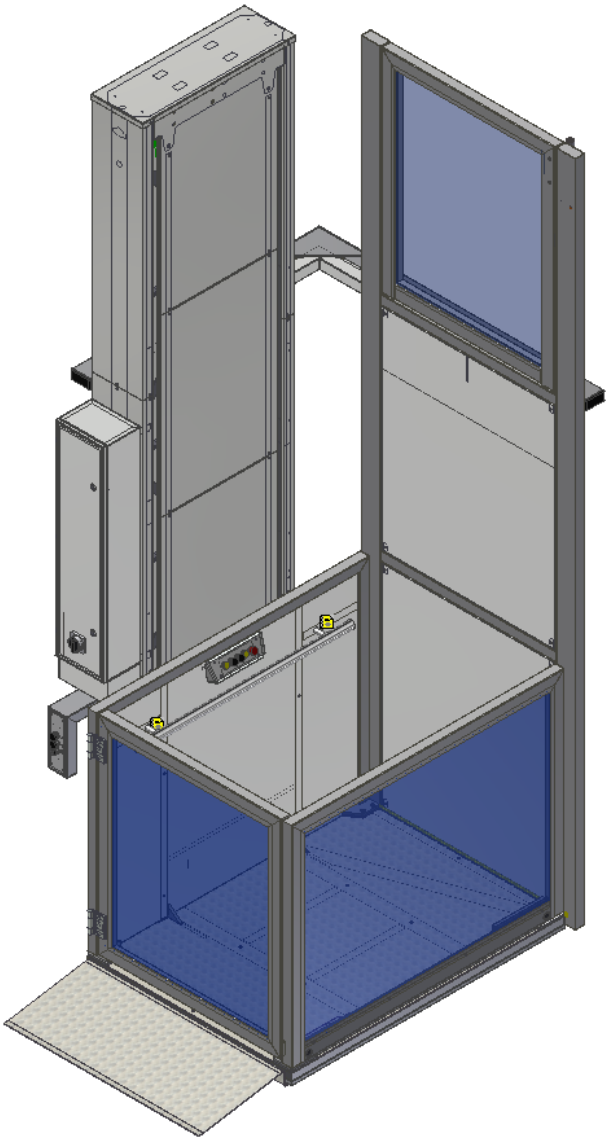
LEHNER LIFTTECHNIK

Installation Manual



ALPIN Z300

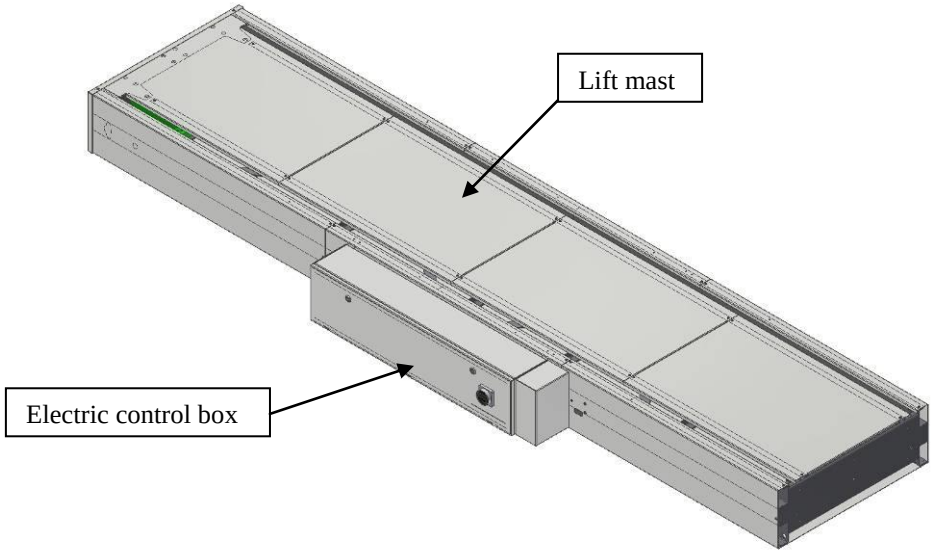
Vertical platformlift

KEY PARTS

The unit is delivered preassembled in 4 main parts:

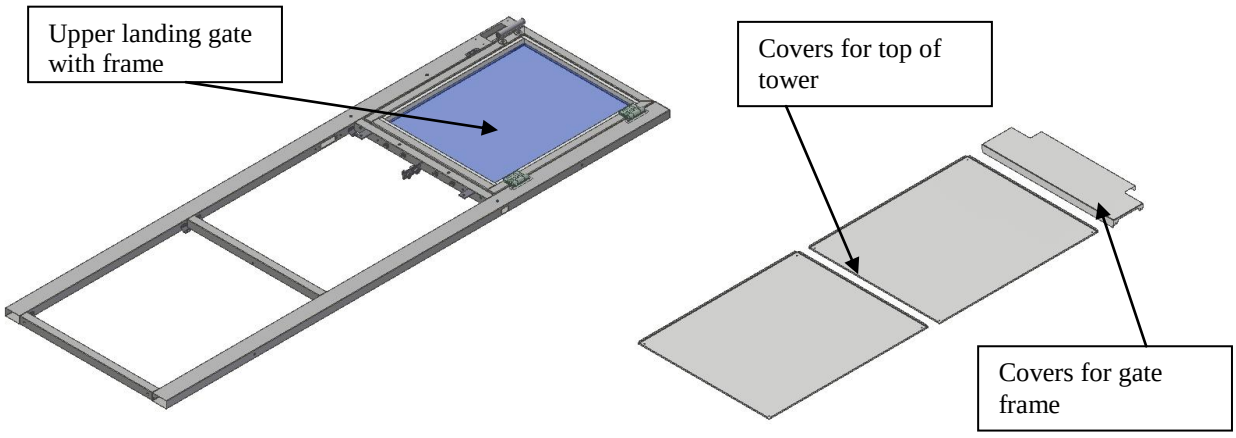
Lift mast (column)

It is the fundamental and the largest piece of the equipment, consistent of the traction unit and the main electric and control switches.
Height of the column is up to 5100 mm (for a 4m lifting height) and the weight ranges from 420 kg (2m lifting height) to 580 kg (4m lifting height)



UPPER LANDING GATE FRAME

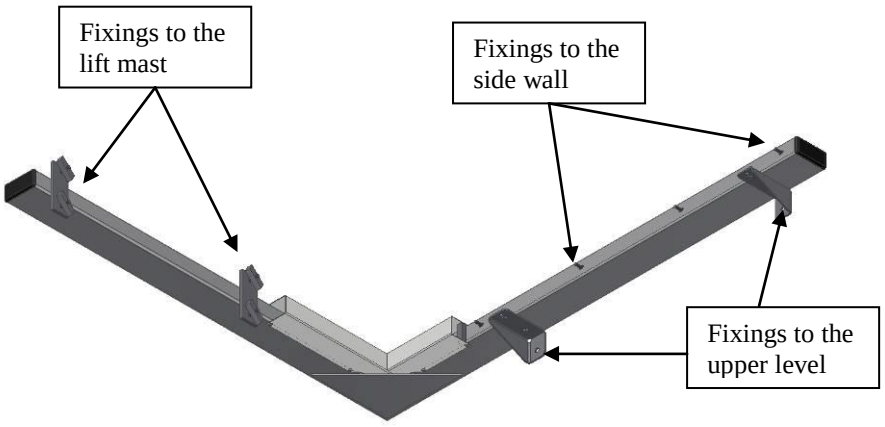
The upper gate is supplied complete with a framed support structure acting as a sidewall.
Weight of this set ranges from 105 kg to 145 kg depending on the size of the lower frame.



CONNECTION BEAM

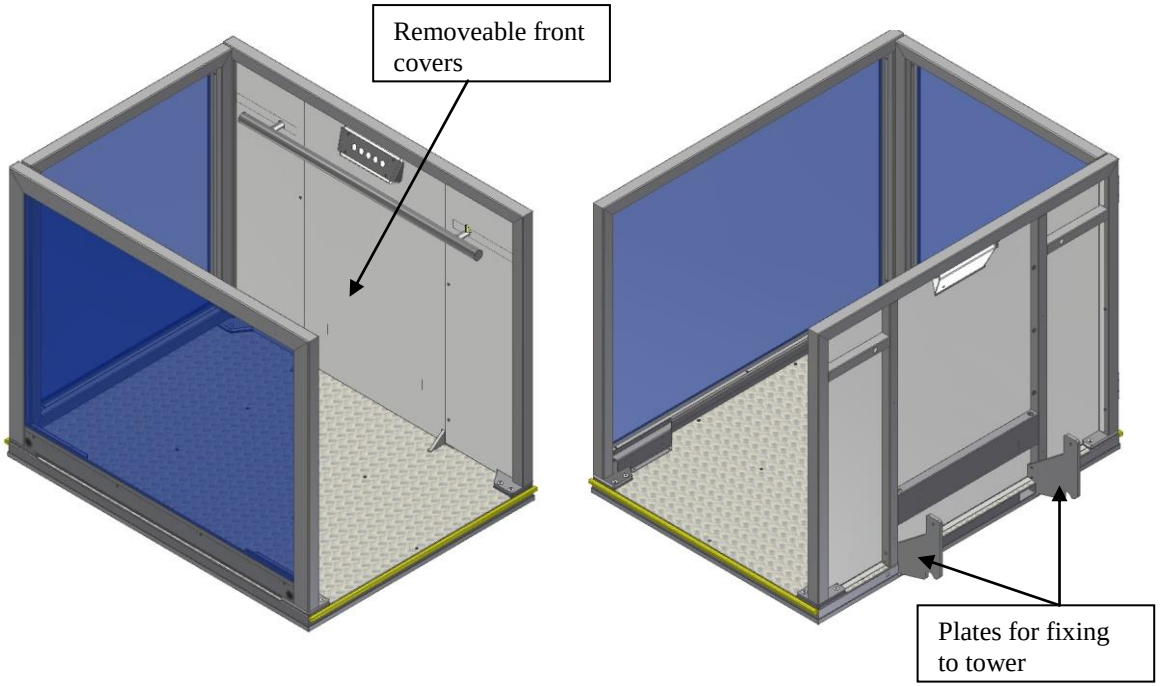
The connection beam serves to connect the lift mast with the sidewall and the whole structure with the building. Weight of connection beam is approximately 22 kg.

VERY IMPORTANT: The connection beam has to be fixed to the upper landing (structure of the building) in order to provide the necessary stability to the system



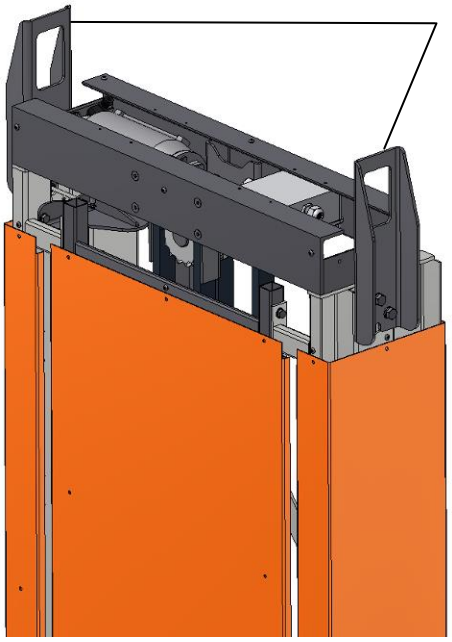
The Platform Carriage

The platform carriage is delivered assembled, including the platform gate as specified in the order form. If necessary, you can change the direction of opening the gates on the installation site (It is necessary to change the location of electronic locks). Before the connection to the lift mast the cover sheet on the carriage must be removed.
Weight of the carriage with enclosure and gate is approximately 200 kg.



Installation with a crane

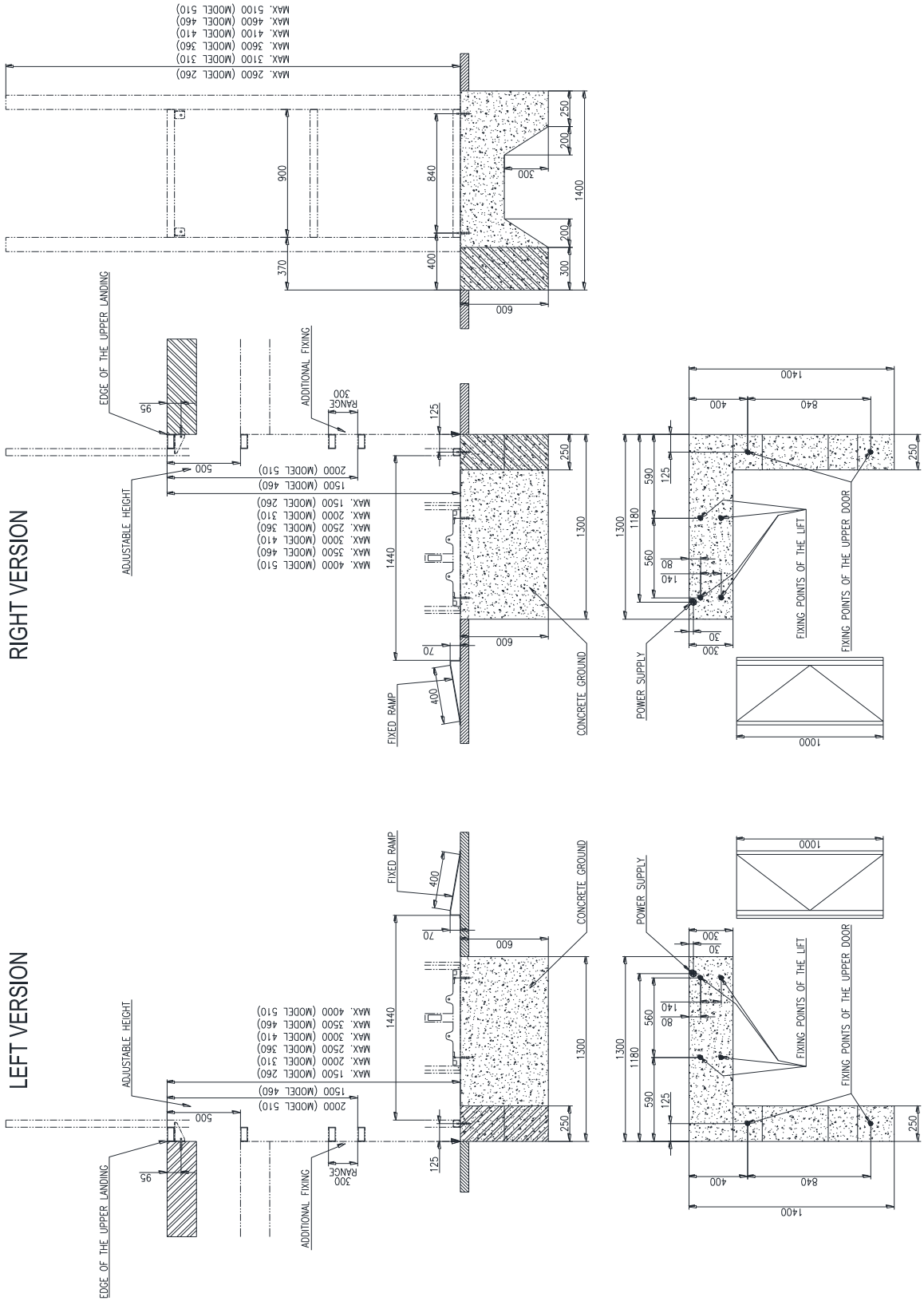
Fix the 2 attached hooks on the top of the main tower after you have removed the cover from the tower. Each hook will be fix with 3 bolts. Tight the bolts good. After that you can fix the strap on the hooks and move the tower to the installation postion. Hold the tower with the crane as long as you have fixed it with bolts to the concrete floor.



Hooks for crane to be fixed to top of tower

2. On site requirements for installation

As preliminary work, a concrete foundation for anchoring the bottom plate has to be created. Please see below dimensions for solid foundation. It is always necessary to provide drainage of rain water from the platform area.

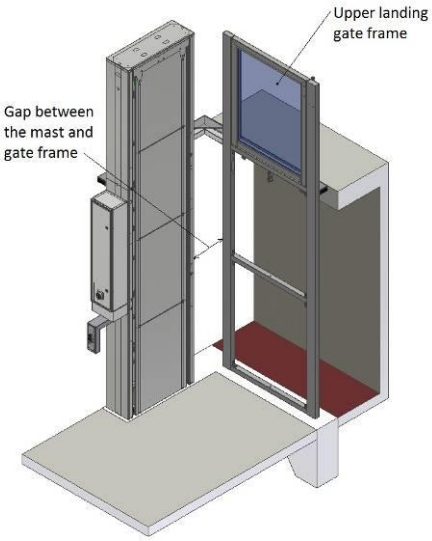


3. INSTALLATION PROCEDURE

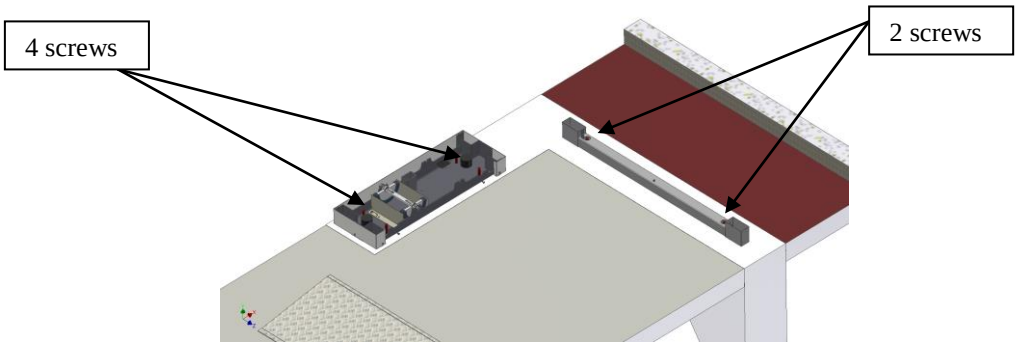
Step 1: Get the upper landing gate (door with frame) to installation site. Fix it to the connection beam.

Step 2: Set up the upper landing in a vertical position. The upper landing and the connection beam have to be in the correct position, before you fix it on the wall.

Step 3: Now put the lift mast in a vertical position and place it at installation side. The hand wheel has to look at the upper landing side. After everything is in correct and vertical position, fix the lift mast to the connection beam.

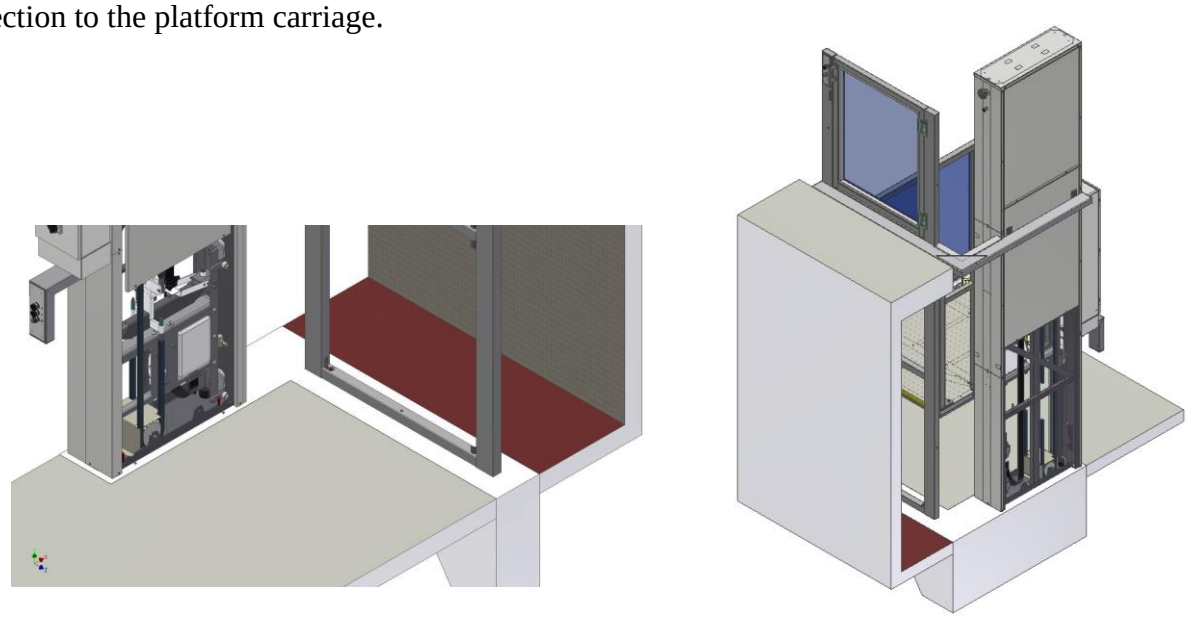


Step 5: Fix the mast and the upper landing gate frame to the floor. Drill the holes with diameter of 12 mm for installation of anchor bolts - 6pcs (eg foot GVZ EXA 10/90 - M10, L = 165m).



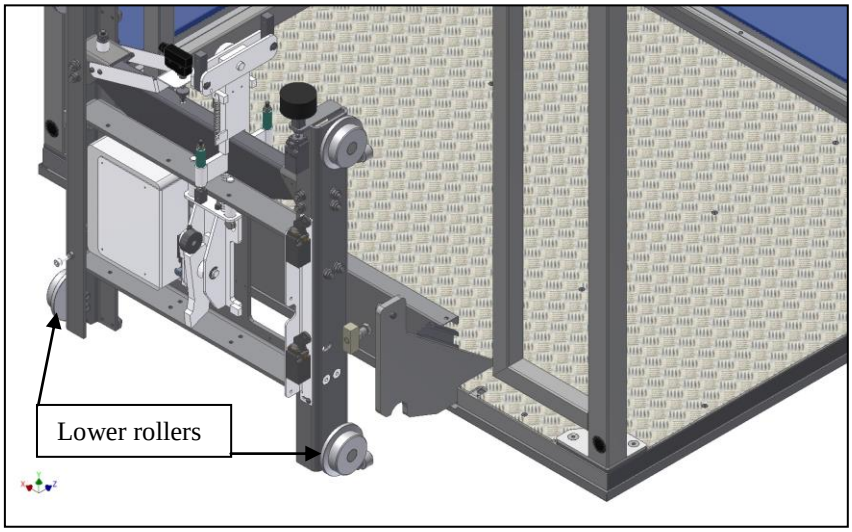
After anchoring the mast and gate frame, check again their vertical adjustment.

Step 6: Remove the front and rear bottom cover plates on the mast, to allow for the connection to the platform carriage.



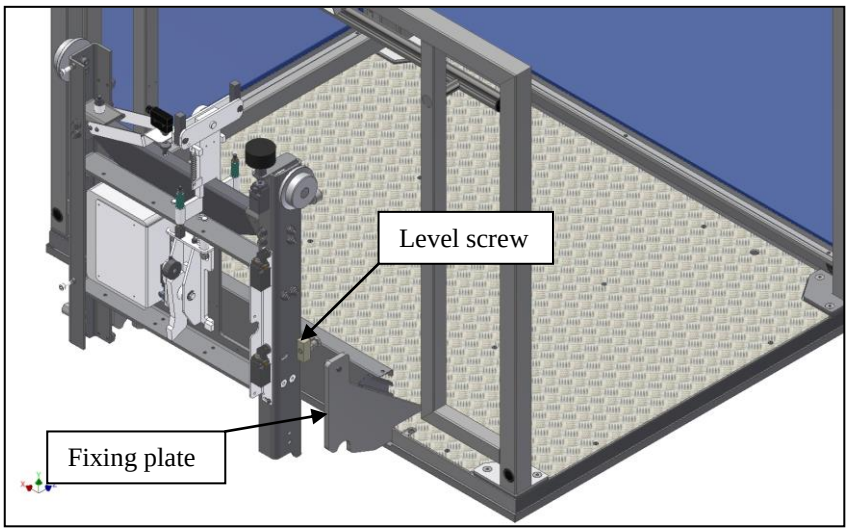
Step 7: Engaging the platform into the drive unit tower:

- Approach the platform to the drive tower. If possible use a jack lift to put the platform at a convenient working height. Take off the front cover of the platform.

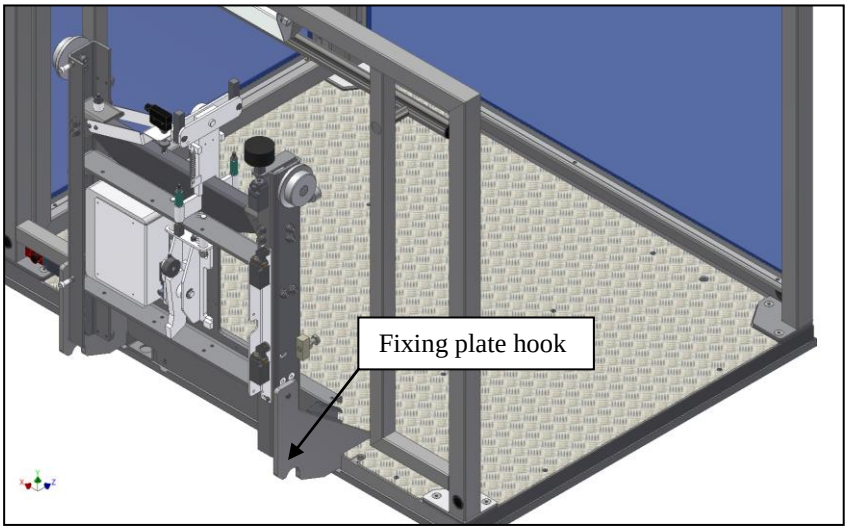


- Take out the lower left and right rollers on the carriage, which are screwed form the inside of the carriage.

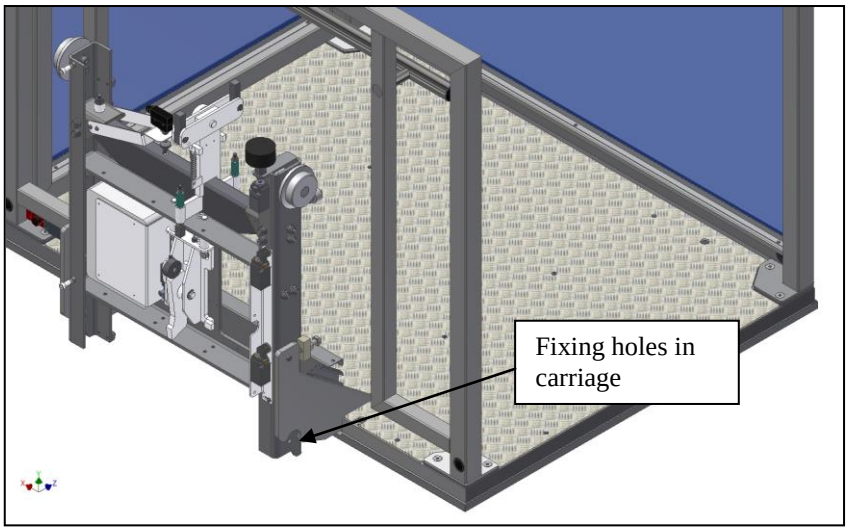
- Drive up the carriage so that the fixing plates of the platform can pass the level screw.



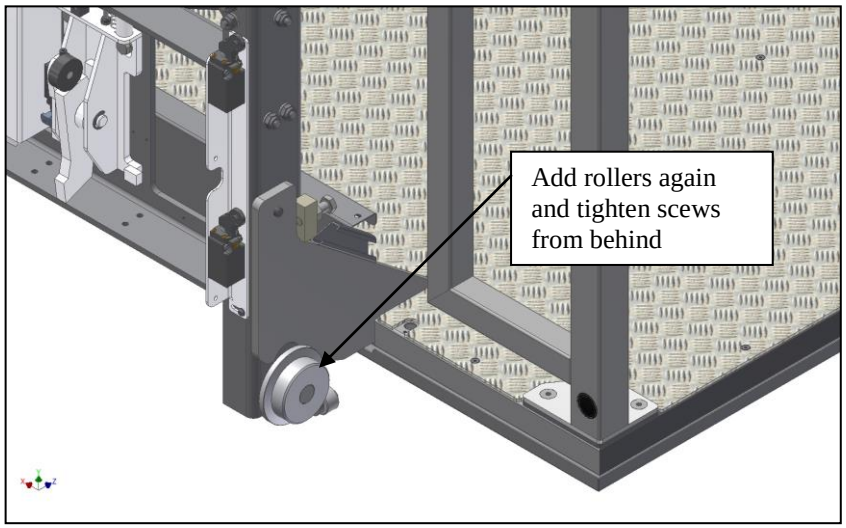
- Drive the platform in so that the fixing plate hook aling with the roller fixing holes and clear the level screw



- Drive the carriage down so that the fixing holes for the roller appear under the fixing plate hook



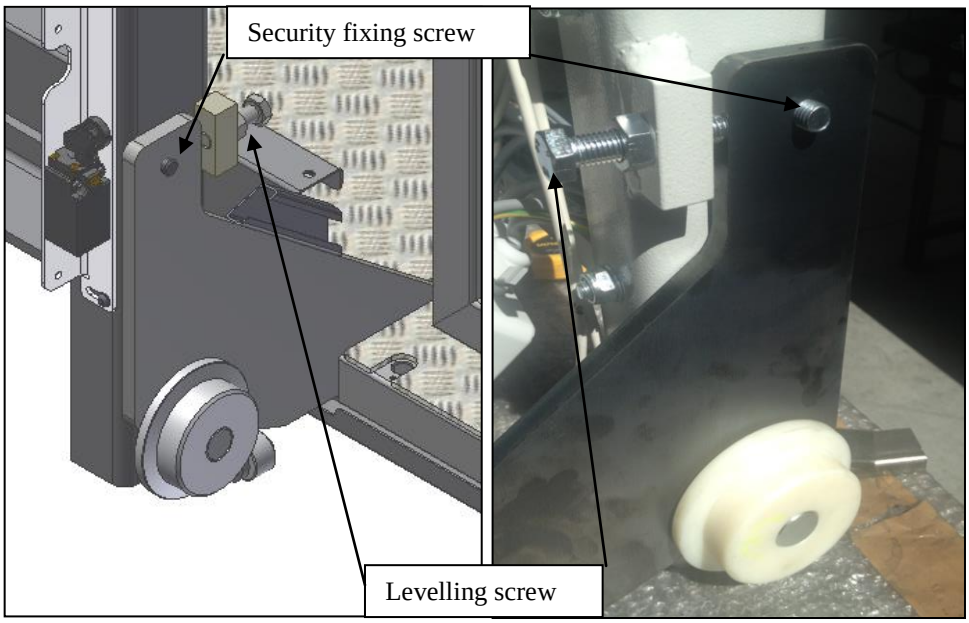
- Fix the left and right rollers again to the carriage.



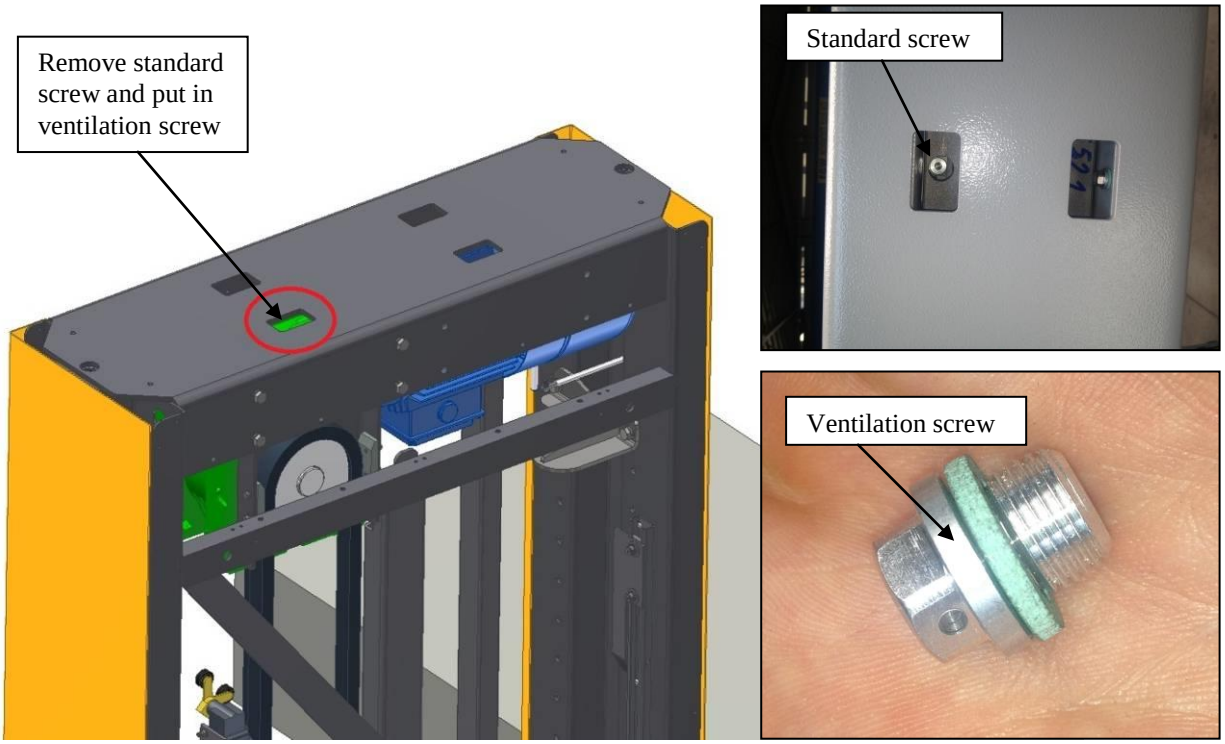
- Drive up the carriage so that the platform rests on the rollers.

- Now use the leveling screw to put the platform into horizontal level.

- Then add the fixing security screws from behind into the provided treadhole



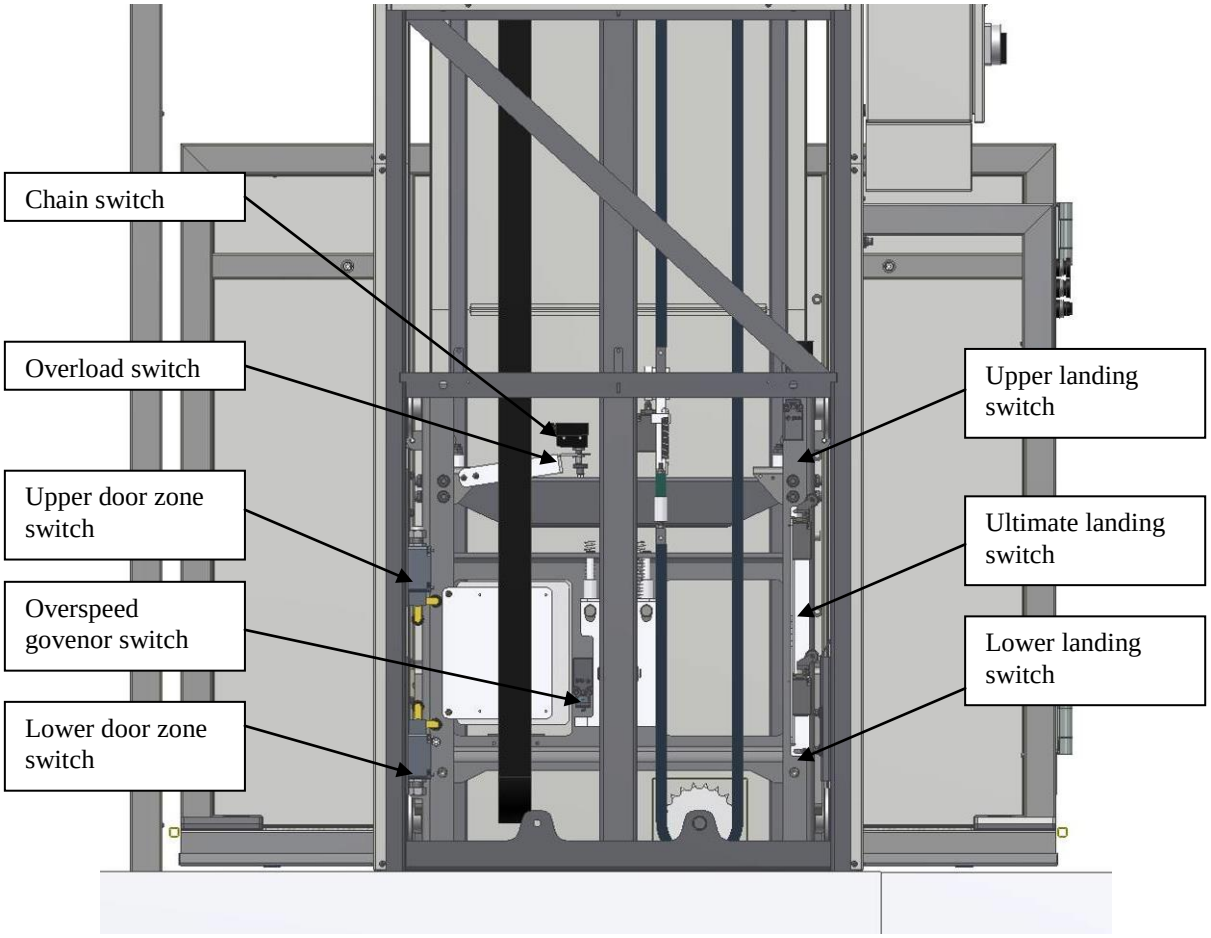
- Step 8: Remove the transport screw on the top of the main tower (marked in a red circle in the picture) and mount instead the deliverd air vent screw. This must not be forgotten!!!



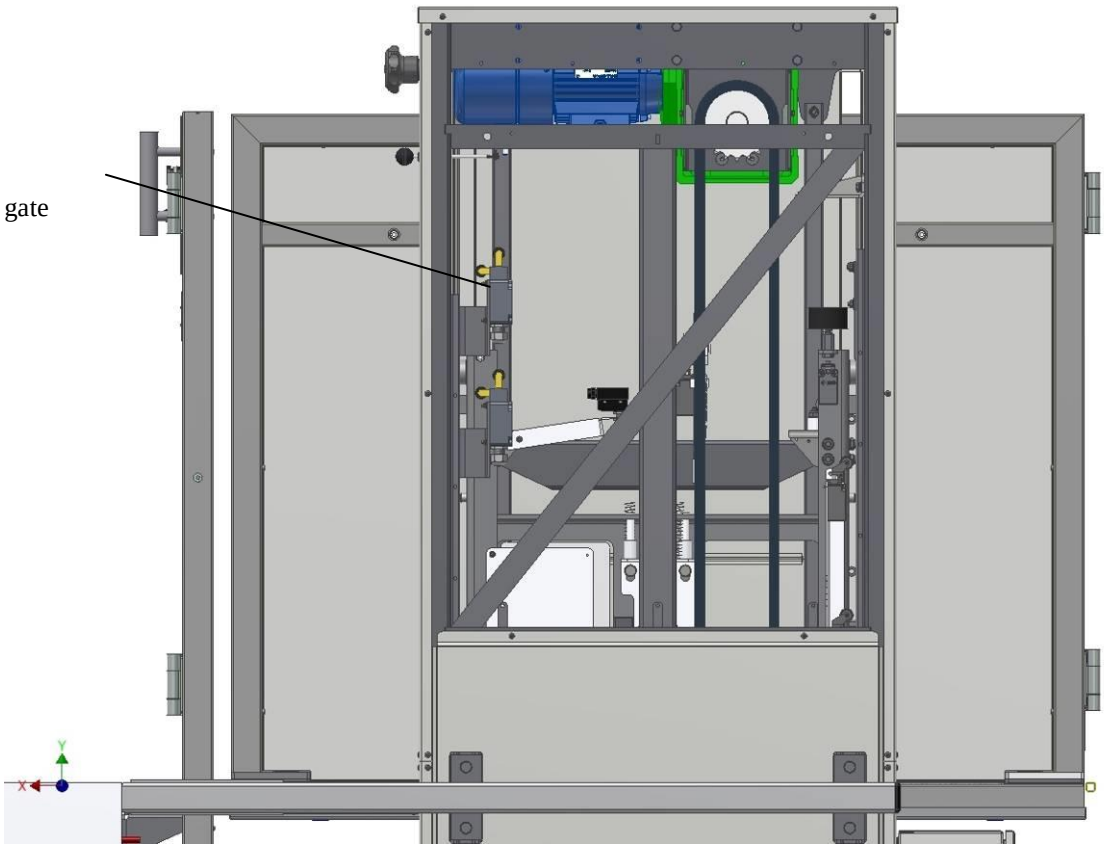
4. ADJUSTING THE UPPER AND LOWER LANDING

Before putting the platform into operation, it may be necessary to adjust the levels of the lower and upper stops.
At the factory the platform is set to stop the lower height of 75 mm. The level of the upper station is set to the maximum stroke of the platform as per installation drawing.
Adjustment is done by moving the bottom or top stop switches mounted on the console in the C-profile (after enabling the screws).
When adjusting the upper stop switch, provide enough clearance to ultimate upper stop switch (overrun switch).

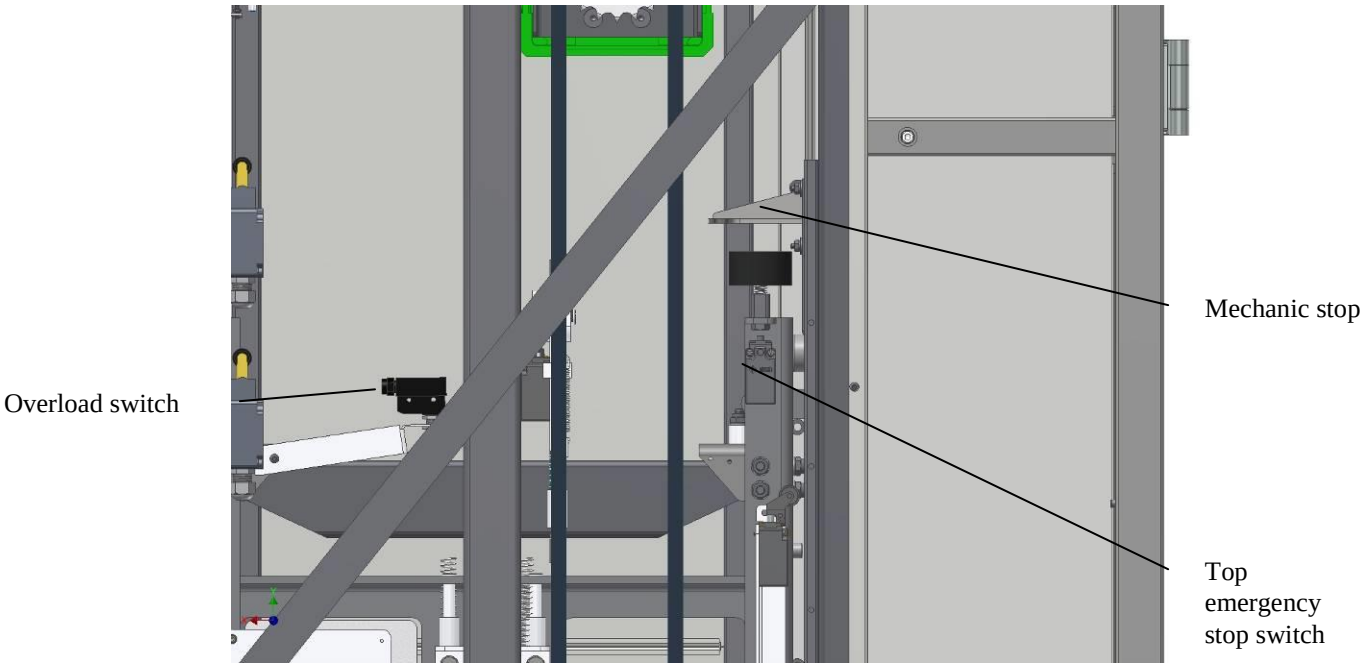
Downside – carriage in lower position:



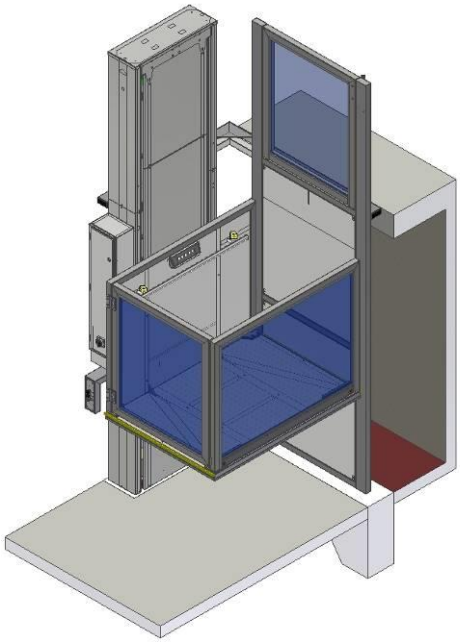
Upside:

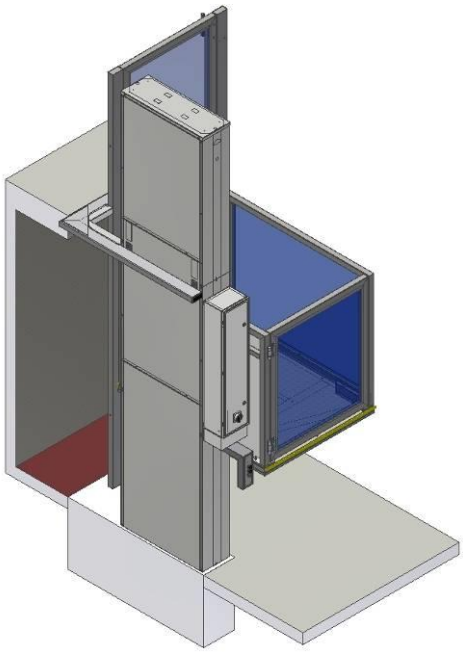


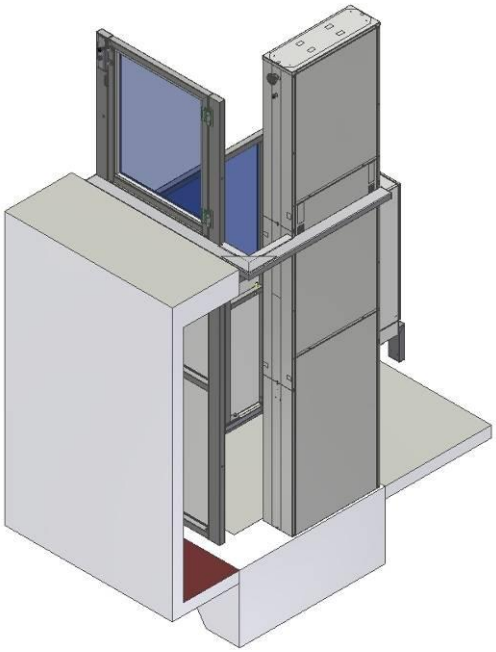
The removeable emergency hand wheel connection must always point to the upper stop to ensure safe access and manipulation.

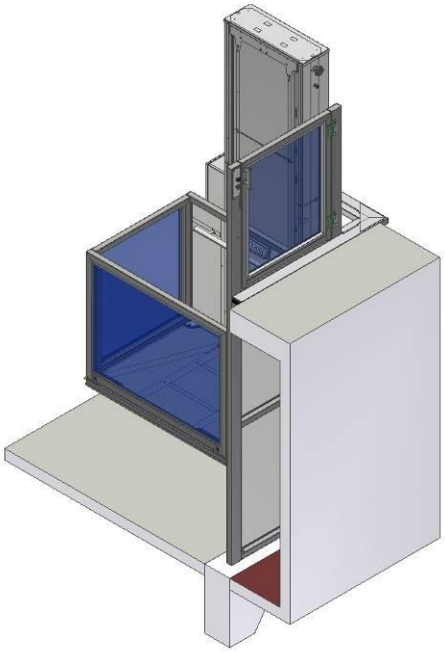


Install the remaining panels and covers



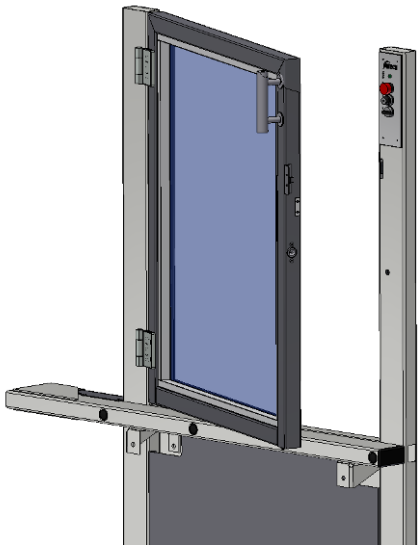


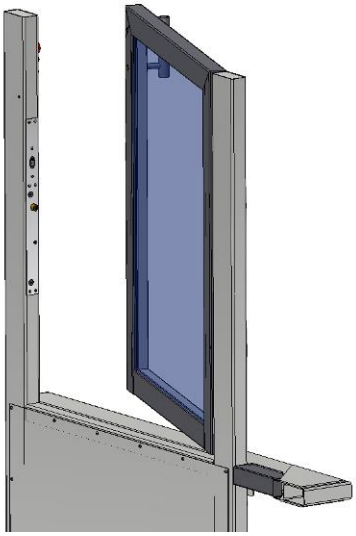




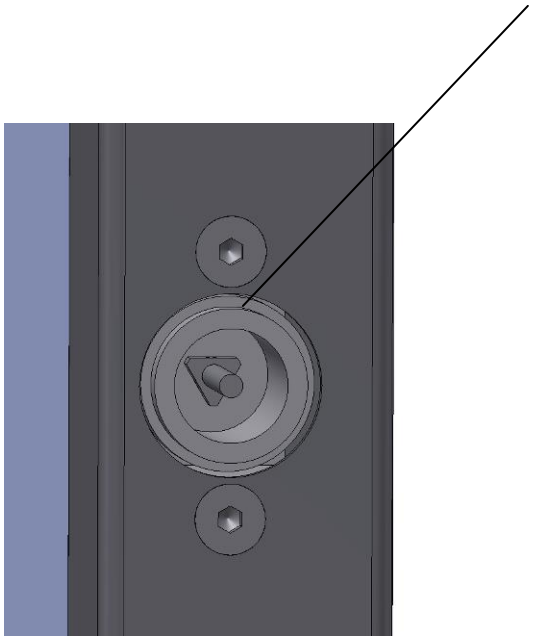
5. Adjustement of gate and look

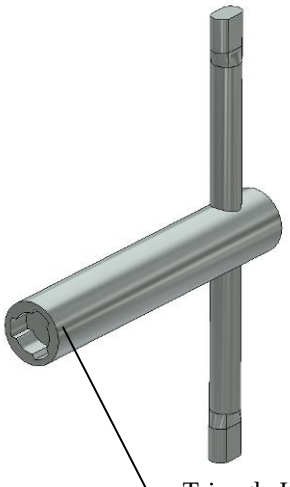
Before beginning of operation of lift, the gate and look should be adjusted. Normaly the setting is done from the manufacturer, but sometimes it change during transport and installation.





Fine adjustment can be done by the small bolt in the middle of the circle. After correct adjustment fix the circle with the 2 small screws





Triangle Key to open the doors manually.

Example of a standard model Alpin Z300 (lifting hight 2700mm)