Sentry Automation Ltd

HELIX

High-speed insulated spiral door

UP TO 1.1 m/s OPENING | **40mm INSULATED PANELS** | **SPRINGLESS DESIGN**



SPACE-SAVING SPIRAL

Sections rise into a compact spiral-shaped track above the opening.

INSULATED CONSTRUCTION

40mm steel sandwich panels with a CFC-free polyurethane core.

STANDARD PROTECTION

Finger-pinch protection and a safety light curtain up to 2,500mm high.

GLAZING OPTIONS

Aluminium window sections with insulating double glazing are available.

CHOICE OF FINISH

Microline finish; standard exterior colours RAL 9002 or RAL 9006.

Designed for busy logistics routes, the Helix combines rapid opening with insulated panels and a compact spiral track. A direct-drive motor with frequency converter operates a continuous chain/steel-cable system, with no balancing springs. Pre-assembled track and drive components simplify installation.

5,000 × 5,000mm	25m²	1.77 W/m²K
Maximum width × height	Maximum door area	U-value at 5 × 5m, ISO panels

Supply only • Installation • Repairs • Planned servicing

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HELIX / Specification

DIMENSIONS & PERFORMANCE

Maximum width / height	5,000mm / 5,000mm
Maximum area / mass	25m² / 350kg
Opening / closing speed	Up to 1.1m/s / 0.5m/s
Panel / section height	40mm / 366mm
U-value (complete ISO)	1.77 W/m²K at 5,000 × 5,000mm
Wind load resistance	Class 2-3 to EN 12424
Product conformity	EN 13241

CONSTRUCTION & SEALING

Galvanised steel outer and inner panel skins with a CFC-free PUR core and finger-pinch-protected joints. Microline sections have a 366mm working height.

Sendzimir-galvanised tracks, ball-bearing rollers and galvanised centre hinges. Fittings use electro-galvanised self-tapping screws with serrated fixed rings. Dedicated top, bottom and side seals, plus wind- and watertight seals between panels.

FINISHES & WINDOWS

Standard polyester-coated exterior: RAL 9002 (off-white) or RAL 9006 (aluminium silver). Interior: RAL 9002. Microline finish inside and outside.

One or more anodised aluminium sections with insulating double glazing can be specified. Customer RAL colours inside and/or outside are optional; fluorescent and traffic colours are excluded.

DRIVE & ELECTRICAL

Geared electric motor with frequency converter; drive can be fitted on either side.
Supply: 400V, 3 phase / N + PE, 50Hz, 16A.
Drive protection: IP65.
Controls: TS971 / TS981 / T100R FU.

SAFETY & MANUAL OPERATION

Standard IP65 light curtain up to 2,500mm high. Interruption causes the door to reopen fully and remain open until clear; this does not apply when the door is closed. Finger-pinch protection is included. Manual opening is possible during power loss.

CONTROL & ACTIVATION

Open-stop-close buttons, adjustable hold-open time, service/run modes, 7-segment display and permanent open/closed selection.

Optional activation: push-button, keypad, pull switch, key switch, photocell, radar, induction loop or remote control.

SITE REQUIREMENTS

Structural and dimensional drawings are available on request. The required 400V socket provision for the drive/control box is within 0.5m, at 1,500mm height, beside the door on the left or right.

The control box is IP54 with the standard CEE plug. Direct wiring and an IP65 main switch arrangement are optional.

OPTIONS & ACCESSORIES

Additional activation controls, red/green traffic lights and orange or red warning lights. Options are subject to additional cost and specification confirmation.

To quote: send opening dimensions, available headroom and side room, site photographs, postcode, power details, preferred finish and activation requirements.

Based on manufacturer literature dated May 2024. Maximum speeds depend on door size. Confirm dimensions, performance, controls, structural provisions and current availability with your quotation. Technical changes reserved.

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