



## CARDOK MULTI

Double your parking space

High-Tech, Fast, Discreet, Secure, Bespoke

Installation for private houses, buildings, hotels, offices, ...

## Cardok Multi models:

### Cardok Multi Pure

(lift 2000kg on lower platform and lift 2000kg on upper platform. Size 5.3m x 2.6m)

### Cardok Multi Prestige 1 edition

(lift 3000kg on lower platform and park 3000kg on upper platform. Size 5.3m x 2.6m)

### Cardok Multi Prestige 2 edition

(lift 3000kg on lower platform and lift 3000kg on upper platform. Size 5.3m x 2.6m)

### Cardok Multi Exclusive edition

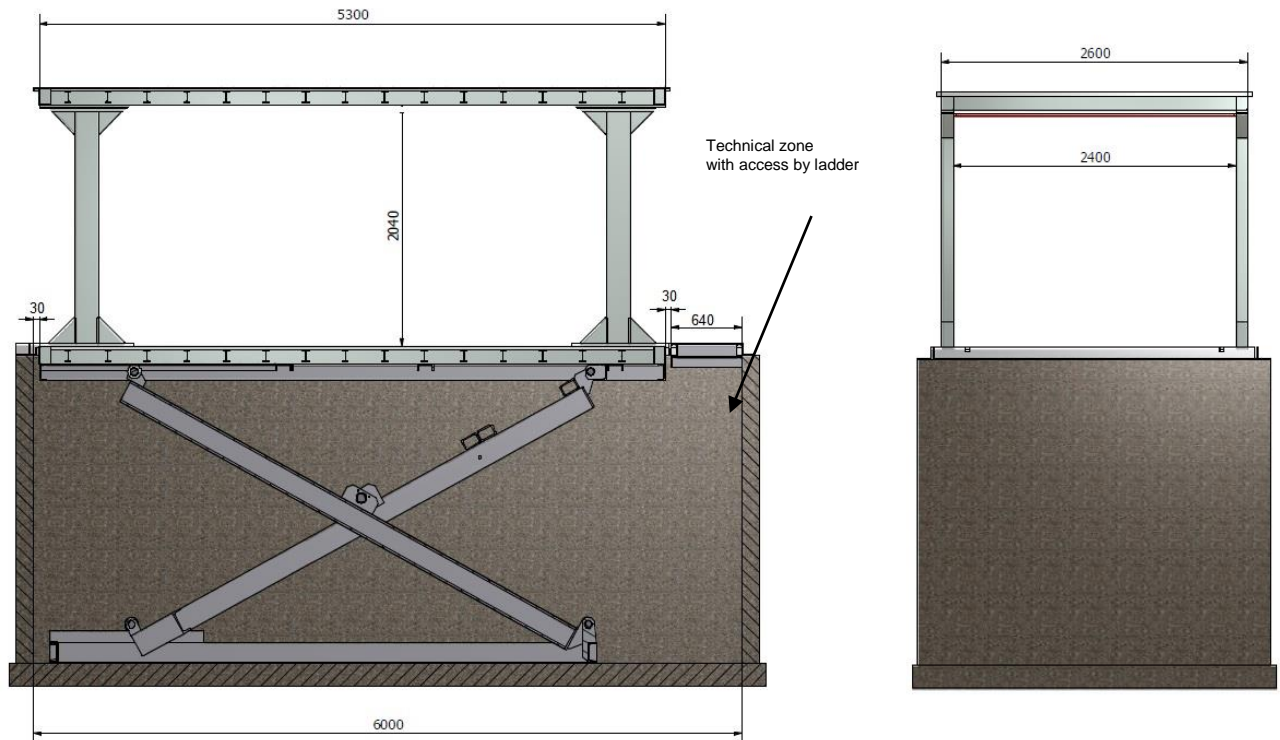
(designed on measure following your request)

## Characteristics :

	Standard	Option
Lower platform load:	2000kg or 3000kg	other
Dimensions available for lower platform:	2400 x 5300mm	2700/3000 x 5000/6000 / other
Dimensions available for upper platform:	2600 x 5300mm	2900/3200 x 5000/6000 / other
Available height:	2040mm	1800 / 2100 / 2200 / other

## Dimensions :

(Built to measure, all dimensions can be changed and adapted upon request and following acceptance)



## Technical zone:

An access hatch (600 x 400mm) is installed on the ground floor to provide access by ladder to the technical zone in the concrete pit.

The technical zone of 640mm can be placed in a technical room. In this case the concrete pit can be 640mm shorter and measure 5360mm. The required space in the technical room is 2.0m<sup>2</sup> and must be accessible at all times for maintenance.

Need to install 2 watertight conduits for hydraulic pipes and electric cables, one separate conduit for each of them. The min diameter is 2 x 60mm (they can be cast in the concrete)

When several Cardok systems are installed, one single hydraulic power pack will be sufficient to lift each platform separately.

## Concrete pit: (built by customer)

The thickness of the walls needs to be defined by an engineer depending on the quality of the land. The walls of the pit must be formed of concrete and must to be perfectly flat and vertical without any protrusions.  
In case of installation with several Cardok Multi side by side, one concrete pit can be created.

Width of each system is 2660mm. Space between each system is 230mm. (2660mm + 230mm + 2660mm + 230mm ...)

The weight of the entire installation together with the maximum load is borne by the concrete pit floor in 4 areas of 400 x 400mm. The static force of each of them is +30kN. The size can be increased, upon demand.

Concrete quality according to the static requirement of the building but for the dowel fastening we require a concrete quality of min. C20/25.

It's important to ensure that the pit edge remains watertight to avoid water entering the concrete cast. This can be achieved with asphalt for example.

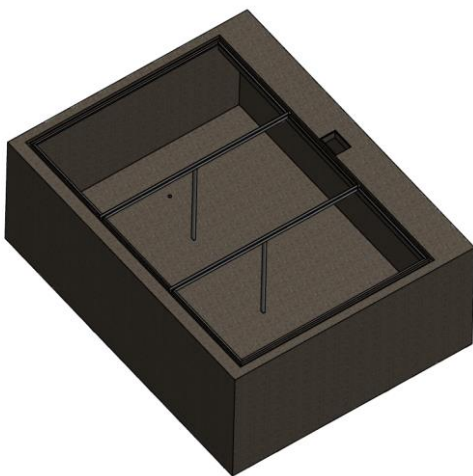
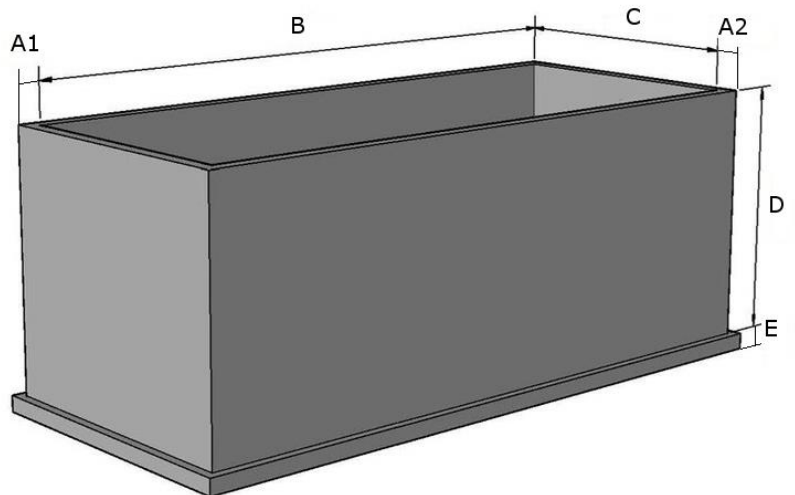
If the land has low permeability we recommend installing a draining system.

Provision of a watertight passage is necessary for electrical supply of min. 80mm in diameter.

Provision of a watertight passage is necessary for water drainage. (see "drainage")

(The pit size must be defined by an engineer and will depend on the characteristics of the land)

- A1 : to be defined by an engineer
- A2 : to be defined by an engineer
- B : Length with technical zone: 6000mm
- B : Length without technical zone: 5360mm
- C : standard 2660mm
- D : standard 2710 mm
- E : to be defined by an engineer  
(Floor to floor height: 2860mm)



Example of 3 Cardok Multi installed side by side in one concrete pit.

## Drainage (to be performed by the customer)

A circular gutter system around the upper platform will prevent water entering the pit. Need to install draining pipes of min. 50mm in each corner.

For locations with particularly exposed conditions we recommend an additional drainage around the outside pit.

Need to install a drainage grid at the bottom of the pit. Where this is not possible, it's necessary to create a slope and a drainage area to install a small sump pump. The necessary dimensions are min 300x300mm and 200mm deep.

To prevent any possibility of contamination of the ground water we recommend giving the pit floor an oil resistant coating as a means of protecting the environment and to facilitate cleaning.

## Installation

The client needs to provide a fixed or mobile crane which will serve to install the system in the pit as well as to unload the truck. Min. hook height and weight requirements are 4m / 6t. (Depending on the site configuration)

## Finish

The finishing of the upper platform is up to the customer's wish and is not included in the price.

We recommend a coating matching the surrounding land which can be asphalt, tiles, gravel, grass or aluminium. It must be determined before the system is built as the weight and the thickness of the coating needs to be taken into account. The standard coating will be 40mm thick and its weight will not exceed 75kg/m<sup>2</sup>. Other options are possible upon request.

## Electricity

Power supply must be provided by the client and must be done by a qualified electrician.

400VAC / >12kW (without options) 3PH+N+ PE (three-phase current) protected by FI

Power of hydraulic pack 9.5kW

One electrical box must be installed outside to install a control panel with an emergency switch and key push buttons to lift or lower the platform. The box must be installed close to the platform.

## Noise

The electric motor is equipped with a noise protection case.

The lifting system does not produce any noise except for some friction noise.

## Light

There are LED lights installed on the upper platform.

If the technical zone is installed away from the concrete pit, it is necessary to install additional lights for maintenance.

## Ventilation

We recommend providing a ventilation system in consultation with heating/ventilation/air conditioning engineers with the aim of obtaining continuous air exchange, reducing air humidity, preventing condensation and reducing moisture from cars (rain, snow, ice etc.).

This helps considerably to reduce or to prevent corrosion and malfunctions due to corrosion.

## Maintenance

Regular maintenance by qualified personnel can be provided by means of an Annual Service Contract.

## Temperature

The installation is designed to operate between -25°C and +50°C. Atmospheric Humidity: 50% at +40°C.

The electrical control panel must be installed in dry local between +3° C and +30° C

Systems are designed for snow load zone II with up to 0.75 kN/m<sup>2</sup> in accordance to DIN 1055-5.

If the local circumstances differ from the above please contact us to provide it.

## Conformity

All our systems are checked according to EC machinery directive 2006/42/EC and EN 14010.

## Notes

In case higher loading is required e.g. passage for fire brigade or delivery fuel oil, please contact us.

The manufacturer reserves the right to modify or alter above specifications.