

# UN 941

## Hydraulic lift With 2 side columns



### WHY CHOOSE THIS LIFT?

Our hydraulic lift UN\_941 is designed to safely transport individuals with mobility impairments between different levels. It operates with two side columns that guide the platform's movement. Thanks to its compact design, it offers open-through access, while minimizing space requirements.

### CONTACT US

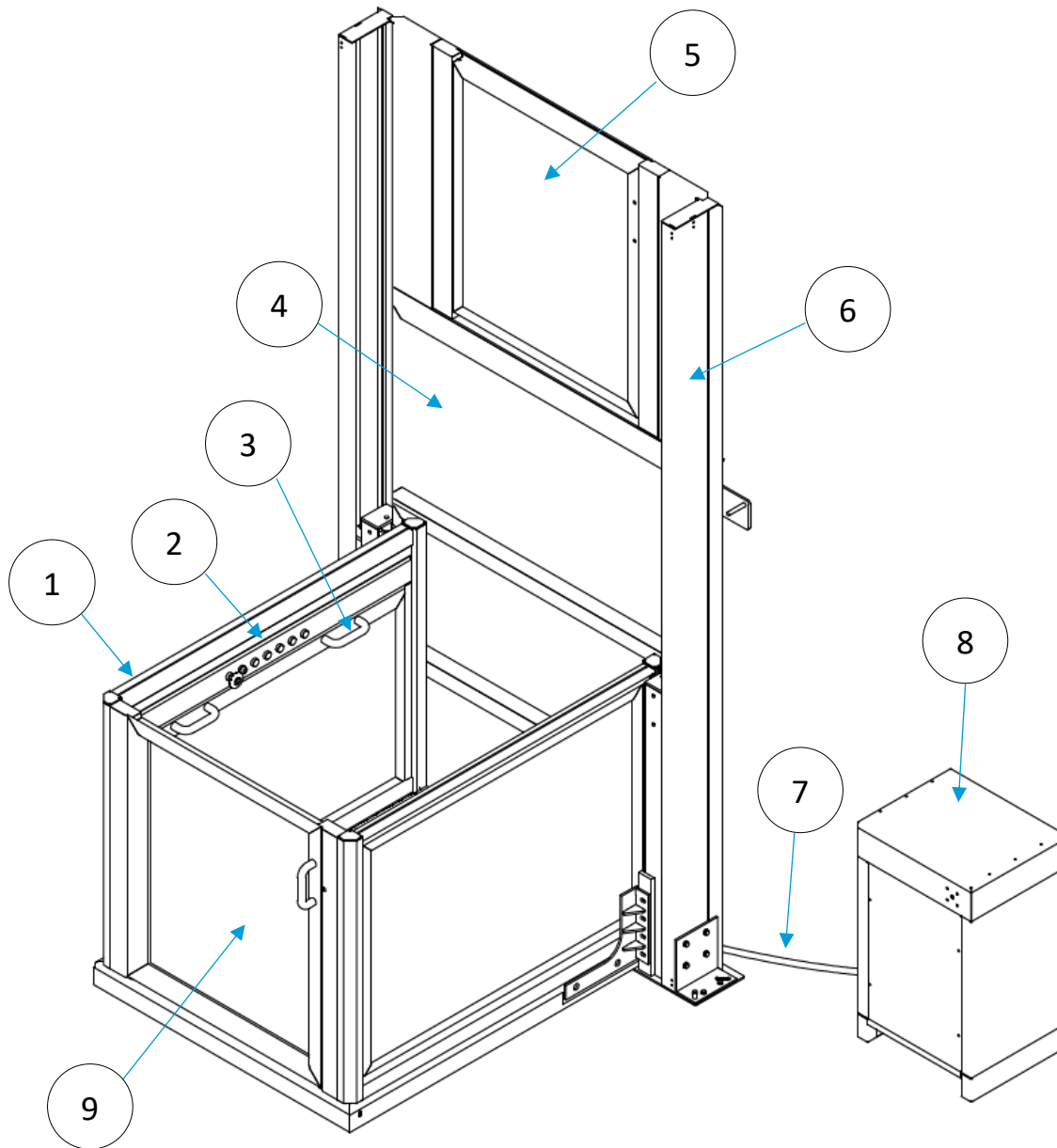
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## PRODUCT DESCRIPTION



## INFORMATION

1. **Cabin - Height 1100mm:** The cabin is equipped with safety railings at a height of 1100mm to ensure user safety and minimize the risk of accidental falls during operation.
2. **Cabin Operation Panel (COP):** It includes buttons to move the lift up and down, an emergency stop, alarm, and a key switch to restrict access to authorized users only.
3. **Handrails:** Sturdy supports installed inside the lift cabin to provide passengers with stability and safety during movement.
4. **Aluminium Protective Barrier:** Designed to prevent users from accidentally stepping off the platform while it is in motion, particularly in cases where there is no wall on the exit side. Level doors are seamlessly integrated into the barrier.
5. **Level Door:** It is installed at the upper stop to prevent accidental entry into the lift area when the platform is not at that level. The door is available in two height options: 1100 mm or 2000 mm with left or right hinge.
6. **Columns:** Two aluminium side columns guide the platform's vertical movement with stability and precision. Each column incorporates a hydraulic cylinder that delivers smooth lifting and lowering.
7. **Rubber Hose:** Flexible tubing used to transport hydraulic fluid within the system.
8. **Cabinet:** It includes the hydraulic unit along with the control panel.
9. **Door On the Platform - Height 1100mm:** It ensures that users remain safe inside the lift while in motion and prevents accidental movement outside the designated area. The door can be left or right hinged.

## SPECIFICATIONS

- **Rated Load: 420 kg**
- **Stops: 2 / 3**
- **Total Travel Height: Max 4200 mm**
- **Closed Machine Height - Pit Requirements: 110 mm**
- **Standard Platform Sizes: Type A, B, C and D**  
The lift is available in 4 standard sizes to suit different space needs.
- **Platform Clear Dimensions:**
  - Type A: 815 x 1210 mm**
  - Type B: 1015 x 1210 mm**
  - Type C: 1115 x 1480 mm**
  - Type D: 1115 x 1600 mm**
- **Access configurations: Open through, Same side**
- **Speed: 0.08 m/s**
- **Motor: 2 Hp / 220 V**
- **Hydraulic Cylinder: 2-pieces**
- **Rod: 2-pieces**
- **Rubber hose and cable length: 3 m**
- **Certified under Machinery Directive 2006/42/EC**

## STRUCTURAL MATERIALS AND FINISH

The lift is constructed using high-quality, corrosion-resistant materials, carefully selected for durability, strength, and aesthetic integration in both **indoor** and **outdoor environments**

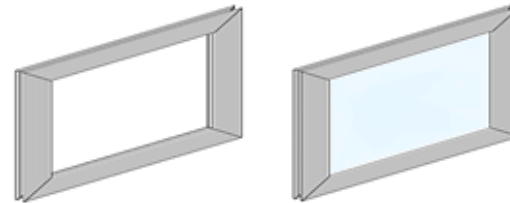
- **Columns, Cabin & Doors:** Constructed from durable, lightweight aluminum profiles.
- **Cabin Floor:** Anti-slip surface made of corrosion-resistant anodized aluminum sheet, ensuring minimal wear over time.
- **All steel parts** are hot-dip galvanized for long-term protection against corrosion.

- **Standard Finish: NEOKEM AMMOS 7040**  
(Other RAL colours are available upon request)



## CABIN AND DOORS LAYERING

There are three available options for the layering of the cabin and doors, tailored to your requirements and preferences:



- **Polycarbonate Sheets - Milky White**
- **Triplex Glass**

## BENEFITS

**Enhanced Accessibility** – Provides a safe and easy way for everyone to move between different levels.

**Small pit requirement** – The lift can be installed with a shallow pit, or even without one when combined with a ramp.

**User Safety** – All safety measures are carefully implemented to ensure maximum protection and peace of mind during every use.

**Suitable for Both Outdoor and Indoor Use** – Versatile installation options to fit your needs.

**Easy to Use** – Hold-to-run controls and user-friendly technologies ensure simple and safe operation for everyone.

**Durability & Reliability** – Built with high quality materials for long-lasting performance and minimal maintenance.

## SAFETY FEATURES

**Battery Operated Evacuation** – Allows safe descent during a power failure.

**Parachute Valve** – Stops sudden descent if the hydraulic hose fails.

**Hold-to-Run Buttons** – Ensures movement only while the button is pressed.

**Electromechanical Door Locks** – Keeps doors securely closed during operation.

**Anti-Slip Floor** – Provides a stable, non-slip surface for user safety.

**Emergency Stop Button** – Instantly stops the lift in case of an emergency.

**Overload Protection (Overpressure Valve)** – Stops operation if the lift exceeds weight limits.

**Anti-crushing protective surface integrated under platform floor** – Prevents entrapment by stopping the lift if an obstacle is detected underneath.

**Photocells on the open exit side of the cabin** – Automatically stop movement when something is in the way.

**Terminal Switches** – Ensure precise stopping at each landing and automatically stop the lift at the upper to prevent overtravel.

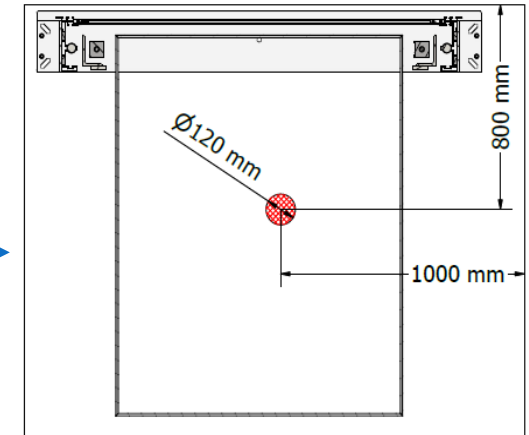
**Electronic Engine Control (PCB)** – Ensures precise and reliable operation of the lift through advanced control technology.

## CONSTRUCTION REQUIREMENTS

### Pit Requirements

- **Minimum Pit Depth:** 110mm
- **Flat, level surface** with proper drainage to avoid water accumulation.

This is a typical drawing indicating the suggested drainage position in relation to the base frame of the machine



### Load - Bearing Surface

- The base must support the **total load** (rated load + lift weight), typically **over 600 kg**.
- **A concrete base** is recommended for durability and stability.

### Accessibility Provisions

- **Ramp** if there's no pit (optional but useful).
- **Clear access path** to the platform, without obstructions.

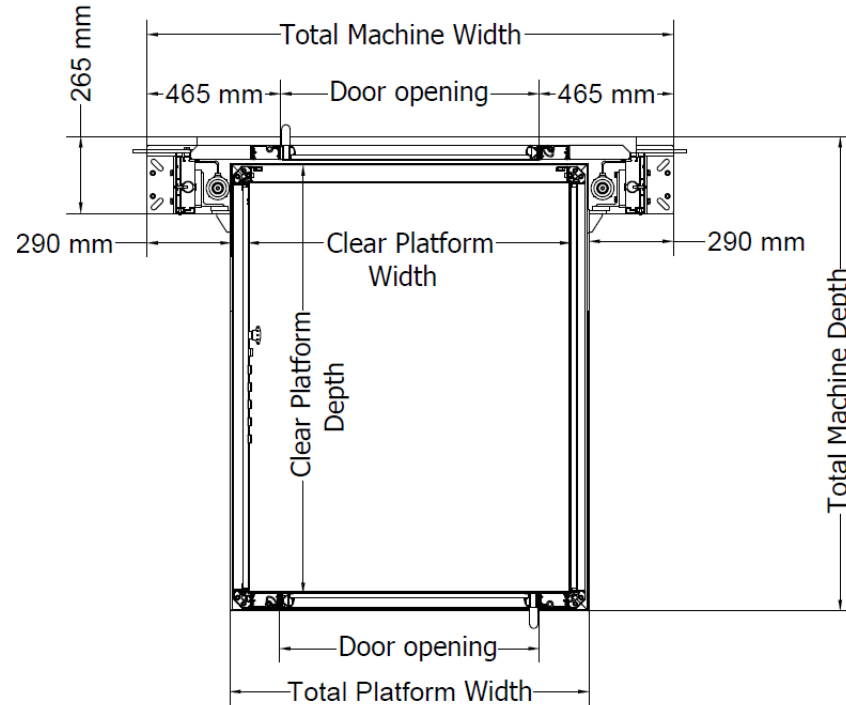
## ELECTRICAL REQUIREMENTS

- **Power Supply:** 220V (1-phase), (1.5kW)
- **Current Operation:** 16A
- **Main Required Fuse:** 3 x fuse 16 A (slow) or circuit breaker 3 x 16 A (trigger characteristic K or C)

# DESIGNS & DIMENSIONS

## Standard Dimensions – Top View

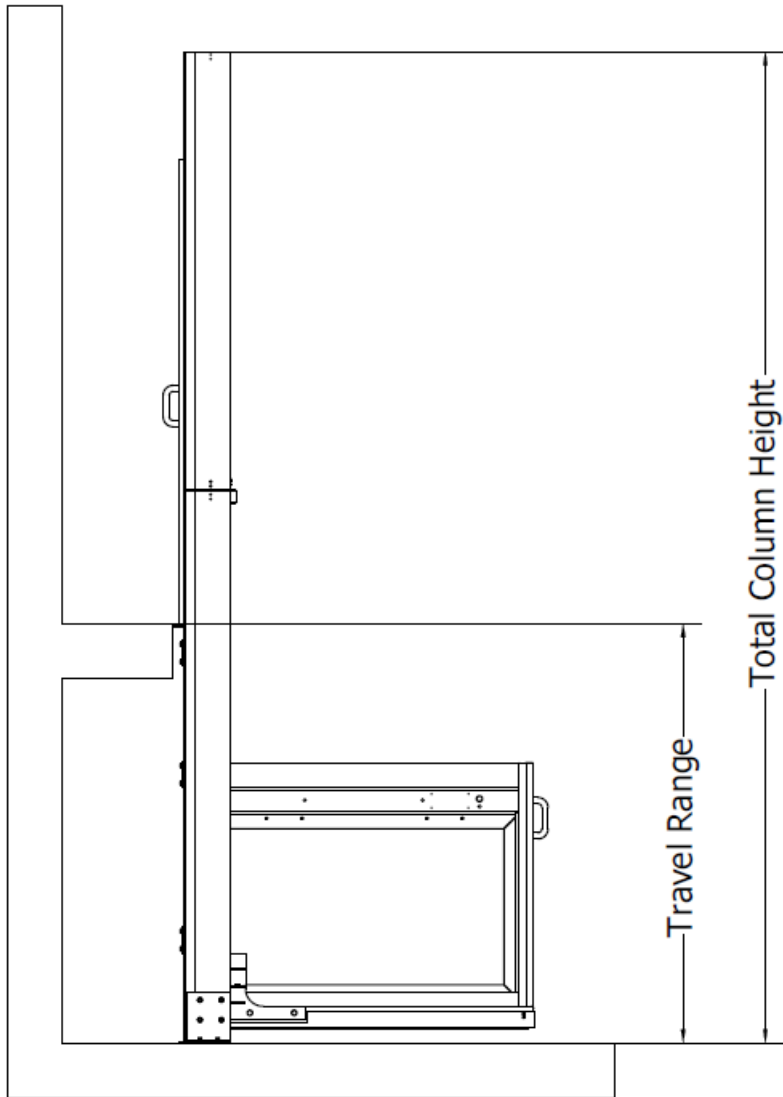
There are 4 types of standard dimensions.



Type	Clear Platform Width	Clear Platform Depth	Total Platform Width	Total Machine Width	Total Machine Depth	Level Door Opening	Platform Door Opening
A	815	1210	930	1525	1375	600	600
B	1015	1210	1130	1725	1375	800	800
C	1115	1480	1230	1825	1645	900	900
D	1115	1600	1230	1825	1765	900	900

*\*All dimensions are given in millimeters (mm).*

## Maximum Travel & Height of the Machine – Side View



Travel Range	Total Column Height
0 - 900 mm	2000mm
900 - 1400 mm	2500mm
1500 - 2000 mm	4500mm
2000 - 2500 mm	5000mm
2500 - 3000 mm	5500mm
3000 - 3500 mm	6000mm
3500 - 4000 mm	6500mm
4000 - 4200 mm	7000mm

# EXIT OPTIONS

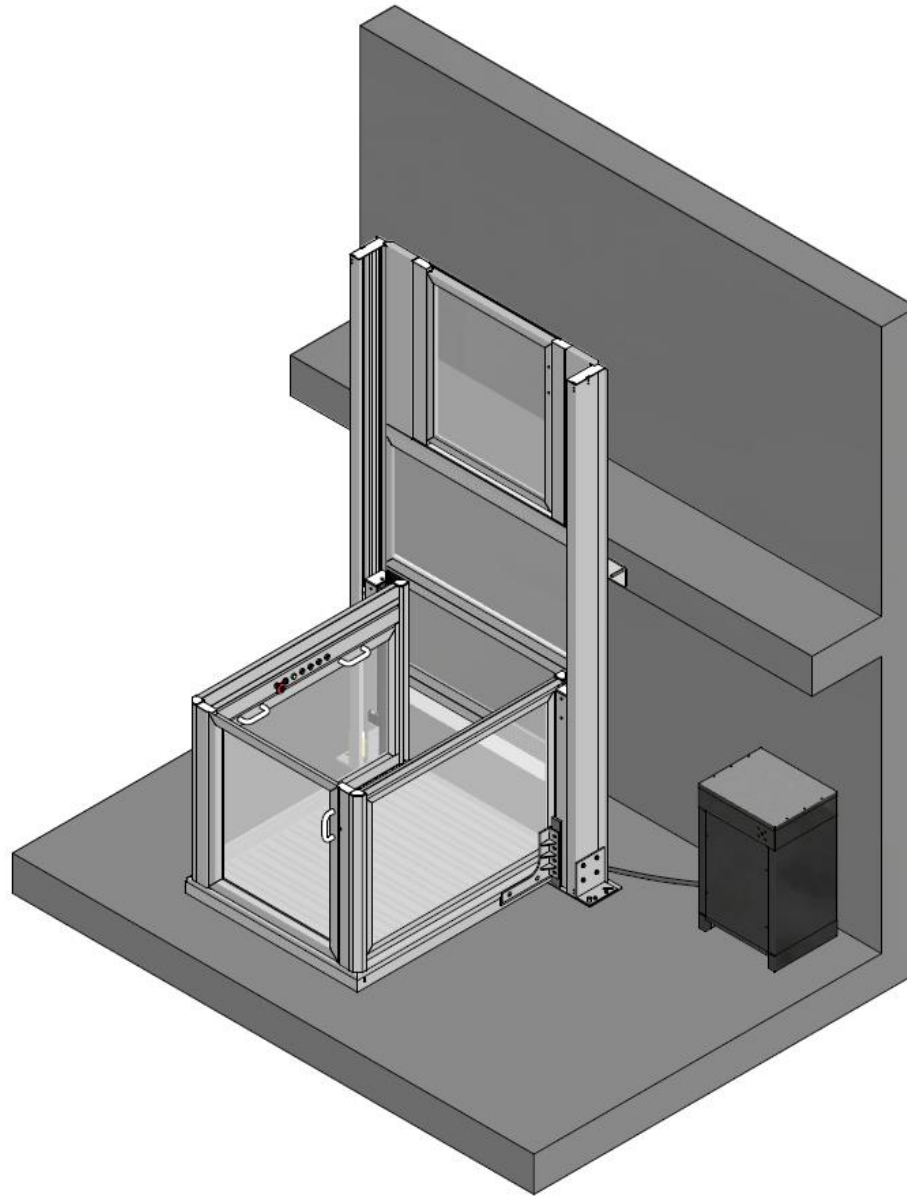
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## Entrance – Exit on opposite side

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**Note!**

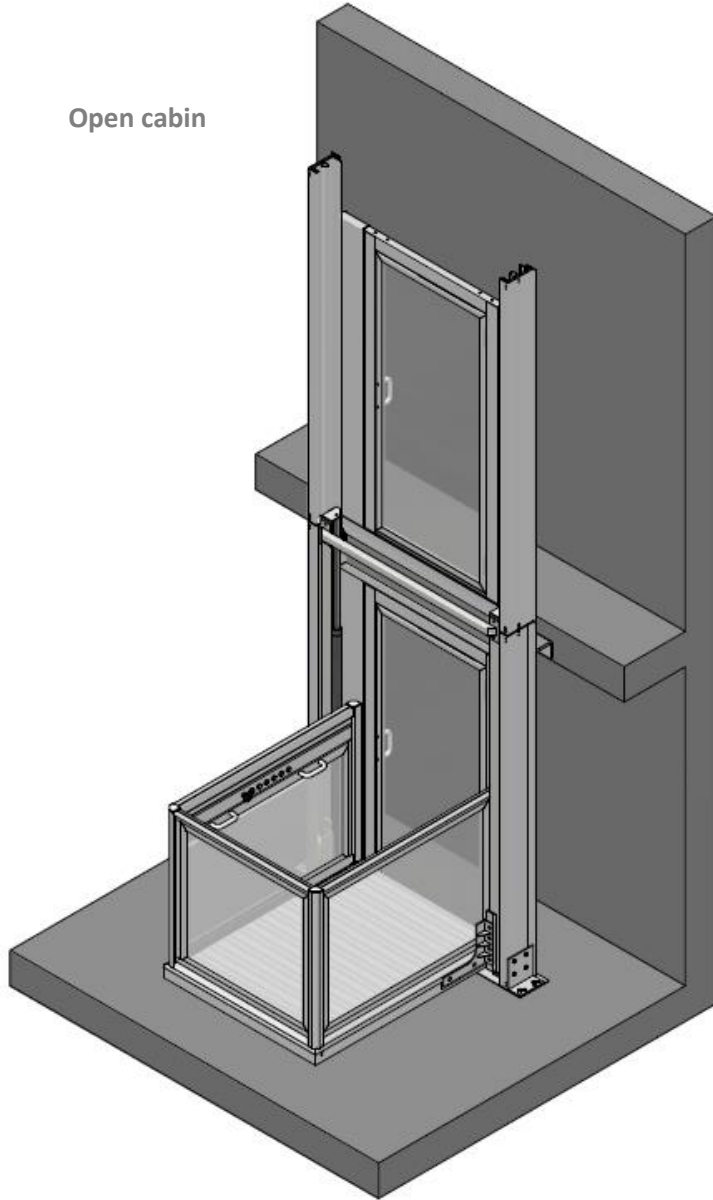
The level door is available in two height options:  
1100 mm or 2000 mm with left or right hinge  
according to your needs



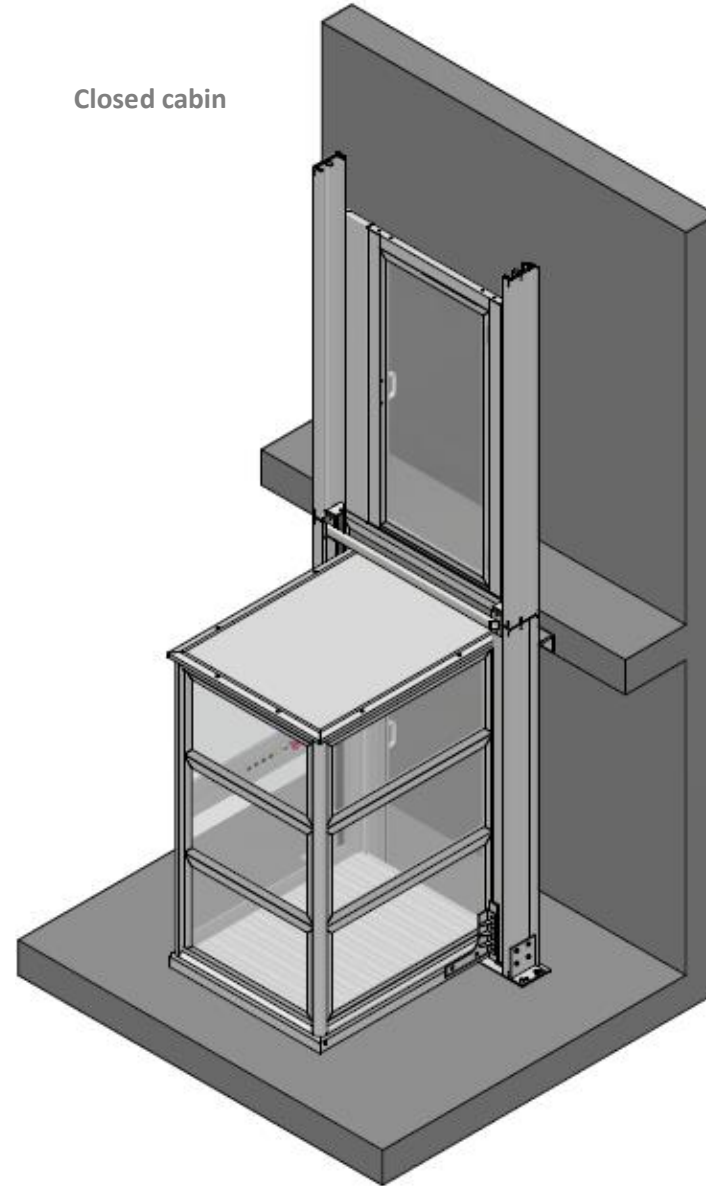
## Entrance – Exit on Same Side

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Open cabin



Closed cabin

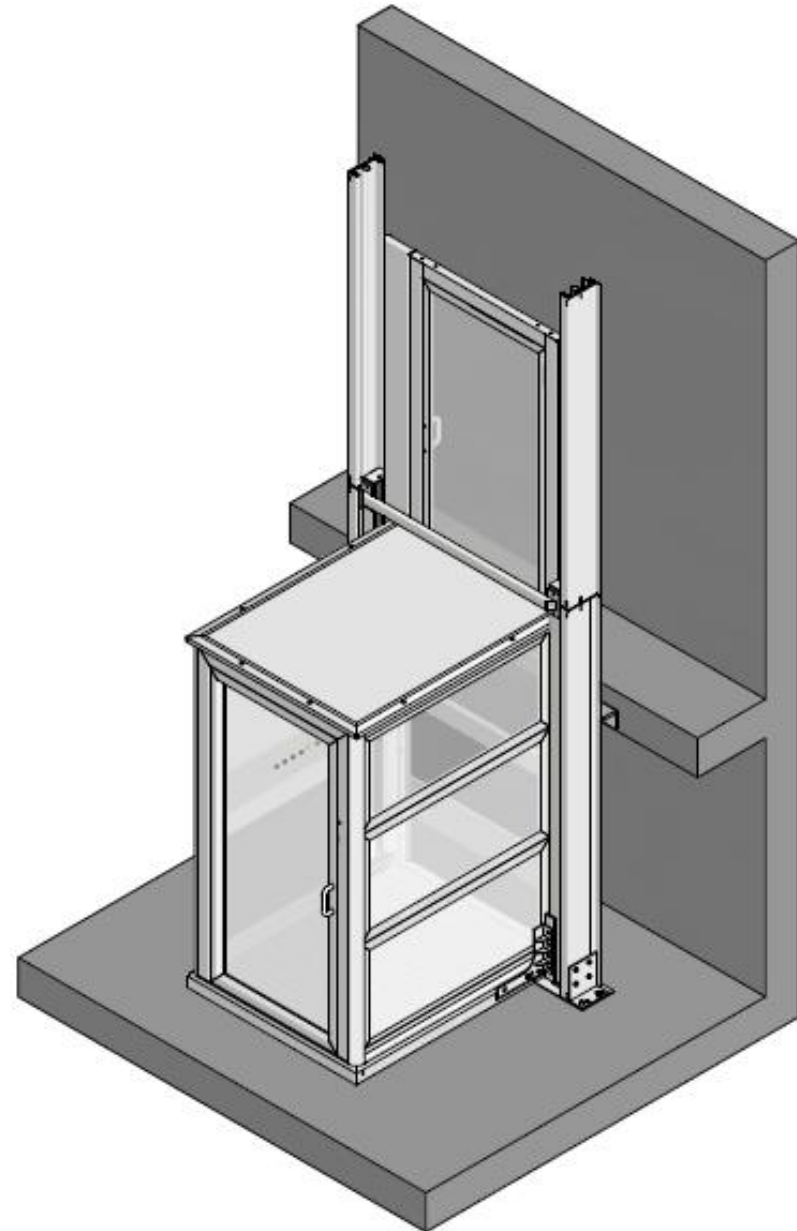


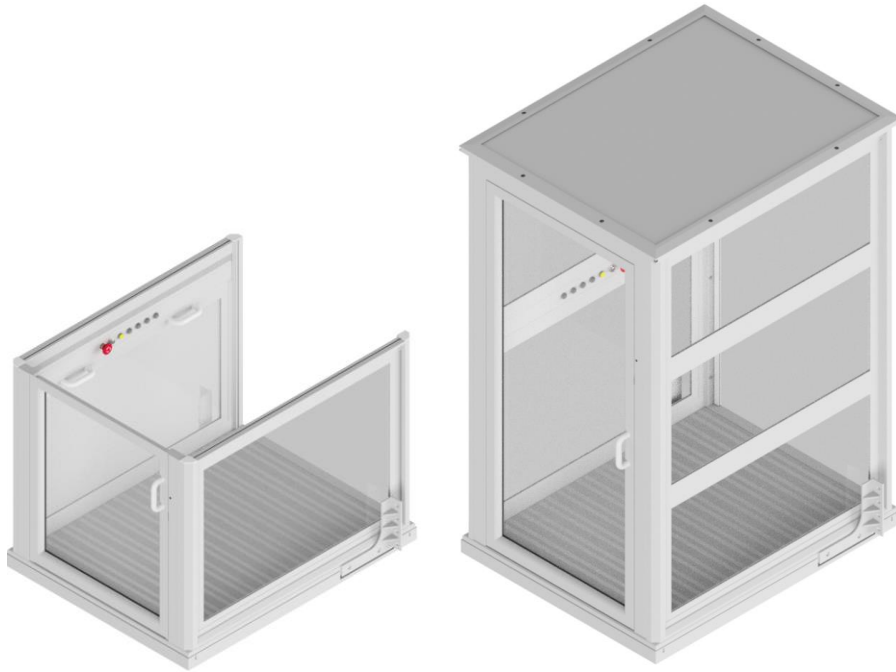
## CLOSED CABIN WITH ROOF (OPTIONAL)

This option features a closed cabin including a protective roof, making it ideal for outdoor installations safeguards both the users from rain, dust, and other external factors.

**Cabin Modification:** The cabin height is increased to 2000 mm and topped with a matching protective roof featuring integrated LED lighting - offering passengers a fully enclosed, secure, and comfortable space throughout the ride.

**Door Modification:** The door on the side of the entrance is extended to a height of 2000 mm, ensuring full compliance with safety regulations.



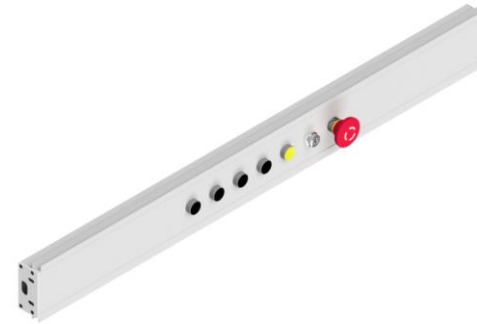


### Open Cabin with Height 1100mm

Includes 2 or 3 closed sides with a protective railing at 1100 mm height and integrated controller. The railings can be lined with polycarbonate sheets, triplex glass or aluminium panels, personalized to suit your unique requirements and preferences.

### Closed Cabin H2000mm with roof

The cabin can be equipped with 2 or 3 sides closed at 2000 mm height, along with a roof featuring integrated lighting. Also a controller inside the cabin is included. The cabin walls can be lined with polycarbonate sheets, triplex glass or aluminium panels .

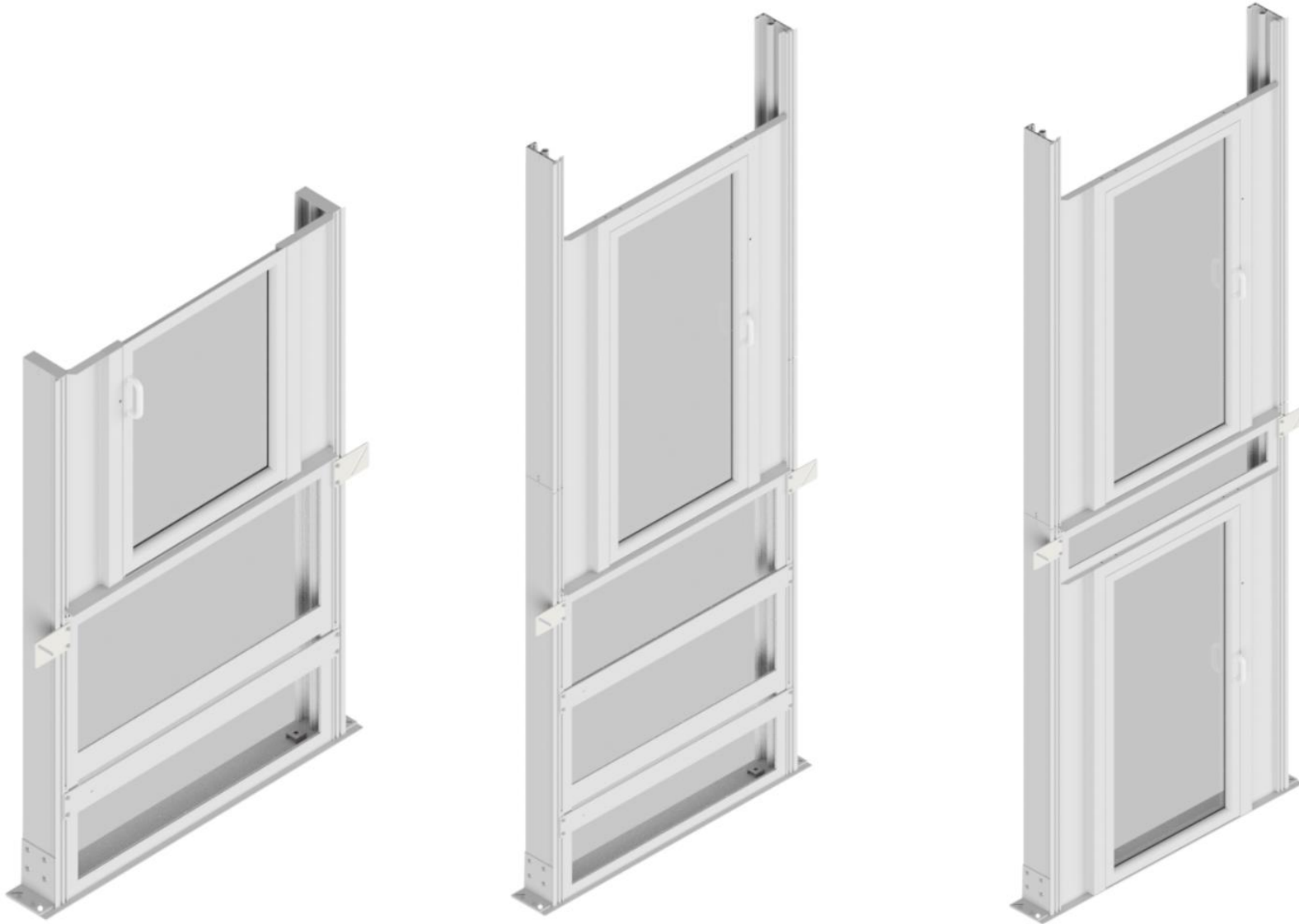


- **Down and Up Button** – Activates downward and upward movement of the platform. Operated by constant pressure (must be held down continuously).
- **Emergency Stop (Red Mushroom Button)** – Immediately interrupts all lift operations. Must be rotated to reactivate the system.
- **Alarm Button (Yellow with Bell Symbol)** – Sounds an alert in case of emergency.
- **Key Switch (ON/OFF with Key Inserted)** – Used to activate or deactivate the control panel, ensuring that operation is limited to authorized personnel only. It comes as a standard feature in the open cabin, while in closed cabin it is available only upon request.
- **Labels** – Clear and easy-to-read labels, using numbers, arrows or names in an international language to ensure user-friendly operation.

## COLUMNS WITH INTEGRATED PROTECTIVE BARRIER & DOORS

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The column framework houses the lift's guiding and driving mechanism, while also supporting the integrated doors and protective barrier. This system ensures structural stability and smooth platform travel, while the protective barrier provides additional passenger protection by preventing users from accidentally stepping off the platform during movement. The doors remain securely locked until the platform reaches the landing level, guaranteeing a safe and controlled entry or exit for passengers.



# LEVEL DOORS

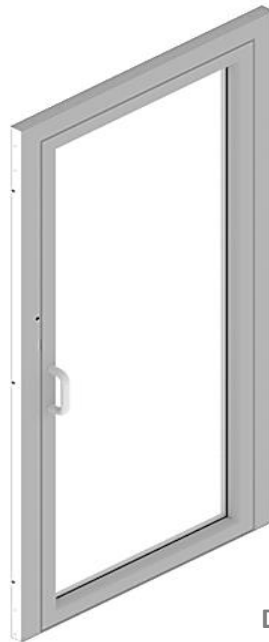
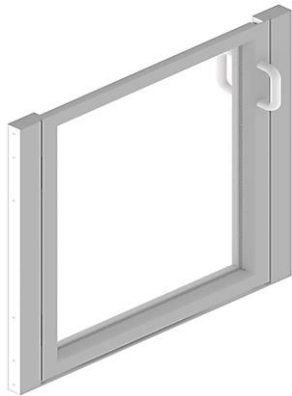
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## Description & Available Options

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- ✓ **Single doors**
- ✓ **Operation:** Semi-automatic operation
- ✓ **Hinge:** Left or right
- ✓ **Height:** 1100mm or 2000mm
- ✓ **Lining:** Triplex glass or polycarbonate sheet

Door height 1100mm



Door height 2000mm

## CONTROL PANEL & HYDRAULIC UNIT

The control panel and the hydraulic unit are installed into a cabinet

**Function:** Manages the operation of the hydraulic system for precise and efficient control.

### Control Panel

- **Function:** Includes a variety of electrical and electronic components that work together to operate, monitor, and protect the system.
- **Components:** It mainly includes main board, power supply, switches, relays, led lights for monitoring and push buttons.

### Hydraulic unit

- **Function:** Its main function is to generate, control, and supply hydraulic energy to drive the system.
- **Components:** It mainly consists of a motor, pump, tank, valves and filter that work together to generate and deliver hydraulic power.
- **Control:** Adjusts pressure, flow rate, and direction of the fluid as needed.
- **Benefits:** Improves system safety, ensures reliable and high-performance operation, and enables smooth, energy-efficient control of hydraulic processes.

The oil tank has a capacity of 30L and the max pressure is up to 80 -120 bar.



# CABINET

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**Space - Saving Design:** Measuring at 900mm in height, 450mm in width and 550mm in depth, this cabinet fits seamlessly into tight spaces, making it ideal for installations with limited room.

**Durable Construction:** Built with galvanized sheet metal panels and painted in RAL 7040, the cabinet offers corrosion and water resistance (IP54), ensuring long-term durability.

