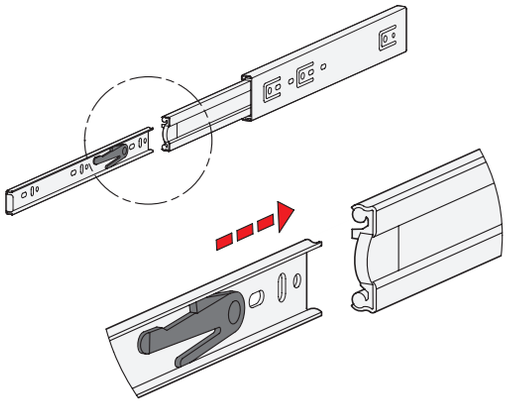
The rubber stops dampen the impact of the slide in the two end positions. This feature minimizes noise development and increases the service life. Attached to the slides in a partially concealed, partially visible manner, the stops meet each of the requirements in regards to shape, material, and hardness.

In the retracted end position, the rubber stop additionally takes on a locking function, which is noticeable through a slight resistance on opening and closing.

If larger static or dynamic loads occur in the direction of extension, they should be absorbed by additional stop elements.

Detach function





The detach function allows the extension to be completely separated from one another in the area of the middle and inner slide. This feature not only facilitates mounting, it also allows the extension to be quickly removed, for example when frequent maintenance work is performed on the components located behind.

The telescopic slide can be quickly and easily detached in the extended position through activation of the release lever, allowing the inner slide to be removed from the front.

For re-attaching the slides, the ball cages need to be moved to the extended end position. Then the inner slide is inserted to the retracted end position where it locks into place automatically.

The protected arrangement of the release mechanism prevents accidental detachment of the slide.