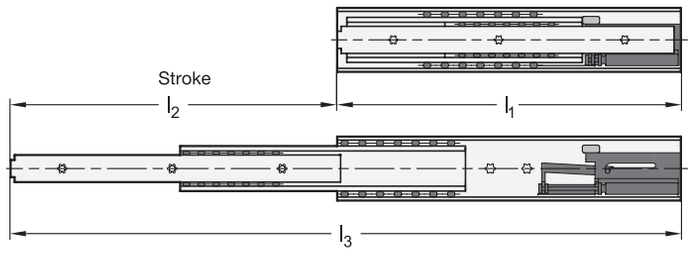
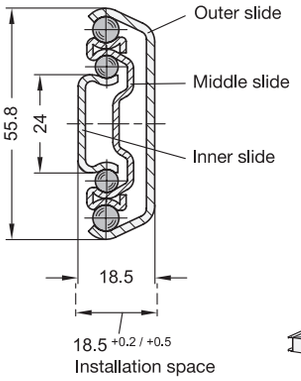
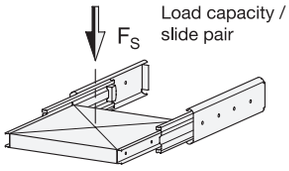
GN 1424 | Telescopic Slides

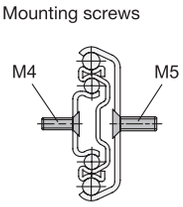
Steel, with Full Extension and Dampened Self-Retracting Mechanism, Load Capacity up to 169 lbf

JW WINCO® A Ganter Company

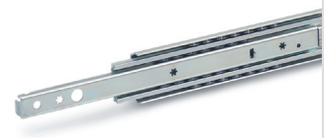








Metric



2 Type

B With rubber stop

3 Identification no.

2 Mounting with countersunk holes

Metric table

Dimensions in: millimeters - *inches*

1 l_1	l_2 $^{+4}_{-4}$ Stroke	l_3	F_s per pair at 10,000 cycles	F_s per pair at 100,000 cycles
350 *13.78*	335 *13.19*	685 *26.97*	650 N *146 lbf*	570 N *128 lbf*
400 *15.75*	400 *15.75*	800 *31.50*	750 N *169 lbf*	680 N *153 lbf*
450 *17.72*	451 *17.76*	901 *35.47*	750 N *169 lbf*	750 N *169 lbf*
500 *19.69*	506 *19.92*	1006 *39.61*	750 N *169 lbf*	750 N *169 lbf*

1 l_1	l_2 $^{+4}_{-4}$ Stroke	l_3	F_s per pair at 10,000 cycles	F_s per pair at 100,000 cycles
550 *21.65*	555 *21.85*	1105 *43.50*	750 N *169 lbf*	750 N *169 lbf*
600 *23.62*	612 *24.09*	1212 *47.72*	750 N *169 lbf*	750 N *169 lbf*
700 *27.56*	700 *27.56*	1400 *55.12*	750 N *169 lbf*	750 N *169 lbf*

Specification

4

- Slide profile
  Steel, zinc plated, blue passivated finish **ZB**
- Balls
  Rolling bearing steel, hardened
- Ball cage
  Steel, zinc plated
- Rubber stop
  Plastic / Elastomer
- Self-retracting mechanism, dampened
  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
- With locking device (in extended position)
- Other finishes
- With support bracket

Information

GN 1424 telescopic slides with dampened self-retracting mechanism 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 1422 (with Self-Retracting Mechanism) → page 1879*
- *Telescopic Slides GN 1432 (with Self-Retracting Mechanism) → page 1889*

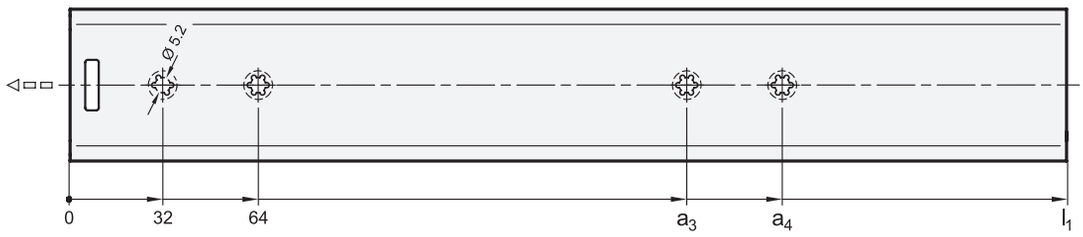
How to order

1 2 3 4

GN 1424-400-B-2-ZB

1	Length l_1
2	Type
3	Identification no.
4	Finish

Mounting holes - Outer slide

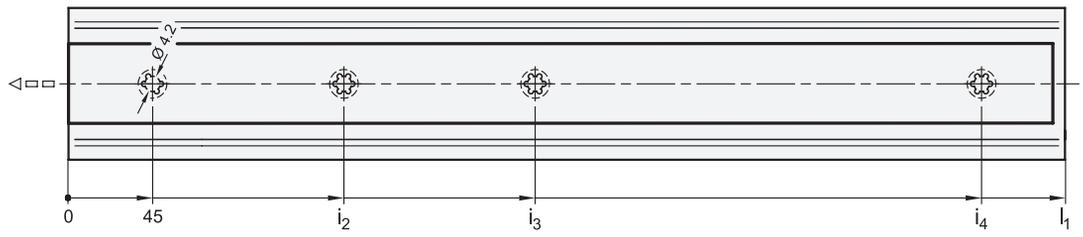


Metric table

Dimensions in: millimeters - *inches*

l_1	a_3	a_4
350 *13.78*	192 *7.56*	224 *8.82*
400 *15.75*	224 *8.82*	256 *10.08*
450 *17.72*	288 *11.34*	320 *12.60*
500 *19.69*	320 *12.60*	352 *13.86*
550 *21.65*	352 *13.86*	384 *15.12*
600 *23.62*	416 *16.38*	448 *17.64*
700 *27.56*	448 *17.64*	480 *18.90*

Mounting holes - Inner slide



Metric table

Dimensions in: millimeters - *inches*

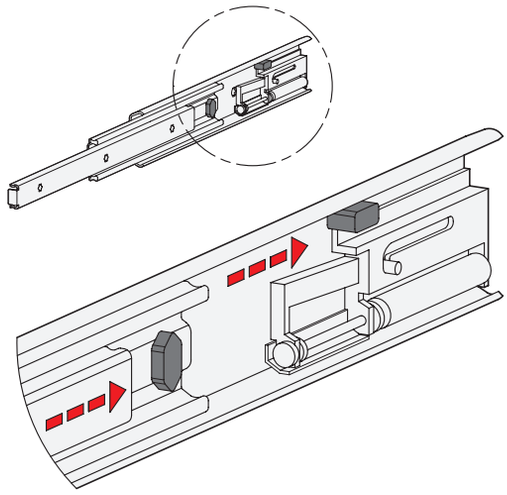
l_1	i_2	i_3	i_4
350 *13.78*	173 *6.81*	301 *11.85*	-
400 *15.75*	173 *6.81*	333 *13.11*	-
450 *17.72*	205 *8.07*	397 *15.63*	-
500 *19.69*	237 *9.33*	461 *18.15*	-
550 *21.65*	269 *10.59*	493 *19.41*	-
600 *23.62*	173 *6.81*	301 *11.85*	562 *22.13*
700 *27.56*	173 *6.81*	333 *13.11*	653 *25.71*

Mounting screws

For the listed loading forces F_S to be absorbed reliably in the surrounding structure, all available countersunk holes of the outer and inner slide must be used. 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 countersunk head screw	DIN 7991	M 5	M 4
Phillips countersunk flat head screw	DIN 965	M 5	M 4
Phillips countersunk flat head self-tapping screw	DIN 7997	Size 5	Size 4 / 4.5

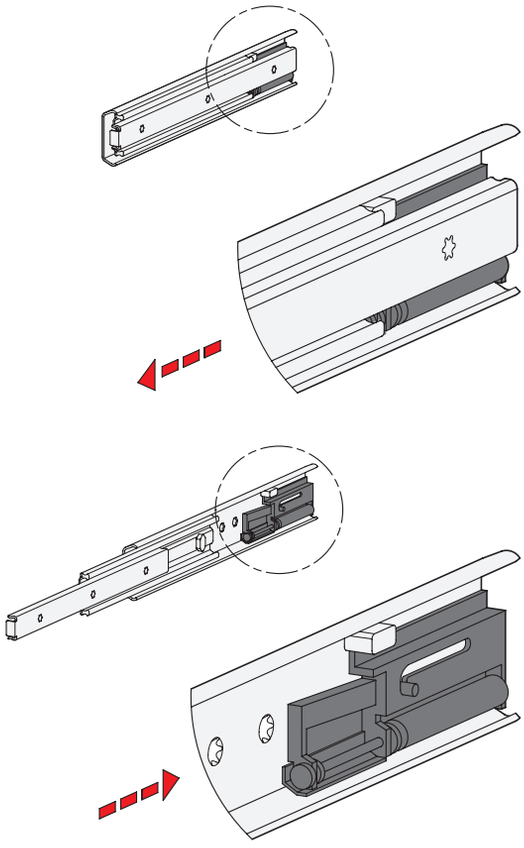
Rubber stop



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.

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

Self-retracting mechanism, dampened



GN 1424 telescopic slides have a dampened self-retracting mechanism, which is also called “soft-close”. The dampened self-retracting mechanism is divided into two main functions and provides the best possible ease of use when closing the extension.

On the one hand, the self-retracting mechanism automatically retracts the slides on the last 40 mm of stroke to the retracted end position, where they are held in place accordingly. The retraction force is about 35 newtons per slide pair. On the other hand, the closing movement on the mentioned stroke is slowed down by the damping mechanism and thus reduces the speed considerably. An extremely smooth and gentle closing movement is achieved. This retraction force has to be overcome accordingly when opening the extension.

The dampened self-retracting mechanism is designed for load values up to 75 kg based on 60,000 cycles (LGA standard). Proper use, such as reducing the travel speed to max. 0.15 m/s when the retraction mechanism is reached, as well as compliance with the load values are required.