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Product datasheet

ISO high-speed sectional door (Helix)
(PDAH)

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ISO high-speed sectional door (Helix)

Type: PDAH

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General information

The Helix is brand-new in our product range: It is a superfast highly insulated sectional door equipped with special rolls that reduce operation noise to a minimum.

Traditionally, two doors are often mounted in frequently used exterior openings; an insulated door for use at night and a high speed door that is used during the day.

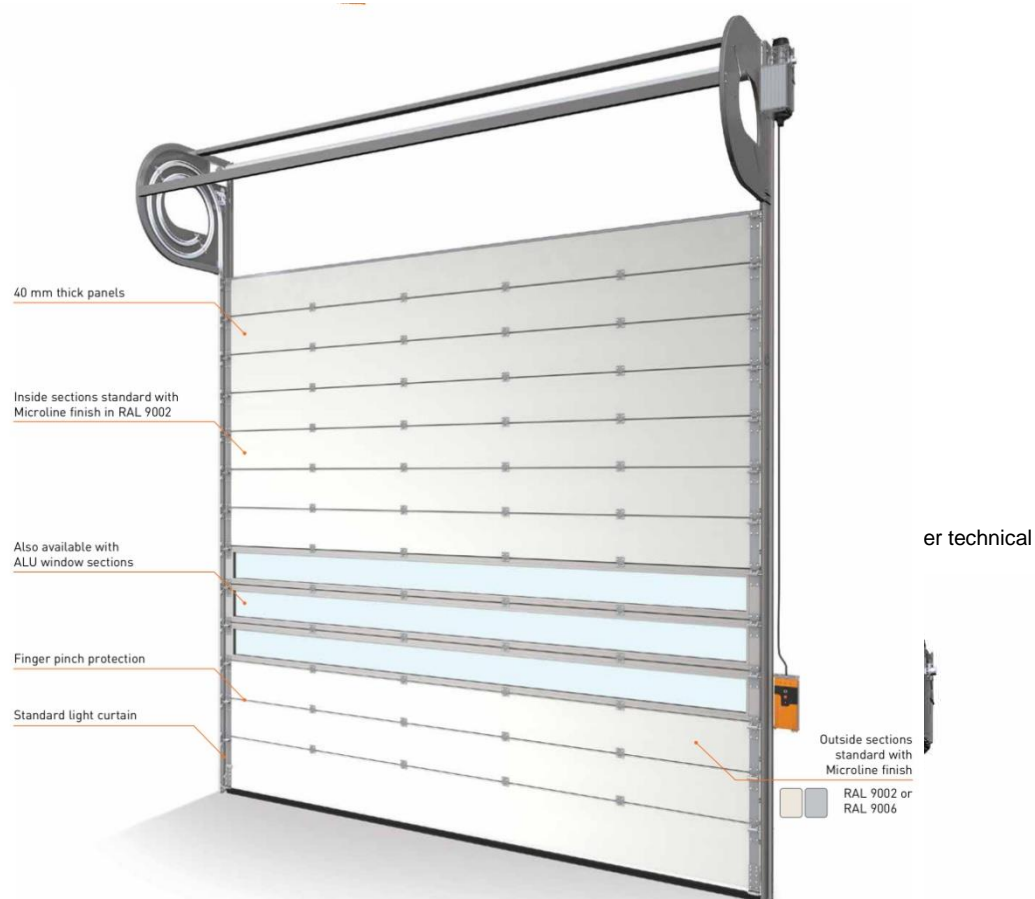
The new Helix combines the best of both worlds in a single product. An investment that pays for itself in next to no time!

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Dimensions

max. width	5000 mm
max. height	5000 mm
max. surface area	25 m ² (350 kg)
openingspeed	1,1 m/s
closingspeed	0,5 m/s
section thickness	40 mm
section joint	Finger-pinch-protection
ALU-sections possible	ja

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μ value at 5.000 x 5.000 mm	1,5 W/m ² K (complete ISO)
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Features and benefits

- Low maintenance (200,000 cycles) springless system
- Pre-running safety edge or light-grid (no wiring on the door leaf)
- Class 3 wind load
- High insulation value
- Quick and simple installation because of pre-assembled track and drive system
- High opening speed

Components and construction

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The Helix is a high speed spiral door which consists of Microline sections with a working height of 366 mm. During the opening of the door the sections run along a spiral-shaped rail. A powerful drive allows the door to quickly and silently run along the unique rail system.

Materials

- horizontal sandwich-sections consisting of an outer and inner shell of aluminium with a CFC-free polyurethane (PUR) core with finger-pinch-protection
- standard section height 366 mm
- panel thickness 40 mm
- rails made of sendzimir galvanized steel
- vibration-free rollers with ball bearings
- middle hinges in galvanized version
- mounting of door fittings with electrolytically galvanized parkers with serrated fixed ring

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- specially developed top and bottom sealing
- unique side seal
- seal between the panels of insulating material

Surface treatment

- the outside of the sections has a polyester-coating in RAL9002 (Off-white) or RAL9006 (aluminium silver)
- the inside of the sections has a polyester-coating in RAL9002 (Off-white)

Window options

The Helix is also available with one or more sections made of anodized aluminum profiles, filled with insulating double glazing.

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Drive

The door is powered by an electric motor with gear unit. Drive side on the right or left.

Technical details electric drive

Power 3 x 400 V N, PE/50Hz/16A
degree of protection IP 65

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Protection

- EN13241-1 compliant
- safety light curtain (IP65 and to max. height 2500 mm). If this curtain is interrupted by an obstacle the door will automatically
- fully open until the screen is freed again. This does not apply to the door in closed position.
- the door can be manually opened in the case of a power loss
- finger-pinch-protection

Control and operation

The control system has 3 buttons (open-stop-close) and regulates a multitude of functions such as:

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- adjustable open time
- service and run mode
- 7-segment display for controlling the various functions
- choice of permanently open or permanently shut

Options / accessories

Control and operation

- additional controls as described above available at surcharge
- control box directly wired (control box IP65)
- main switch directly wired on the control box (IP65)

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Protection

- leading photocell instead of a lightcurtain (no wiring on the door leaf)
- connection of traffic lights (red/green or red and green)
- Warning flash light (orange or red)

Construction

- customer-specified RAL coating on inside and/or outside of the sections (with the exception of fluorescent and traffic colours)
- separate 'wicket door', next to the Helix door

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