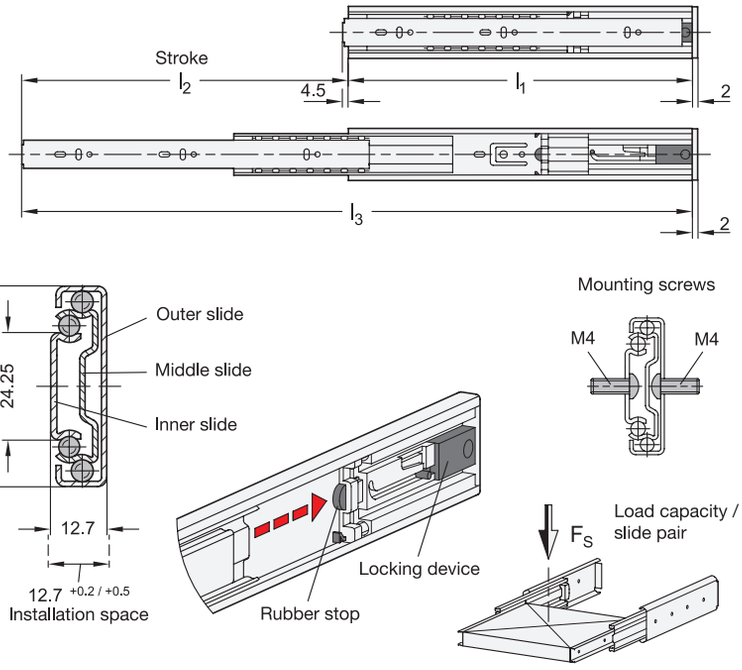
GN 1418 | Telescopic Slides

Steel, with Full Extension and Push to Open Mechanism, Load Capacity up to 96 lbf

JW WINCO® A Ganter Company



Metric

2 Type

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

3 Identification no.

1 Mounting with through holes

Metric table

1

l_1	l_2 $^{+3}_{-3}$ Stroke	l_3	F_s per pair at 10,000 cycles	F_s per pair at 100,000 cycles
350 *13.78*	350 *13.78*	700 *27.56*	380 N *85.43 lbf*	290 N *65.19 lbf*
400 *15.75*	400 *15.75*	800 *31.50*	430 N *96.67 lbf*	340 N *76.44 lbf*
450 *17.72*	450 *17.72*	900 *35.43*	430 N *96.67 lbf*	340 N *76.44 lbf*
500 *19.69*	500 *19.69*	1000 *39.37*	380 N *85.43 lbf*	290 N *65.19 lbf*

1

l_1	l_2 $^{+3}_{-3}$ Stroke	l_3	F_s per pair at 10,000 cycles	F_s per pair at 100,000 cycles
550 *21.65*	550 *21.65*	1100 *43.31*	330 N *74.19 lbf*	240 N *53.95 lbf*
600 *23.62*	600 *23.62*	1200 *47.24*	300 N *67.44 lbf*	200 N *44.96 lbf*
650 *25.59*	650 *25.59*	1300 *51.18*	300 N *67.44 lbf*	200 N *44.96 lbf*

Specification

4

- Slide profile
  Steel, zinc plated, blue passivated finish **ZB**
- Balls
  Rolling bearing steel, hardened
- Ball cage, outer slide
  Plastic
- Ball cage, inner slide
  Steel, zinc plated
- Rubber stop and detach function
  Plastic / Elastomer
- Push to open mechanism
  Steel / plastic
- Operating temperature -4 °F to +212 °F
  (-20 °C to +100 °C)
- RoHS compliant

On request

- Other lengths and hole distances
- Other mounting options
- Other finishes

Information

GN 1418 telescopic slides are installed in pairs. The stroke reaches ≈ 100 % of the nominal length l_1 (full extension). The rubber stops dampen the impact of the slide in the end position. This feature minimizes noise development and increases the service life. If larger static or dynamic loads occur in the direction of extension, they should be absorbed by additional end stops.

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 1412 (with Self-Retracting Mechanism) → page 1868*
- *Telescopic Slides GN 1414 (with Dampened Self-Retracting Mechanism) → page 1871*

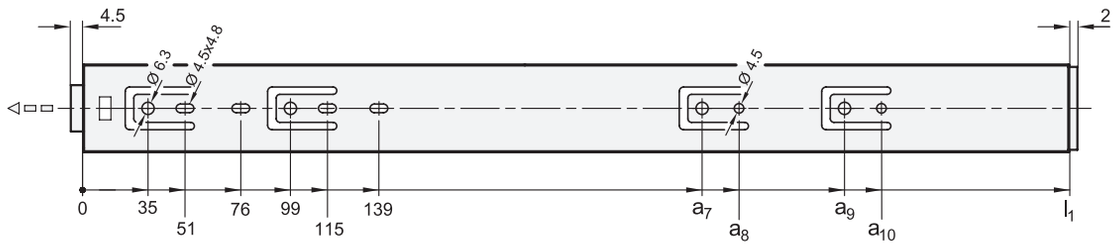
How to order

1 2 3 4

GN 1418-500-F-1-ZB

1	Length l_1
2	Type
3	Identification no.
4	Finish

Mounting holes - Outer slide

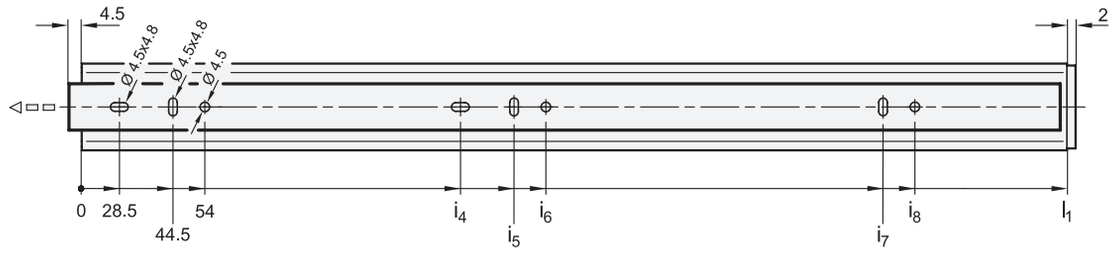


Metric table

Dimensions in: millimeters - *inches*

l_1	a_7	a_8	a_9	a_{10}
350 *13.78*	195 *7.68*	211 *8.31*	-	-
400 *15.75*	195 *7.68*	211 *8.31*	-	-
450 *17.72*	259 *10.20*	275 *10.83*	-	-
500 *19.69*	291 *11.46*	307 *12.09*	-	-
550 *21.65*	355 *13.98*	371 *14.61*	-	-
600 *23.62*	387 *15.24*	403 *15.87*	451 *17.76*	467 *18.39*
650 *25.59*	419 *16.50*	435 *17.13*	483 *19.02*	499 *19.65*

Mounting holes - Inner slide



Metric table

Dimensions in: millimeters - *inches*

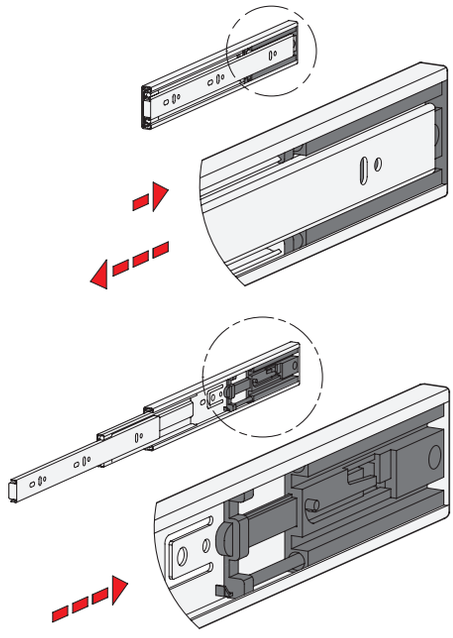
l_1	i_4	i_5	i_6	i_7	i_8
350 *13.78*	125 *4.92*	141 *5.55*	150.5 *5.93*	269 *10.59*	278.5 *10.96*
400 *15.75*	189 *7.44*	205 *8.07*	214.5 *8.44*	301 *11.85*	310.5 *12.22*
450 *17.72*	189 *7.44*	205 *8.07*	214.5 *8.44*	333 *13.11*	342.5 *13.48*
500 *19.69*	189 *7.44*	205 *8.07*	214.5 *8.44*	365 *14.37*	374.5 *14.74*
550 *21.65*	189 *7.44*	205 *8.07*	214.5 *8.44*	397 *15.63*	406.5 *16.00*
600 *23.62*	253 *9.96*	269 *10.59*	278.5 *10.96*	493 *19.41*	502.5 *19.78*
650 *25.59*	253 *9.96*	269 *10.59*	278.5 *10.96*	525 *20.67*	534.5 *21.04*

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

Push to open mechanism



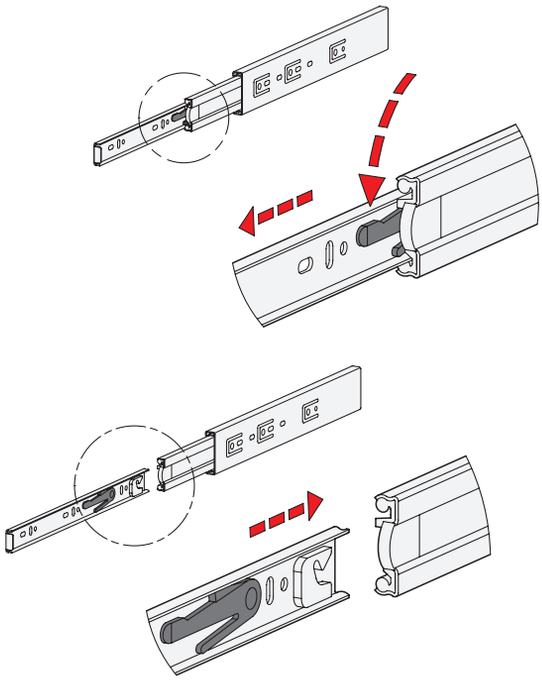
GN 1418 telescopic slides have an opening mechanism, which is referred to as “Push to Open” or “Touch to Open” mechanism. In addition to the best possible ease of use when opening an extension, this system offers the advantage to have drawers without a handle on the front side. This results in a simple and high-quality design.

The mechanism is actuated by pressing manually on the front side of the extension or drawer. The force required to activate the opening mechanism is about 40 N per slide pair. The inner slide is extended by about 4.5 mm in its basic position and can be pushed in a maximum of 8 mm in the closing direction. This is to be taken into account in the design to avoid a collision. The pressure or release point is already reached at about 3 mm, which causes the extension to slide out smoothly to about 42 mm in the opening direction after being released.

The same force has to be overcome when closing the extension. Over the last 42 mm, the travel speed is to be reduced to max. 0.15 m/s.

When closed, the slide is held in place by the opening mechanism as a type of locking device.

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.