

Elevating

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Spiral elevator

The Spiral elevator is a compact and high throughput solution for up or down elevation.

No controls are needed. The Spiral provides a continuous product flow and is as simple and reliable as a normal straight conveyor.

The compact spiral-shaped track is the key to its unique compact construction that saves valuable floor space.

The application range is wide, from the handling of individual parcels or totes to handling of packed items such as shrink-wrapped bottle packs or cartons.

The Spiral elevator is applied in filling and packing lines.

Principles of operation

The purpose of the Spiral elevator is to transport products / goods vertically to bridge a difference of height or to function as buffer zone.

Technical specifications

- 500 mm inclination per winding (9 degree)
- 3-8 windings for the Standard Spiral elevator and for Fast track Spiral elevator, 3-4 windings.
- 1000 mm center diameter
- Speed 5-60 meter/minute
- Lower height:
600, 700, 800,900 or 1000
Adjustable -50/+70 mm
- Max load 10 Kg/m
- Max product height is 300 mm
- Drive and idler ends are horizontal
- Chain width 100 mm
- Friction top chain
- Steel chain with bearings running on the inner guide rail
- Column diameter 160 mm
- M8 thread for guide rail

Note! End drive unit is always at the top of the spiral.



Standard features (not included)



- Standard guide rail brackets
- Plastic guide rail
- SEW gearmotor type SA37/SA47

Ordering information

Use online configurator when ordering.

PO
CC
X45
XS
X65
X65P
X85
X85P
XH
XK
XKP
X180
X300
GR
CS
XT
HU
WL
WK
XC
XF
XD
ELV
CTL
FST
TR
APX
IDX

Spiral elevator

Spiral elevator

Ordering information

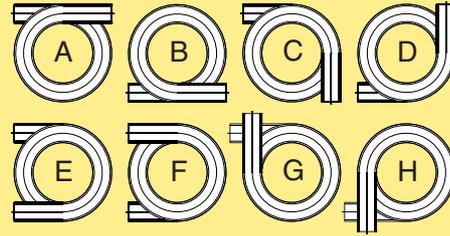
Example of a string obtained from the configurator:

Item no	A	B	C	D	E	F	G	H	I						
5995512	100	-	1000	-	500	-	S	A	TU	-	800	-	3	-	25

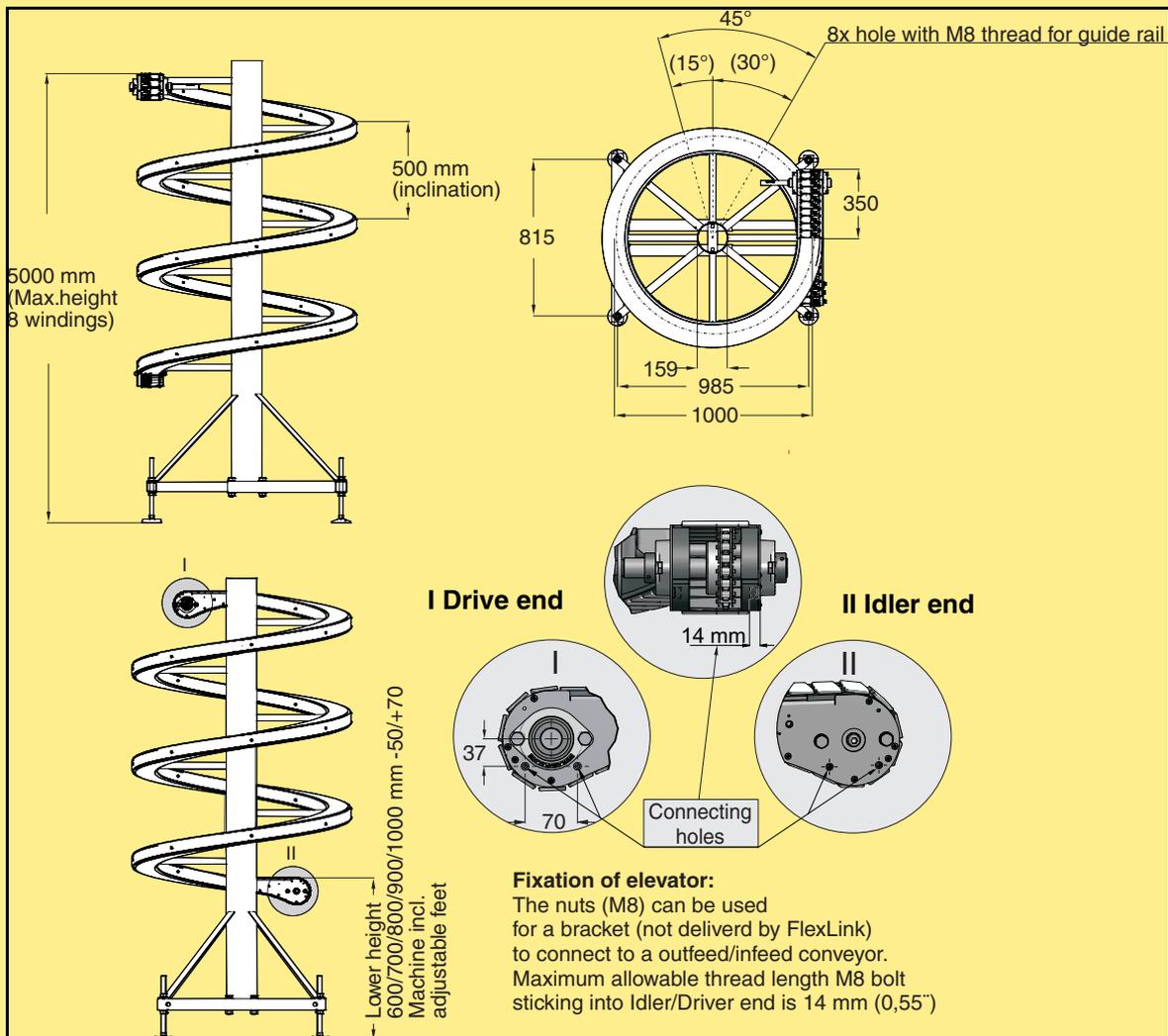
5995512- Item number (Standard)

- A Chain width
- B Spiral center of chain diameter
- C Incline per winding
- D Mild steel (S) material configuration
- E Configuration e.g. A
- F Transport direction up/down TU or TD
- G Lower height 600/700/800/900/1000
- H Number of windings 3-8 (Standard)
- I Shaft diameter 20 mm (SA37), 25 mm (SA47) and 30 mm (SA47)

In/ Out Feed Configurations



Spiral elevator, Standard



Spiral elevator (Standard) **5995512**
 Lower height 600, 700, 800, 900 or 1000 mm

Use online configurator when ordering.

Spiral elevator, Compact X85

FlexLink's new compact X85 spiral elevator is a high throughput solution for up or down elevation.

The compact spiral-shaped track is the key to its unique small footprint that saves valuable floor space.

The application range is wide, from handling individual parcels or totes to packed items such as shrink-wrapped bottle packs or cartons.

The Spiral Elevator features FlexLink's high friction plastic top chain and the ultra resistant slide rail with low friction and low wear. The solution ensures smooth running, low noise and a long service life. Horizontal in- and outfeed sections make transfers to and from connecting conveyors easy.

Ideal applications include the elevation and lowering of:

- Packed or non packed products
- Product carriers, i.e. pucks
- Small boxes and crates
- Product sizes up to 300x175x200 mm -(LxHxW)

If $L \leq 200$ mm, max $W = 200$ mm

If $200 < L \leq 300$ mm, max $W = 160$ mm

Note! This spiral elevator is not suited for product accumulation.

Principles of operation

The purpose of the Spiral elevator is to transport products/ goods vertically in a small footprint to bridge a difference of height or to create a walkway in a plant to allow operator access.

Technical specifications

- 300 mm inclination per winding (11 degree)
- 500 mm center diameter
- Speed 10, 20, 30, 40, 50 meter/minute
- Lower height 900 mm
- Top height

Configuration: A/B - 2150, 2450, 2750 mm

C/D - 2225, 2525, 2825 mm

E/F - 2300, 2600, 2900 mm

- Max load

Windings	Max load/meter	Upper height mm
4, 4,25, 4,5	2kg	2150, 2225, 2300
5, 5,25, 5,5	1,5 kg	2450, 2525, 2600
6, 6,25, 6,5	1kg	2750, 2825, 2900

- Max product height is 175 mm
- Upper and lower drive ends are horizontal
- Chain width 85 mm
- Friction top chain, Flat friction top chain or Cleated chain with ball bearings.

- T-slot for guide rail
- Control box including motor soft starter, motor protection and disconnect switch.
- Cabling between control box and drive units installed.

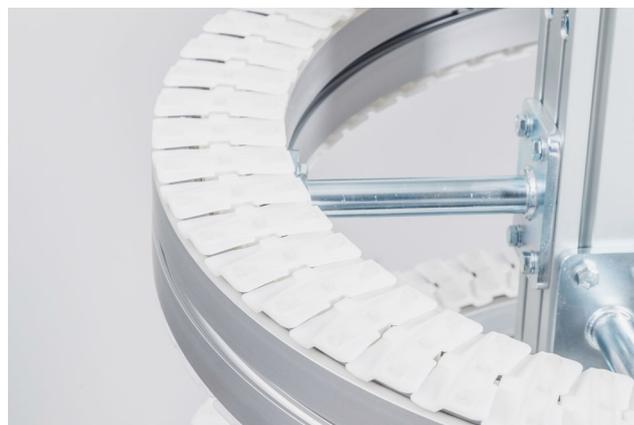
Note! End drive unit at both ends of the spiral.



Note! The control box contains no equipment for start and stop. It does not contain a 24V_{DC} power supply or any industrial controller.

Standard features (not included)

- Standard guide rail brackets
- Plastic guide rail

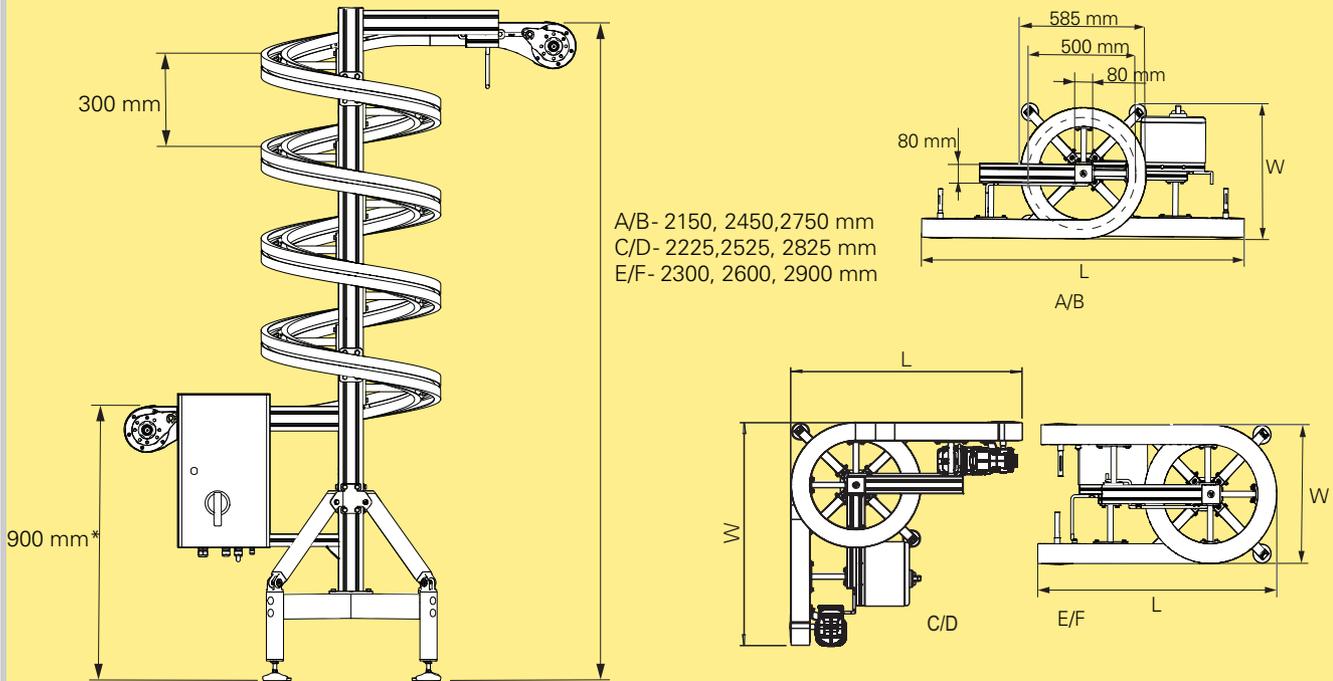


Ordering information

Use online configurator when ordering.

PO
CC
X45
XS
X65
X65P
X85
X85P
XH
XK
XKP
X180
X300
GR
CS
XT
HU
WL
WK
XC
XF
XD
ELV
CTL
FST
TR
APX
IDX

Spiral elevator, Compact X85

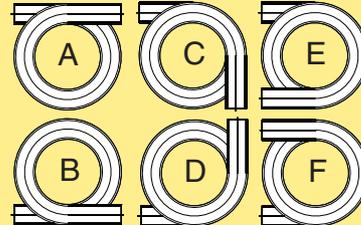


Configuration	A/B	C/D	E/F
Footprint L x W [mm]	1500 x 585	1040 x 1040	1050 x 585

Spiral elevator, Compact X85
*Lower height

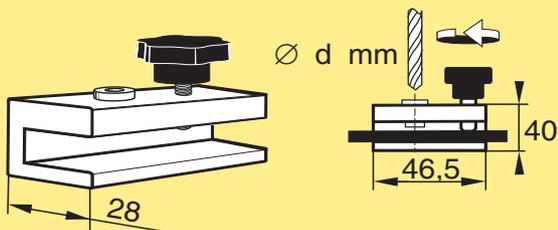
In/out configuration

5131024 A
5131025 B
5130008 C
5130009 D
5131026 E
5131027 F



Use online configurator when ordering.

Drill fixture



Drill fixture for Spiral Elevator,
Compact X85, slide rail

5130729

d=3,2 mm

Friction top chain

Friction top chain
 Length 3 m
 Right **FLX1000776**
 Left **FLX1000774**

Friction top link kit* **FLX1000744**

*Right/left: Bearings mounted on right/left side of link, considering chain forward direction.
 Link kit contains 10 links, 10 pivots, 10 steel pins, 10 bearings and 10 pins for the bearings.

Cleated chain

Cleated chain
 Length 3 m
 Right **FLX1006080**
 Left **FLX1006081**

Cleated link kit* **FLX1006078**

*Right/left: Bearings mounted on right/left side of link, considering chain forward direction.
 Link kit contains 10 links, 10 pivots, 10 steel pins, 10 bearings and 10 pins for the bearings.

Flat friction top chain

Flat friction top chain
 Length 3 m
 Right **FLX1005963**
 Left **FLX1005964**

Flat friction top link kit* **FLX1005969**

*Right/left: Right/left: Bearings mounted on right/left side of link, considering chain forward direction.
 Link kit contains 10 links, 10 pivots, 10 steel pins, 10 bearings and 10 pins for the bearings.

Plain chain

Plain chain
 Length 3 m
 Right **FLX1007997**
 Left **FLX1007998**

Plain link kit* **FLX1008000**

*Note: Only to be used for downward transports, allowing buffering.
 Note: Transported products with low friction against the chain might give an unintentional easy slide.*

*Right/left: Bearings mounted on right/left side of link, considering chain forward direction.
 Link kit contains 10 links, 10 pivots, 10 steel pins, 10 bearings and 10 pins for the bearings.

Plastic pivot for chain

Plastic pivot kit, spiral elevator **FLX1008922**
 Spare parts kit, 25 pcs

