



## Tips for preparation of PLC lift.

### Mounting, New build or upgrade.

The basic demand for installation of PLC lift is 10 cm armed b30quality concrete.

Does the floor have less than the basic demand it can be upgraded. To fulfill the requirements the minimum concrete that needs to be replaced is 100cmx100cm and 40 cm deep under each column. The replaced floor needs to be armed into the existing concrete floor. By replacing the concrete you achieve 1040kg under each column. When building new planning to install a PLC lift it is smart to make a pocket in the foundation under the floor and lay down the armoring lower around the planed location of the columns, to avoid conflict with the installation of the concrete anchors.

OBS!

This is just our recommendations based on our own experience, and customer feedback It is only to be considered as a guideline to help you consider all aspects of your set-up possibility. To assure you get the best possible experience of your PLC lift installation.

### Location type.

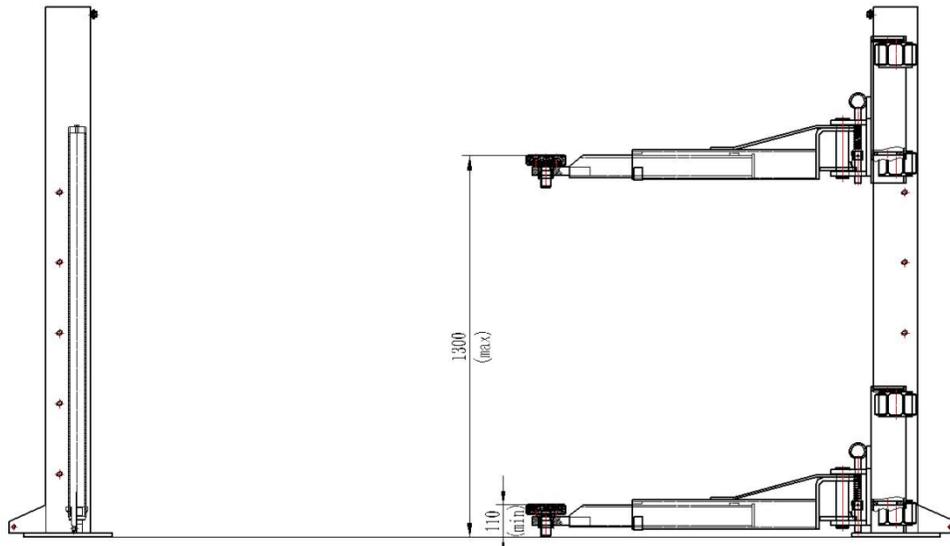
Prior to making your decision on for the location of the columns there is a few things you should consider.

Is the premises being used only as a workshop, and one car, then the best location for the PLC lift is in the center of the local to achieve as much workspace as possible around the car.

Is the premises being used for parking of several cars, you need to make room for parking of the other cars. Also consider if you will use the parking when the PLC lift is in occupied and work is in progress. A spacious area around the car is better than a narrow area and a parked car as an obstruction when working. (it is possible to buy several Anchor bolt sets to be able to choose variate the placement of the columns. We do not recommend placing one of the columns close to the wall, this will be considered to narrow space from the wall. We recommend minimum 30 cm from the wall. To be able to walk freely around the you would need 50 cm clearance from the wall.

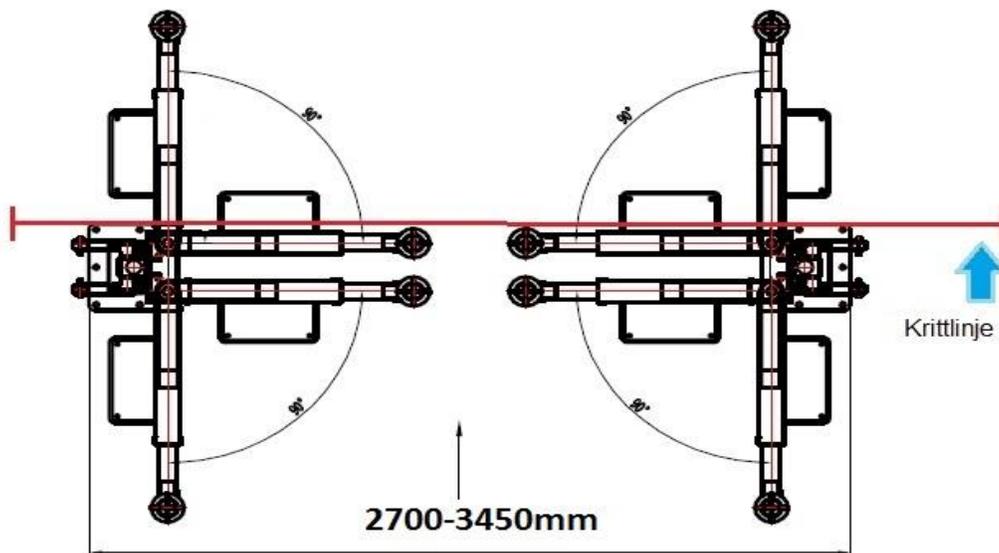
## Height:

Obstacles in the ceiling could mean you would lose lifting height. Avoid the ceiling truss if your ceiling is less than 260cm. For most cars the height of the car is higher than the hydraulic cylinder that erect from the columns (cyl. 140cm min height). Also avoid lights, door openers and cranes in the ceiling above the PLC lifting area.



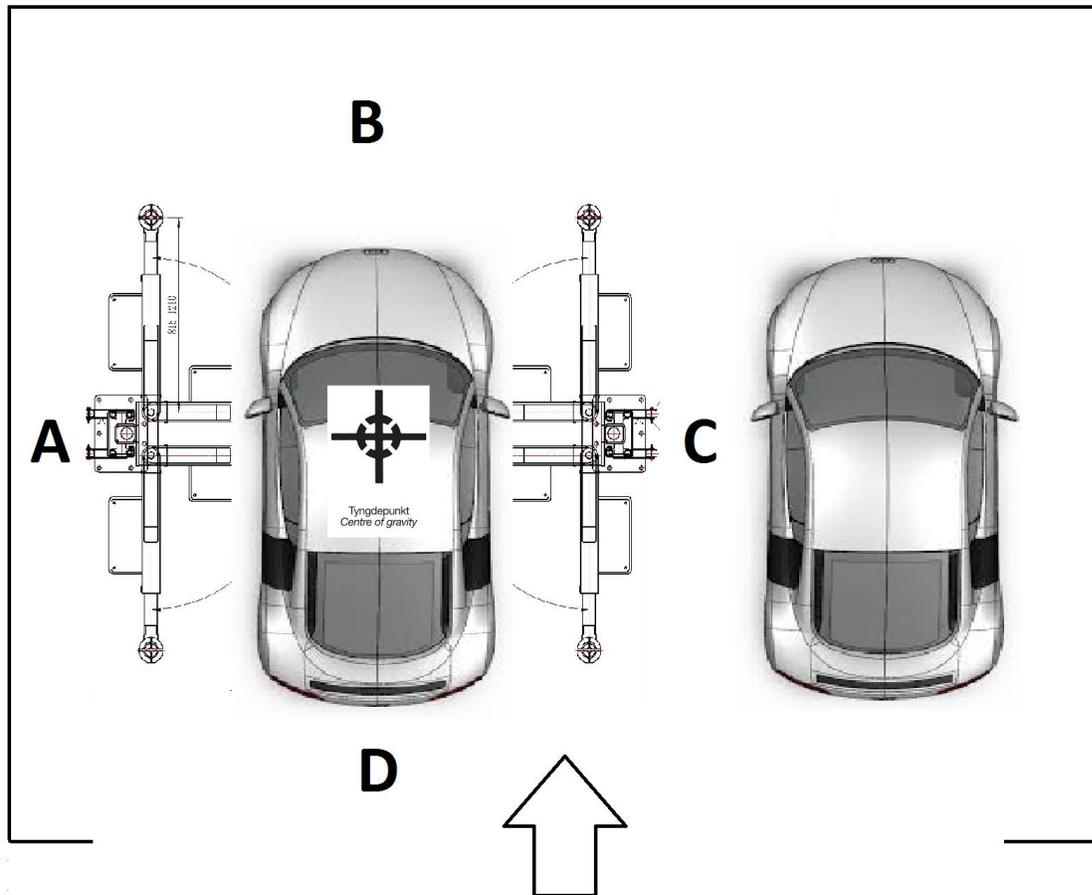
## Width:

We always recommend installation with the maximum width 3450mm measuring from the outside of the floor base between the columns. It is possible to install the columns closer together all the way down to 2700mm, but be aware that the tighter it is installed the harder it is to get in and out of the car. In addition to complicating bodywork on the car.



## Depth:

The columns should be placed with respect to the center of a cars gravity point. Not in the center of the car. The cars point of gravity is distributed with the lifting arms. (Check your car manual). The cars are usually heaviest in the end the engine is placed. The lifting arms should then be shorter in the against the cars heaviest point to achieve an even weight distribution.



### Reccomendations (minimum)

The recommendation is optimal, all values could be less or more.

**A: 50cm (from base to wall)**

**B: 120cm (from front to wall)**

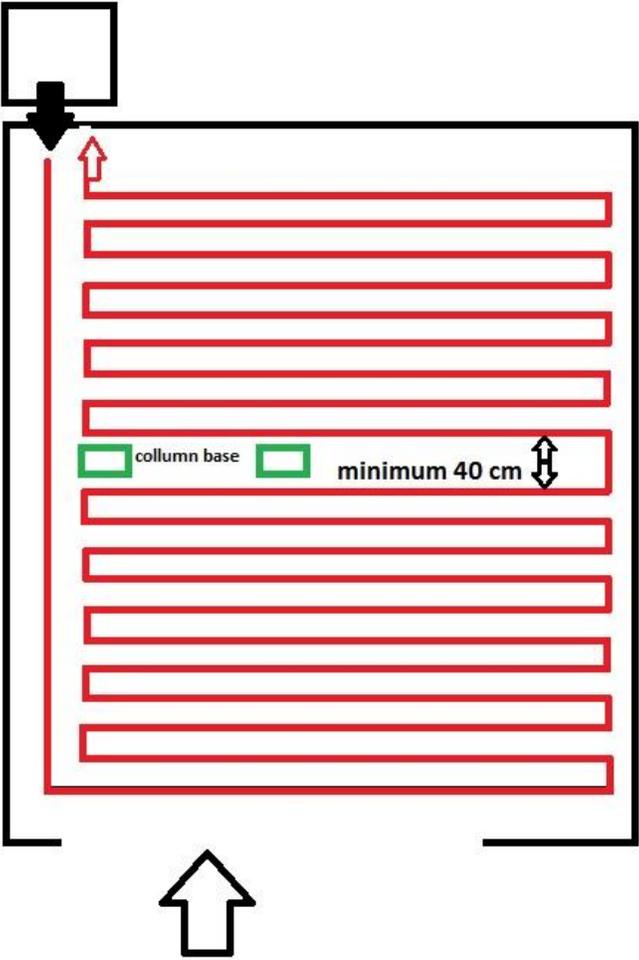
**C: 120cm (from base to parked car)**

**D: 100cm (from car to door)**

### Floor heating.

If your floor will have heating cable or piping it is an idea to install it as shown in drawing bellow. In case you decide to move the columns location at another occasion.

Heatsupply





## Special mounting.

Some wish to install the hydraulic pump on the wall to avoid the Hydraulic hoses from lying on the floor. When fitting the pump on the wall make sure the fixing is proper. Make sure you have full overview of the car when operating the lift.

Piping in the concrete floor is by far the nicest way to lay the hydraulic hoses, but be aware that the fittings is hard to pull through tight bend. Avoid using 90degree bends, use 45degree x2 instead.

If the hoses is lying in the ceiling, proper brackets needs to be used.

We consider this to be a live document and strives to add good illustrations and pictures for the future.

When you have fitted your PLC lift we would love to get your feedback, Please send us your feedback by Email. [Post@tech-trading.com](mailto:Post@tech-trading.com)